Pennsylvania Electric Company

Energy Efficiency and Conservation Plan

Act 129 of 2008

Docket No. M-2009-2112952

Revised Modified Plan

December September 212, 2009

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1. **OVERVIEW OF PLAN**

1.1. Summary description of plan, plan objectives, and overall strategy to achieve energy efficiency and conservation goals.

FirstEnergy has coordinated EE&C development efforts across its three Pennsylvania operating companies: Metropolitan Edison Company ("Met-Ed"), Pennsylvania Electric Company ("Penelec" or "Company"), and Pennsylvania Power Company ("Penn Power"), to achieve cost efficiencies and offer a consistent set of programs to customers served by these three companies. In accordance with Act 129 of 2008¹ ("Act 129") 66 Pa. C.S. §2806.1 et seq. Met-Ed, Penelec and Penn Power each submitted on July 1, 2009 an initial Energy Efficiency and Conservation ("EE&C") plans for Commission approval. <u>On September 21, 2009, each of the Companies submitted a Revised EE&C Plan ("Revised Plan")</u>. This <u>Modified Revised Plan, dated September 21, 2009</u>, incorporates the revisions made by the Company in the Revised Plan filed on September 21, 2009 as well as numerous directives set forth in the Commission's Order entered October 28, 2009 ("Order"), addressing the Companies' <u>EE&C</u>Revised Plans.²

<u>The Revised Plan included</u> some of the suggestions made by other parties either through the Company's stakeholder process, settlement negotiations or litigation in the Commission's proceeding established to evauluate the Company's EE&C Plan. These revisions were have been possible due to the availability of programmatic funding from both a reallocation of Direct Load Control ("DLC") Operating and Maintenance ("O&M") costs and an increase in the available budget due to a change in the budget calculation basis from 43 to 48 months. For example, at the request of several parties, the Company has increased its program focus and budgets for the Low Income Customer segment. Other parties have discussed the need to intensify the focus on a more comprehensive Evaluation Measurement and Verification ("EM&V") process. Both suggestions werehave been incorporated into theis Revised Plan, with additional low income programs and measures now-included and an increase in <u>evaluation, measurement and verification ("EM&V"</u>) funding that is more in line with national averages for such activities now reflected³ in the Revised Plan.

Penelec has prepared <u>this</u>, an <u>Modified</u> EE&C Plan ("Plan") that <u>incorporates the following revisions</u> consistent with the Commission's Order entered October 28, 2009:

- It attempts to develop greater statewide consistency with programs;
- It continues stakeholder meetings;
- It continues developing program evaluation processes and procedures;
- It tracks consumer education costs for appropriate allocation;

² Joint Petition of Metropolitan Edison Company, Pennsylvania Electric Company and Pennsylvania Power Company for Consolidation of Proceedings and Approved Energy Efficiency and Conservation Plans, Docket Nos. M-2009-2092222, M-2009-2112952 and M-2009-2112956 (Opinion and Order entered October 28, 2009).

³ The remaining funds created by the DLC and budget changes are being held back for the purpose of financing important programmatic changes and, perhaps, additions that may be found to be necessary and/or desirable as the Company and its stakeholders collect and assess key program performance metrics over the course of each program's deployment and operation. Given the uncertain economic conditions at the state, federal and global levels, as well as the newness of this entire Act 129 process, the Companies believe this approach to be prudent and reasonable.

¹ Act 129 of 2008 became effective on November 14, 2008, and imposed new requirements on Pennsylvania's electric distribution companies ("EDCs") in the areas of energy efficiency and conservation, smart meters, procurement and alternative energy sources. Act 129 requires an EDC with at least 100,000 customers to adopt and implement a plan, approved by the Commission, to reduce energy demand and consumption within its service territory. 66 Pa. C.S. §§ 2806.1 and 2806.2.

- It excludes EE&C costs (net of tax) recovered through the EEC-C Rider from distribution rate base as appropriate;
- It creates separate cost recovery groups for certain government and non-profit rates;
- It adopts a demand charge for the industrial customer class based on a customer's PJM Peak Load Contribution ("PLC");
- It increases budget amounts for Met-Ed residential direct load control;
- It increases budget amounts for certain low income measures;
- It supports HVAC tune-up and recommissioning measures;
- It bids residential direct load control programs into the applicable PJM RPM auctions;
- It tracks amounts received from PJM for curtailments;
- It eliminates credit requirements for demand reduction programs;
- It incorporates recovery of the approved EE&C costs through distribution rates for residential customers;
- It collects approved EE&C costs through a separate line item on customers' bills for commercial and industrial (but not residential) customers;
- It removes contingency funds from the cost recovery mechanism⁴;
- It requests retroactivity to July 1, 2009 for certain programs;
- It increases budget amounts and provides updates regarding the tracking and reporting system;
- It tracks participation by low-income customers to support reporting and evaluation;
- It removes energy savings from existing LIURP/WARM funds;
- It clarifies the costs for common costs (e.g., evaluation); and,
- It collects the cost of the statewide evaluator outside the 2% cap for Plan spending.
- attempt to develop greater statewide consistency with programs;
- continue stakeholder meetings;
- <u>continue developing program evaluation;</u>
- eliminate interest on start-up costs;
- exclude EE&C costs (net of tax) recovered through the EEC-C Rider from distribution rate base as appropriate;
- create separate cost recovery group for certain government and non-profit rates;
- adopt a demand charge for the industrial customer class based on a customer's PJM Peak Load Contribution;
- increase budget amount for certain low income measures;
- <u>support HVAC tune-up and recommissioning measures;</u>
- bid residential direct load control programs into the applicable PJM RPM auctions;
- track amounts received from PJM for curtailments;
- eliminate credit requirements for demand reduction programs;
- <u>incorporate recovery of the approved EE&C costs through distribution rates for residential</u> customers;
- <u>collect approved EE&C costs through a separate line item on customers' bills for commercial and industrial customers;</u>
- remove contingency funds from cost recovery mechanism⁵;
- request retroactivity to July 1, 2009 for certain programs;

⁴ Although the total budget for the Plan is slightly less than 2% of 2006 revenues, the Company reserves the right to spend up to the 2% cap should future plan modifications necessitate additional expenditures to achieve the savings and demand reduction targets set forth in Act 129.

⁵ Although the total budget for the Plan is slightly less than 2% of 2006 revenues, the Company reserves the right to spend up to the 2% cap should future plan modifications necessitate additional expenditures to achieve the savings and demand reduction targets set forth in Act 129.

____provide update regarding tracking and reporting system;

track participation by low-income customers to support reporting and evaluation;

remove energy savings from existing LIURP/WARM funds;

Penelec has increased the marketing budget from \$1.8 million to \$2 million. The increased budget reflects the total amount of spending available for the CompaniesPenelec and the CSPs for advertising, marketing and education. The increased budget is a result of additional direction provided by the FirstEnergy's Communications Department, information from CSPs obtained through RFPs and discussions with other EDCs in the Commonwealth. The marketing and educational efforts are critical to the success of the energy efficiency and demand reduction programs.

Penelec has increased its EM&V budget from \$2.6 million to \$3.5 million. The increased budget is a result of additional cost information obtained through bids to provide EM&V services; and, the responsibilities of the EDCs and their EM&V providers as depicted in the draft statewide evaluation audit plan.

Penelec has increased the budget for residential low income programs to recognize revised pricing for smart strip power plugs. Smart strip power plugs will be used in the WARM Plus program and is one of the extra measures being used for enhancements to the existing WARM program. Penelec WARM Plus and Low Income Warm Program Through Act129 budgets will increase by \$115,720 and \$29,608-for WARM "Extra Measures" Program respectively.

Penelec has increased its tracking and reporting system budget from \$147,105 to \$756,540. The increased budget is a result of additional cost information obtained through bids to provide a tracking and reporting system.

<u>The Plan</u> balances near-term energy savings opportunities among all rate classes with longer-term programs that will create jobs and build capacity for delivering even greater energy and demand reduction impacts. <u>As</u> suggested in the <u>Commission's-Order</u>, entered October 28, 2009, the Company will monitor and work with other EDCs in an attempt to develop greater statewide consistency in their wWhole hHouse and rRebate pPrograms to take advantage of efficiencies in marketing and shared vendors. In this regard, FirstEnergy has already coordinated its EE&C development efforts across its three Pennsylvania operating companies to achieve cost efficiencies and consistencies in the programs offered by its three companies. —For appliance recycling and possibly otherselected programs, cooperative efforts may go even further such that all the major Pennsylvania electric distribution companies ("EDCs") subject to Act 129 will offer coordinated statewide programs to their customers.

The result of these efforts is a comprehensive set of programs that will enable Penelec to achieve the goals established under Act 129 for energy savings by 2011 and for energy and peak demand reductions by 2013, all achieved within the spending caps as required under Act 129 and as prescribed by the Pennsylvania Public Utility Commission ("PUC" or "Commission"). Penelec's goals are highlighted in grey in Penelec Tables 1 and 2 below⁶:

Penelec Table 1: FirstEnergy Energy Savings Targets per Act 129

⁶ In addition to the tables required by the Commission (which are designated as "PUC Tables"), the Company developed additional Tables 1 – 6 which are designated as "Penelec Tables" and have been included as additional support.

Energy Consumption Forecasts and Act 129 Mandated Consumption Reductions as Measured in Megawatt-Hours					
1% at 5/31/2011 3% at 5/31/2013					
EDC	Forecast	Reduction	Reduction		
Penelec	14,399,289	143,993	431,979		
Penn Power	4,772,937	47,729	143,188		
Met-Ed	14,865,036	148,650	445,951		

Source: Energy Consumption and Peak Demand Reduction Targets, Docket No. M-2008-2069887 (Order entered March 30, 2009).

Penelec Table 2: FirstEnergy Peak Load Reduction Targets per Act 129

Average Peak Loads Top 100 Hours and Act 129 Mandated Peak Demand Reductions as Measured in Megawatts			
EDC	Load	4.5% Reduction	
Penelec	2,395	108 MW	
Penn Power	980	44	
Met-Ed	2,644	119	

Source: Energy Consumption and Peak Demand Reduction Targets, Docket No. M-2008-2069887 (Order entered March 30, 2009).

These targets are to be achieved for the expenditure levels noted below in Penelec Table 3, which represent the annual spending caps established by Act 129:

Penelec Table 3: FirstEnergy Goals and Spending Caps per Act 129

Revenues 2006	Penelec
Total Revenues	\$1,148,737,096
2% of Revenues	\$ 22,974,742

Penelec Tables 4a-4c summarizes the programs that are included in this Plan. Detailed descriptions of the programs are provided in Section 2 as required by the Commission template. It is the intention of the Company to attempt to coordinate with other EDCs on a statewide basis those programs marked with an asterisk (*). Penelec Table 5 separately lists the rebate amounts per measure for those programs that involve customer incentives. Other programs were considered and analyzed, as were more energy efficiency technologies, but were eliminated from the EE&C Plan for various reasons, including cost effectiveness.

Penelec Table 4a: Penelec EE&C Programs - Residential

Program	Description	Incentives	
Home Energy Audits	Households will be able to identify energy saving opportunities through either an on-line or a professional walk through audit. Those who complete either audit will receive free CFLs and other measures.	The on-line audit is free to participating customers and the participating customers will be offered free CFLs and, for those with electric water heating, two faucet aerators. On-site audits, at a subsidized cost to the participating customer of \$50, includes installation of CFLs and other basic energy saving measures.	
Residential Appliance Turn- In Program*	Provides a small incentive to households for turning in older inefficient appliances that are in working order.	 There are no costs to participating customers for this program. Incentives per unit are: Refrigerators <u>- up to</u>\$50 Freezers <u>- up to</u>\$50 Room Air Conditioners <u>- up to</u> \$50 	
Residential HVAC*	Provides incentives for contractor-installed HVAC systems in existing or new residential buildings.	Incentives range from \$250 for ENERGY STAR qualified Central AC systems at 15 SEER to \$325 for qualified heat pumps at 15 SEER.	
Residential Energy Efficiency Products Program*	Provides incentives to participating customers and support to retailers that sell energy efficient products. In addition, the program will provide Community education and workshops.	Rebates and incentives range from \$1 for a CFL light up to \$500 for a solar water heater. High efficiency and heat pump water heaters are included in this program.	
Residential New Construction*	Encourages builders to achieve highly energy efficient homes through the implementation of contractor-installed HVAC, solar, or other eligible systems in existing or new residential buildings.	Participating customers receive a rebate based on calculation of the overall home's energy savings over standard options, and can participate in the prescriptive rebates offered under the other residential rebate programs.	
Residential Whole Building	Provides comprehensive diagnostic assessments followed by direct installation of selected low cost measures plus various incentives. Customers can tap into both rebates and loans.	Comprehensive On-site audits including blower door tests are at a subsidized cost to the participating customer of \$100. Provides discounted pricing for eligible measures ranging from free kitchen and bathroom faucet aerators to \$300 toward the cost for duct sealing. Participating customers are encouraged to participate in the Keystone Home Loan Program for	

⁷ A *project* is an activity or course of action involving one or multiple energy efficiency measures, at a single facility or site. A *program* is a generic offering (e.g. service and/or incentive) available to a group of projects with similar characteristics and installed in similar applications. Individual programs include those that involve encouraging and/or incenting the installation of equipment or practices associated with energy efficient retrofit, new-construction or solar

Program	Description	Incentives	
		the balance of $project^7$ costs as needed.	
Multi-Family - Tenants Tenants in buildings covered under the Penn. Housing Finance Authority (PHFA) program may participate in lighting retrofits, plug strips of other measures deemed appropriate.		Tenants will receive CFLs to replace incandescent bulbs in their units. Building owners will receive incentives toward common area lighting or other measures deemed appropriate. This program will target low-income communities <u>communities</u> . Costs associated with Residential accounts will be tracked through the Residential multifamily program. Costs associated with non-residential accounts will be tracked through a C/I multifamily program <u>or</u> <u>Government mMultifamily program</u> .	
Residential Direct Load Control	Provides load cycling controls for Residential Central Air Conditioning ("CAC"), as well as controls for electric water heaters and Pool Pumps for customers receiving CAC controls.	Provides installation of load control equipment, an enrollment incentive of \$50 and a participation incentive of \$10/month for each summer month for each control installed. If participating customers also control either the water heater or pool pump the participation incentive increases to \$15/month.	
Low-Income Residential	This program provides additional electric energy savings measures to the existing WARM program and includes providing the program to additional customers ⁸ .	Current WARM participants will receive additional CFLs and smart power strips not provided under the current program. Low usage customers that don't qualify for the WARM program will be provided CFLs, aerators and energy educational materials. Additional low-income customers will receive treatment under the "WARM Plus" Act 129 program.	

energy projects. The *portfolio* consists of all the programs in the residential, commercial/industrial small, commercial/industrial large, and governmental/non-profit sectors. Residential sector programs include low-income, single-family and some agricultural and/or multi-family housing projects. Commercial/Industrial Small sector programs include small commercial, industrial, some agricultural or multi-family housing, and public sector facility projects. Commercial/Industrial Large sector programs include large commercial, industrial, and public sector facility projects. Governmental/Non-Profit includes Federal, State, Municipal, and Local Governments; as well as school districts, institutions of higher learning, <u>multifamily housing</u> and non-profit entities.

⁸ Low-income customers are also eligible to participate in other programs. Participation of low-income customers in other programs will be tracked and reported to support assessments of equitable treatment of low-income customers under Act 129.

Program	Description	Incentives
Energy Audit and Technology Assessment Program	Provides a simple walk-through audit for small business with non-complex loads, and a more comprehensive assessment for medium to large non-residential customers. Fixed fee for small businesses and per square foot fee for larger buildings.	Customers receive a basic energy audit. Audits will be advertised and used as an entry to other commercial programs.
C/I Equipment Program*	Provides for the implementation of cost effective, high efficiency standard and non- standard measures.	This program provides incentives for a portion of the incremental technology costs of high efficiency units. In addition, it will provide technical support, rebates, and support access to project financing.
Industrial Motors and Variable Speed Drives	 This program is designed to encourage the company's commercial and industrial customers to: 1. Purchase energy efficient (EE) Motors. 2. Install variable speed drives on motors for eligible applications. 	Incentives will be available to customers and through motors distributors. The motor upgrade program's individual incentives per motor range from \$20 to \$400. The variable-speed drive incentive is \$30 per horsepower of the motor being used.
C/I Demand Response Program	This program is designed to address the 100 highest peak load hours in the year, as required under Act 129.	Through PJM and other Demand Markets First Energy will provide payments to companies that reduce load during peak times.
C/I Performance Contracting	Large commercial and industrial (including governmental facilities) customers may elect to secure DSM/EE services through an Energy Services Company that will identify opportunities, implement retrofits and be paid through the savings generated by the project over time.	Penelec will identify qualified Energy Services Companies and will pay a portion of the project costs based on measures installed, and associated kWh and kW savings delivered that also support savings goals.

Penelec Table 4b: Penelec EE&C Programs – Commercial & Industrial

Program	Description	Incentives
Federal Facilities Program	Provides for the implementation of cost effective, high efficiency standard and non-standard measures for federal buildings.	For federal facilities that qualify, smaller incentives are offered, due to the fact that most of the costs will be paid for under the Federal Energy Management Program.
Municipal Street Lighting	This program supports conversion of mercury vapor street lights to High Pressure Sodium technology.	Subsidizes the first cost of streetlight conversions normally charged to customers through distribution rates.
Municipal Lighting	This program retrofits traffic and pedestrian signals with LEDs	Provide a rebate of up to \$45 for three light signal retrofits (i.e. Green 8" 25, Red 8" 20) and a rebate of \$25 for a pedestrian signal.
Local and County Government Audits	Provides local and county buildings including schools, with a more comprehensive assessment.	Participating customers receive an energy audit. Audits will be offered free of charge and used as a marketing tool for other commercial programs. These Audits will increase the participation percentage of Government customers.
Local County and State Government, Institutional, Non- Profit and Schools	This program tailors the rebates offered to small and large C/I under the C/I programs by targeted outreach.	Offers the same rebate amounts as are provided under the C/I programs.

Penelec Table 4c: Penelec EE&C Programs – Governmental & Institutional⁹

The following table lists the planned rebates and customer incentives associated with each of the programs above. Incentives to trade allies and other delivery agents are not included here. More detail is provided in the individual program descriptions in Section 3. It should be noted that for some measures, there will be limits as to the number of units that will be rebated to any one customer or through any one program in order to stay within the budgetary assumptions. In addition, all commercial and industrial rebates require pre-approval by the Company to enable process management and verification of existing equipment.

⁹ If a multi-family facility is operated by a local, state or federal agency, savings as a result of measures for these multi-family facilities will qualify for Governmental and Institutional prescribed requirements.

Energy Efficiency Program	Technology	Rebate or Incentive Amount
Direct Load Control	Direct Load Control - CAC	Up to \$50 per Year
Direct Load Control	Direct Load Control – Pool Pumps	Up to \$75 per Year
Direct Load Control	Direct Load Control – Water Heat	Up to \$75 per Year
Residential Appliance Turn-In Program	Refrigerator/Freezer Recycling	<u>Up to</u> \$50 Payment
Residential Appliance Turn-In Program	Room Air Conditioners	Up to \$50* Payment
Residential Energy Efficient HVAC and Solar Equipment Program	ASHP - SEER 15	\$325** per Unit
Residential Energy Efficient HVAC and Solar Equipment Program	CAC - SEER 15	\$225** per Unit
Residential Energy Efficient HVAC and Solar Equipment Program	CAC- Maintenance/Tune- Up	\$25 offer Qualified Service
	With Qualified Furnace Fan Replacement	\$40
Residential Energy Efficient HVAC and Solar Equipment Program	EE Ground Source Heat Pump	\$217 per ton
Residential Energy Efficient Products Program	Solar Water Heating	\$500 per Unit
Residential Energy Efficient Products Program	HP Water Heater	\$300 per Unit
Residential Energy Efficient Products Program	EE Water Heater	\$50 per Unit
Residential Energy Efficient Products Program	Programmable Thermostat, if CAC	\$25* per Unit
Residential Energy Efficient Products Program	CFL bulbs regular 15 watts	\$1 off shelf price through retail store
Residential Energy Efficient Products Program	CFL bulbs regular 19 watts	\$1 off shelf price through retail store

¹⁰ All rebates proposed are initial values; maximum values are subject to change based on program experience or other factors.

Energy Efficiency Program	Technology	Rebate or Incentive Amount
Residential Energy Efficient Products Program	Clothes Washer ENERGY STAR®, if home uses Electric Water heater	\$75* per Unit
Residential Energy Efficient Products Program	Dehumidifiers	\$10 per Unit
Residential Energy Efficient Products Program	Freezers ENERGY STAR® -Chest Freezer	\$25* per Unit
Residential Energy Efficient Products Program	LED Holiday Light Sets	\$20 Max for 6 Boxes \$3.33 per Box
Residential Energy Efficient Products Program	Pump and Motor Single Speed	\$20 per Unit
Residential Energy Efficient Products Program	Refrigerators-Freezers ENERGY STAR® - Side by Side	\$50* per Unit
Residential Energy Efficient Products Program	Refrigerators-Freezers ENERGY STAR® - Top Freezer	\$50* per Unit
Residential Energy Efficient Products Program	Room Air Conditioners	\$25 per Unit
Residential Energy Efficient Products Program	Smart Strip plug outlet	\$10 per Unit
Residential Energy Efficient Products Program	Torchiere Floor Lamps	\$10 per Unit
Residential New Construction	Residential New Construction - 15% better than energy code	Formula Based on Savings estimated at 70% of Incremental Costs*
Residential New Construction	Residential New Construction - 30% better than energy code	Formula Based on Savings estimated at 70% of Incremental Costs*
Multiple Family	T8-Lighting	\$1 a Watt Rebate base on TRM Table
Governmental Programs	Exterior HID replacement above 250W to 400W HID retrofit	\$0.15 a Watt Rebate base on TRM Table
Governmental Programs	HPT8 4ft 4 lamp, T12 to HPT8	\$0.15 a Watt Rebate base on TRM Table

Energy Efficiency Program	Technology	Rebate or Incentive Amount
Governmental Programs	LED Auto Traffic Signals	\$25 Green 8"**, \$20 Red 8"**
Governmental Programs	LED Exit Signs Electronic Fixtures (Retrofit Only)	\$2 a Fixture
Governmental Programs	LED Pedestrian Signals	\$25 per Unit
Governmental Programs	Occupancy Sensors under 500 W	\$2 a Unit
	Street Lighting 175	\$200
Governmental Programs	Street Lighting - 175 Mercury to 100 HPS	Offset 1st cost plus initial O&M
Governmental Programs	Water-Cooled Centrifugal Chiller 150 - 300 ton 0.57 kW/ton with 0.46 kW/ton IPLV	\$50 per Unit
Governmental Programs	Water-Cooled Centrifugal Chiller < 150 ton 0.56 kW/ton with 0.53 kW/ton IPLV	\$50 per Unit
Commercial and Industrial Equipment Program	AC <65,000 1 Ph	\$150 per Unit*
Commercial and Industrial Equipment Program	AC 65,000 - 135,000	\$250 per Unit*
Commercial and Industrial Equipment Program	AC 240,000 - 760,000	\$350 per Unit
Commercial and Industrial Equipment Program	Commercial CFL Program	\$1 per Unit
Commercial and Industrial Equipment Program	Clothes Washer CEE Tier1, if Electric Water heater	\$50 per Unit
Commercial and Industrial Equipment Program	Demand-controlled ventilation (DCV)	15% of cost up to \$500
Commercial and Industrial Equipment Program	Efficient Refrigeration Condenser	\$10 per Unit
Commercial and Industrial Equipment Program	ENERGY STAR® Commercial Solid Door Freezers less than 20ft3	\$50 per Unit

Energy Efficiency Program	Technology	Rebate or Incentive Amount
Commercial and Industrial Equipment Program	ENERGY STAR® Commercial Solid Door Freezers 20 to 48 ft3	\$50 per Unit
Commercial and Industrial Equipment Program	ENERGY STAR Commercial Solid Door Refrigerators less than 20ft3	\$50 per Unit
Commercial and Industrial Equipment Program	ENERGY STAR® Commercial Solid Door Refrigerators 20 to 48 ft3	\$50 per Unit
Commercial and Industrial Equipment Program	ENERGY STAR® Ice Machines less than 500 lbs	\$50 per Unit
Commercial and Industrial Equipment Program	ENERGY STAR® Ice Machines 500 to 1000 lbs	\$150 per Unit
Commercial and Industrial Equipment Program	ENERGY STAR® Ice Machines more than 1000 lbs	\$200 per Unit
Commercial and Industrial Equipment Program	ENERGY STAR® Steam Cookers or Other Cooking Equipment	Up to \$400 per Unit based on Equipment Savings
Commercial and Industrial Equipment Program	Exterior HID replacement above 175Watt to 400Watt HID retrofit	\$100** per Fixture
Commercial and Industrial Equipment Program	EE Water Heater	\$50 per Unit
Commercial and Industrial Equipment Program	HP Water Heater	\$200 per 100 Gals
Commercial and Industrial Equipment Program	HPT8 4ft 4 lamp, T12 to HPT8	\$0.65 a Watt Rebate base on TRM Table
Commercial and Industrial Equipment Program	LED Exit Signs Electronic Fixtures (Retrofit Only)	\$15 per Fixture
Commercial and Industrial Equipment Program	Occupancy Sensors under 500 W	\$35** Others based on the amount of Controlled Load
Commercial and Industrial Equipment Program	Plug Load Occupancy Sensors Document Stations	\$35** Others based on the amount of Controlled Load

Energy Efficiency Program	Technology	Rebate or Incentive Amount
Commercial and Industrial Equipment Program	Commercial Smart Strip Plug Outlet	\$10 per Unit
Commercial and Industrial Equipment Program	Pre Rinse Sprayers	\$35 per Unit
Commercial and Industrial Equipment Program	CAC Refrigerant charging correction	\$25 per Unit
Commercial and Industrial Equipment Program	Refrigeration Commissioning	\$25 per Unit
Commercial and Industrial Equipment Program	Strip curtains for walk-ins - freezer	\$50 per Unit
Commercial and Industrial Equipment Program	Vending Equipment Controller	\$25 per Unit
Commercial and Industrial Equipment Program	Window Film	\$25 per 100 square foo
Commercial and Industrial Equipment Program	Setback/Setup	\$25 per 1000 sq ft conditioned floor area
Commercial and Industrial Equipment Program	Water-Cooled Centrifugal Chiller < 150 ton 0.56 kW/ton with 0.53 kW/ton IPLV	\$25 per Ton
Commercial and Industrial Equipment Program	Water-Cooled cent Chiller 150 - 300 ton 0.57 kW/ton with 0.46 kW/ton IPLV	\$12.50 per Ton
Industrial Motors and Variable Speed Drives	Motors 1 HP 1200	\$20 for <=1 HP
Industrial Motors and Variable Speed Drives	Motors 5 HP 1200	\$54 for >2 <=5 HP
Industrial Motors and Variable Speed Drives	Motors 10 HP 1200	\$70 for >6 <=10 HP
Industrial Motors and Variable Speed Drives	Motors 20 HP 1200	\$113 for >11 <=20 HP Over 20 Based on Formula
Industrial Motors and Variable Speed Drives	Motors 1 HP 3600	\$20 for <=1 HP
Industrial Motors and Variable Speed Drives	Motors 5 HP 3600	\$54 for >2 <=5 HP
Industrial Motors and Variable Speed Drives	Motors 10 HP 3600	\$70 for >6 <=10 HP
Industrial Motors and Variable Speed Drives	Motors 20 HP 3600	\$113 for >11 <=20 HP Over 20 Based on Formula

Energy Efficiency Program	Technology	Rebate or Incentive Amount
Industrial Motors and Variable Speed Drives	Water Pumps with VFD's	\$30 per HP
Industrial Motors and Variable Speed Drives	HVAC Fans with VFD's	\$30 per HP
Industrial Motors and Variable Speed Drives	Air Compressors with VFD's	\$30 per HP

* Program will be subject to a quota for budgetary reasons

** Program will have other rebates based on equipment size and may be subject to quotas for budgetary reasons

The program designs presented in this filing cover each of the four market segments: residential, small nonresidential, large non-residential, and government (which includes federal, state, and local government or municipalities/school districts/institutions of higher learning and non-profit entities). The Plan uses a mix of expanded and new services that take maximum advantage of leveraging opportunities, volume cost efficiencies and a variety of delivery channels that are estimated to result in significant levels of customer participation, and allow for the measurement of implementation and behavioral changes.

Residential Sector Programs – Residential programs were designed with a progression from general to specific. Home energy audits are expected to serve as a "portal" (but not a requirement) for the other programs, because they serve a dual purpose of providing customers with information upon which they can act, as well as providing the Company with important baseline information for future impact evaluation. The programs then address a range of first-cost and financing barriers, and tap a variety of delivery channels and vendors. To address the higher first cost of energy efficient appliances and products, rebates are provided. To address the balance of costs associated with projects, households are encouraged to participate in the Keystone Home Loan Program. Appliances that can contribute demand reductions at the highest 100 hours of system peak demand will be signed up for a direct load control program that provides a customer incentive for participation. The programs will incorporate monitoring protocols into the implementation process as much as possible so that the measurement and verification ("M&V") activities for each program are credible but not burdensome.

Small and Large Non-Residential Sector Programs – Small and large commercial businesses and industrial customers are similarly addressed by offering targeted information on ways to save energy followed by a choice of prescriptive rebates on selected measures, or a calculated rebate or financing package offered through a third-party vendor. Custom equipment can be addressed either through performance contracts or calculated rebates based upon the estimated amount of energy savings and demand reductions associated with the project. Conservation Service Providers (CSPs), who will act as demand response aggregators, will also be contracted to deliver kWs of load reduction during the top 100 load hours of system peak demand.

The Commission identified two special groups for specific targeting through the Act 129 EE&C programs: Government Facilities and Low-Income Households.

Governmental Sector Programs –The Plan has program services for three groups -- federal government facilities, local government facilities, schools and facilities operated by non-profit organizations -- all within the Company's service territory. While all non-residential buildings are eligible for the prescriptive and custom energy efficiency programs, special efforts are targeted at this segment in recognition of their unique decision-making and financing processes for making capital improvements to facilities. To get projects completed, the programs will leverage existing company Area Manager relationships and employ experienced

vendors who specialize in working with governmental accounts. Penelec will also offer free audits of county and local buildings in order to increase the adoption rates and identify savings potentials.

Low Income Customer Sector Programs – Within the residential sector programs is a special category of Low Income Customer Sector Programs. Energy affordability is an increasing concern in Pennsylvania as Penelec transitions to market-based rates. The low income customer programs outlined in this Plan will serve a dual purpose of contributing to Act 129 goal attainment and minimizing the percentage of household income that is devoted to energy costs. Enhanced measures and education will be offered in the low income portfolio to give households more control over their energy spending. Maximum effort will be made to capture cost effective electric energy savings as part of the delivery of the existing Low Income Usage Reduction Program ("LIURP"), known as WARM services, by tapping the considerable expertise and existing infrastructure of WARM contractors (Community Based Organizations ("CBOs") and private contractors). If it is determined that capacity has been reached for these organizations to meet the increased demand and achieve the goals, the Company will enhance the delivery system with additional contractors.

In the low income sector, the existing WARM program has offered comprehensive energy efficiency services to eligible Pennsylvania households for years. The approach being taken in this area of the Plan is to enhance and accelerate the deployment of services to WARM-eligible households by providing additional lighting retrofits and Smart Plug Strips to the package of measures delivered and by adding resources to achieve more savings in each visit. The Company also plans to deliver WARM services to additional low-income customers through the Act 129 "WARM-Plus" program. Also at the time of the home visits for all WARM participants, additional Act 129 energy saving equipment will be identified and installed. The Company estimates providing services to 25% additional Penelec homes through the WARM Plus program.

Households with elderly customers and other low use customers sometimes do not qualify for the WARM program even if these customers are within the 150 percent of Federal poverty income guidelines. For these households, the Company will provide lighting retrofits, aerators and educational materials on behavioral changes that can be made to reduce electricity costs. Additional programs (e.g., appliance recycling, energy efficient products, and load control programs) will also increase availability of subsidized energy efficiency services that, where applicable, will also be offered. The Company will track or estimate participation of low-income customers in other programs to support assessments of equitable treatment of low-income customers under Act 129. The Company estimates that income-qualified low-use customers represent an additional 6,800 households in Penelec's service territory.

The Commission determined in its Order entered October 28, 2009, that the energy savings from existing WARM services are not derived from Act 129 programs and should not be attributed to the Companies' low-income energy efficiency and demand reduction obligations under Act 129. The Company has revised this Plan to exclude the energy savings from the existing LIURP program from Act 129 energy savings.

In this Modified Plan, the Company is proposing to increase its Low Income budget to include higher than anticipated costs for the purchase, installation and customer education surrounding the use of the smart strip power plugs. This matter has been addressed in Section 1.1 above.

Also, the Company notes that it looks forward to having a representative participate in the Commission convened working group that will be charged with developing implementation standards for compliance with Section 2806.1(b)(1)(i)(G). To assist the Commission in determining the best way to evaluate the Plan's compliance, the Company will review the methods used to calculate the low-income customer energy usage share for reasonableness and any census or other demographic data used in the calculation for relevance and reliability. The Company representative on the working group will assist in identifying the standardized data to be used to determine the proper proportion for low-income households and any other matters that require clarification before the annual reconciliation process. The Company will participate in the working group in

orderso that its the working group's recommendations may be provided to the Commission no later than February 16, 2010.

Furthermore, the Company agrees that full implementation of Section 2806.1(b)(1)(i)(G) will take some time. To conduct the low income calculations, the number of energy efficiency measures that must be dedicated to low-income customers is calculated by first determining the percentage of total energy usage that is attributable to the low-income customer group. This number is the percentage of the Plan's total energy efficiency measures that must be dedicated to low-income customers. Unfortunately, the usage data referred to in Act 129 is not readily available to the Company. The Company does not maintain information on energy usage by customer income level; as a result, the Company used estimates in order to achieve the goals of Act 129.

The Company's Plan proposes that low-income customers are eligible to participate in other residential programs and their participation will be tracked and reported to support assessment of equitable treatment of low-income customers. To aid the Commission in ensuring compliance with Act 129, the Company will track instances in which low-income customers participate in residential and other programs that are not specifically directed toward low-income customers. The Company will include this information in the Company's annual report to the Commission. The Company will track and report direct participation by low-income customers in the following residential programs: Appliance Turn-In Program, Direct Load Control Programs, In-Home and On-line Energy Audits.

Estimates of low-income customer participation by zip code and census will be used to determine participation in school programs, multi-family and energy efficient products programs.

In short, the EE&C plan will aggressively, yet sensitively, pursue the energy savings available to this special needs groups as an important part of achieving the Company's Act 129 goals, but more importantly, as a way to help these households mitigate the coming effects of the transition to market-based rates.

The Plan also includes:

Customer Awareness and Education – Essential to the success of these programs will be a concurrent marketing and educational campaign. Once Commission approval is obtained, Penelec will immediately launch an outreach effort that (i) builds awareness and interest in the programs; (ii) communicates ways that customers may participate; and (iii) explains expected benefits and reasons for participating. Included in each program's budget is a share of a first year marketing campaign for that sector with a smaller amount of sustaining marketing resources included for the four year period of the Plan so as to ensure adequate outreach for achieving program goals. In addition, the Company will utilize the Customer Education program approved by the Commission at Docket Nos. M 2008-2032261, M 2008-2032262 and M 2008-2032263. A forthcoming RFP for a Program Management Contractor will include a section requesting a team member with educational expertise in social marketing and consumer behavior change. The Company will track consumer education expenses to determine the portion attributable to the transition to market-based rates and the portion attributable to the implementation of Act 129 Plans, only the portion which educates consumers about the availability of EE&C programs will be recovered through the EEC-C Rider and subject to the 2% cap.

Adherence to the TRC test and the TRM – Throughout the planning process FirstEnergy has adhered to the requirements of Act 129, beginning with the selection process and timing related to obtaining a CSP for technical support in developing this Plan. The Company, through a competitive bidding selection process, selected Black & Veatch Corporation who has been fully engaged in reviewing and providing commentary on recently released Commission directives, including those

related to the requirements and guidance of both the Total Resource Cost Test (May 28, 2009)¹¹ and Technical Reference Manual (June 1, 2009). As part of this process, the FirstEnergy team has met with Commission Staff, the Office of Consumer Advocate's ("OCA's") energy efficiency advisory expert, Mr. David Hill of Vermont Energy Investment Corporation, OCA staff and other stakeholders both individually and as a group, to discuss the intent and spirit of these directives and how they are being addressed in the Plan. Moreover, Penelec has supported the PUC's efforts to contract with a statewide evaluation consultant, and will work with PUC staff and the chosen consultant to develop, as appropriate, additional "custom" or other measures eligible for savings under the TRM. Appendix E lists the savings assumed for non-TRM measures and the public sources used to obtain them.

Stakeholder Input – As indicated above, the Company, in an effort to incorporate other points of view, has obtained the input from various stakeholders. This was accomplished in a variety of ways:

- The Company issued a Request For Information (RFI) to CSPs, both registered and un-registered, and implementation vendors, asking detailed questions regarding effective program elements, average costs and recommendations for the Company's consideration in the design of the programs. Twentyeight organizations responded with detailed information and constructive ideas.
- 2) Three Stakeholder Meetings were held in Harrisburg, Pennsylvania at the offices of the Commission to share the Plan's status and obtain input from attendees. More than 20 stakeholder representatives attended the first meeting, more than 30 stakeholder representatives attended the second meeting and more than 60 stakeholder representatives attended the third meeting. Positive discussions were held both at the meetings and in follow-up conference calls with the design team that resulted in significant improvements to the programs. Stakeholders were also invited via mass emails to provide additional input.
- 3) Community Based Organizations represent and deliver services to the low income sector, an important group with separate Act 129 targets. The project team shared conceptual plans with CBOs and WARM contractors in Pennsylvania via a presentation made at one of their regularly scheduled advisory panel meetings.
- <u>4)</u> 4)—FirstEnergy has communicated with other EDCs as they develop their plans, exchanging ideas and coordinating insights and initiatives where they deemed it practical and appropriate given the limited time available for development of plans.
- 5) The Company will continue their commitment to an ongoing stakeholder process. FirstEnergy will meet with interested parties as needed, but not less than twice annually until May 31, 2013. The Company agrees to explore Plan improvements as suggested by the Office of Consumer Advocate. The Company will utilize the stakeholder process to seek input regarding possible improvements including a program for new commercial/industrial construction, implementing measures geared toward agricultural customers, and initiatives targeted toward high-value market subsets such as supermarkets or data centers. Since the Company faces the risk of penalties in the event of non-

¹¹ The FirstEnergy EE&C plans are based upon the requirements and guidance of the Total Resource Cost ("TRC") Test (May 28, 2009), with some minor changes that were requested during the comment period. Notable changes were the use of marginal transmission and distribution costs instead of the full transmission and distribution rates. FirstEnergy, as stated in its Comments filed on June 5, 2009, at Docket No M-2009-2108601, did not have the ability to address all of the changes presented in the final TRC Order entered on June 23, 2009 before filing these plans on July 1, 2009; however, the resulting FirstEnergy plans are cost effective and compliant under the TRC test required by Act 129 and approved by the Commission in its June 23rd Order. The results of the TRC test, as applied to the FirstEnergy Companies' plans, are presented in PUC Table 1 and are expressed as both a net present value and a benefit-cost ratio.

compliance with the mandates of Act 129, the Company may not implement all Plan improvements as suggested by parties participating in collaborative discussions.

Environmental Responsibility – The Requests for Proposals (RFPs) to implement the Plan will require delivery vendors to take proper care, and include costs for the environmentally responsible disposal of any hazardous materials from old appliances and other energy consuming products. For example, the Company's refrigerator pick up program analysis assumed relatively high disposal cost estimates because it includes costs for the proper disposal of refrigerant chemicals as part of the process. Quotes were obtained from current vendors for this purpose. And, while the company is not replacing CFLs *per se*, its programs relating to lighting will advise consumers of the increasing number of recycling sites available at participating retailers for the proper disposal of CFLs so that the small traces of mercury remains contained¹².

Fast Track Plans – Penelec is cognizant of the need to obtain approval of the Plan before programs are launched. Yet, it is concerned that such a delay will lose certain synergies and cost savings opportunities that exist today. Moreover, the Company has communicated with customers that program incentives will be available with some level of retroactivity, pending many of these programs require the development of processes, procedures and/or infrastructure that, if not done in parallel with the approval process, will create delays in the launch of certain programs. As a result, the Company has developed a Fast Track program suite which allows the Company to perform critical path tasks during the approval process, and to take maximum advantage of existing delivery channels by adding electric energy savings measures and services to programs that are already in place, thus avoiding a duplication of efforts if second visits were necessary after the Plan is approved. The Company anticipates that it will submit the details of certain programs included in its Fast Track program suite for individual consideration by the Commission. Such programs may include:

- Approval of the Company's selection of an on-line home energy audit service provider and system, along with related cost recovery, prior to Plan approval.
- Approval of the Company's selection of an M&V/Tracking system service provider and systems, along with related cost recovery, prior to Plan approval.
- Approval of the Company's selection of an appliance recycling service provider, along with related cost recovery, prior to Plan approval.
- Approval of the Company's selection of Program Manager(s) and Energy Education/Communication consultants, along with related cost recovery, prior to Plan approval.

Sensitivity to Federal Initiatives – The Company is aware that certain Federal initiatives and funding opportunities are available and has incorporated such initiatives and opportunities into the Plan.¹³ For example, in order to harness the significant energy savings identified through the Company's market assessment, the Plan accelerates the adoption of CFLs three years before such federal standards for lighting go into effect in 2013. Based upon primary research conducted as part of FirstEnergy's market assessment, a statistically valid sample of Penelec households reported that, on average (as measured by the sample median), residential customers generally have already obtained five to six CFLs for use in their homes. Penelec's plan supports retrofitting at least four additional bulbs per household. As more

¹² For example, Home Depot and Lowe's offer CFL recycling locations. Consumers can also find disposal sites via Recycleabulb.com. The Company will include such information in its lighting educational materials

¹³ While the Company has incorporated the concept of Federal funding and initiatives into the Plan, the Plan assumes that such funding opportunities will exist only in the early years of this long term Plan. Thus, the portfolio of programs were developed to stand on their own, irrespective of such initiatives and funding.

fully discussed in Section 2, such acceleration will to be accomplished through a variety of program elements that will reach all of the Company's significant target markets. The Plan also leverages stimulus and other Federal Energy Efficiency funding initiatives that are currently available to Penelec customers by assisting local governments within the Penelec service territory who are taking advantage of Energy Efficiency Block Grants. Penelec will work with these and other potential communities to enhance their prospects for success through free audits for local and county buildings.

1.2. Summary description of process used to develop the EE&C plan and key assumptions used in preparing the plan

Process

Figure 1, below illustrates the process undertaken by the planning team to develop the EE&C Plan:

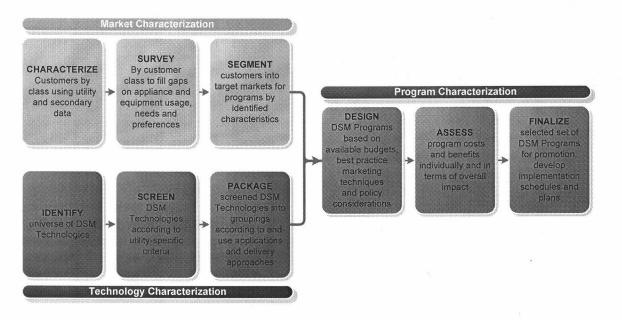


Figure 1: FirstEnergy EE&C Plan Development Process

The Company's approach balances four key sources of information:

- External stakeholder experience and opinions captured in Stakeholder meetings;
- CSP and implementation vendor experience in delivering programs captured in a Request for Information survey;
- Industry experience as reflected in the literature and previous contractor evaluation studies; and
- Customer attitudes and preferences through mail and telephone surveys and interviews.

Stakeholder input was obtained through three Stakeholder meetings, followed by conference calls with interested organizations. In addition to the discussions that took place during the Stakeholder meetings, the Company met with individual stakeholders in separate meetings. Specifically, the FirstEnergy team, in response to a specific request, discussed program concepts with the Pennsylvania Housing Finance Authority in the development of the Multifamily Buildings program, discussed a variety of issues with the Office of Consumer Advocate, and discussed technologies and techniques for improving the efficiency of municipal water systems generally and pumping in particular with American Water Company. Further, written comments to the proposed portfolio of programs were received from organizations such as the Department of Environmental Protection, some Community Based Organizations and others.

To capture customer data, FirstEnergy commissioned primary research for three Pennsylvania affiliates, including 300 C/I phone surveys, and over 1200 residential mail surveys; with 100 completed surveys of commercial industrial customers, and just over 400 mail surveys of residential customers analyzed for this study. Interviews were held with Managed Account representatives, National Account representatives and Area Managers to capture needed information on the Company's largest customers and local governments.

On a parallel track, the team evaluated <u>more than 100</u>113 EE&C measures, along with additional energy efficiency measures based upon consultant input. To support that modeling effort, FirstEnergy solicited direct input from CSPs and other energy efficiency program vendors through a Request for Information ("RFI") to

gather recommendations relative to the nature of program offerings as well as the incentives and costs of various program elements to be used in program modeling. Program modeling was augmented with a significant amount of data obtained from 28 responses to the RFI. Other information was collected as part of the market research of retail stores in the Penelec services territory that sought product availability and pricing for selected energy efficient appliances.

Using all of the data collected, the team developed models to be utilized to assess costs and benefits utilizing the final TRM information that was issued on June 1, 2009.

Assumptions and Priorities

There are both universal and program specific assumptions that must be made when modeling the EE&C programs, including discount rates and avoided costs, as well as program specific assumptions involving customer participating levels, forecasted budgets for tasks such as marketing and program administration, and other start up costs. Details surrounding these and other assumptions underlying this Plan are available upon request. In addition, when designing the Plan, the Company pursued the following priorities:

- Seek out near-term "shovel ready" opportunities;
- Focus on previously verified projects first (i.e., those with high confidence level related to the timing and quantity of results);
- Leverage other funding sources to stay within the funding cap;
- Build market share with lower reliability programs and those requiring more lead time; and
- Pursue savings that are easily proven.

While modeling assumptions yielded results that appear to support program success within budget, the Company notes the context within which these programs will be implemented over the next four to five years, all of which have material risks associated with them. Some of these risks include:

- The economic impact of continued high unemployment rates causes concern that business and government accounts may not support the pace of investment required to achieve the goals, and slow the pace of mass market penetration;
- With the exception of low-income programs, programs will be new with no historical basis for participation rates or experience which may cause installation rates to be lower than modeled, particularly in the early years;
- A project may require higher rebate subsidies or full financing, which may make some programs marginally cost effective or exceed program funding constraints; and
- Reliance on large projects that can leverage other funding.

1.3. Summary tables of program savings goals, budget & cost-effectiveness (PUC Tables 1, 2 and 3)

Ne		ummary of Life its, and TRC per the			
Portfolio	Discount Rate	Total Discounted Lifetime Costs (\$000)	Total Discounted Lifetime Benefits (\$000)	Total Discounted Net Lifetime Benefits (\$000)	Cost- Benefit Ratio
Residential (exclusive of Low- Income)	7.52%	72,268,723	190,147,425	117,878,702	2.63
Residential Low- Income (Warm Plus)	7.52%	7,227,648	17,013,804	9,786,157	2.35
Commercial/ Industrial Small	7.52%	43,081,687	115,436,021	72,354,334	2.68
Commercial/ Industrial Large	7.52%	28,350,369	34,482,811	6,132,442	1.22
Governmental/ Non-Profit	7.52%	23,224,250	46,855,230	23,630,980	2.02
Total	7.52%	174,152,676	403,935,291	229,782,614	2.32

PUC Table 1: Portfolio Summary of Lifetime Cos	ts and Benefits

	Sumr		rtfolio Energy m Year is Jun					
	Program Y		Program Y		Program Y	(ear 2012	Program Y	ear 2013/
MWh Saved for Consumption Reductions kW Saved for Peak Load Reductions	MWh Saved	kW Saved	MWh Saved	kW Saved	MWh Saved	kW Saved	MWh Saved	kW Saved
Baseline ¹	14,399,289	2,395,000	14,399,289	2,395,000	14,399,289	2,395,000	14,399,289	2,395,000
Residential Sector (exclusive of Low- Income) - Cumulative Projected Portfolio Savings ²	13,548	3,507	78,091	29,165	142,610	54,219	201,769	62,636
Residential Low-Income Sector - Cumulative Projected	1,614	153	8,587	795	15,604	1,441	22,664	2,093
Commercial/Industrial Small Sector - Cumulative Projected Portfolio Savings ²	8,304	2,794	48,498	15,681	88,692	28,569	128,869	41,455
Commercial/Industrial Large Sector - Cumulative Net Weather Adjusted Savings ²	2,424	607	14,614	3,642	26,803	6,677	38,992	9,712
Governmental/Non-Profit Sector - Cumulative Projected Portfolio Savings ²	3,832	859	23,541	5,182	43,230	9,485	55,623	12,746
PJM Peak Demand	· · · · ·			10,000		10,000		
EE&C Plan Total - Cumulative Projected Savings	29,722	7,920	173,331	64,466	316,940	110,392	447,917	128,642
Percent Reduction From Baseline (MWh)	0.2%	0.3%	1.2%	2.7%	2.2%	4.6%	3.1%	5%
Commission Identified Goal	8.000		143,993				431,979	107,775
Percent Savings Due to Portfolio Above or Below Commission Goal			20%				4%	2%

PUC Table 2: Summary of Portfolio Energy and Demand Savings

I Commission approved Consumption Forecast and Peak Demand Forecast per Section H of the January 15 Implementation Order. (Template Section 10A & 10B)

2 Adjusted for weather and extraordinary load as applicable.

KW savings depicted for 2013 as 1% above goal are due to savings accumulated from energy efficiency programs that run beyond the summer period of 2012 (June 1 – September 30)

	Program yea	of Portfolio Costs r is June 1 – May		Program Year	
	Program Year 2010	Program Year 2011			
	Portfolio Budget (\$)	Portfolio Budget (\$)	Portfolio Budget (\$)	Portfolio Budget (\$)	
Residential Portfolio Annual Budget (\$000 and percent of Portfolio Budget)	2,848,404	15,939,085	14,871,072	7,221,339	
Residential Low-Income Portfolio Annual Budget (\$000 and percent of Portfolio Budget)	1,347,006	1,835,537	1,896,072	1,954,085	
Commercial/Industrial Small Portfolio Annual Budget (\$000 and percent of Portfolio Budget)	768,802	3,376,246	3,376,246	3,376,246	
Commercial/Industrial Large Portfolio Annual Budget (\$000 and percent of Portfolio Budget)	389,232	1,627,567	1,627,567	1,627,567	
Governmental/Non-Profit Portfolio Annual Budget (\$000 and percent of Portfolio Budget)	579,562	2,545,812	2,545,182	2,078,321	
PJM Peak Demand Program		1,580,000	1,580,000		
Total Portfolio Annual Budget	5,933,006	26,904,247	25,896,140	16,257,558	

PUC Table 3: Summary of Portfolio Costs

1.4. Summary of program implementation schedule over four year plan period

The proposed time line for Plan implementation is set forth below. FirstEnergy anticipates that its Pennsylvania companies will use one or more Program Manager(s) to implement the various programs identified in its Plan. These Program Manager(s) will be responsible for the start-up of new programs, which will include at a minimum the identification of appropriate staffing skills and levels and the hiring of the same, and the development of website(s), promotional strategies, and processes ensuring quality and other controls supporting successful program implementation. The manager(s)' start-up phase will include communication and coordination with Company personnel so as to (i) present seamless processes for customers or allies that wish to participate in the programs' (ii) maximize process efficiency and controls; and (iii) leverage Company relationships and communications with customers.

The Company will contractually obligate the manager(s) to design a start-up phase that will be performed in an organized and efficient manner and that strives to maintain and strengthen constructive relationships with Company program management, customers, trade allies, contractors and other energy program partners when possible.

The start-up period will include a Program Set Up Period:

Program Set Up – Immediately following contract award and the kick-off meeting(s) as set forth in the proposed time line below, the Company and Program Manager(s) will work together to modify the Start-up Plan submitted with the successful bidders' bid proposals in order to develop the systems and procedures needed to operate the energy efficiency programs. The Start-up Plan will include, at a minimum:

- Determining the required information transfers between the Program Manager(s), the Company and the Company's other energy efficiency or tracking system contractors;
- Creating, installing and testing necessary data collection systems for program operation and evaluation;
- Establishing a toll-free number and processes for the Company to transfer calls it receives related to the programs;
- Developing detailed processes for managing rebate/incentive applications, rebate/incentive payment processes, reporting procedures, data collection and data recording processes, internal billing and related documentation to be sent to the Company for processing;
- Developing electronic payment between the Company and the Program Manager(s);
- Plans for development and launching promotional strategies, including creation of a website;
- Creating a check processing system (if deemed appropriate); and
- Ensuring all other preparations needed before the programs are launched.

During program set-up, the Program Manager(s) will meet with the Company, its consultant, and tracking system contractors as necessary and appropriate in order to properly introduce the applicable program into the Company's overall comprehensive Plan.

Program Manager(s) will submit a start-up plan with their bid proposal. It is anticipated that the plan submitted may be modified at the kick-off meeting. The start up plan will include, at a minimum:

- Organization chart and description of management roles and responsibilities;
- Description and dates of program launch milestones;

- Description of a plan for use of any subcontractors;
- Plan to detail a specific communications strategy; and
- Plan to facilitate or support program tracking systems and reporting.

Energy Efficiency and Conservation Plan Overview of Plan

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Timeline
Proposed
EE&C Plan
Penelec
Figure 2:

FirstEnergy: Metropolitan Edison Company DSM Process Evoluation and Process Devolvement	Ily Aug Sept Oct Nov Dec 2010 2011 2012 2013
	3 4 1 2 3 4 1
Residential Portfolio	* * *
1a. Home Energy Audits- On Line Audit*	
1b. Home Energy Audits- Walk Through	
2. Appliance Turn-In*	
3. Residential Rebates for HVAC and Solar	•
4. Energy Efficient Products Program	•
5. Residential New Construction Program	
6. Residential Whole-Building Program	
A. Residential Direct Load Control Program	
Low Income Portfolio	*
7a. Low Income Residential Program (WARM Enhancements)*	
7b. Low Income - Low Usage Customer Program	
Small C/I Portfolio	* *
1. Energy Audits	
2. C/I Equipment Program (rebates)	
Large C/I Portfolio	*
1. Technical Assessments	
2. C/I Equipment Program (rebates)	
2. C/I "Performance Contraction"	
4. C/I Motors and VSC Program	
B. Commercial Industrial Peak Load Reduction*	•
Government Sector Portfolio	* *
8a. Federal Facilities Program*	
8b. State and Local Government Program	
8c. Street Lighting Conversion Program	
8d. Schools Program	
Program Management and Monitoring	
Secure Program Implementation Vendors	
C/I Rebate Audit Promo & Communication	
Peak Load Management Coordination	
Residential Rebates and Home Audits Support	
Turn Key Residential ES DLC	
Appliance Turn-in Vendor	
WARM Contracts	
E-Store Fulfiliment House	
On-Line Audit	
DSM /EE Program tracking system*	
Marketing (Consumer Awareness and Cross Program Marketing)	
EM&V Process	
*Pending Commission pre-approval for fast tracking	
KEV: Method Duration of program	*
	Commission and Annual

Participation begins Duration of program Program Launch • KEY:

Select Vendor and Start Program Costs (deferral)

Annual Report to Commission and Annual Plan Update

1.5. Summary description of the EDC implementation strategy to manage EE&C portfolios and engage customers and trade allies.

Penelec intends to implement certain of the Plan's programs in a staged manner as follows:

- Launch customer awareness and educational campaign immediately after approval of the EE&C Plan in order to start building consumer interest.
- Solicit and secure CSPs and implementation vendors in August/September so as to enable a timely program launch once the Plan is approved. Contracts with selected vendors will be contingent upon Commission approval of the programs.
- Seek Commission pre-approval to recover start-up costs associated with the Fast Track suite of programs that were discussed above.

Penelec will oversee a range of contractors and vendors in the delivery of the programs. CSPs engaged by the Company to manage programs or deliver program services will have undergone a competitive bidding process through FirstEnergy or another EDC. Low income residential programs will be served by a mix of Community Based Organizations and private vendors under contract with the Company. The Company will seek a vendor or group of vendors to deliver services to existing residential homes and small commercial customers. Non-residential audits will most likely be performed by a mix of private auditing firms and specialized engineering firms that have the expertise to identify opportunities for specific industries. A performance contracting option will be available to both non-residential businesses and government facilities who wish to pursue comprehensive rather than equipment-specific retrofits. Vendors who hold current awards in the Energy Services Performance Contracting program will generally be responsible for Federal facilities.

1.6. Summary description of EDC's data management, quality assurance and evaluation processes; include how EE&C plan, portfolios, and programs will be updated and refined based on evaluation results.

FirstEnergy is committed to designing and implementing robust processes, organizations and systems that achieve the energy savings and demand reduction goals established in Act 129. The Company plans to use a two-fold approach to ensure the quality of its EE&C Plan program during the design and implementation:

- Developing processes to clearly detail the steps to meet EE&C goals while complying with applicable requirements; and,
- Devising and implementing control points at various stages of these processes to establish and maintain quality.

Section 6 of this report presents detailed plans regarding the data management quality assurance and evaluation processes for the EE&C Plan. Each program description in Section 2 provides a brief description of the planned evaluation monitoring and verification steps intended for each program. Further, the Company is committed to working with the statewide Evaluation Contractor to support their efforts at evaluating the programs. The Company will conduct process evaluations at the six to twelve month mark as a way to gauge progress toward the achievement of goals and identify issues requiring mid-course correction. All programs will benefit from periodic feedback from vendor-conducted customer satisfaction surveys. In addition to making interim adjustments to programs as suggested by these feedback activities, the Company will propose any major changes it feels are required in its annual reporting to the Commission.

1.7. Summary description of cost recovery mechanism

The Company's proposed Energy Efficiency and Conservation Charge Rider ("EEC-C Rider") is included as Appendix H¹⁴. The EEC-C rates are expressed as a price per kilowatt-hour ("kWh")<u>except for the industrial customer class that is expressed on a kilowatt ("kW") basis-and, and</u> will be billed on the samethat basis. The EEC-C rates will be calculated and stated separately for the residential, commercial<u>non-profit</u>, street lighting and industrial <u>customer commercial</u> classes. The Company is proposing that the EEC-C Rider would become effective immediately upon the conclusion of this proceeding with service rendered on or after <u>February</u> November-1, 201009. The EEC-C rates are capped at the 2% limit by class based on 2006 revenue. The rates would remain in place for the length of the Company's Energy Efficiency and Conservation Plans. However, upon determination that the EEC-C rates would result in material over- or under-collections of recoverable costs incurred or expected to be incurred during the program period (<u>July_November-1</u>, 2009 through December 31, 2013), the Company may request that the Commission approve interim revisions to the EEC-C rates to be effective thirty days from the date of filing. An interim change in the EEC-C rates may address a re-allocation of program expenses between customer classes. The EEC-C rider meets the requirements of 66 Pa. C.S. § 1307 as required by the Commission's Implementation Order and Act 129.

¹⁴ In accordance with the Commission's Order entered October 28, 2009, the Company is submitting a revised EEC-C Rider consistent with the modifications requested by the Commission.

2. Energy Efficiency Portfolio/Program Summary Tables and Charts

2.1. Residential, Commercial/Industrial Small, Commercial/Industrial Large and Governmental/Non-profit Portfolio Summaries (See PUC Table 4).

			Cable 4: Program Summaries				
	Program Name	Program Market	Program Two Sentence Summary	Program Years Operated	Net Lifetime MWh Savings	Net Peak Demand kW Savings	Percentage of Portfolio and Total Lifetime
Residential Portfolio Programs (exclusive of Low Income)	Demand Reduction	RES	Reduce Residential Central Air Conditioning (CAC) Load over the highest 100 load hours	4	15,405	27,729	0.4%
	Home Energy Audits	RES	Available through two levels: 1) self- adminstered on-ine audit and 2) a walk- through on-site audit performed by auditor.	4	355,176	4,762	9.1%
	Appliance Turn-In	RES	Provide incentive to households for turning in older inefficient appliances and lighting equipment.	4,	305,608	6,264	7.8%
	EE HVAC & Solar	RES	Provide incentives supporting implementation of contractor-installed HVAC, solar or other eligible systems.	4	55,020	4,829	1.4%
	EE Products	RES	Provides financial incentives and support to retailers that sell energy efficient products, such as Energy Star® qualified appliances or compact fluorescent light bulbs.	4	608,168	i0,109	15.6%
	New Construction	RES	Provides incentives to builders for achieving Energy STAR Homes status, or the Home Energy Rating System Program (HERS) associated with a highly energy efficient home.	4	137,775	7,776	3.5%
	Whole Building Comprehensive	RES	Provides comprehensive diagnostic assessments followed by direct installation of selected low cost measures plus incentives to households for implementation of measures addressing building shell, appliances and other energy consuming features. Customers can tap into prescriptive rebates as well as the Keystone Loan program.	4	45,946	1,051	1.2%
	Multiple Family	RES	This program will be delivered in cooperation PHFA, and will target low- income communities. The program seeks to motivate property owner/manager and landlords toward installing energy efficiency measures. Costs associated with Residential accounts will be tracked through the Residential multifamily program. Costs associated with non-residential accounts will be tracked through the C/1 multifamily program.	4	8,764	115	0.2%
	Totals for Residential Sector			-	1,531,861	62,636	39.2%
Residential Low-Income Sector Programs	Warm Plus	LI RES	The "WARM Plus" Act 129 program expands the measures installed under the existing Low-Income Usage Reduction Program, known as the WARM program, and provides WARM services to additional income-eligible customers	4	50,423	611	1.3%
	Home Energy Audits	LI RES	Available through two levels: 1) self- adminstered on-ine audit and 2) a walk- through on-site audit performed by auditor.	4	38,735	521	1.0%
	Appliance Turn-In	LI RES	Provide incentive to households for turning in older inefficient appliances and lighting equipment.	4	33,385	645	0.9%
	EE Products	LI RES	Provides financial incentives and support to retailers that sell energy efficient products, such as Energy Star® qualified appliances or compact fluorescent light bulbs.	4	42,176	317	1.1%
	Totals for Low- Income Sector				164,719	2,093	4.2%

PUC Table 4: Program Summaries

		T	able 4: Program Summaries				
	Program Name	Program Market	Program Two Sentence Summary	Program Years Operated	Net Lifetime MWh Savings	Net Peak Demand kW Savings	Percentage of Portfolio and Total Lifetime MWh savings
Commercial/ Industrial Small Portfolio Programs	Energy Audit	Small C&I	Provides two levels of energy audit services 1) a simple walk-through audit for small business with non-complex loads, and 2) a more comprehensive assessment for medium to large non- residential customers to help identify existing end uses of energy and find specific ways in which energy savings can be achieved.	4	235,522	10,678	6.0%
	Equipment Rebate	Small C&I	Provides for the implementation of cost effective, high efficiency non-standard measures through the authorized Conservation Service Provider (CSP) contractor network for local, state and federal buildings, as well as for institutional customers.	4	961,866	30,779	24.6%
	Totals for C/I Small Sector				1,197,388	41,457	30.7%
Commercial/ Industrial Large Portfolio Programs	Equipment Rebate	Large C&I	Provides for the implementation of cost effective, high efficiency non-standard measures through the authorized Conservation Service Provider (CSP) contractor network for local, state and federal buildings, as well as for institutional customers.	4	324,653	9,384	8.3%
	Industrial Motors and VSD	Large C&I	This program is designed to encourage the company's commercial and industrial customers to: 1. Upgrade their existing motors to NEMA Premium® motors when switching out old motors due to breakdowns and or programmed replacements 2. Install variable speed drives on motors that do not always operate at the same speed.	4	146,970	329	3.8%
	Totals for C/I Large Sector	1.74			471,623	9,712	12.1%
Governmental' Non-Profit Portfolio Programs	Governmental & Institutional	Gov't	This program involves a feasibility study to identify energy savings opportunity to expedite the Federal and municipal agencies taking action. Provides for the implementation of cost effective, high efficiency standard and non-standard measures through a Conservation Service Provider (CSP) for local, state and federal buildings, as well as for institutional customers.		539,532	12,747	13.8%
	Totals for Gov't/NP Sector Programs				539,532	12,747	13.8%
Total for Plan			L	L	3,905,123	128,644	100.0%

2.2. Plan data: Costs, Cost-effectiveness and Savings by program, sector and portfolio

See PUC Tables 1-4

2.3. Budget and Parity Analysis

Customer Class	Average Annualized Budget	% of Total EDC Budget	% of Total Budget Allocating Government & Other	% of Total Custome r Revenue	Differenc e
Residential	10,219,975	54.51%			0
Residential Low Income	1,758,175	9.38%			0
Residential Subtotal	11,978,150	63.89%	63.89%	46.2%	18%
C&I Small	2,829,109	15.09%	18.6%	20.6%	-2%
C&I Large	1,309,826	6.99%	9.1%	32.1%	-23%
C&I Subtotal	4,138,935	22.08%	27.7%	52.7%	-25%
Gov Street Lighting	690,644	3.68%	3.68%	0.42%	3.26%
GS/Public Service, MS	86,827	0.46%	0.46%	0.66%	-0.19%
Gov Multi-Family	71,068	0.38%	NA	NA	NA
Gov Small C&I	588,810	3.14%	NA	NA	NA
Gov Large C&I	403,303	2.15%	NA	NA	NA
Governmental/Non-Profit Subtotal	1,840,652	9.82%	4.1%	1.1%	3%
Residential/C&I/Governmental/Non-Profit Subtotal	17,957,738	95.79%			
Other Expenditures Other Expenditures Subtotal	790,000	4.21%	4.2%	A MARK AND A	
EDC TOTAL	18,747,738	100%	100%	100%	
1) Portions of Governmental is served as part of classes	of C&I Small a	nd C&I La	irge rate		

PUC Table 5: Budget and Parity Analysis

3. Program Descriptions

3.1. Discussion of criteria and process used for selection of programs:

The process followed in selecting the programs in this Plan proceeded from examination of technologies and consideration of customer opportunities. Figure 1 in section 1.2 depicted the generic process followed. The steps followed in this process are described below:

- 1. A large list of DSM/EE technologies underwent an intuitive screening process carried out by a panel of DSM experts using criteria that included elimination of gas measures, elimination of fuel switching measures, ranking of commercial availability, meeting the utility's load reduction objectives. Technologies were ranked along these criteria and the top ones carried through for economic analysis.
- 2. Consumer research was conducted to identify likelihood of participation/technology adoption, barriers to adoption and potential interest in specific services for overcoming those barriers. Current conservation behavior was also measured.
- 3. Program characteristics were developed at the technology level, including for example (on the cost side) incentive amounts, marketing, administration, vendor costs, incremental measure costs, and the availability of tax incentives or other benefits. On the benefits side, values were taken from the TRM for those measures covered, and were calculated using formulas identified in the TRM for weather-sensitive measures.
- 4. Technologies were grouped by sector and the end uses addressed (lighting, HVAC, etc.) and considered in light of each of the program types in which the measures might be implemented. Thus CFLs appear in residential audits, low income and business programs and have specific rebate amounts and costs associated with each case.
- 5. The economic modeling then was carried out and TRC values determined for each grouping.
- 6. Program designs were then finalized taking into consideration whether each program:
 - Achieves the goals set for in Act 129 and approved by the Commission;
 - Promotes energy savings and demand reduction in a cost effective manner;
 - Passes the TRC as stipulated in the TRM;
 - Is an equitable Plan (i.e., offers technologies and services to all customer segments);
 - Meets the regulatory requirements of Act 129;
 - Simplicity (i.e., easy for customers, CSPs and trade allies to participate);
 - Uses proven delivery strategies;
 - Provides flexibility to address prescriptive as well as customer projects; and
 - Leverages existing delivery channels that are working well.
- 7. Once all programs were designed and evaluated, the Plan was examined to ensure that the Plan met these same criteria.

The EE&C Plan includes a suite of programs that move from the general to the specific, from providing customers with generic information about saving energy to customized information and services to help them make changes in their own specific homes and facilities. Upon Commission approval, the Company will launch an outreach effort to build customer awareness and interest in the programs and saving energy. This campaign will also make people aware of the transition that will be taking place in 2011 to market-based rates and the ability for customers to take advantage of the programs being offered to help mitigate the effects of any increases on consumer bills.

The next step is to encourage customers – residential and non-residential - to have an energy audit as a starting point in order to identify potential energy efficiency opportunities. These audits will serve a dual purpose, providing both important "as-found" characteristics of homes and equipment before the installation

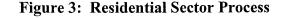
Energy Efficiency and Conservation Plan Program Descriptions

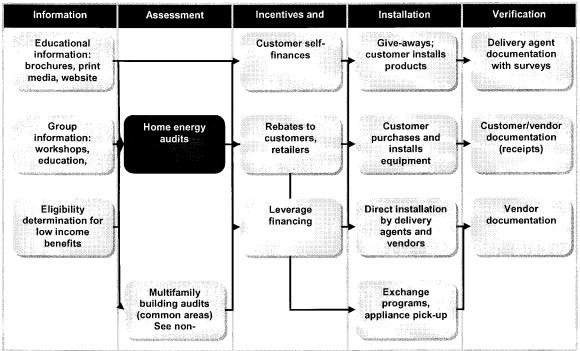
of measures, as well as important information on the age and nature of equipment being replaced. Audits for the residential sector can be accessed on line, or through the use of a contractor who will conduct a walkthrough assessment of the home. In the commercial sector, smaller businesses will have access to a walkthrough audit performed for a fixed fee, while larger or more complex businesses will be offered a technical assessment done by a certified contractor. These assessments are typically priced on a per square foot basis. Regardless of customer segment, the audit contractors will install lighting upgrades and (for residential) faucet aerators so that customers can immediately start to realize energy savings.

To facilitate implementation of recommended measures, Penelec will also offer a suite of programs that incorporate fixed rebates and calculated incentives, performance contracts and arranged loans (initially only through the statewide Keystone Home Loan Program) to offset costs associated with the customer's actions. For eligible low income customers, most measures are provided free of charge. Customers are also given incentives for removing second refrigerators, freezers and old inefficient room air conditioners from the system, and for replacing old inefficient appliances (e.g. central air conditioners, room air conditioners) with newer, qualifying energy efficient models.

Finally, for selected appliances and equipment, such as central air conditioning, pool pumps and water heating, Penelec will install communications devices that will enable customers to participate in demand response programs. It is critical that the Company builds the capacity for reducing peak load at the 100 hours of highest demand. To that aim, the Company has proposed a peak load reduction program that leverages the capabilities PJM curtailment service providers (PJM-CSPs) provide their customers. Penelec has a Residential Time of Use Rate in place and has proposed a voluntary real time pricing rate option for default service customers on rate schedules GS-Small and GS-Medium, as well as a real-time default service rate for customers on rates GS-Large, GP and TP in its pending Default Service Proceeding at Docket Nos. P-2009-2093053 and P-2009-2093054. Penelec will continue to encourage customers to take advantage of these load shifting initiatives as a way to fully benefit from these special rates.¹⁵ Figure 3 summarizes this process for the residential sector programs, while Figure 4 does the same for the non-residential sector programs.

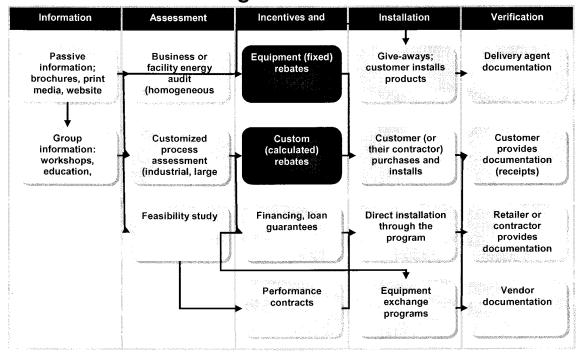
¹⁵ Although rates are not described in this filing as programs, separate monitoring and verification protocols will be developed in order to assess the impacts associated with these rates so that the company may include their contributions toward the Act 129 targets.





Residential Sector Process

Figure 4: Non-Residential Sector Process Non-Residential Program Process



3.1.1. Describe portfolio objectives and metrics that define program success (e.g., energy and demand savings, customers served, number of units installed

The following sections describe general metrics for each program sector. The individual program descriptions contain preliminary M&V protocols for each program.

<u>Residential</u>

Fundamental metrics for program performance include the number of participants, kWh savings, kW peak load reductions, dollars spent, dollars per kWh saved, and dollars per kW of peak load reduction. Additional program metrics for the residential portfolio will follow the designations common to logic modeling of Immediate (Near Term), Intermediate and Long Term metrics.

<u>Immediate Metrics</u> – (numeric, mostly counts) Numbers of customers having an audit, inquiring about a program, registering for a program, or attending an educational event; numbers of trade allies getting trained and certified (certified contractors; numbers of trade allies participating in EE equipment programs).

<u>Intermediate Metrics</u> – (measured via surveys, follow up calls, participation rates, documented kWh savings, application forms, etc.) Number of customers taking action via installing measure(s) and participating in programs, making behavioral changes; number of measures installed; amount of additional non-program measures installed (e.g., the extent to which customers purchase additional CFLs or other measures on their own beyond what is provided through a program).

<u>Long-Term Metrics</u> – (Calculated via TRM savings estimates and other deemed savings until Statewide Evaluator conducts third-party evaluation) kWh savings, kW reductions observed, customer satisfaction levels, self-reported behaviors, perceptions of non-energy benefits such as increased comfort, customer health, home safety, improved bill payment histories, other outcomes; \$/kWh and \$/kW.

Non-Residential

Fundamental metrics for program performance in this segment are the same as residential above, and include the number of participants, kWh savings, kW peak load reductions, dollars spent, dollars per kWh saved and dollars per kW of peak load reduction. Additional Program metrics for non-residential sector programs are similar to those for residential; however they will take into account the different levels of decision makers that commonly exist on the non-residential side.

<u>Immediate Metrics</u> – Number of customers participating in an audit, registering for other services; number of vendors making inquiries about the programs and seeking to participate in some way.

<u>Intermediate Metrics</u> – Number of customers that have had audits and/or installed some of the recommendations; satisfaction levels; self-reported additional actions taken; and behavioral changes made.

Long Term Metrics – Energy savings and peak load reductions.

Demand Response

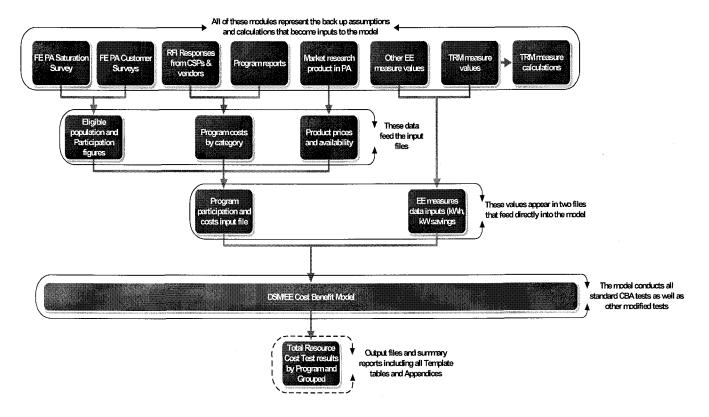
<u>Immediate Metrics</u> – Number of customers signing up for the programs.

Intermediate Metrics - Actual metered/measured load over time.

Long Term Metrics – Actual peak load reduced during 100 highest peak hours of 2012 (June 1 – September 30)

3.1.2. Describe how programs were constructed for each portfolio to provide market coverage sufficient to reach overall energy and demand savings goals. Describe analyses and/or research that were performed (e.g., market, best-practices, market modeling).

Figure 5 presents a schematic diagram of the analyses used to develop programs. Generally, the approach taken by FirstEnergy is a "bottom-up" approach in that it relies upon detailed customer data to characterize the landscape for change and applies assumptions and participation figures to the eligible population in order to arrive at the potential that exists for energy efficiency and the likely rate of uptake. Starting with individual assumptions about energy efficiency technologies, these are grouped into logical program groupings, incentives are applied along with other program costs, participation levels are assumed and the figures multiplied.





Checks are then made between the results from the "bottom-up" analysis and selected data points (such as number of customers by customer segments and number of kWh sales by class) to see how proportional the savings are to these baseline figures. Logical and intuitive feasibility about the program assumptions is examined next, and adjustments are made as necessary, rebalancing the portfolio as appropriate.

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3.1.3. Describe how energy efficiency, conservation, solar, solar photovoltaic systems, geothermal heating, and other measures are included in the portfolio of programs as applicable.

The next section presents individual descriptions of the final program designs.

For solar and geothermal heating related equipment please refer to the Residential Energy Efficient Products Program and Residential Energy Efficient HVAC Equipment Program for rebates on solar water heating and geothermal heating system measures.

3.2. Residential Sector (as defined by EDC Tariff) Programs - include formatted descriptions of each program organized under the following headings:

Program Title and Program years during which program will be implemented	Residential Direct Load Control Program: 2010, 2011 and 2012
Objective(s)	Reduce Residential Central Air Conditioning (CAC) Load over the highest 100 load hours
Target market	Residential Customers with CAC
Program description	This program will pay an incentive to participants who agree to have controls installed on their CAC systems that enable the Company to limit CAC operation during peak load periods. Once such devices are installed, the utility will have the ability to cycle air conditioning compressors or reset temperatures for the duration of the load control event. It is anticipated that this program will be activated over each operating company's top 100 load hours, typically from noon -7 pm on selected weekdays.
Implementation strategy (including expected changes that may occur in different program years)	It is anticipated that a third party CSP will be contracted to market the program to customers in 10 major load areas across the three FirstEnergy operating companies in Pennsylvania.
Program issues and risks and risk management strategy	Initial program targeting will be to customers located in major load areas to minimize the potential for poor pager signal strength limiting expected load reduction impacts. In order to gain more robust longer term program participation, direct load control switches will be chosen that will be both radio communication and ZIGBEE-capable to facilitate the eventual migration of this program to an Advanced Metering Infrastructure environment.
Anticipated costs to participating customers	There will be no costs to participating customers
Ramp up strategy	Program launch will begin in November 2009 and will progress in intensity in order to insure installation of the requisite number of switches by May 2012.

Marketing strategy	Print, web and mail advertising combined with the payment of a \$50-75 first year cash incentive; depending upon whether a customer is willing to add a pool pump or electric water heater to be controlled under the program
Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	Customers will receive a one time cash payment of \$50 - \$75 in the first year as a sign up incentive. In each following year Customers will receive up to $10 - 15$ a summer month for participation (as will be determined in consultation with the <u>CSP</u>).
Program start date with key schedule milestones	Program launch will begin in November 2009 <u>2010</u> and will progress in intensity in order to insure installation of the requisite number of switches by May 2012
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	Following the adoption of enabling technologies, the Company will verify that demand reduction targets are being achieved using sampling. We will perform such verification for a representative sample of the customers that have adopted peak reduction enabling technologies.
	As part of the monitoring process, the company plans to use selected indicators to verify periodically that demand reduction is being realized as projected. A DSM tracking system is to be used for such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule or within budget, FE will take appropriate corrective actions.
Administrative requirements – include internal and external staffing levels	The Company will use a combination of internal and external resources to manage and implement the EE&C programs. Penelec will monitor and adjust the allocation of resources to balance the needs of each program. See sections 4.2.1 and 4.2.2 of the EE&C plan for more details.
Estimated participation – includes tables indicating metric(s) with target value(s) per year	See Appendix F
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1- <u>6</u> 4
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC	TRC = 1.1

for each program	
Other information deemed	This program is targeted at customers with adequate signal
appropriate	reception capability. Opportunities for expansion will be
	examined as technology options improve over time. The
	Company will bid their rResidential dDirect Load eControl
	programs into the PJM Reliability Pricing Model (RPM). The
	revenues received by the Company, if any, from bidding and
	clearing residential dDirect ILoad eControl programs into the
	applicable RPM auctions will be netted against the program
	costs, including but not limited to, administration, contracted
	services, credits provided to customers, and PJM penalties for
	underperformance.

Program Title and Program years during which program will be implemented	Home Energy Audits and Outreach Program a) On-Line Audit
Objective(s)	 b) Walk Through Audit Assist households in identifying energy savings opportunities through self-administered and professional walk-through home audits. Support direct energy savings by providing those who complete the audit free CFLs and other measures. (as qualify based on presence of electric water heating or electric heat). Improve customers' energy management practice through improved access to information and analysis of energy use history.
Target market	All residential and small commercial customers, both renters and homeowners.
Program description	Households will be able to identify energy saving opportunities through two levels of home energy audits: 1) a self- administered on-line audit that analyzes historic energy use, and calculates energy savings based on customer responses to a series of questions, and 2) a walk-through on-site audit administered by a trained professional auditor. The purpose of the audits is to identify energy savings opportunities, to install basic low-cost measures, and to make customers aware of other programs offered by the PA Companies, such as whole house wellness programs or programs they support, such as the Keystone Home Loan Program, to help customers implement the recommendations. <u>Both The on-line-audits</u> generates <u>delivery</u> <u>mailing</u> of a <u>efficiency low cost</u> -measures kit.
Implementation strategy (including expected changes that may occur in different program years)	This program involves consumer education through generic energy savings tips combined with information customized to a specific dwelling based on either self-reported information or a trained auditor. This program serves as a portal to other program services. Customers are also referred to solutions, including participating retailers in the EE Products program, the E-store and the Keystone Home Loan Program for financing the balance of project costs. Participation by low-income customers will be tracked or estimated to support reporting and evaluation.
Program issues and risks and risk management strategy	Challenges with the website, number of trained auditors, current economic environment may limit customers' ability to purchase energy efficient equipment, lack of program awareness among customers and trade allies, damage to a customer's home. With respect to risk management, refer to Section 4.1.4 of the EE&C plan. The Company provides further details on "early warning systems" as well as a description of contingency plans.

Anticipated costs to participating customers	The on-line audit is free, as well as the kit, once the audit is complete and uploaded. Customers pay a fee \$50 for the on-site audit, the kit is free.
Ramp up strategy	The on-line audit generates mailing of an energy conservation kit valued at up to $\frac{10426}{, depending on a customer's electric equipment, containing measures selected by the customer (e.g., a four pack of CFLs and other low cost measures-that primarily address electric water heating).$
Marketing strategy	The marketing strategy will include: newspaper and radio advertising, Company bill inserts, Company website, employee communications, community presentations and direct mail campaigns as needed. The Company fully expects the Program Manager(s), who will be selected by competitive bid, to provide specific details on marketing for this program.
Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	 All measures are included for potential recommendation. Two audit packages are used – one for the on-line audit and a second more comprehensive audit tool for the site audits. Those completing the on-line audit will receive an energy conservation kit containing: Choice of kits (sample-kits will contain recognized measures and are subject to revision) * Lighting kit with a 4 pack of <u>no less than 15 watt compact florescent lamps (each with the same output as a 60 watt incandescent bulb)</u> <u>LED night lights</u> * If Electric Water Heat: Above plus two faucet aerators * If Electric Heat with Thermostat: Above plus free thermostat * If Central Air Conditiong: Above plus ree thermostat- • One bilingual (English and Spanish) instructional sheet
Program start date with key schedule milestones	See Figure 2
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	Penelec is to verify that the planned number of each type of audits is performed on time and within budget. A sample of on- site audits will be reviewed to check that their actual costs do not exceed the contract cost, and that customers are satisfied with the service provided (through phone contacts). The company will also verify that existing EE&C opportunities are properly quantified to enable accurate tracking and documentation of

	energy efficiency and demand reduction.
	As part of the monitoring process, the company plans to use selected indicators to verify periodically that energy savings and demand reduction are being realized as projected. A DSM tracking system is to be used for such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule and within budget, Penelec will take appropriate corrective actions.
Administrative requirements – include internal and external staffing levels	The Company will use a combination of internal and external resources to manage and implement the EE&C programs. Penelec will monitor and adjust the allocation of resources to balance the needs of each program. See sections 4.2.1 and 4.2.2 of the EE&C plan for more details.
Estimated participation – includes tables indicating metric(s) with target value(s) per year	See Appendix F
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1- <u>6</u> 4
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC for each program	See PUC Table 7a
Other information deemed appropriate	

Program Title and Program years during which program will be implemented	Appliance Turn-In Program 2009 – 2013
Objective(s)	To remove older inefficient appliances from the system by offering customers an incentive and free pick-up and disposal service for second refrigerators, freezers and room air conditioners.
Target market	The target market for this program is existing households, multifamily and single family, renters and home owners. Equipment is to be working at the time of pick up.
Program description	Provides a small incentive to households for turning in older inefficient appliances. Pick up of old second refrigerators involves a set dollar incentive to the customer. Large appliances will be picked up over an extended period where others may be turned in at periodic events.
Implementation strategy (including expected changes that may occur in different program years)	A vendor will be hired to deliver this program in coordination with other EDCs in Pennsylvania. Regional roll-out and community outreach will support efficiency. Participation by low-income customers will be tracked or estimated to support reporting and evaluation.
Program issues and risks and risk management strategy	The key risk is that appliances will be turned in that were either not being used or are non-functional. Vendors may be required to test appliances before issuing the incentive, or sample a percentage of appliances after pick up to determine what percent of units are not generating energy savings. Pre-testing may result in lower participation but better quality control. Certification/paperwork. Lack of customer awareness. With respect to risk management, refer to Section 4.1.4 of the EE&C plan. The Company provides further details on "early warning systems" as well as a description of contingency plans.
Anticipated costs to participating customers	There are no costs to participating customers for this program.
Ramp up strategy	Vendors exist that can start this program immediately, so we do not anticipate a material start up period before offering services to customers. Regional roll-out.
Marketing strategy	Customers will be alerted to this service through various media and marketing channels (to be determined) to facilitate targeted roll-out of the program, and efficient collection in targeted areas. A broad customer awareness campaign will include introduction of the program and the need for consumers to take energy efficiency actions.

Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	 Refrigerators \$50 incentive per unit Freezers \$50 incentive per unit Room Air Conditioners \$50 per unit
Program start date with key schedule milestones	See Figure 2
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	Penelec is to verify that the planned number of each type of targeted appliances is collected and disposed of within budget. The company plans to check that the calculations of kWh and kW savings from appliance retirement are accurate and compliant with applicable requirements including those contained in the TRM. This will in turn enable accurate tracking and documentation.
	As part of the monitoring process, the company plans to use selected indicators to verify periodically that energy savings and demand reduction are being realized as projected. A DSM tracking system is to be used for such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule and within budget, Penelec will take appropriate corrective actions.
Administrative requirements – include internal and external staffing levels	The Company will use a combination of internal and external resources to manage and implement the EE&C programs. Penelec will monitor and adjust the allocation of resources to balance the needs of each program. See sections 4.2.1 and 4.2.2 of the EE&C plan for more details.
Estimated participation – includes tables indicating metric(s) with target value(s) per year	See Appendix F
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1- <u>6</u> 4
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC for each program	See PUC Table 7a

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	Other information deemed	One CSP has been is likely to be selected to deliver this program	
	appropriate	based on a competitive bidding process held by one of the	
		EDCs. The intent of selecting one CSP is to achieve consistency	
-		across the state among EDCs and to obtain lowest cost volume	
		pricing from the vendor.	l

Program Title and Program years during which program will be implemented	Residential Energy Efficient HVAC Equipment Program
Objective(s)	Providing a rebate to participating customers or local contractors and dealers is expected to increase penetration of high efficiency HVAC systems. To qualify for this program, the equipment must exceed the efficiency standards as published by the Department of Energy under the ENERGY STAR® program.
Target market	The target market for this program is existing households, multifamily and single family, renters and home owners as well as new construction.
Program description	 Provides incentives supporting implementation of contractor- installed HVAC, or other eligible systems in existing or new residential buildings. This program involves promoting the sale of high-efficiency, ENERGY STAR® compliant equipment through installation contractors selling to residential customers who are replacing existing home HVAC equipment. The program will replace existing or standard HVAC equipment in residential applications with heating and cooling systems approved by the ENERGY STAR® program of the US EPA/DOE. The program also provides incentives for maintenance (tune- ups) of existing central air conditioners or heat pump equipment, and will offer a \$40 incentive toward replacement of furnace fans meeting Energy Star efficiency guidelines.
Implementation strategy (including expected changes that may occur in different program years)	Program services would be delivered to customers by qualified local contractors identified by an implementation vendor or manufacturer of such equipment. Contractors will certify the proper sizing and installation of high efficiency equipment.
Program issues and risks and risk management strategy	Challenges with vendors or manufacturers, cost of energy efficient equipment, changing technology impact lifecycle cost, current economic environment may limit customer's ability to purchase energy efficient equipment and technology, customer choosing to buy less efficient equipment. With respect to risk management, refer to Section 4.1.4 of the EE&C plan. The Company provides further details on "early warning systems" as well as a description of contingency plans.
Anticipated costs to participating customers	The end user would have the shared rebate as a benefit and also will benefit from lower bills.
Ramp up strategy	Qualifying Service Providers for Maintenance Program.

Marketing strategy	The program envisions that the suppliers and dealers will share, as a competitive marketing tool, the rebate with the end user, positioning the supplier or dealer as a lower cost provider.
Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	 Qualifying equipment must meet or exceed ENERGY STAR® standards. Qualified HVAC equipment will include: High-efficiency central air conditioning units (CAC) High-efficiency air source heat pumps (ASHP) High-efficiency ground source heat pumps (GSHP) Central air conditioning maintenance and furnace fan motor replacement meeting Energy Star guidelines. Customers would receive rebates for the high efficiency HVAC equipment that they install, or can assign rebates to their contractor. For Rebate Amounts See Penelec Table 5 (and summarized below)
Program start date with key schedule milestones	See Figure 2
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	 Verify that inefficient HVAC equipment is installed and working on customers' premises. Check sample calculations of projected savings for accuracy and for compliance with TRM guidelines. Document and record measure data using specified data transmission protocols, processes and technology. As part of the monitoring process, the company plans to use selected indicators to verify periodically that energy savings and demand reduction are being realized as projected. A DSM tracking system is to be used for such monitoring.
Administrative requirements – include internal and external staffing levels	The Company will use a combination of internal and external resources to manage and implement the EE&C programs. Penelec will monitor and adjust the allocation of resources to balance the needs of each program. See sections 4.2.1 and 4.2.2 of the EE&C plan for more details.
Estimated participation – includes tables indicating metric(s) with target value(s) per year	See Appendix F
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1- <u>6</u> 4
Savings targets – include tables with total MWh and MW goals per	See Appendix E

year and cumulative tables that document key assumptions of savings per measure or project		
Cost-effectiveness – include TRC for each program	See PUC Table 7a	
Other information deemed appropriate	This program is retroactively eligible to customers who ins commit to install qualifying equipment on or after July 1, 2 Additional Residential Efficient Equipment Incentives	
	Central Air Conditioner SEER 14.5 / EER 12	\$150
	Central Air Conditioner SEER 15 / EER 12	\$225
	Central Air Conditioner SEER 16 / EER 12	\$300
	Air-Source Heat Pump SEER 14.5 / HSPF 8.5	\$250
	Air-Source Heat Pump SEER 15 / HSPF 8.5	\$325
	Air-Source Heat Pump SEER 16 / HSPF 8.5	\$400
	Qualified Maintenance / Tune-up with	\$25
	Qualified Furnace Fan Replacement	\$40
	Ground Source Heat Pump	\$217/ton

Program Title and Program years during which program will be implemented	Residential Energy Efficient Products Program 2009-2013
Objective(s)	To accelerate the adoption of high efficiency appliances and equipment that meets ENERGY STAR® label guidelines under the EPA program.
Target market	Customers that purchase appliances from retailers, including all residential low income and small commercial customers (replacement of existing units, end-of-life units and new); homeowners and renters in one to four family dwellings. Multifamily renters in low-income projects may also qualify for selected products. Low-income participation will be tracked and/or estimated as appropriate.
Program description	The Energy Efficient Products Program provides financial incentives and support to retailers that sell energy efficient products, such as ENERGY STAR® qualified appliances or compact fluorescent light bulbs. The program includes promotional support, point-of-sale materials, training, promotional events and "up-stream product buy-down" rebates to retailers, distributors or manufacturers for select appliances. Also includes existing catalogue sales channel, and support for community-based initiatives, or other distribution channels that can reliably document effective distribution of energy efficient products.
Implementation strategy (including expected changes that may occur in different program years)	The message delivered to customers can be accomplished by using a variety of mass marketing tools including utility bill inserts, local newspaper circulars, direct mail, point of sale displays at retailers and the utility web site and on-line store. Retailers and manufactures will also be involved cross promoting product offers in conjunction with national campaigns like Earth Day and Change a Light, Change the World programs.
	The program will encourage community-based initiatives that support documented distribution of EE products and energy saving results. Such community-based initiatives include outreach through in-school training, college students, faith-based organizations, and municipal initiatives. This program involves developing educational materials on the proper use and selection of high efficiency light bulbs along with product discounts, coupons and price buy-downs to incentivize customers to purchase CFLs, LEDs and other qualifying EE products. Low income participation will be encouraged and tracked as practicable.
Program issues and risks and risk management strategy	Challenges with vendors or manufacturers, cost of energy efficient equipment, changing technology impact lifecycle cost, current economic environment may limit customer's ability to purchase energy efficient equipment and technology, customer choosing to buy less efficient equipment. Community outreach challenges include collecting reliable documentation related to measures installed and energy savings impacts. With respect to risk management, refer to Section 4.1.4 of the EE&C plan. The Company provides further details on "early warning

Energy Efficiency and Conservation Plan Program Descriptions

	systems" as well as a description of contingency plans.
Anticipated costs to participating customers	Customers will have to pay the balance of appliance equipment and installation costs not covered by the rebate.
Ramp up strategy	Use dealer incentives and special promotional "events" to encourage sales of high efficiency products, and/or retirement of less efficient equipment (e.g. Torchiere lamps) through "buy down" first cost and/or promotion of eligible equipment to customers. Customer rebates available for selected appliances. Appliance and replacement product pick up and disposal services available. Exchange program events for lighting and room air conditioners may be employed at periodic events.
Marketing strategy	This program involves consumer education and dealer marketing and incentives for selling appliances with ENERGY STAR® brand labels. Statewide coordination among electric utilities is being discussed to provide consistency across the state.
Eligible measures and incentive strategy, include tables for each year of	For the proposed program, the minimum qualifying efficiency ratings are based on current ENERGY STAR® Qualified Appliances published by the US EPA.
program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	 For Rebate Amounts See Penelec Table 5 Customer incentives can be in many forms and all are paid by the utility. They can range from \$1 to the full purchase price of a light bulb plus an administrative fee paid to the manufactures and retailers in support of the campaign. One incentive could be a mark-down or buy-down program which is a shelf tag, display sticker or end cap sign giving credit for the reduced price to the utility. The discount is paid by the utility based off point of sale purchase data. A second can be coupons through print media or bill inserts. This is a manufacturer coupon offer paid by the utility and redeemed at any participating retailer. Coupons at retail are another method which includes providing a coupon at the point of sale such as a shelf coupon pad that is redeemed at the register. A third method can be rebate forms that are mailed to a clearing house with rebate checks sent direct to customers. A fourth method could be discounts prepaid at the utility's on-line store, which allows customers to shop using the internet.
Program start date with key schedule milestones	See Figure 2
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	Verify that qualified appliances have been sold by dealers seeking payment of incentives by auditing a sample of their claims. Verify that new, more efficient appliances have been installed through review of documentation provided by retailers, as well as individual participant rebate applications. Document, store and send measure data to state using specified data transmission protocols, processes and technology.
	As part of the monitoring process, the company plans to use selected indicators to verify periodically that energy savings and demand reduction are being realized as projected. A DSM tracking system is to be used for

	such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule or within budget, Penelec will take appropriate corrective actions.
Administrative requirements – include internal and external staffing levels	The Company will use a combination of internal and external resources to manage and implement the EE&C programs. Penelec will monitor and adjust the allocation of resources to balance the needs of each program. See sections 4.2.1 and 4.2.2 of the EE&C plan for more details.
Estimated participation – includes tables indicating metric(s) with target value(s) per year	See Appendix F
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1- <u>6</u> 4
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC for each program	See PUC Table 7a
Other information deemed appropriate	The Company will continue to seek consistency in rebate amounts and approaches with other EDCs as appropriate. <u>This program is retroactively eligible to customers who install or commit to install qualifying equipment on or after July 1, 2009.</u>

Program Title and Program years during which program will be implemented	Residential New Construction Program
Objective(s)	Supports the construction of homes exceeding code requirements, and implementation of contractor-installed HVAC, solar, or other eligible systems, as well as high or energy efficient appliances in new or remodeled homes.
	Upgrade the energy efficiency of choices local builders make in new construction markets. To qualify for this program, the home must exceed the PA Energy Code (International Energy Conservation Code IECC 2006) requirements by at least 15% through a combination of building shell and appliance efficiency improvements.
Target market	The target market for this program is builders of new residential construction.
Program description	Provides incentives to builders for achieving ENERGY STAR® Homes status, or the Home Energy Rating System Program (HERS) associated with a highly energy efficient home. The program supports implementation of contractor-installed HVAC, solar, or other eligible systems in existing or new residential buildings, as well as measures addressing building shell, appliances and other energy consuming features. This program involves promoting the sale of high-efficiency, ENERGY STAR® compliant equipment through local builders. Participants can receive a rebate based on calculation of the energy savings related to the home's construction over standard practice, and can participate in the prescriptive rebates offered under the other residential rebate programs.
Implementation strategy (including expected changes that may occur in different program years)	Providing a rebate to local builders. To qualify for this program, the home must exceed the PA Energy Code (International Energy Conservation Code IECC 2006) requirements by at least 15% and 30%. Program services would be delivered to customers by qualified local builders and contractors who can demonstrate (through HERS, REM/Rate or other rating tool recognized in the TRM) that the house meets minimum performance energy savings criteria consistent with that of a highly energy efficient home.
Program issues and risks and risk management strategy	Cost of energy efficient equipment, changing technology impact lifecycle cost, and current economic environment may limit customer's ability to purchase energy efficient equipment and technology, customer choosing to buy less efficient equipment. Slow pace of new construction and costs associated with program marketing and communications may result in program transaction costs with minimal actual construction. With respect to risk management, refer to Section 4.1.4 of the EE&C plan.

	The Company provides further details on "early warning systems" as well as a description of contingency plans.
Anticipated costs to participating customers	Participating contractors or builders would receive rebates for achieving high efficiency standards.
	Potentially a modest first cost increase for home owners
Ramp up strategy	New Construction may be introduced later, e.g., by Spring 2010 due to additional lead time required to launch. Contractor and realtor education will preceded the availability of the program to consumers.
Marketing strategy	The marketing strategy will include: newspaper and radio advertising, Company bill inserts, Company website and employee communications. The Company fully expects the Program Manager(s), who will be selected by competitive bid, to provide specific details on marketing for this program.
Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	The same equipment offered to existing residential customers under the other programs are eligible for installation in new homes under this program. The rebate is determined by formula, based on savings, estimated at 70% of incremental costs.
Program start date with key schedule milestones	See Figure 2
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	The builder is responsible for building rating simulations and commissioning processes that form the basis for savings. For shell measures, the program manager will review modeling of new home designs to determine ratings and verify savings estimates, as well as review builder commissioning processes (including inspections as appropriate) to ensure quality construction meets design specifications.
	For equipment upgrades, verify that new, more efficient equipment and appliances have been installed in the new homes. Check calculation of kWh and kW savings to be achieved through use of more efficient equipment comparing energy consumption of such equipment to that of standard ones. Document, store and send measure data to state using specified data transmission protocols, processes and technology.
	As part of the monitoring process, the company plans to use selected indicators to verify periodically that kWh and kW savings are being realized as projected. A DSM tracking system is to be used for such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule or within budget, Penelec will take appropriate corrective actions.

Administrative requirements – include internal and external staffing levels	The Company will use a combination of internal and external resources to manage and implement the EE&C programs. Penelec will monitor and adjust the allocation of resources to balance the needs of each program. See sections 4.2.1 and 4.2.2 of the EE&C plan for more details.
Estimated participation – includes tables indicating metric(s) with target value(s) per year	See Appendix F
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1- <u>6</u> 4
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC for each program	See PUC Table 7a
Other information deemed appropriate	None.

Program Title and Program years during which program will be implemented	Residential Whole Building Comprehensive Program
Objective(s)	To provide comprehensive EE diagnostic assessments followed by direct installation of selected low cost measures plus incentives to households for implementation of associated measures. Customers pay a fee of 100 for the services.
Target market	The target market for this program is residential single family homes with electric heat as the primary heating fuel.
Program description	Building upon the Home Energy Audit (prerequisite), this program provides comprehensive diagnostic assessments followed by direct installation of selected low cost measures plus incentives to households for implementation of measures addressing building shell, appliances and other energy consuming features. Customers can tap into prescriptive rebates as well as the Keystone Home Loan Program.
Implementation strategy (including expected changes that may occur in different program years)	BPI-certified contractors, including CBOs delivering the WARM program would implement the program. Program services would be most likely coordinated by a national vendor who would develop a pool of local contractors to deliver services to customers.
Program issues and risks and risk management strategy	While training initiatives are being launched through economic stimulus funds, a limited number of BPI certified contractors is currently available in Pennsylvania to deliver a comprehensive home program. Whole building initiatives (e.g. the Home Performance with Energy Star) have been challenging to launch in other jurisdictions, both in attracting contractors to adopt the business model, and in attracting customers to invest in a comprehensive set of measures. If measures are installed then customers will qualify for the rebates under the EE products program and will be encouraged to take Keystone Home Loan Program for balance of project costs. With respect to risk management, refer to Section 4.1.4 of the EE&C plan. The Company provides further details on "early warning systems" as well as a description of contingency plans.
Anticipated costs to participating customers	Customers would pay \$100 dollars for the comprehensive Audit which includes a blow door test. Customers would pay the difference between the actual cost of the measures and the incentives provided.
Ramp up strategy	Program may require additional lead time post November 2009 before launch.
Marketing strategy	The marketing strategy will include: newspaper and radio

	advertising, Company bill inserts, Company website, employee communications, community presentations and direct mail campaigns as needed. The Company fully expects the Program Manager(s), who will be selected by competitive bid, to provide specific details on marketing for this program.
Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	This is a full service program similar to the EPA's Home Performance with Energy Star program that involves test-in test- out blower door procedures, identification and installation of energy savings opportunities and at the contractor's discretion, environmental safety measures. It is a combination information and installation program. The same equipment offered to existing residential customers under the other programs are eligible for installation in new homes under this program. However, customers may not take rebates under both programs, but must elect which program to participate in.
	Rebates will be based on items installed but limited to \$900 total spending.
Program start date with key schedule milestones	See Figure 2
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	Penelec is to verify that the installed measures and comprehensive diagnostics are performed as supported on program applications. As part of this review, the company plans to determine whether participants receive rebates under different programs for implementing the same measure. The company will also verify that existing EE&C opportunities are properly quantified to enable accurate tracking and documentation of energy efficiency and demand reduction. As part of the monitoring process, the company plans to use selected indicators to verify periodically that energy savings and
	demand reduction are being realized as projected. A DSM tracking system is to be used for such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule and within budget, Penelec will take appropriate corrective actions.
Administrative requirements – include internal and external staffing levels	The Company will use a combination of internal and external resources to manage and implement the EE&C programs. Penelec will monitor and adjust the allocation of resources to balance the needs of each program. See sections 4.2.1 and 4.2.2 of the EE&C plan for more details.
Estimated participation – includes tables indicating metric(s) with target value(s) per year	See Appendix F
Estimated program budget (total) by year – include table with budget	See Appendix D 1-4 <u>6</u>

per year	
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC for each program	See PUC Table 7a
Other information deemed appropriate	None.

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Program Title and Program years during which program will be implemented ¹⁶	Residential Multifamily Building Program 2009-2013
Objective(s)	This program seeks to motivate the multifamily property tenant toward installing energy efficient products.
Target market	The target market for this program is multifamily buildings being served by the Pennsylvania Housing Financing Authority (PHFA) that are part of the Company's service territory. Both master-metered and individually metered buildings are included. Savings will be apportioned to the appropriate rate class.
	Most of the buildings served by PHFA are occupied by low income tenants. For those PHFA buildings that are considered public housing, the savings will be attributed to government sector goals. Other non-low income building and tenant savings will be attributed to residential program savings goals.
Program description	This program leverages audit services already being provided by PHFA by having auditors directly install common area lighting measures at the time of the audit, and providing a package of lighting measures to tenants. Those cost of the audits is being funded by other sources.
Implementation strategy (including expected changes that may occur in different program years)	Building upon the PHFA Audit (prerequisite), this program provides direct-install lighting retrofits for common areas of multifamily buildings and CFLs to tenants of treated buildings.
Program issues and risks and risk management strategy	PHFA is conducting energy audits of buildings that fall under their area of responsibility. The objective of this program is to immediately capture electric energy savings available in common area lighting (hallways, exit signs, laundry facilities, exterior lighting, etc.). In addition, electricity use in PHFA apartment units is not currently addressed by the PHFA program. Tenants who pay for utilities as part of their rent in multifamily buildings often have little motivation to save electricity since they do not benefit directly, unless landlords pass on the energy savings through reduced rent. Tenants who pay electricity directly have more motivation since they may experience lower electric bills. Regardless of whether a tenant in a

¹⁶ It is assumed that there are four program years, each starting June 1 and ending May 31st. The first program year (PY) is Program Year 2009 (although it is expected that programs will not start before late 2009 or early 2010), and the last program year is Program Year 2012.

	PHFA building is master metered or a customer of record, they will be offered a conservation kit consisting of four CFLs.
Anticipated costs to participating customers	There are no costs to tenants to participant in this program; it is assumed that landlords would pay the balance of costs of the lights after a \$1/watt rebate per fixture as based on the TRM.
Ramp up strategy	Since PHFA has already identified their target buildings and is launching audits at this time, this program can be launched immediately upon securing the lighting equipment, which is expected to be in November 2009.
Marketing strategy	The marketing strategy is building specific and is conducted by PHFA. Tenants will be notified of the availability of kits through various normal communications via landlord notices, door knockers and other means.
Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	This program provides common area interior and exterior lighting measures, CFLs for apartment units and faucet aerators for apartments that have electric water heating.
Program start date with key schedule milestones	See Figure 2
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	PHFA will verify installation of measures as part of their audit qualify control processes, reporting their findings to the Company as part of a memorandum of understanding. The Company will also conduct periodic site visits and follow up calls to tenants to assess proper installation of measures.
	As part of the monitoring process, the Company plans to use selected indicators to periodically verify that energy savings and demand reductions are being realized as projected. A DSM tracking system is to be used for such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule and within budget, the Company will take appropriate corrective actions through its periodic program reviews.
Administrative requirements – include internal and external staffing levels	The Company will have a contractual agreement with PHFA to conduct this program.
Estimated participation – includes tables indicating	See Appendix F

metric(s) with target value(s) per year	
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1- <u>6</u> 4
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC for each program	See PUC Table 7a
Other information deemed appropriate	This program is retroactively eligible to customers who install or commit to install qualifying equipment on or after July 1, 2009. None.

3.2.1. Low-Income Sector (as defined by 66 Pa. C.S. § 2806.1) Programs - include formatted descriptions of each program organized under the same headings as listed above for residential programs. As well, provide and detail all plans for achieving compliance with 66 Pa. C.S. § 2806.1.

Program Title and Program years during which program will be implemented	Low Income Sector Program ("WARM Plus") 2009-2013
Objective(s)	The provision of additional electric energy savings measures and whole house services to additional lower income households.
Target market	The target market for this program is households who are income-qualified for WARM services (up to 150% of poverty). The program will expand services with additional energy savings opportunities, and expand the services available to additional income-eligible households, and low use, low income customers not eligible for WARM.
Program description	This program is an expansion of and enhancement to the existing comprehensive Low-Income Usage Reduction Program, known as WARM that will provide additional electric energy savings measures and services to income-eligible customers. The WARM Plus program will support a 25% increase in the number of income-eligible homes receiving comprehensive treatments for Met-Ed and Penelec and an increase of 75 participants annually at Penn Power.
Implementation strategy (including expected changes that may occur in different program years)	Program services would be delivered by existing WARM Community Based Organizations ("CBOs") and private contractors, coordinated or augmented by additional private vendors as needed to enhance the capacity of existing agencies and contractors.
	The Company will give specific consideration for program coordination with the DCED Weatherization Assistance Program and NGDC LIURP Program.
	Participation by low-income customer in other programs will be tracked or estimated to support reporting and evaluation.
Program issues and risks and risk management strategy	Challenges with adding and training contractors if needed and landlord reluctance to permit WARM services. Risk management strategy will include adding an option to provide services to the low-income sector as part of the Act 129 implementation RFPs and directly sending CFLs and aerators to tenants. With respect to risk management, refer to Section 4.1.4 of the EE&C plan. The Company provides further details on "early warning systems" as well as a description of contingency plans.
Anticipated costs to participating	Based on income qualification, measures are provided free of

customers	charge.
Ramp up strategy	Include Act 129 measures and services to existing WARM contracts.
Marketing strategy	The marketing strategy for this program will include Company bill inserts, Company website, direct mail campaigns, senior citizen and low-income information fairs and community presentations as needed. Marketing activities will be coordinated with other Act 129 programs, the Company's and other state low-income programs such as the Customer Assistance Program (CAP), Dept. of Public Welfare, PHFA, gas utilities, DCED Weatherization Assistance Program, the NGDC LIURP Program and CBO initiatives.
Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	Whole house energy conservation services such as those provided by the WARM Program replacement lighting, smart power strips, energy education, <u>other</u> , <u>other</u> residential programs (e.g., appliance recycling, multi-family, energy efficient products, and load control programs) will also increase availability of subsidized energy efficiency services. All Measure are free to Customers
Program start date with key schedule milestones	See Figure 2.
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	Third-party Quality <u>AssuaranceAssurance</u> vendor will inspect a percentage of WARM and WARM-Plus completed homes. For the pre-installation phase, verify that inefficient lighting devices are installed and working on customers' premises. Determine current energy consumption and demand using billing/meter information. Check sample calculations of projected savings for accuracy and for compliance with TRM guidelines.
	For the post-installation phase, verify that new, more efficient lighting and other measures have been installed. Verify through billing, calculation or metering that expected energy savings or demand reduction goals are being achieved. Document, store and send measure data to state using specified data transmission protocols, processes and technology.
	As part of the monitoring process, the company plans to use selected indicators to verify periodically that energy savings and demand reduction are being realized as projected. A DSM tracking system is to be used for such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule or within budget, Penelec will take appropriate corrective actions.
Administrative requirements – include internal and external staffing levels	The Company will use a combination of internal and external resources to manage and implement the EE&C programs. Penelec will monitor and adjust the allocation of resources to balance the needs of each program. See sections 4.2.1 and 4.2.2

	of the EE&C plan for more details.
Estimated participation – includes tables indicating metric(s) with target value(s) per year	See Appendix F
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1- <u>6</u> 4
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC for each program	See PUC Table 7b
Other information deemed appropriate	Contracts being renegotiated with CBOs in June 2009 are including language to address the strong potential for launching of this program in fall 2009. This will enable quick launch of these services upon Commission approval.

3.3. Commercial/Industrial Small Sector (as defined by EDC Tariff) Programs - include formatted descriptions of each program organized under the same headings as listed above for residential programs.

Program Title and Program years during which program will be implemented	Energy Audit and Technical Assessment Program
Objective(s)	To provide business customers with comprehensive information related to opportunities identified in the buildings.
Target market	All existing non-residential buildings.
Program description	Provides two levels of energy audit services 1) a simple walk- through audit for small business with non-complex loads, and 2) a more comprehensive assessment for medium to large non- residential customers to help identify existing end uses of energy and find specific ways in which energy savings can be achieved. The audit supports obtaining rebates and other incentives through other Company programs.
Implementation strategy (including expected changes that may occur in different program years)	This program will be delivered by a vendor for the small commercial customers, and by contractors of the choice of the customer for large C/I. In coordination with PHFA, the Company will support and track participation by low-income multi-family customers in the

	program.
Program issues and risks and risk management strategy	Business climate may require fees to be reduced or waived in order to encourage participation. Process evaluation will determine if this adjustment is necessary following program launch. With respect to risk management, refer to Section 4.1.4 of the EE&C plan. The Company provides further details on "early warning systems" as well as a description of contingency plans.
Anticipated costs to participating customers	\$250 for small businesses and <\$1 per sq. foot fee for large customers or those with custom or complex systems to be evaluated. Exact fees to be determined through RFP process.
Ramp up strategy	Program will launch upon selection of vendor.
Marketing strategy	The Company fully expects the Program Manager(s), who will be selected by competitive bid, to provide specific details on marketing for this program.
Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	This program provides an energy audit/assessment conducted to document the building's existing equipment and efficiency opportunities prior to installation of efficiency measures. For small business, audits are provided at a cost of \$250 which includes receiving an unlimited number of coupons for \$1 off CFLs to replace existing incandescent lamps. The number of coupons will be base on the audit and customer requirements. Registration will be encouraged in the EPA's Benchmarking Tool that provides additional insights as to energy efficiency levels. Office equipment audits will be included for appropriate building types to ensure proper efficiency settings on equipment, and to identify savings potential for plug loads.
Program start date with key schedule milestones	See Figure 2
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	Penelec is to verify that the planned number of each type of audits is performed on time and within budget. A sample of audits will be reviewed to check that their actual costs do not exceed the budgeted cost. The company will also verify that existing EE&C opportunities are properly quantified to enable accurate tracking and documentation of energy efficiency and demand reduction.
	As part of the monitoring process, the company plans to use selected indicators to verify periodically that energy savings and demand reduction are being realized as projected. A DSM tracking system is to be used for such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule and within budget, Penelec will take appropriate corrective actions.

Administrative requirements – include internal and external staffing levels	The Company will use a combination of internal and external resources to manage and implement the EE&C programs. Penelec will monitor and adjust the allocation of resources to balance the needs of each program. See sections 4.2.1 and 4.2.2 of the EE&C plan for more details.
Estimated participation – includes tables indicating metric(s) with target value(s) per year	See Appendix F
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1- <u>6</u> 4
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC for each program	See PUC Table 7d
Other information deemed appropriate	

Program Title and Program years during which program will be implemented	C/I Equipment Program
Objective(s)	To reduce the first cost of high efficiency equipment thereby encouraging the adoption of this equipment in lieu of standard at the end of the useful life of measures, or as early replacement.
Target market	All existing commercial, industrial, municipal and multifamily buildings that are customers of the PA Companies.
Program description	Provides for the implementation of cost effective, high efficiency non-standard measures through the authorized contractor network for local, state and federal buildings, as well as for institutional customers. Rebates are intended to buy down selected equipment or overall job scopes to a 5 year payback or less.
Implementation strategy (including expected changes that may occur in different program years)	This program provides an incentive offsetting a portion of the incremental technology costs ("capital costs") of high efficiency units. In addition, it will provide technical support <u>when needed</u> . The Company wilcurrentlyl supports HVAC tune-up and recommissioning measures targeting existing buildings with packaged commercial HVAC systems for small commercial and industrial customers. Tenants in rental properties will be eligible with appropriate approvals from the property owner, rebates
Program issues and risks and risk management strategy	Availability of qualifying high efficiency equipment. The Company will negotiate with manufacturers to increase availability in the PA market for any items that are in demand but are in short supply. With respect to risk management, refer to Section 4.1.4 of the EE&C plan. The Company provides further details on "early warning systems" as well as a description of contingency plans.
Anticipated costs to participating customers	Balance of costs of equipment, plus installation costs as relevant.
Ramp up strategy	Program will launch upon selection of a vendor.
Marketing strategy	The Company fully expects the Program Manager(s), who will be selected by competitive bid, to provide specific details on marketing for this program.
Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	➢ For Rebate Amounts See Penelec Table 5 Incentives will be set at a schedule of payments per unit to address the incremental cost of commercially available energy efficient technology for each equipment category, when compared to the commonly available replacement.

Program start date with key schedule milestones	See Figure 2
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	For the pre-installation phase, for a sample of participants, verify that inefficient HVAC, lighting, food services equipment and plug loads and controls are installed and working on customers' premises. Determine current total energy consumption and demand using billing/meter information. Check sample calculations of projected savings and assumptions (e.g. EFLH) for accuracy and for compliance with TRM guidelines. Pre- approval and opportunity for pre-installation inspections is required, with the exception of emergency HVAC replacements.
	For the post-installation phase, verify through verification inspections that new, more efficient, equipment has been installed. Document, store and send measure data to state using specified data transmission protocols, processes and technology.
	As part of the monitoring process, the company plans to use selected indicators to verify periodically that energy savings and demand reduction are being realized as projected. A DSM tracking system is to be used for such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule and within budget, Penelec will take appropriate corrective actions.
Administrative requirements – include internal and external staffing levels	The Company will use a combination of internal and external resources to manage and implement the EE&C programs. Penelec will monitor and adjust the allocation of resources to balance the needs of each program. See sections 4.2.1 and 4.2.2 of the EE&C plan for more details.
Estimated participation – includes tables indicating metric(s) with target value(s) per year	See Appendix F
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1- <u>6</u> 4
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC for each program	See PUC Table 7
Other information deemed appropriate	Custom measures will be rebated based upon an analysis of potential energy savings on a case by case basis. <u>This program</u> is retroactively eligible to customers who install or commit to

install qualifying equipment on or after July 1, 2009.

Program Title and Program years during which program will be implemented ¹⁷	Multifamily Building Program 2009-2013
Objective(s)	This program seeks to motivate the multifamily property owner/manager and landlords toward installing energy efficient products.
Target market	The target market for this program is multifamily buildings being served by the Pennsylvania Housing Financing Authority (PHFA) that are part of the Company's service territory. Both master-metered and individually metered buildings are included. Savings will be apportioned to the appropriate rate class.
	Most of the buildings served by PHFA are occupied by low income tenants. For those PHFA buildings that are considered public housing, the savings will be attributed to government sector goals. Other non-low income building and tenant savings will be attributed to residential program savings goals.
Program description	This program leverages audit services already being provided by PHFA by having auditors directly install common area lighting measures at the time of the audit, and providing a package of lighting measures to tenants. Those cost of the audits is being funded by other sources.
Implementation strategy (including expected changes that may occur in different program years)	Building upon the PHFA Audit (prerequisite), this program provides direct-install lighting retrofits for common areas of multifamily buildings and CFLs to tenants of treated buildings.
Program issues and risks and risk management strategy	PHFA is conducting energy audits of buildings that fall under their area of responsibility. The objective of this program is to immediately capture electric energy savings available in common area lighting (hallways, exit signs, laundry facilities, exterior lighting, etc.). In addition, electricity use in PHFA apartment units is not currently addressed by the PHFA program. Tenants who pay for utilities as part of their rent in multifamily buildings often have little motivation to save electricity since they do not benefit directly, unless landlords pass on the energy

¹⁷ It is assumed that there are four program years, each starting June 1 and ending May 31st. The first program year (PY) is Program Year 2009 (although it is expected that programs will not start before late 2009 or early 2010), and the last program year is Program Year 2012.

	savings through reduced rent. Tenants who pay electricity directly have more motivation since they may experience lower electric bills. Regardless of whether a tenant in a PHFA building is master metered or a customer of record, they will be offered a conservation kit consisting of four CFLs.	
Anticipated costs to participating customers	There are no costs to tenants to participant in this program; it is assumed that landlords would pay the balance of costs of the lights after a \$1/watt rebate per fixture as based on the TRM.	
Ramp up strategy	Since PHFA has already identified their target buildings and is launching audits at this time, this program can be launched immediately upon securing the lighting equipment which is expected to be in November 2009.	
Marketing strategy	The marketing strategy is building specific and is conducted by PHFA. Tenants will be notified of the availability of kits through various normal communications via landlord notices, door knockers and other means.	
Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	This program provides common area interior and exterior lighting measures, CFLs for apartment units and faucet aerators for apartments that have electric water heating.	
Program start date with key schedule milestones	See Figure 2	
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	PHFA will verify installation of measures as part of their audit qualify control processes, reporting findings to the Company as part of a memorandum of understanding. The Company will also conduct periodic site visits and follow up calls to tenants to assess proper installation of measures. As part of the monitoring process, the Company plans to use selected indicators to periodically verify that energy savings and demand reduction are being realized as projected. A DSM tracking system is to be used for such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule and within budget, the Company will take appropriate corrective actions.	
Administrative requirements – include internal and external staffing levels	The Company will have a contractual agreement with PHFA to conduct this program.	
Estimated participation –	See Appendix F	

includes tables indicating metric(s) with target value(s) per year	
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1- <u>6</u> 4
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC for each program	See PUC Table 7a
Other information deemed appropriate	This program is retroactively eligible to customers who install or commit to install qualifying equipment on or after July 1, 2009. None.

3.4. Commercial/Industrial Large Sector (as defined by EDC Tariff) Programs - include formatted descriptions of each program organized under the same headings as listed above for residential programs.

Program Title and Program years during which program will be implemented	Industrial Motors and Variable Speed Drives
Objective(s)	This program seeks to provide an incentive for the Company's customers to recognize that energy savings and costs are possible when motors are upgraded to NEMA Premium [®] motors. The relatively low cost of electrical energy may have resulted in many customers not focusing on or considering upgrading their motors. The incentives offered by the Company are provided to help initiate momentum among its customers.
Target market	The target market is all commercial and industrial customers. This would include, but not be limited to the following business categories, industrial manufacturing, government facilities, office buildings, education, health care, retail and other commercial customers.
Program description	This program is designed to encourage the company's commercial and industrial customers to:
	 Upgrade their existing motors to NEMA Premium® motors when switching out old motors due to breakdowns and or programmed replacements Install variable speed drives on motors that do not always operate at the same speed.
	The variable speed drive program is designed for commercial and industrial energy customers whose motors are utilized for increased operating hours and have a higher variability of loads on the system (centrifugal pumps and fans) or the application of use includes mechanical throttling (valves, dampers, etc). This is because variable speed drives match the speed of the motor- driven equipment to the process requirement. Applications with low variability of loads such as vibrating conveyors, punch presses, rock crushers, machine tools and other applications where the motor runs at constant speed are not good candidates for a variable-speed drive.
Implementation strategy (including expected changes that may occur in different program years)	This program would be administered through regional motor distributors who would be incentives to move the products. A dealer network would be built by a qualified vendor from the list of contractors that are registered in Pennsylvania as a CSP.
Program issues and risks and risk management strategy	Lack of participation from regional motor distributors. With respect to risk management, refer to Section 4.1.4 of the EE&C plan. The Company provides further details on "early warning

	systems" as well as a description of contingency plans.	
Anticipated costs to participating customers	Incentives will be available to customers and through motors distributors as a rebate per unit replaced on a first come first serve basis and will be limited to the Company's motor upgrade budget.	
	 To qualify for an incentive, the motor(s) must operate a minimum of 3,000 hrs/yr 	
	The variable-speed drive incentive is \$30 per horsepower of the motor being used.	
Ramp up strategy	The rebates will be offered upon selection of a vendor.	
Marketing strategy	The Company fully expects the Program Manager(s), who will be selected by competitive bid, to provide specific details on marketing for this program.	
Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	This program seeks to provide an incentive for the Company's customers to recognize that energy savings and costs are possible when motors are upgraded to meet program efficiency standards. The relatively low cost of electrical energy may have resulted in many customers not focusing on or considering upgrading their motors. The incentives offered by the Company are provided to help initiate momentum among its customers.	
	Incentives will be available to customers and through motors distributors as a rebate per unit replaced on a first come first serve basis and will be limited to the Company's motor upgrade budget.	
	1. To qualify for an incentive, the motor(s) must operate a minimum of 3,000 hrs/yr	
	2. The motor upgrade program's individual incentives per motor start at \$20 for a 1HP.	
	3. The variable-speed drive incentive is \$30 per horsepower of the motor being used.	
	For Complete List of Rebate Amounts See Penelec Table 5	
Program start date with key schedule milestones	See Figure 2	
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	For the pre-installation phase, verify that inefficient motors are installed and operating on customers' premises. Determine current energy consumption and demand using billing/meter information. Check sample calculations of projected savings for accuracy and for compliance with TRM guidelines.	
	For the post-installation phase, verify that new, more efficient, motors have been installed. Verify through billing, calculation or metering that expected energy savings or demand reduction goals are being achieved. Document, store and send measure	

	data to state using specified data transmission protocols, processes and technology.
	As part of the monitoring process, the company plans to use selected indicators to verify periodically that energy savings and demand reduction are being realized as projected. A DSM tracking system is to be used for such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule and within budget, Penelec will take appropriate corrective actions.
Administrative requirements – include internal and external staffing levels	The Company will use a combination of internal and external resources to manage and implement the EE&C programs. Penelec will monitor and adjust the allocation of resources to balance the needs of each program. See sections 4.2.1 and 4.2.2 of the EE&C plan for more details.
Estimated participation – includes tables indicating metric(s) with target value(s) per year	See Appendix F
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1- <u>6</u> 4
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC for each program	See PUC Table 7c
Other information deemed appropriate	This program is retroactively eligible to customers who install or commit to install qualifying equipment on or after July 1, 2009. None.

Program Title and Program years during which program will be implemented	2a. Commercial Industrial Demand Response Program – CSP ¹⁸ Mandatory and Voluntary Curtailment Program	
Objective(s)	To address the 100 highest peak load hours during the four months of June through September, as required under Act 129.	
Target market	For Commercial and Industrial, as well as government sector customers, Met-Ed and Penelec (each referred to as Company) will solicit registration for curtailment service providers ("DR-CSPs") registering load in PJM capacity programs, firm pricing for commitments for peak load reductions in at least 50 peak load hours based on Company notifications in accordance with the provisions outlined below.	
Program description	To participate, DR-CSPs must register their customers for capacity in the PJM ILR or DR programs, and must register for PJM economic load response program (ELRP) "events" that include specific days and hours defined through Company notifications on a day-of or day-ahead basis (Peak Load Reduction ("PLR") Performance Periods).	
	a. Notifications will be provided to the DR-CSPs at least three hours prior to the event.	
	b. DR-CSP registration of PLR Performance Periods in PJM ELRP events is required to enable PJM processes for verification of actual peak load reductions. The days and hours for that define periods of performance.	
	c. Performance Periods will be limited to week days between noon and 8 PM, with durations of a minimum of one hour up to the full 6 hours.	
	Credit Requirements. The DR-CSP or its Guarantor will be deemed creditworthy upon meeting the following requirements:	
	a.the DR-CSP has a minimum senior unsecured debt rating (or, if unavailable, corporate issuer) from one of the following rating agencies of at least "BBB-" from S&P, "Baa3" from Moody's, or "BBB-" from Fitch	
	b. If the DR-CSP does not meet the creditworthiness	

¹⁸ It should be noted that a "Curtailment Service Provider (CSP)" under PJM demand response programs is different from a "Conservation Service Provider (CSP)" under Act 129.

	requirement, the DR-CSP wi guaranty from a guarantor th requirement as stated above, bank with an S&P credit rati rating of Aa2, or cCash depo default obligation under the o	at meets the cr or a Letter of (ng of A or a M sit to meet the	edit Credit from a oody's credit customer's
Implementation strategy (including expected changes that may occur in different program years)	The Company will enter into an agreement with qualified ¹⁹ DR-CSPs selected on a first come first serve basis up to the contracted MW of peak load reductions for annual performance periods. Annual performance periods will address the 2011/12, and 2012/13 PJM planning years.		
	a. Estimated MW required 129 minimum requirem achieved through energy Actual MW registered for subject to adjustment (up program performance experience under this pro-	ents will dependents will dependent gy efficiency for the summer p or down) base through 201	end on the MW (EE) programs. of 2012 will be sed on actual EE 1, as well as
Program issues and risks and risk management strategy	Since this program is a mandatory curtailment program, there is a risk that the hours that the Company calls for curtailment will not be in the top 100 load hours.		
Anticipated costs to participating customers	\$125 per month administrati	ve cost	
Ramp up strategy	Projected MW to be solicited	l in each plann	ing year will be:
		Met-Ed	Penelec
	Projected MW Required for this Program	10 MW	10 MW
	Price per kW per quarter paid on a quarterly basis	\$ 9.50 per contract kW	\$ 9.50 per contract kW
		per quarter	per quarter
	MW Solicited in PJM Planning Year		
	2011/12:	20 MW	20 MW
	2012/13:	40 MW	40 MW

	Less 50% of previous years performance from Voluntary Program	
Marketing strategy	Inform active and qualified CSPs about the new initiative and the details associated with the plan.	
Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	 Payment will be based on proposed and accepted pricing from the Company and made on a quarterly basis starting in October. Pricing will be based on: a. Fixed payments per contracted kW of peak load reduction equal to \$9.50 per kW per quarter, and b. Decrements (or performance penalties) for peak load reductions below contracted levels for the season. Decrement pricing for average hourly underperformance relative to the contract load reduction during the season will be based on MWh pricing equivalent to 125% of the contract fixed payments divided by 50 hours. a. For example, a contract with fixed monthly pricing of \$9.50/contract kW-quarter for the period June through May, would have a decrement price equal to \$9.50/kW quarter x 4 quarters x 125% / 50 hours = \$0.950 / kWh for average hourly performance below the contract kW 	
	 for any event. b. Decrement will be based on the aggregated average hourly performance relative to the contract kW peak load reduction for the season. For example, if the contract kW is 1,000 in the example above, the DR-CSP would receive 4 quarterly payments x 1,000 kW x \$9.50/kW quarter = \$38,000/year of contracted fixed payments. If the Company calls a 6 hour event, and the average aggregate peak load reduction for the group of customers under the agreement is 900 kW, the DR-CSP payment for that event would be decremented by 6 hours x 100 kW x \$0.950/kWh = \$570.00 Decrements can be offset by average hourly overperformance relative to the contract load reduction during any daily event, based on a decrement offset price per MWh equivalent to the contract fixed payments divided by 50 hours. 	
	a. For example, a contract with fixed quarterly pricing of	

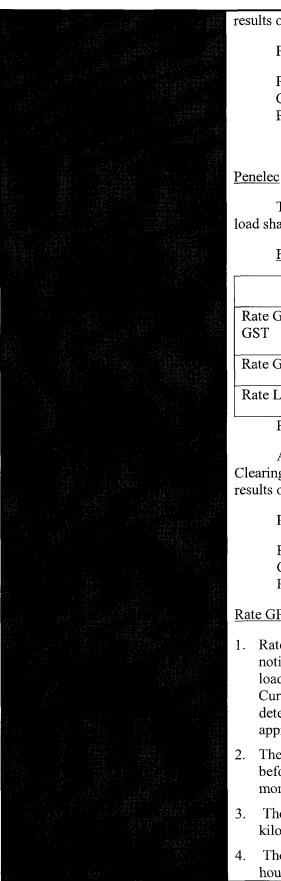
	\$9.50/contract kW quarter for the period June through May would have a decrement offset price equal to 9.50/kW quarter x 4 quarters / 50 hours = 0.76 / kWh for average hourly performance above the contract kW for any event.
	Decrements will be applied to offset payments starting in October.
Voluntary Program details	Company will pay CSPs an incentive for demand response in accordance with the provisions outlined below: (Note that this program will start in the summer of 2011)
	1. It will be up to the CSP to aggregate and reduce load during the top 100 highest load hours. If the CSP drops load and it is not in the 100 highest load hours, then no payment will be made by the Company
	2. This Company program is completely voluntary. After the end of September, Company will calculate and announce the dates and hours of the top 100 load hours for the four month period for its Company zone. Company will then examine the PJM demand response records and pay CSPs \$150.00 per MW hour (15 cents per <u>kwhkWh</u>) for any load reductions that occurred during those 100 highest load hours – this payment will be made in addition to any and all payments made by PJM.
	3. Performance verification will be based on PJM ELRP protocols for the aggregated hourly load reductions of the participants listed in the agreement
	DR-CSP will provide Company summary of hourly peak load reductions for the aggregated group and for individual customers, with back-up data supporting hourly performance for each customer for Performance Periods using metering data accepted by PJM. Load reductions will be measured against the standard CBL if appropriate or a CBL nominated by the EDC or CSP/Customer and accepted by PJM.
Program start date with key schedule milestones	The program plan is designed to be fully implemented starting in the summer of 2011
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	Performance verification will be based on PJM ELRP protocols for the aggregated hourly load reductions of the participants listed in the agreement.DR-CSP will provide Company summary of hourly peak load reductions for the aggregated group and for individual customers, with back-up data supporting hourly

	performance for each customer for Performance Periods using metering data accepted by PJM. Load reductions will be measured against the standard CBL if appropriate or a CBL nominated by the EDC or CSP/Customer and accepted by PJM.		
		Met-Ed	Penelec
Estimated participation – includes tables indicating metric(s) with target value(s) per	MW participation	40MW	40MW
year	Hours	50	50
	Efficiency rate*	50%	50%
	*Amount of hours that will fall within the top 100 load hour requirement		
Estimated program budget (total) by year – include table with budget per year	\$2,000,000 per year	r for both Met-Ed an	d Penelec.
Savings targets – include tables	······································	Met-Ed	Penelec
with total MWh and MW goals per year and cumulative tables	MW savings	10MW	10 MW
that document key assumptions of savings per measure or project	MWh savings	1,000 MWh	1,000 MWh

Program Title and Program	2b. Met-Ed/Penelec Acting as a CSP ²⁰ within PJM	
years during which program will be implemented	Commercial Industrial Demand Response Program – Customer Mandatory Curtailment Program	
	Target Market = total mw targeted less 50% of previous years voluntary participation in VLRP less amount committed by CSP registration.	
Objective(s)	To address the 100 highest peak load hours during the four months of June through September, as required under Act 129 – for the MW not contracted for with CSPs.	
Target market	1. Customers who elect to take generation service from an EGS shall include in contract language with EGS that would allow the Company to curtail based on the curtailable contract.	
	2. If the Customer is currently shopping, the Customer must confirm that their existing EGS contract allows for a Company sponsored curtailment program. Customer must also confirm they have not committed to another CSP for participation in PJM programs	
	3. The curtailable contract must be for a minimum 2 years.	
	4. The Curtailable load that will be eligible for the credits specified in this program shall be equal to the Customer's average billing Curtailable kilowatt credit level measured based upon PJM ELRP Protocols.	
	5. Before initiation of this program, the Company will enroll Customers in PJM's Economic Load Response Program and Interruptible Load Response.	
Calculation of Credit	1. A credit for each kilowatt of Curtailable load based upon PJM ELRP Protocols.	
	2. If a Customer has a Curtailable load of 300 kilowatts or greater and agrees in a separate contract to curtail its load to a predetermined level equal to its non- Curtailable service requirements (such level to be determined in advance by the Customer subject to approval by Company), then the Company can curtail upon either a thirty-minute or a two-hour advance notice.	
	3. The period of curtailment shall not exceed six (6) hours within any one (1) calendar day and will be between the hours of 12.00 PM and 8:00PM. The number of curtailments shall not exceed twenty (20)	

²⁰ It should be noted that a "Curtailment Service Provider (CSP)" under PJM demand response programs is different from a "Conservation Service Provider (CSP)" under Act 129.

			gate period of cur s per 4-month summ	tailment shall not her period.
Billing and Payment	1.	over the eight r in the amount of curtailment. If the Customer's	of one eighth of the the amount of the c monthly bill, then ent to the Custome	tober through May e total value of the redit is greater than the Company will
	2.	month, and in a various progra forward to the statement descr each hour of calculation of t account of sucl	ccordance with any ms, the Company e Customer a con ibing the amount of the previous mo the total amount du h Load Reduction of	business day of each requirements of the shall prepare and nprehensive written Load Reduction for nth, along with a ue the Customer on or the amount to be eduction Pledges not
Program issues and risks and risk management strategy	Since this program is a mandatory curtailment program, there is a risk that the hours that the Company calls for curtailment will not be in the top 100 load hours.			
Anticipated costs to participating customers	\$12	25 per month adr	ninistrative cost	
Marketing strategy	Inform active and qualified Customers about the new initiative and the details associated with the plan.			
Eligible measures and incentive strategy, include tables for each year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure,	Th	vable over 8 mon		urtailable load
\$ per kWh or MW saved)		Fixed Portio		2 Hour Notico
			¹ / ₂ Hour Notice	2 Hour Notice
		ate GS and ST	N/A	\$5.14 per KW
	R	ate GP	\$5.11 per KW	\$4.85 per KW
	R	ate TP	\$4.87 per KW	\$4.63 per KW
		Plus		·
	Cle			the RPM Auction 7 PJM to reflect the



results of the most recent auction.

Plus

Payments made by PJM to the Company (acting as CSP) as part of PJM's Economic Load Response Program ("ELRP")

Penelec

The monthly credit to Customers for Curtailable load shall be:

Fixed Portion:

	¹ / ₂ Hour Notice	2 Hour Notice
Rate GS and GST	N/A	\$6.18 per KW
Rate GP	\$4.64 per KW	\$4.81 per KW
Rate LP	\$4.50 per KW	\$4.67 per KW

Plus

An amount per kW equal to the RPM Auction Clearing Price as adjusted annually by PJM to reflect the results of the most recent auction X 0.85.

Plus

Payments made by PJM to the Company (acting as CSP) as part of PJM's Economic Load Response Program ("ELRP")

Rate GP and TP/LP Prior Day Option:

- 1. Rate GP and TP/LP Customers may select a prior day notice option provided that the Customer curtails its load to a predetermined level equal to its non-Curtailable service requirements (such level to be determined in advance by the Customer subject to approval by Company).
- 2. The Company shall give notice of a curtailment before 12 o'clock noon of the prior day during the months of June through September.
- The Customer must have a Curtailable load of 1,000 kilowatts or greater.
- The period of curtailment shall not exceed six (6) hours within any one (1) calendar day, and will be

Energy Efficiency and Conservation Plan Program Descriptions

	number of and the ag exceed 50	e hours of 12:00PM and 8:00PM. The curtailments shall not exceed fifteen (15) ggregate period of curtailment shall not hours during the four (4) month summer ny one (1) calendar year.
	The monthly cr shall be:	redit to Customers for Curtailable load
	Credit With Pri	or Day Notice
	Met-Ed	
	Rate GP	\$2.43 per KW
	Rate TP	\$2.32 per KW
	Penelec	
	Rate GP	\$2.41 per KW
	Rate LP	\$2.34 per KW
	Plus	
	Clearing	unt per kW based on the RPM Auction Price as adjusted annually by PJM to e results of the most recent auction X 0.85.
	Plus	
		ayments made as part of PJM's Economic sponse Program ("ELRP")
Penalty for Customer failure to Curtail and termination rules	-	ty assessment will be based on the performance over the entire Summer
	when the (demand in	er shall be deemed to have failed to curtail Customer's maximum 15-minute integrated each period of curtailment has not been not more than 101% of the "predetermined"
	for a mand	r's fail to curtail when the Company calls atory curtailment, the penalty payable to the vill be equal to the following:
		bliance Penalty = Amount of Load not MW) x RPM Auction Clearing Price (\$ x 2
	Termination Ru	
	service und	Company or the Customer may terminate der this program upon providing the other st one (1) year notice of termination.

	2. However, during the period beginning when a Customer initially elects to take service under this program and ending on the following April 30, such a Customer may, upon thirty (30) days' notice to the Company, elect to terminate Curtailable service without the requirement of the one (1) year notice set forth above. Thereafter, the one (1) year notice requirement shall apply.
Program start date with key schedule milestones	The program plan is designed to be fully implemented starting in the summer of 2011
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	Performance verification will be based on PJM ELRP protocols for the aggregated hourly load reductions of the participants listed in the agreement.The Company, acting as CSP, will provide a summary of hourly peak load reductions for the aggregated group and for individual customers, with back-up data supporting hourly performance for each customer for Performance Periods using metering data accepted by PJM. Load reductions will be measured against the standard CBL if appropriate or a CBL nominated by the EDC or CSP/Customer and accepted by PJM.
	The Company will track the amount it receives in payments from PJM, the amounts it retains for administrative and other costs, the amounts passed on to customers, and the actual administrative, marketing and credit costs associated with this program. This information will be included as part of the Company's annual filing.

Program Title and Program years during which program will be implemented	C/I Performance Contracting
Objective(s)	To assist large commercial and industrial (and other non- residential) customers secure DSM/EE services through an Energy Services Company that will identify opportunities and implement retrofits.
Target market	All existing non-residential buildings.
Program description	Large commercial and industrial (and other non-residential) customers may elect to secure DSM/EE services through an Energy Services Company that will identify opportunities, implement retrofits and be paid through the savings generated by the project over time. The PA Companies will identify qualified ESCOs and will pay a portion of the project costs for kWh and kW savings delivered.
	ESCOs may serve as aggregators of customers for providing contracted kWh and kW savings to the Companies.
Implementation strategy (including expected changes that may occur in different program years)	This program would be delivered through qualified ESCO contractors that agree to terms for participation. Specific rules for documenting energy savings and demand reductions must be met prior to receipt of payments under this program.
Program issues and risks and risk management strategy	Challenges with customers meeting requirements for payment, lack of program awareness and "emergency replacement" scenario among target customers. There is potential for low dealer, customer, and trade ally awareness. Procurement policies that specify low first-cost instead of life-cycle cost and possible tenant/landlord issues may be concerns. With respect to risk management, refer to Section 4.1.4 of the EE&C plan. The Company provides further details on "early warning systems" as well as a description of contingency plans.
Anticipated costs to participating customers	The installation costs minus the incentives.
Ramp up strategy	The Company fully expects the Program Manager(s), who will be selected by competitive bid, to provide specific details on ramp up strategy for this program.
Marketing strategy	The Company fully expects the Program Manager(s), who will be selected by competitive bid, to provide specific details on marketing for this program.
Eligible measures and incentive strategy, include tables for each	The rebates for this program are the same as for the C/I Equipment program. The only difference is the delivery channel. For the rebates amount see Penelec Table 5 under C/I

year of program, as appropriate showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	Equipment rebates.
Program start date with key schedule milestones	See Figure 2
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	For the pre-installation phase, verify that inefficient HVAC, lighting, food services equipment as well plug loads and controls are installed and working on customers' premises. Determine current energy consumption and demand using billing/meter information. Check sample calculations of projected savings for accuracy and for compliance with TRM guidelines.
	For the post-installation phase, verify that new, more efficient, equipment has been installed. Verify through billing, calculation or metering that expected energy savings or demand reduction goals are being achieved. Document, store and send measure data to state using specified data transmission protocols, processes and technology.
	As part of the monitoring process, the company plans to use selected indicators to verify periodically that kWh and kW savings are being realized as projected. A DSM tracking system is to be used for such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule and within budget, FirstEnergy will take appropriate corrective actions.
Administrative requirements – include internal and external staffing levels	The Company will use a combination of internal and external resources to manage and implement the EE&C programs. Penelec will monitor and adjust the allocation of resources to balance the needs of each program. See sections 4.2.1 and 4.2.2 of the EE&C plan for more details.
Estimated participation – includes tables indicating metric(s) with target value(s) per year	See Appendix F
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1- <u>6</u> 4
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC for each program	See PUC Table 7d

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Other information deemed	This program is retroactively eligible to customers who install or
appropriate	commit to install qualifying equipment on or after July 1, 2009.

3.5. Governmental//Non-Profit Sector (as defined by 66 Pa. C.S. § 2806.1) Programs - include formatted descriptions of each program organized under the same headings as listed above for residential programs. As well, provide and detail all plans for achieving compliance with 66 Pa. C.S. § 2806.1.

Program Title and Program years during which program will be implemented	Governmental and Institutional Programs:
	a. Federal Facilities, State, Local, Institutional and Non-Profit Building audits and plans for Stimulus Money
	b. Street lighting Program
	c. Traffic Signal Program
	d. State, Local, Institutional and Non-Profit Buildings
	e. County and Local Audit Program
	f. Multifamily Building Program ²¹
Objective(s)	The programs provide incentives of a percentage [TBD] of the incremental technology costs ("capital costs") for energy efficient retrofit projects. In addition, they will provide technical support, rebates, and support for financing.
Target market	All existing governmental, institutional and non-profit buildings in the company's service territory. Note that federal government customers may be eligible for payment of the retrofits by the Federal Energy Management Program (FEMP) upon review and approval by the federal program manager.
Program description	a. The Federal Facilities Program involves a feasibility study to identify energy savings opportunity to expedite the Federal and municipal agencies taking action. Provides for the implementation of cost effective, high efficiency standard and non-standard measures through a CSP for local, state and federal buildings, as well as for institutional customers. For federal facilities that qualify, costs for the implementation are covered under the Federal Energy Management Program; for others, rebates are intended to buy down selected equipment or overall job scopes to a 5 year payback or less.
	b. The Street lighting Program is offered to municipalities regardless of ownership of the street lights. This segment of the Government program will seek to convert street lights to high pressure sodium. The company will also pursue an LED street light demonstration project as part of this component to test this emerging technology.
	c. The Traffic Signal Program is another program targeted at local governments. This component of the Gov't program will

²¹ If a multifamily facility is operated by a local, state or federal agency, savings as a result of measures for these multifamily facilities will qualify for Governmental and Institutional prescribed requirements.

	seek to convert traffic signals and pedestrian/cycling signals to LED technology.
	d. Governmental Buildings and Schools Program will help better identify energy savings opportunities and expedite their implementation. The CSP would provide diagnostic assistance, technical support and rebates necessary for school districts to install high-efficiency measures.
	e. County and Local Buildings including schools will be provided energy audits free of charge as a way to increase the proportional share of saving received from governmental customers.
Implementation strategy (including expected changes that may occur in different program years)	These programs will interface with each other so that program participants can obtain full energy audits as needed. They will also potentially leverage support from state-level initiatives.
Program issues and risks and risk management strategy	Inability of organizations to identify balance of funding for projects, in spite of incentives; competing priorities for capital improvements. Risk management includes assistance in helping identify federal Energy Efficiency Block Grant or American Public Power Association (as appropriate) funding or other sources for balance of costs. Also, with respect to risk management, refer to Section 4.1.4 of the EE&C plan. The Company provides further details on "early warning systems" as well as a description of contingency plans.
Anticipated costs to participating customers	Balance of project costs.
Ramp up strategy	Program will launch upon selection of C/I vendor.
Marketing strategy	FirstEnergy Area Managers will be tapped to provide first line contacts to eligible customers within the target market segments. The C/I program vendor will be responsible for ultimate program marketing.
Eligible measures and incentive strategy, include tables for each year of program, as appropriate	Federal Rebates to qualified federal buildings are listed separately in Table 5 due to the availability of Federal incentive money.
showing financial incentives & rebate levels (e.g., \$ per measure, \$ per kWh or MW saved)	All other Governmental rebates are the same as the C/I equipment program.
	The rebates are listed in Penelec Table 5 under the C/I Equipment program.
	The county and local governmental audits are estimated to be about \$2000 dollars.
Program start date with key	See Figure 2.

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schedule milestones	
Assumed Evaluation, Measurement, and Verification (EM&V) requirements required to document savings by the Commission's statewide EE&C Plan Evaluator	FirstEnergy is to verify that the planned number of each type of governmental and institutional audits is performed on time and within budget. A sample of audits will be reviewed to check that their actual costs do not exceed the budgeted cost. The company will also verify that existing EE&C opportunities are properly identified, validated and quantified to enable accurate tracking and documentation of energy efficiency and demand reduction.
	As part of the monitoring process, the company plans to use selected indicators to verify periodically that energy savings and demand reduction are being realized as projected. A DSM tracking system is to be used for such monitoring. In the event that EE&C program indicators show that projected EE&C targets are not likely to be achieved on schedule or within budget, FirstEnergy will take appropriate corrective actions.
Administrative requirements – include internal and external staffing levels	The Company will use a combination of internal and external resources to manage and implement the EE&C programs. Penelec will monitor and adjust the allocation of resources to balance the needs of each program. See sections 4.2.1 and 4.2.2 of the EE&C plan for more details.
Estimated participation – includes tables indicating metric(s) with target value(s) per year	See Appendix F
Estimated program budget (total) by year – include table with budget per year	See Appendix D 1-4 <u>6</u>
Savings targets – include tables with total MWh and MW goals per year and cumulative tables that document key assumptions of savings per measure or project	See Appendix E
Cost-effectiveness – include TRC for each program	See PUC Table 7
Other information deemed appropriate	This program is retroactively eligible to customers who install or commit to install qualifying equipment on or after July 1, 2009.

4. Program Management and Implementation Strategies

4.1. Overview of EDC Management and Implementation Strategies:

4.1.1. Describe the types of services to be provided by EDC as well as consultants, trade allies, and CSPs. Indicate which organizations will provide which services and the basis for such allocation. Reference reporting and EM&V information from Sections 5 and 6 below.

Generally the Company will assume overall administration and oversight of the Plan with the following types of contractors performing the specific tasks associated with applicable programs.

<u>Residential</u>

- A. Online audit vendor, energy audit services firm, local energy auditors residential home audits
- B. Environmentally responsible appliance recycler residential appliance turn-in
- C. Local contractors with appropriate training and certification Energy Efficient HVAC and solar program
- D. Statewide national vendor coordinated w/other Pennsylvania utilities Energy efficiency products program
- E. Local builders new construction program
- F. BPI certified contractors residential whole building comprehensive plan

Commercial

- A. Qualified contractors who agree to participation terms, trade allies who have attended training energy audit program
- B. Qualified vendors from list of eligible FEMP contractors that are also registered in Pennsylvania as a CSP government and institutional program, C/I equipment rebate program
- C. Qualified ESCO contractors that agree to participation terms and meet specific rules C/I performance contracting
- D. Regional motor distributors who would be incentivized to move the products industrial motors and Variable Speed Drive program
- E. CSPs who will serve as load aggregators and participate in the PJM demand response programs C/I DR program

4.1.2. Describe how the risk categories of performance, technology, market and evaluation can affect the programs and any risk management strategies that will be employed to mitigate those risks.

1. Performance risk is the risk that, due to design or implementation flaws, the program does not deliver expected savings.

The Company took a variety of steps to keep participation simple for both customers and trade allies. This is a crucial design principle for ensuring success. Eligibility guidelines, application forms, technical assistance guidelines and other program collateral materials will be: 1) easy to access via a website; 2) clear and concise; 3) require the minimum amount of information to confirm equipment and customer eligibility; and, 4) designed to enable tracking for measurement and verification purposes.

The Company has taken steps to identify and manage risks as well as to prepare for contingencies that may be necessary in its implementation activities over the Plan's implementation period. Those steps are as follows:

- 1. The Company will continue seeking input from the stakeholder process that the Company initiated during the plan development phase of this process. While the ultimate decision making and responsibility for meeting the targets will be the Company's, this process is expected to continue to yield benefits for the Company and its customers.
- 2. The Company intends to perform continual EM&V on all program offerings in order to einsure that all programs are on target in terms of dollars spent, participation rates achieved and kWh and kWw savings realized.
- 3. The Company has held back a portion of the funds that became available predominantly from changes in the DLC budgets for the purpose of financing: (i) important programmatic changes; (ii) potential and, perhaps, additions that are found to be necessary and/or desirable as the Company and its stakeholders collect and assess key program performance metrics over the course of each program's deployment and operation; and (iii) unforeseen events that may arise over the next four years. Given the current economic conditions at the State, Federal and global levels, as well as the newness of this entire Act 129 process, this may prove to be a valuable risk management tool that will help to ensure that the Company meets its demand reduction targets.
- Given the significant investment required to meet Act 129 kWh and kWw savings targets, the Company now believes that it is both prudent and necessary to have a robust evaluation process in place from the date of each program's inception as well as the financial capability to make those changes that are either indicated by the program process evaluations and/or general economic conditions as they change over time. This ambitious EE&C undertaking is occurring at a time when economic conditions are in turmoil and it remains to be seen how customers will react to programmatic offerings with the rebate levels prescribed—rebate levels that have been based upon successful programs in more favorable economic conditions.

The Company believes that its Pplan contains the right mixture of incentives and measure offerings to meet the prescribed targets. Further, the Company's risk management strategies, as designed, will now provide the flexibility necessary to maximize the potential for success.

2. Technology risk is the risk that technologies targeted by a program fail to deliver the savings expected.

The Company plans to begin with tested technologies with well-established energy savings performance and supplement them for market segments as appropriate. Simple programs will be launched first, and the design

and delivery channels will evolve over time. Furthermore, comprehensive programs have been developed that will both have an immediate impact on energy use and in the long run will help transform the market into one where customers seek energy efficient options on a regular basis no matter the incentives. In addition, design flexibility will be retained to enable the adjustment of specific designs as dictated by customer response and evaluation results, as well as to rebalance the portfolio based on individual program performance and emerging opportunities.

3. Market risk is the risk that customers, or other key market players (e.g., contractors), choose not to participate in a program.

The Company will carefully evaluate various approaches to building awareness through communications in order to minimize market risk. It plans to raise customers' awareness of the benefits of energy efficiency and conservation, as well as the existence of its programs offered through this Plan through a company-wide educational campaign, community level outreach and program-specific marketing, The Company expects the Commonwealth (i.e., regulators, state agencies, etc.) to similarly conduct statewide educational and outreach initiatives. For example, Penelec can leverage the credibility of trade allies as channels to educate and influence audiences.

Market risk will be assessed through program tracking and periodic surveys to gauge awareness of the programs and for those not participating, barriers to participation. Market risk will also be assessed through process evaluations that will take place from between six and twelve months after each program is launched. This will enable Penelec to identify issues related to market risk and implement mid-course corrections to enable the programs to stay on track.

4. Evaluation risk is the risk that independent EM&V will, based on different assumptions, conclude that savings fall short of what the implementers have estimated. The company minimized this risk by hiring as one of its CSPs, Black & Veatch, an industry leader and expert in EE&C program design and evaluation.

4.1.3. Describe how EDC plans to address human resource and contractor resource constraints to ensure that adequate personnel and contractors are available to implement the EE&C plan successfully.

The Company intends to use both in-house personnel and contractors to help implement the EE&C plan successfully. FirstEnergy has a centralized organization staffed with qualified and experienced personnel. Additionally, this organization has access to personnel from various departments including legal, finance, engineering, customer service and regulatory affairs on an as needed basis. During the design phase of the plan, this organization has retained the services of Black & Veatch who has assisted other electric utilities with the design of their EE&C plans. Black & Veatch has considerable expertise in the field of EE&C.

To confirm the availability of contractors to help with the implementation of the EE&C plan, the Company has surveyed several companies qualified to implement the EE&C plan. The results of the survey were used in program design and to ensure that there will be a sufficient number of adequately qualified contractors to implement the measures being selected or developed to reach the kWh and kW savings goals. These surveys also provided information on the cost of some EE&C measures, their implementation timeframe and likelihood of success in reducing energy consumption and demand.

The next step is to issue RFPs to selected contractors who will be responsible for some of the EE&C plans' implementation activities. The Company will issue the RFPs as soon as the EE&C plan is filed and the contractors have been qualified as CSPs.

4.1.4. Describe "early warning systems" that will be utilized to indicate progress towards the goals and whether they are likely to be met. Describe EDC's approach and process for shifting goals and funds, as needed, between programs and adding new measures/programs.

The Company's strategy for early warning system is to incorporate a three-pronged approach into the implementation of the programs: (1) tracking system, (2) energy audits, and (3) reporting. Program application forms will incorporate data requirements for tracking various customer characteristics and other data necessary for surveying participation levels and applicant specifics, as well as tracking the extent to which different types of customers are or are not participating. This information will be stored in the tracking system and summarized on a regular basis. By encouraging both residential and non-residential customers to undergo an energy audit, the Company will capture useful data on as-found characteristics of facilities and buildings that will help verify or confirm assumptions on energy savings potential and identify those remaining opportunities. Finally, by preparing summary reports of progress on a regular basis, the Company will have access to and make best use of status information. These reports will be closely monitored by Company management.

Common barriers/possible challenges to investments in energy efficiency include:

- Customer general attitudes toward EE&C and demand response in light of the necessary paradigm shift;
- First cost of energy efficiency investments;
- The length of investment payback periods, which generally must be relatively short;
- The limited supply of dedicated individuals with the expertise to identify energy efficiency opportunities and drive them through to implementation; and
- Today's business environment has many companies operating in a survival mode compared to investing in future energy savings

These, as well as other issues, will be tracked through process evaluation and regular program monitoring to determine if they are having a measurable effect on the achievement of targets.

Contingency Plan

FirstEnergy has developed a contingency plan in the unlikely event that any of the following four issues arise:

What if the savings don't materialize? The Company anticipates a ramp up of programs starting in November 2009. Monthly program kW/kWh TRM-based impacts and costs incurred will be tracked from the conception of each program. To the extent that program/measure market penetration lags behind the expected kW/kWh-cost forecasts, so should the rate at which budgeted costs are incurred. If it is found that one or more programs are not meeting expectations, FirstEnergy will take one or all of the following actions:

- 1. Shift the focus of underperforming programs to measures that have a higher adoption rate. The FirstEnergy Companies' plans utilize over 100 measures that are rolled up into programs. This large number of measures incorporated in the programs allows flexibility to shift emphasis to incorporate successful measures as needed to stay on track toward achieving energy savings goals.
- 2. Alter the program delivery processes utilized in order to enhance market penetration. Options here may include having vendors add field staff to handle more inquiries or shorten response times, eliminating or adjusting project requirements if bottlenecks appear to be stalling progress, or other

adjustments as dictated by process evaluations. However, any changes made will take care not to compromise data tracking for evaluation purposes.

- 3. Investigate, through further surveys, the issues that customers have with problem programs and modify delivery based upon the results of these surveys
- 4. Shift program delivery to more aggressively promoted and perhaps rebated versions
- 5. In extreme cases, abandon non-performing programs and replace them with other programs that are enjoying a greater success.
- 6. Shift resources to higher performing programs that may have been under funded, because the study assumes a low participation from industrial customers due to current economic conditions, the Plan may have to be rebalanced if there is a higher than expected response from the industrial class.
- 7. Add delivery channels. The on-line audit program could be enhanced to open more channels to deliver conservation kits.
- 8. Shift resources between sectors as needed to address demand. For example, in the event that there is greater than expected participation in the C&I demand program, the Company may reduce the size of the Residential Direct Load Control program.

The Company expects to have the ability to shift resources between programs and/or between customer sectors within the portfolio as needed to meet the goals.

What mid-course corrections could be implemented? The Company believes that CFL programs, efficient electric water heating and residential/small commercial Demand Load Control programs are but three of the programs that could be ramped up through enhanced marketing efforts to achieve kWh and kW impacts greater than anticipated under the proposed EE&C Plans This may require a re-balancing of program goals and budgets. Notwithstanding, the EE&C program tracking system will provide near real-time intelligence for making such mid-course decisions and adjustments with enough time for such corrections to be effective.

What would be communicated to regulators? Penelec will provide periodic updates to the Commission as required concerning the successes of its programs, issues encountered and updated trajectories of impacts achieved vs. costs incurred. With this level of communication, FirstEnergy's Pennsylvania's EE&C team hopes to provide the Commission, stakeholders, all of the FirstEnergy Companies, and other Pennsylvania EDCs with up to date intelligence, including identified issues and proposed solutions. It also hopes to learn from the experiences of other EDCs through intelligence sharing.

How will the appropriate mid-course corrections be identified? The Company anticipates using a process evaluation for a 6-to-12 month check following each program launch to determine progress and identify any necessary corrective actions. At the 6 to 12 month mark for each program, a program-by-program process evaluation will be performed using a combination of participant satisfaction and key customer perception surveys -- all preformed using statistically significant samples along with a kWh/kW impact/cost analyses in which each program's targets are compared with Plan expectations.

4.2. Executive Management Structure:

4.2.1. Describe EDC structure for addressing portfolio strategy, planning, review of program metrics, internal and external communications, budgeting and financial management, program implementation, procurement, program tracking and reporting, and Quality Assurance/Quality Control (QA/QC). Include EDC organization chart for management team responsible for implementing EE&C plan.

The Company believes that during the initial stages of EE&C program implementation, it is particularly important that senior management be visible in its oversight role and actively support the changes and

adjustments needed in organization structure, interdepartmental cooperation, staffing, and ensuring corporatewide support of the new initiatives. As a result, the Company has created a steering committee that is comprised of senior management members from across the organization, including the President – FE Utilities, and Vice-Presidents representing Energy Efficiency & Customer Service, Energy Delivery, Legal, Rates and Regulatory Affairs, Information Technology, Business Development, Performance & Management, Communications, and Energy Policy. The steering committee's primary purpose is to:

- Define strategies and provide governance over initiatives relating to energy efficiency (EE)/demand response (DR), and smart grid;
- Assure initiatives support corporate objectives integrating customer solutions with operational efficiencies; and
- Assure optimum deployment of EE/DR and smart grid resources for managing load growth in the FirstEnergy service territory.

To provide cross-functional support and coordination, the Company has also formed an Energy Efficiency Committee, comprised of mid-management level representatives from similar organizational elements. This group's primary responsibilities include:

- Providing direction, coordination and cross-functional support, and
- Assuring program milestones and requirements are on target.

Recognizing that FirstEnergy's seven utility companies, spanning Pennsylvania, New Jersey, and Ohio, are all undertaking new Energy Efficiency and Peak Demand Reduction initiatives to comply with state mandates passed in 2008, these committees will also help to promote consistency, where appropriate, and leverage best practices across the FirstEnergy system. Both committees also provide direction on Smart Meter and Renewable activities. Due to the developing nature of all of these initiatives, the committees meet monthly with subcommittees meeting on an *ad hoc* basis as specific issues arise.

The organization entrusted with implementation of the EE&C Plan is the Customer Service and Energy Efficiency Group, which reports to the President, FE Utilities, and has a working relationship with the President of Pennsylvania operations. This group also has responsibility for similar activities for FirstEnergy's Ohio and New Jersey utilities.

The organization chart below depicts the EE&C Plan management team and their primary areas of responsibility. The Energy Efficiency Program Design and Deployment Department is organized based on program management responsibilities across customer classes. Key activities include planning and executing marketing campaigns, acquiring and managing implementation contractors, and ensuring quality control and assurance over programs. The Energy Efficiency Compliance and Performance Department is organized based on support functions that are common to all programs such as measurement and verification, tracking and reporting, communication and education, budgeting and financial management, and other administrative support.

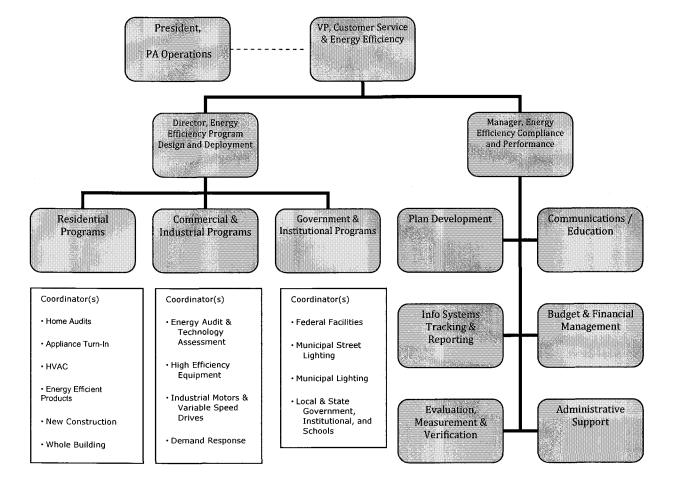


Figure 6: Organization Chart

The above group also receives dedicated support from such areas as Rates and Regulatory Affairs, Legal, Human Services, Communications, and Business Analytics.

In addition to the group described above, the Company recently hired Black & Veatch, an industry recognized expert in the area of Energy Efficiency, to conduct market research, develop the Market Potential Study, assist in the design of cost effective energy efficiency and peak demand reduction programs, assist in the development of the overall Energy Efficiency & Conservation portfolio, and provide input on the development of the EE&C management plan and measurement and verification protocols for the Company. As part of the implementation plan, the Company will outsource program management to the extent practical, using CSPs for program implementation and management. This allows resources to be more effectively used by providing the CSPs with the flexibility necessary to shift resources from one client to another to handle shifting work loads. The Company's EE&C organization, including program managers, marketing, technical and analytical personnel, will provide guidance and oversight to help ensure quality and cost effective management of the vendors. FirstEnergy's EE&C organization's experience across its seven utility operating companies in Pennsylvania, Ohio and New Jersey, coupled with the CSPs' industry expertise, will enable the Company to leverage best practices, thus providing a greater likelihood of program success and minimizing missteps as typically found with new program development. The Company also intends to establish work processes which focus on efficient program delivery such as business process mapping and regular reviews to seek program delivery efficiency improvements. Finally, the Company plans to regularly report program

savings, expenses, participation levels, and milestones, as necessary, to the Commission and FirstEnergy management.

4.2.2. Describe approach to overseeing the performance of sub-contractors and implementers of programs and how they can be managed to achieve results, within budget, and ensure customer satisfaction.

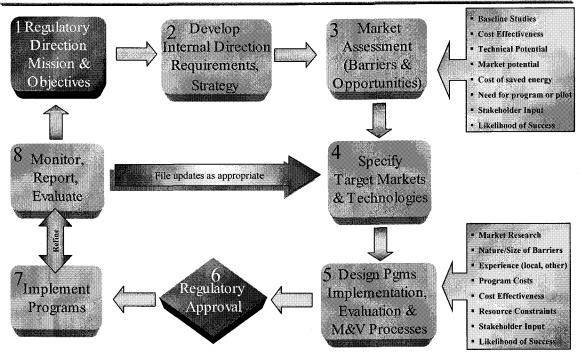
The Company will provide high-level administrative, contract management, program design and marketing oversight of the selected CSPs primarily through the Customer Service and Energy Efficiency Department staff who will be dedicated for this purpose. Not only will such monitoring be accomplished through the use of the tracking and reporting system described in Section 5, but this dedicated staff will also provide:

- High-level guidance and direction to the implementation contractors, including review and revision of proposed annual implementation plans and proposed milestones, and, additionally, engage with the contractor team on a daily basis when working through strategy and policy issues.
- Review and approval of implementation contractor invoices and ensure program activities are within investment and on schedule.
- Review of implementation contractor operational databases for accuracy, ensuring incorporation of data into the companies' comprehensive portfolio tracking database to be used for overall tracking and regulatory reporting.
- Review of measure saving estimates maintained by the implementation contractor.
- Oversight and coordination of evaluation, measurement, and verification contractors.
- Public education and outreach to community groups, trade allies and trade associations.
- Provide guidance and direction on new initiatives or strategies proposed by the implementation contractors.
- Communicate to implementation contractors other initiatives that may provide opportunities for cross-program promotion.
- Review and approve printed materials and advertising plans.
- Evaluate portfolio and program effectiveness and recommend modifications to programs and approach as needed.
- Perform periodic review of program metrics, conduct investment analysis, and review evolving program design.

In addition to the comprehensive oversight activities described above, the Company will follow the overall planning, implementation, monitoring and evaluation framework identified below to help guide our programs and contractors.

Figure 7: High Level Overview of M&V

High Level Overview of EE / DR Plan Development, Implementation, Monitoring and Evaluation Processes



The Company believes that this framework will help ensure the success of its efforts to achieve the targets established by Act 129 in an efficient and cost-effective manner. Of significance, is the need to remain agile and flexible to make adjustments to program details, improve staff knowledge and effectiveness, and change course when conditions and opportunities warrant.

4.2.3. Describe basis for administrative budget.

The utility administrative budget consists of both indirect and direct program costs. Indirect program costs are the portion of administrative start-up costs currently incurred in connection with the development of the Company's EE&C Programs in accordance with Act 129 and the Commission's Orders and guidance at Docket No. M-2008-2069887, and are included in the cost recovery mechanism. These costs to design, create, and obtain Commission approval for the Company's programs include: consultant costs, legal fees, and other direct and indirect costs associated with the development and implementation of the EE&C Plan and programs in compliance with Commission directives.

The annual direct program budgets by year are presented by measure and by program in Appendix D 1-<u>65</u>. The budgeting process for the utility costs, customer incentive costs, retail incentive costs and service provider costs were done using a bottom-up approach utilizing cost information from various sources, which include: the California Database for Energy Efficient Resources (DEER), DSMore Michigan Database, Energy Star Website and RFI survey data. Further, the incentives were estimated based on penetration estimates, estimates of payback timing, and the adherence to state-wide program information when available. For modeling purposes, common costs were allocated across measures. For program reporting, costs that

cannot be directly be charged to the Company and programs will be allocated across the rate classes served programs using the budgets presented in Appendix D-6.

The yearly budgets presented in Appendix D are broken down into the 113-126 individual measures. The total budget costs are derived from per unit estimates at this measure level. These per unit costs are presented as Appendix D-5 by measure and in Appendix D-6 by program. The individual per unit costs take into account the delivery system of each measure, whether it is a mail-in rebate, in-store rebate or through a service provider. The annual total direct utility budget is calculated by simply multiplying the per unit costs in Appendix D-5 by the assumed participation levels shown in Appendix F (Participation Levels) and then totaling all the measures.

The measures in Appendix D are labeled with the Program Name <u>withfor</u> which they are associated. The program budgets are calculated by totaling the individual measures by the Program Name.

The measures in Appendix D are also labeled with the Rate Class name for which they are associated. The rate class budgets are calculated by totaling the individual measures by the Rate Class name.

The total utility administrative budget consists of both the direct measure costs shown in Appendix D and the indirect measure costs shown in PUC Table 6B presented later in this report.

4.3. Conservation Service Providers (CSPs):

4.3.1. List any selected CSPs, describe their qualifications and basis for selection (include contracts in Appendix).

In accordance with Act 129 and the Commission's Implementation Order, FirstEnergy hired Black & Veatch as lead consultant supporting development of all of the Companies' EE&C Plans. FirstEnergy used a PUC Staff approved competitive request for proposal ("RFP") to support the CSP selection process and to select a consultant who would assist in designing a portfolio of programs and provide original ideas. The RFP sought recommendations on the programs that should be proposed and did not limit the scope of suggestions. Black & Veatch was selected to help the Company develop the plan and the portfolio of programs. Black & Veatch is a leading global engineering, consulting and construction company with the mission of Building a World of Difference®. Black & Veatch provides their clients with reliable solutions to their most complex challenges. Founded in 1915, Black & Veatch specializes in infrastructure development in energy, water, telecommunications, federal initiatives, management consulting and environmental markets. They offer leading experience in the market segments they serve, understanding their clients' businesses and objectives, and having the financial resources sufficient to execute and sustain projects from the most basic to the very complex. Black & Veatch's experienced dedicated professionals have the technical expertise necessary to meet the Company's objectives. Black & Veatch is an employee-owned company with more than 100 offices worldwide. Black & Veatch is ranked on the Forbes "500 Largest Private Companies in the United States" listing.

On February 3, 2009, FirstEnergy filed its proposed RFP process and related documents for the purpose of contracting with CSP(s) in accordance with the Implementation Order. FirstEnergy submitted the following documents:

- Overview of the CSP competitive bidding process
- RFP process for EE&C consulting services along with exhibits
- Sample bidder evaluation matrix
- Standard form CSP contract

The Commission issued two Secretarial Letters. The first letter, dated March 18, 2009 (Docket No. A-2009-2092222), approved the RFP process as filed. The second letter, dated April 27, 2009 (Docket No. A-2009-2092222), acknowledged that the Commission staff reviewed and approved the revised standard form CSP contract as filed. Commission staff review will be requested for any future CSP contracts that are materially different in form from the standard contract.

4.3.2. Describe the work and measures being performed by CSPs

Program Implementation Management Contractor - the Company will contract with one or more Program Manager CSPs to implement the portfolio of programs. The Program Manager(s) will be responsible for the start-up and ongoing management of new programs including staffing, development of website(s), promotional strategies, and processes ensuring quality and other controls supporting successful program implementation. The start-up phase should include communication and coordination with Company start-up processes, to present straightforward processes for customers or allies that wish to participate in the programs, maximize process efficiency and controls, as well as leverage Company relationships and communications with customers. The start-up period must be completed within ninety (90) days of the awarding of the contract.

The start-up phase will be performed in an organized and efficient manner. The contractor will be contractually obligated to strive to maintain and strengthen constructive relationships with the Company program management staff, customers, trade allies, contractors and other energy program partners.

During program set-up and for the duration of the program, the Program Manager(s) will meet with the Company, its consultant, tracking system contractors and the State Evaluator as necessary and appropriate.

Some fast track programs will launch immediately while other programs will launch when ready and agreed upon by the Company and Program Manager(s).

Program Manager(s) will submit a start-up plan with their bid proposal. It is anticipated that the start up plan submitted could be modified at the initial implementation meeting. The plan will include, at a minimum:

- a. Organization chart and description of management roles and responsibilities;
- b. Description of and dates of program launch milestones;
- c. Description of a plan for use of any subcontractors;
- d. Plan to detail specific communications strategy; and
- e. Plan to facilitate or support program tracking systems and reporting.

The Program Managers will support consumer education initiatives as a vital objective for the EE&C Plan. CSPs will provide consumer education and marketing that informs customers about available programs and how participation in such programs may allow them to better manage their energy costs.

The Company will host or contract for website services, linked through the Company's public internet domain, www.firstenergycorp.com. Although FirstEnergy personnel will manage the overall content on the website, the CSPs will be responsible for generally managing their section of the site and updating it as necessary. Customers will be able to obtain information, contact the CSP, download program literature and application forms, or complete on-line forms and applications through the website.

Work to be performed by the Program Managers includes:

- Program Set Up Immediately following contract award and the kick-off meeting(s) as set forth below, the Company and Program Manager(s) will work together to modify the Start-up Plan submitted with the successful bidders' bid proposals to develop the systems and procedures needed to operate the energy efficiency programs;
- Determining the required information transfers between the Program Manager(s) the Company and the Company's other energy efficiency or tracking system contractors;
- Creating, installing, testing and maintaining necessary data collection systems for program operation and evaluation;
- Establishing contact center processes, including one for the transfer of calls that the Company may receive through its call center, as well as a toll-free number that is properly staffed;
- Managing, advertising and marketing activities by the Company and CSP to promote its programs including:
 - Telemarketing, sales training, participation in and sponsorship of program/industry seminars and trade shows;
 - Special promotional "events" to encourage sales of high efficiency products, and/or retirement of less efficient equipment (e.g. Torchiere lamps) through "buy down" first cost and/or promotion of eligible equipment to customers;
 - Bill inserts, local newspaper ads, radio spots, direct mail, point-of-sale displays at retailers, FirstEnergy's website and on-line store. Retailers and manufacturers will also be involved in cross-promoting product offers in conjunction with national campaigns like Earth Day and ENERGY STAR[®] Change a Light, Change the World programs;
- Developing rebate application forms, and detailed processes for managing rebate/incentive applications, rebate/incentive payment processes, reporting procedures, data collection and data recording processes, internal billing and related documentation to be sent to the Company for processing;
- Performing energy savings calculations, collecting data and maintaining auditable records required to support program reporting, measurement and verification consistent with the TRM;
- Developing electronic payment between the Company and the Program Manager(s);
- Planning for development and launching promotional strategies, including creation of a website;
- Creating a check processing system (if deemed appropriate);
- Ensuring all other preparations needed before the programs are launched;
- Performing quality assurance and verification inspections;
- Conducting outreach, training, certification management, and coordination with trade allies;
- Performing outreach, communications, training and development of participation agreements with retailers and manufacturers for the Energy Efficient Products program, as appropriate;
- If applicable, performing energy audits; and
- Managing fulfillment of all requests for services or energy efficient products offered through the programs.

4.3.3. Describe any pending RFPs to be issued for additional CSPs.

It is anticipated that joint RFPs will be issued for CSPs to support implementation of programs, including but not limited to the following:

- 1. Residential sector program manager(s);
- 2. Residential on-line audit program;
- 3. Commercial and Industrial sector program manager(s) (includes governmental sector as well);

- 4. Appliance recycling; and,
- 5. Tracking/Reporting system; and,
- 6. EM&V services.

Actual contracts will be based on accepted proposals in response to Company solicitations and, when necessary, the Company will seek appropriate Commission approval.

5. Reporting and Tracking Systems

5.1. Reporting:

As more fully discussed in Section 5.2, the Company is in the process of assessing potential reporting and tracking systems. Regardless of the system ultimately selected, it will have the ability to monitor the progress of the various programs being offered. Reports will be provided as required by the Commission. The company expects to have such a system in place by November 1, 2009.

5.1.1. List reports that would be provided to the Commission, the schedule for their delivery, and the intended contents.

Standard reports will be provided as necessary and required. The format and content will be consistent with that defined by the Commission. The Company currently anticipates that such reports will include at a minimum:

- The number of customer applications;
- Annualized rebates by program, utility, and operating company;
- Installed measures summary;
- Annualized impacts summary by measure type and by program;
- Program participation overview;
- Impacts versus goals; and
- Rebates versus budget.

Additionally the system will have the ability to perform ad-hoc reporting through a user friendly report writing tool, and more complex queries to be performed by system administrators. Dashboards, and other reporting tools will be used to monitor program performance on an on-going basis.

5.1.2. Describe data that would be available (including format and time frame of availability) for Commission review and audit.

As indicated in Section 5.1.1, the system will have the ability to provide reports as required by the Commission. A corporate Tracking and Reporting System will be implemented that will be able to provide the necessary reports and tracking tools across the FirstEnergy system.

As part of the EE&C plan, a model has been created that projects the amount of energy savings and demand reduction to be derived from the implementation of each measure. The model will be used to compare actual to projected energy savings and demand reduction goals. The Company is currently evaluating several "off-the-shelf" DSM tracking computer packages to track the EE&C savings arising from the various programs.

5.2. Project Management Tracking Systems:

5.2.1. Provide brief overview of the data tracking system for managing and reporting measure, project, program and portfolio activities, status and performance as well as EDC and CSP performance and expenditures.

The Company intends to utilize a comprehensive system to report and track activities and results associated with EE&C programs across the FirstEnergy system. The reporting and tracking system will have the ability to track a customer through program-specific milestones. The system will provide standard status reports for individual participants and overall programs. The system will be configured to provide any required reports for varying jurisdictions and service territories. On May 15, 2009, the Company issued a Request for Information ("RFI") to ten potential bidders, receiving a response from seven. The purpose of the RFI was to gather information on available "packaged" applications already in the marketplace and to validate the list of potential suppliers. Prior to issuing the RFI, the selection team held meetings to develop the functional requirements for such a tracking and reporting system. Upon completion of the evaluation of the RFI responses and the additional information gathered from the industry, this team will-developed a Request for Proposal ("RFP") with more defined requirements, and solicited proposals from the list of CSPs registered in the Commonwealth. The Company is currently evaluating proposals received from nine (9) suppliers-who ean provide a cost effective solution that can best meet the Company's needs.

5.2.2. Describe the software format, data exchange format, and database structure you will use for tracking participant and savings data. Provide examples of data fields captured.

The reporting and tracking system will be web-based, allowing for access from any internet connection. It will interface with existing systems wherever necessary to gather data, to insure data integrity and minimize duplicate data entry. The system will enable vendors to upload key metrics on a weekly or monthly basis. Not only will this reduce paperwork, but it should help maintain quality control over data entry and allow for quick status checks on, among other things, goal attainment and budget to actual costs. The selection team will recommend the structure of such a system. At present, the Company is currently considering data fields such as:

- Customer name;
- Customer contact info (address, e-mail, phone);
- Customer type;
- Customer ID number;
- Account number;
- Premise number;
- Project/Program name;
- Contractor/Retailer;
- Measure;
- Costs;
- Service address;
- Job status;
- Completion date;
- NAICS;
- Heating system type;

- Square footage;
- kWh savings;
- Incentive;
- Enrollment method;
- Transaction results;
- Channel used;
- Measures recommended; and
- Measures implemented;
- Type of appliance or equipment being replaced for fuel switching;
- Availability of natural gas at the customer's location or immediate area; and,
- Whether electric appliances or equipment were installed in areas where natural gas is available.

5.2.3. Describe access and mechanism for access for Commission and statewide EE&C Plan Evaluator.

The reporting and tracking system will be web based, thus requiring an internet connection for access. The system will be designed to allow for varying levels of security-controlled access by Company staff, program contractors, trade allies, customers, and system administrators. Access for others, such as Commission staff and the state-wide EE&C Plan Evaluator, will be provided as required. Access to an internet connection would be necessary because the application would be web-based.

6. Quality Assurance and Evaluation, Measurement and Verification

6.1 Quality Assurance/Quality Control:

The Company is committed to designing and implementing robust processes, organizations and systems to achieve the energy savings and demand reduction goals established by Act 129. The Company plans to use a two-fold approach to ensure the quality of its EE&C program during the design and implementation phases:

- Developing processes to clearly detail the steps to document and verify installation of measures to meet EE&C goals while complying with applicable tracking and reporting requirements; and
- Devising and implementing control points at various stages of these processes to establish and maintain quality.

The Quality Assurance/Quality Control program will be implemented by requiring selected CSPs to document processes and retain appropriate records. The Company will retain EM&V contractor(s), as well as internal auditors, who will audit and verify those records. This will be in addition to any requirements of the PUC's statewide evaluation contractor acting in its oversight role.

6.1.1 Describe overall approach to quality assurance and quality control.

The following are examples of specific steps that the Company is taking toward quality assurance and quality control during the design phase of its EE&C program:

- Administering customer surveys and using the results to design or select EE&C measures;
- Validating EE&C program assumptions with stakeholders;
- Using adequately qualified and experienced personnel, including contactors, to assist with the design and implementation of EE&C programs;
- Selecting EE&C measures compliant with the requirements of the Technical Reference Manual (TRM) of May 2009;
- Using proven approaches to reach both the energy savings and demand reduction targets set for each of the FirstEnergy Companies;
- Communicating frequently and effectively with stakeholders on EE&C program design and objectives; and
- Verifying periodically and systematically that established EE&C program design procedures and approaches are being followed.

During the implementation phase of the EE&C Plan, the Company intends to acquire selected program managers (or CSPs) to present processes that accurately document and verify data used to support energy savings and peak load reductions – all of which will be subject to audit and review by the PUC's evaluation contractor. The Company will perform, directly or through contract auditors, its own quality assurance processes, including audits of CSP systems, in order to ensure the accuracy and reliability of the reported data and savings. Such audits will have the following key characteristics:

- Both deemed and custom measures will be included in the audit universe;
- The sample size may cover a subset or the entire population for a particular measure;
- The frequency and sample size of these audits will vary based on the significance of any findings; and
- The control points will target specific risks associated with the design or implementation of EE&C measures.

6.1.2 Describe procedures for measure and project installation verification, quality assurance and control, and savings documentation.

The procedures intended to be use for measure and project installation, verification, quality assurance and control, and savings documentation are described below.

During the pre-installation phase, verification will occur to ensure that equipment such as lighting or motors that are to be replaced with more energy efficient ones are operational on the customer's premises. Such equipment will be checked to ensure that it meets any TRM and other applicable requirements. Samples of installed pieces of equipment will be audited as part of the quality assurance and control process.

For custom and large installations where considerable investment or large savings are anticipated, the Company will work with the PUC's evaluation contractor and PUC staff, as appropriate, to review the algorithms proposed by customers or trade allies to calculate energy savings and demand reductions from implementing custom EE&C measures. These reviews will support the accuracy and acceptance of the calculations that will be required to comply with the May 2009 TRM, as amended from time to time. In certain instances, more detailed procedures on designing and implementing specific measures may also be necessary.

While measures addressed in the Plan are found to be cost effective, determining the cost-effectiveness of custom applications is also a part of the pre-installation process for custom applications. For example, the Company will verify whether the cost of a saved kWh is cost effective. A similar check will be performed with respect to any demand reduction to be derived from a particular measure.

With respect to savings documentation, periodic surveys will be conducted to verify the installation and continued use of measures as required. Installation of additional measures not rebated will be identified, as well as behavioral changes that may affect outcomes. For large and/or custom installations, site verification visits will be conducted for a sample of participants to verify the presence and proper installation of equipment.

As part of the EE&C Plan, the Company will track, report and project the amount of energy savings and demand reduction to be derived from the implementation of measures. The model will be used to compare actual energy savings and demand reductions calculated in accordance with the TRM with program goals. The Company has already performed an RFI, and is reviewing several off-the-shelf DSM tracking computer packages which will be secured using the approved RFP process.

6.1.3 Describe process for collecting and addressing participating customer, contractor and trade ally feedback (e.g., suggestions and complaints).

During the design phase of the programs, the Company sought and obtained feedback on proposed EE&C programs from customers, contractors, trade allies and other stakeholders through a variety of methods. Representatives from all customer segments were surveyed or interviewed to obtain their input into EE&C program design. CSPs were surveyed with respect to their capabilities to help the Company achieve the mandated EE&C targets. Stakeholder meetings on different aspects of the EE&C program design were also held. To the extent possible, responses from these stakeholders have been factored in to the various program designs.

During the implementation phase of the EE&C plan, the Company hopes to gain additional direct input from various sources, including CSPs that bid to perform program management and implementation services, stakeholders and other EDCs for relevant developments, the PUC and the PUC's evaluation contractor for

insights into the evolution of the process. Customers will be surveyed to measure satisfaction with the programs and related services, and the efficiency of the EE&C measures being implemented. Further, the Company is currently investigating the creation of a hot line to register and resolve program and measurement complaints and suggestions from customers, and intends to continue to participate in EE&C working groups as well as internal monitoring efforts at the local, state and federal level.

6.2 Describe any planned market and process evaluations and how results will be used to improve programs.

The Company intends to retain an EM&V contractor to conduct process evaluations on each program within 6 months to one year of launch in order to identify issues that may require mid-course correction, gauge progress toward goals and measure customer, trade ally and vendor satisfaction with various program features. As part of responsible program management, the Company will require its CSPs or vendors to incorporate periodic customer satisfaction surveys (post card type or calls) to a random sample of participants on a quarterly or monthly basis. The testing of market pricing of products and other factors that might affect program implementation through market research will occur, particularly to test those measures that represent significant parts of the Plan. A periodic review of new technologies or innovations being adopted around the country or the world will also be conducted. This will include systematic research on EE&C development as well as benchmarking currently utilized EE&C processes against those of other utilities.

The results of these monitoring activities will be factored into existing EE&C programs in a variety of ways including the following:

- Mid-course corrections to address issues identified in the process evaluations;
- Adoption of lessons learned or leading practices from our benchmarking efforts;
- Identifying and mitigating risks associated with new EE&C measures; and
- Taking corrective actions to ensure that EE&C objectives are being reached.

6.3 Describe strategy for coordinating with the statewide EE&C Plan Evaluator (nature and type of data will be provided in a separate Commission Order).

The Company will comply with the requirements of the EE&C Plan evaluator. Contracts with delivery vendors will require them to provide data upon request to support any evaluations, as well as develop new "custom measure" protocols for appropriate approvals and possible additions to the TRM. Specifically, the Company will link its EE&C savings aggregate to statewide projects by:

- Determining requirements for coordinating EE&C programs energy/demand savings and cost/benefit data with statewide data base;
- Obtaining data transmission protocols and access requirements for exchanging EE&C program data with the state;
- Testing to verify that data integrity is maintained through linkage with statewide EE&C data base(s); and
- Validating and finalizing linkage protocols, procedures and processes.

At the completion of the above tasks, the Company expects to have developed or selected processes, technology and personnel for linking its EE&C program data with the statewide data base(s). Cooperating with and supporting the EE&C Statewide Evaluator, up to and including annual audits of the Company's reports, will ensure compliance with Commission directives. In addition, the Company will continue to work with the EE&C Statewide Evaluator to review the assumptions regarding penetration rates, rebate levels, and free ridership associated with compact fluorescent lamp ("CFL") programs. The Company will provide an

updated TRC analysis as part of the annual reporting process. These annual TRC analyses will facilitate appropriate Plan modifications in a timely manner.

7. Cost-Recovery Mechanism

7.1 Provide the amount of total annual revenues as of December 31, 2006, and provide a calculation of the total allowable EE&C costs based on 2% of that annual revenue amount.

December 31, 2006 Revenue divided by T	welve Months
Monthly 2006 Revenue	\$1,914,562
Dollars Available Total	Penelec
Total All Customers (4 $\underline{83}$ mo budget)	\$ <u>91</u> 82, <u>898</u> 236, <u>968</u> 159

Penelec Table 6 – Allowable EE&C Revenue Calculation

7.2 Description of plan in accordance with 66 Pa. C.S. §§ 1307 and 2806.1 to fund the energy efficiency and conservation measures, to include administrative costs.

See Section 4.2.3 for the budgeting process use to identify the funding for the energy efficiency and conservation measures. See Section 7.4 for a complete description of the cost recovery plan. Included within the cost recovery mechanism is an allocated portion of administrative start-up costs currently incurred by the Company in connection with the development of the Company's EE&C Programs in response to the Commission's orders and guidance at Docket No. M-2008-2069887. These costs to design, create, and obtain Commission approval for the Company's EE&C Programs include consultant costs, outside legal fees, and other direct and indirect costs associated with the development and implementation of the Company's EE&C Programs in compliance with Commission directives.

7.3 Provide data tables (see PUC Tables 6A, 6B and 6C).

The following PUC Table 6A presents, in summary form, the results of the direct program budget process by class, referred to in Section 4.2.3. PUC Table 6A presents utility costs that were individually calculated by program based on the level of effort required due to program participation.

PUC Table 6B presents, in summary form, the indirect program start-up costs, outside legal fees and consultant fees by class. PUC Table 6C presents the sum of both PUC Tables 6A and 6B. PUC Table 6B provides the details of general non-program specific costs and allocates them into the three rate categories: Residential, Small Commercial and Industrial, and Large Commercial and Industrial.

The allocation of costs for consultant costs, employee expenses, M&V tracking system and outside legal fees are allocated using the results of the detailed budgeting process shown in Appendix D and presented in summary form PUC Table 6A. Audit Tool costs are only assigned to Residential customers since the system will be designed primarily for use by the Residential class.

Residential	Portfolio (inclu	ding Low-Incon	ne)
		Cost Elements (\$)	
EE&C Program	Total Incentives	Operations Costs	Total Budget (2010-2013)
Demand Reduction	6,066,480	6,095,210	12,161,690
Home Energy Audits	5,461,463	1,466,587	6,928,051
Appliance Turn-In	1,463,641	4,203,131	5,666,772
EE HVAC & Solar	1,976,106	437,594	2,413,699
EE Products	6,142,131	2,329,929	8,472,060
New Construction	3,998,750	1,181,094	5,179,844
Whole Building Comprehensive	1,807,850	210,728	2,018,578
Multiple Family	121,529	39,393	160,922
Warm Plus	3,639,078	1,271,908	4,910,986
Totals	30,677,028	17,235,572	47,912,600

PUC Table 6A: Portfolio-Specific Assignment of EE&C Costs	1
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Sm	all Commercial	& Industrial	
EE&C Program		Cost Elements (\$)	
Line riggi an	Total Incentives	Operations Costs	Total Budget (2010-2013)
Energy Audit	529,700	220,527	750,227
Equipment Rebates	8,632,202	1,934,008	10,566,209
Totals	9,161,901	2,154,535	11,316,436

Larg	e Commercial	& Industrial	
		Cost Elements (\$)	
EE&C Program	Total Incentives	Operations Costs	Total Budget (2010- 2013)
Equipment Rebates	3,910,105	627,070	4,537,175
Industrial Motors and VSD	580,320	121,811	702,131
PJM Demand Response	3,160,000		3,160,000
Totals	7,650,425	748,881	8,399,306

Gover	nmental/Non-	Profit	
		Cost Elements (\$)	
EE&C Program	Total Incentives	Operations Costs	Total Budget (2010-2013)
Street Lighting	713,850	2,048,725	2,762,575
GS/Public Service, MS	270,129	77,180	347,309
Multiple Family	212,676	71,598	284,273
Governmental & Institutional	3,247,182	721,269	3,968,451
Totals	4,443,836	2,918,773	7,362,609

Energy Efficiency and Conservation Plan Cost Recovery Mechanism

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	Governmental/ Non-profit	\$12,288	\$0	\$31,374	\$114,424	\$2,179
or	Commercial/ Industrial Large	\$39,562	80	\$101,010	\$368,396	\$7,015
: Customer Sect	Commercial/ Industrial Small	\$55,144	\$0	\$140,793	\$513,489	\$9,777
ts to Applicable	Residential (Including Low-Income)	\$189,317	\$147,105	\$483,362	\$1,762,875	\$33,567
Table 6B: Allocation of Common Costs to Applicable Customer Sector	Basis for Cost Allocation	Sum of Appendix D 1-4 Lines 149- 152 Totals	Residential	Sum of Appendix D 1-4 Lines 149- 152 Totals	Sum of Appendix D 1-4 Lines 149- 152 Totals	Sum of Appendix D 1-4 Lines 149-
le 6B: Allocati	Total Cost (S)	\$296,312	\$147,105	\$756,540	\$2,759,184	\$52,538
Tabl	Common Cost Element	Consultant Costs and Employee Expenses for Plan Development	Online Audit Tool Costs	Measurement and Verification Tracking and Reporting Software	Enhanced Measurement and Verification Requirements	External Legal Fees

\$160,264

\$515,984

\$719,204

\$2,616,227

152 Totals

\$4,011,679

Totals

Portfolio	Total Sector Portfolio- specific Costs	Total Common Costs	Total of All Costs
Residential (Including Low-Income)	\$47,912,600	\$2,616,227	\$50,528,827
Commercial/Industrial Small	\$13,955,948	\$719,204	\$14,675,152
Commercial/Industrial Large	\$10,012,518	\$515,984	\$10,528,502
Governmental/Non-profit	\$3,109,885	\$160,264	\$3,270,149
Totals	\$74,990,951	\$4,011,679	\$79,002,630

Table 6C: Summary of Portfolio EE&C Costs

7.4 Provide and describe tariffs and a Section 1307 cost recovery mechanism. Provide all calculations and supporting cost documentation.

Consistent with Act 129, the Company's tariff will contain a Section 1307 cost recovery mechanism for the recovery of energy efficiency and conservation program costs. Under the Company's proposal, the EEC-C rates requested in this proceeding would remain in effect for the duration of the EE&C Program. However, upon determination that the EEC-C rates would result in material over or under-collections of recoverable costs incurred or expected to be incurred during the program period (July November-1, 2009 through May 31, 2013), the Company may request that the Commission approve interim revisions to the EEC-C rates to be effective thirty days from the date of filing. An interim change in the EEC-C rates may address a reallocation of program expenses between customer classes.

The Company is submitting the following as Appendix H:

- 1. A<u>n</u>-pro-forma Energy Efficiency and Conservation Charge Rider ("EEC-C Rider"). Pages $\underline{32}$ and $\underline{43}$ set forth the formula and description for calculating the EEC-C rates.
- 2. The calculation of EEC-C rates (shown on page <u>65</u> of Appendix H) based on the Company's <u>ModifiedRevised</u> Plan filed <u>December 2September</u> 21, 2009.

The filing includes the Upon final Commission approval of the Company's Revised Plan, the Company's will make a tariff compliance filing with final EEC-C rates. In response to the Commission's Order, the Company has added two additional cost recovery groups for NNon-PProfit and SStreet HLighting rate schedules. Penelec's NNon-PProfit customer class includes Rate GS – Volunteer Fire Company, and Non-Profit Ambulance Service, Rescue Squad and Senior Center Service Rate and Rate H. Penelec's Street Lighting rate class includes High Pressure Sodium Vapor Street Lighting Service and Municipal Street Lighting Service.

The EEC-C rates are expressed as a price per kilowatt-hour ("kWh"), except for the industrial customer class that is expressed on a kilowatt ("kW") basis using customer PLC, and will be billed on that basis over the duration of the EE&C Plan (February November 1, 201009 through May 31, 2013). The EEC-C rates will be calculated and stated separately for the residential, commercial, non-profit, street lighting, and industrial customer classes are identified on pages 1 and 2 of the rider.

The EEC-C rates to be billed to the residential, commercial, <u>non-profit</u>, <u>street lighting</u>, and industrial classes will consist of two principal components. The first is the EECC or "current cost" component, while the second is the reconciliation component, or "E" factor.

The EECC component represents the recovery of costs to be incurred during the 403-month period ending May 31, 2013 or "Computational Period" that the EEC-C rates will be in effect for each customer class. As shown on pages 2-3 and 3-4 of the rider, the EECC component is customer class specific. The costs to be included in development of each customer class' EEC-C rate are identified in the rider. EEC_{Exp1} represents customer class specific costs incurred through the customer class specific EEC Programs as approved by the Commission. These costs will also include an allocated portion of any indirect costs incurred through all of EEC_{Exp2} represents an allocated portion of administrative start-up costs the Company's EE&C Programs. currently incurred by the Company in connection with the development of each Company's EEC Programs in response to the Commission's orders and guidance at Docket No. M-2008-2069887. The start up costs were incurred to design the programs and create the plan and to assist in the preparation of this filing and include consulting costs, outside legal fees, and other direct and indirect costs associated with the development and initial steps to implement the Plan as approved. EEC_{Exp2} costs will be amortized over the $\frac{47}{47}$ -month period starting FebruaryNovember 1, 201009 and ending May 31, 2010. Interest will accrue monthly on the average of the beginning and ending of the month balances of these costs as they are incurred by the Company and included in the determination of the monthly amortized amount. The interest will be computed at the legal rate determined pursuant to 41 P.S. §202.

All Plan costs (net-of-tax) and revenues included in the Company's EE&C revenues will be excluded from distribution base rate treatment and subject to Commission review and audit. To the extent that the Company is reimbursed through the EEC-C Rider for Company-owned property, it will be treated as a contribution-in-aid-of-construction resulting in a net-of-tax reduction in amounts capitalized for those assets. As a result, these costs will be excluded from rate base in determining future distribution base rate case revenue requirements.

7.5 Describe how the cost recovery mechanism will ensure that measures approved are financed by the same customer class that will receive the direct energy and conservation benefits

Consistent with the Implementation Order and Act 129, the Company's proposed EEC-C Riders will permit it to bill annual, levelized ECC-C rates on a per kWh <u>or kW</u>, as applicable basis to all residential, commercial, <u>non-profit</u>, <u>street lighting</u>, and industrial customers. The rates will be calculated specifically for each customer class to recover the Company's EE&C Plan costs approved by the Commission in this proceeding and in compliance with 66 C.S. § 1307. Coupled with the reconciliation provisions by customer class included in the Company's proposed EEC-C Rider, the EEC-C rates will provide full, equitable and timely cost recovery of actual EE&C Program costs incurred by each Company for each customer class' available EE&C Programs as approved by the Commission in this proceeding.

8. Cost Effectiveness

8.1. Explain and demonstrate how the proposed plan will be cost effective as defined by the Total Resource Cost Test (TRC) specified by the Commission.

The EE&C plan is based upon the requirements and guidance of the Total Resource Cost Test Manual (May 28, 2009), with some minor changes that were requested during the comment period. Notable changes were the use of a marginal transmission and distribution costs instead of the full transmission and distribution rates. As stated in the FirstEnergy Companies' Comments to the draft TRC test order, dated June 5, 2009, the Companies acknowledged that they would not have the ability to address changes at this late date but would review the final TRC Order and, if necessary, make any necessary changes in a filing by August 1, 2009.

The TRC method utilized by the Company takes into account the combined effects of the EE&C Plan on both participating and non-participating customers. The sum of costs incurred by both the Company and any participating customers was used to calculate the costs. The benefits calculated in the TRC test include the avoided supply costs, including generation, transmission and distribution capacity costs valued at marginal cost, and the avoided energy supply costs calculated using the Commission requested third stage approach.

On the benefits side the approach requires during the first five-year period that the avoided energy costs be calculated using the wholesale electric generation prices as reflected in the NYMEX PJM futures price, to reflect both on- and off-peak prices on a 50% on- and 50% off-peak basis. FirstEnergy assumes the 5 years as 2009 through 2013 as PJM West Hub forward contracts are not yet traded beyond 2013, and the 2009 data reflects actual settlement prices through May 22 and forward contracts thereafter. FirstEnergy chose a forward market data point of May 22, 2009, and applied an exponentially weighted moving average (EMA) method to the forward data to normalize for daily volatility. The EMA provides a balance between transmitting changes in market expectations as reflected by futures prices while dampening any possible influence of illiquidity (10 days of trades provides more available observations) and large swings due to few traders moving the market.

The Commission approach called for in the second five-year period has the avoided energy costs calculated using the NYMEX natural gas futures price. The natural gas futures price was then converted into an estimated wholesale energy price through the use of a standard spark spread calculation. The PJM West Hub price was derived based on the forward market price at Henry Hub and the relationship between PJM West Hub Power and Henry Hub Natural gas forwards in 2013. Specifically, heat rates for the Spark Spread calculation are based on the annual on peak and off peak forward market implied heat rate for 2013 (Off Peak On Peak) similar to the first 5 year period, this calculation used the natural gas forward market observation date of May 22, 2009 utilizing an averaging method to normalize for daily volatility.

The Commission approach in the third five-year period requires that the avoided energy costs use the EIA Annual Energy Outlook. The prices during this timeframe are based on the US Department of Energy's (DOE) Energy Information Administration's (EIA) Annual Energy Outlook (AEO) published in May 2009. The EIA AEO does not directly include price for PJM West Hub, rather, the AEO publishes national average retail "end user" prices. To derive wholesale prices for PJM West Hub, PJM on peak, off peak, and around the clock actual annual average PJM West Hub prices from 2006, 2007, and 2008 were compared to the EIA AEO national retail price averages in those years and a multiplier was calculated to convert EIA AEO Retail prices to PJM West Hub wholesale prices for these 5 forecast years.

For the avoided ancillary services cost, yield curves were created based on monthly average on peak and off peak ancillary service price / PJM West Hub day ahead price relationships for 2006 - 2008. These historic relationships were applied to the provided power prices to create the associated ancillary service prices.

For the avoided capacity cost the Company used a price forecast based on the FirstEnergy latest official and confidential long term price capacity price forecast. It reflects Regional Pricing Model Auction (RPM) assumptions from the second quarter of 2008.

The retail transmission and distribution rates for Met-Ed are based on the most recent distribution rate case approved by the Commission on January 11, 2007. The tariff rate schedules were rolled up into the rates classes in order to align with the Commission's Act 129 Implementation Orders. The distribution rates were escalated as defined by the Commission in the final TRC test Order entered on June 23, 2009. The distribution rates were escalated as defined by the Commission in the final TRC test Order entered on June 23, 2009. The distribution rates were escalated as defined by the Commission in the final TRC test Order entered on June 23, 2009. The distribution rates were escalated as defined by the Commission in the final TRC test Order entered on June 23, 2009.

The inclusion of full retail distribution rates as avoided costs has changed the total plan TRC test results from 2.08 to 2.46 but this change has no effect on the budgetary program costs nor the stated kWh or kW savings presented in the July 1 filing.

The benefits were then calculated using the measure kWh and kW savings multiplied by the assumed number of measure units²² and the avoided capacity and energy costs. This value per year was then discounted by taking a Net Present Value (NPV) over the measure life-time using the post-tax weighted average cost of capital (WACC).

On the costs side the TRC test includes the costs of the various programs incurred by the Company and the participating customers, including, equipment, installation, operation, and maintenance costs, cost of removal (less salvage value) for turn-in programs, and administrative costs. The costs are in 2009 dollars and are "as spent" due to the fact that each year's program is evaluated separately by measure and the budgeted number of measure units. Program costs are budgeted by year in 2009 dollars, but operation and maintenance costs are based on measure life and are discounted using NPV back to the program year installed.

As a result, the Company's EE&C Plan is cost-effective based on the TRC test as described above. The results of the TRC test are presented in PUC Table 1 and are expressed as both a net present value and a benefit-cost ratio.

8.2. Provide data tables (see Tables 7A thru 7E).

The following tables present the summary TRC results by program, by year, in the five customer class segments outlined in the Commission Act 129 appendices.

²² Measure Unit refers to participants and/or number of items. The measure units, for example, can be a single customer participant (i.e. a customer get a new CAC system) or a count of lights bulbs as in the CFL rebate program.

Energy Efficiency and Conservation Plan Cost Effectiveness

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PUC Table 7A: TRC Benefits Table – I	
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P	I

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Residential					TIR	TRC Benefits By Program Per Year (\$000)	Program Per	Year (\$000)				
Program Program Annual Annual Annual Manual Manu						Capacity	Capacity	Energy	Energy	Load Reduc	tions in kW	MWh S	aved
Var Hat Hat Res Model Section section Constraint Lifting Annual		Program		Program	Program	Annual	Annual	Annual	Annual				
2010 $1/2$ $233,36$ $3,011$ $0,03,44$ $0,03,46$ $0,03,46$ $0,03,46$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,24$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,244$ $0,03,224$ $0,03,224$ $0,03,224$ $0,03,224$ $0,03,224$ $0,03,224$ $0,02,224$ $0,02,224$ $0,02,224$ $0,02,224$ $0,02,224$ $0,02,224$ $0,02,224$ $0,02,224$ $0,02,224$ $0,02,224$ $0,02,224$ $0,02,224$ $0,02,224$ $0,02,224$ $0,02,244$ $0,02,244$ $0,02,244$ $0,02,244$ $0,02,244$ $0,02,244$ $0,02,244$ $0,02,244$ $0,02,244$ $0,02,244$ $0,02,244$ $0,02,244$ $0,02,244$	Program	Year	TRC		enefits (\$000)	Benefits	Gen/T&D			Annual	Lifetime	Annual	Lifetime
2011 173 6505 1113 1014 10133 10133 <	Demand Reduction	2010	1.42	COC,82C	011,06/	6/9,44/	See loomote 1		See roomote 2	8/6	671,17	4	10,402
D01 2.2 $5.232.566$ $1.346.44$ $1.01.564$ 2.7729 2.7729 2.3739 1.331 D01 6.2 $1.838.941$ 1.1125767 806.456 $10.770.280$ 1.767 2.729 2.3364 3.337 D01 6.2 $1.838.941$ 1.1125767 806.456 $10.770.280$ 1.791 4.762 3.343 3.374 3.3764 <th></th> <td>2011</td> <td>1.75</td> <td>6,350,568</td> <td>11,130,140</td> <td>10,096,446</td> <th></th> <td>1,033,695</td> <th></th> <td>14,656</td> <td>27,729</td> <td>101</td> <td>15,405</td>		2011	1.75	6,350,568	11,130,140	10,096,446		1,033,695		14,656	27,729	101	15,405
2013 000 $ 27739$ 27739 27737 29933 23111 17970 24723 2301 2301 2301 2373 2301 2373 2301 2373 2301 2373 23012 2373 23012 2373 23012 23111111 23230 23012 $23111111111111111111111111111111111111$		2012	2.15	5,282,556	11,334,614	10,313,109		1,021,504		27,729	27,729	1,331	15,405
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2013	0.00	ı	,			,		27,729	27,729	1,331	15,405
011 (66) 1338,941 11,356,79 333,441 10,376,236 36,456 10,376,236 36,465 10,376,236 36,465 10,376,236 36,564 37,56 47.62 37,56 36,564 37,56 36,564 37,56 36,564 37,56 36,564 52,57 36,564 52,57 36,564 52,57 37,56 36,564 52,57 37,56 37,56 37,56 37,56 37,57 37,56 37,57 37,56 37,57 37,56 37,57 37,56 37,57 37,56 37,57 37,56 37,57 37,56 37,57 37,57 37,57 37,57 37,57 37,57 37,57 37,57 37,57 37,57 37,57 37,57 37,57 37,57 </th <th>Home Energy Audits</th> <th></th> <th>5.42</th> <th>417,707</th> <th>2,264,529</th> <th>139,898</th> <th></th> <th>2,124,630</th> <th></th> <th>305</th> <th>4,762</th> <th>3,243</th> <th>355,176</th>	Home Energy Audits		5.42	417,707	2,264,529	139,898		2,124,630		305	4,762	3,243	355,176
2012 6.9 1.83.9.4 1.17.70_280 86.8.9.9 1.11.31.0.4 3.276 4.762 $3.3.76$ $3.3.76$ $3.3.76$ 4.762 $3.3.76$ $3.3.76$ 3.64 $3.3.76$ 3.64 $3.3.76$ 3.636 3.936 6.264 2.002 6.276 2.026 2.026 2.026 2.026 2.026 2.026 2.037 6.0264 2.037 2.037 6.264 2.037			6.05	1,838,941	11,125,795	738,341		10,387,454		1,791	4,762	18,504	355,176
2013 6.51 183.59 11.93.06.53 84.8.79 11.13.10.44 4.762 4.762 4.902 3.925 3.912		2012	6.30	1,838,941	11,576,736	806,456		10,770,280		3,276	4,762	33,764	355,176
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2013	6.51	1,838,941	11,976,953	845,879		11,131,074		4,762	4,762	49,025	355,176
2011 6.59 $1.256.791$ $10.058.84$ $9.88.86$ $9.485.86$ 2.349 6.264 6.127 3.01 4.307 6.264 4.907 2.301 3.91 3.01 4.307 6.264 4.9012 3.9112 3.311	Appliance Turn-In	2010	6.03	318,352	1,919,906	178,487		1,741,419		392	6,264	2,692	305,608
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $:	2011	6.59	1,526,791	10,058,834	968,986		9,089,848		2,349	6,264	16,152	305,608
2013 711 $1.526,791$ $0.837,988$ $1.110,813$ $9.747,169$ 6.264 6.264 4.3072 3.327 2011 1.08 $2.737,566$ $2.575,922$ $1.003,612$ $1.503,733$ 3.230 4.829 2.071 2011 1.08 $2.273,566$ $2.575,922$ $1.003,612$ $1.503,733$ $3.661,433$ 3.232 $3.893,53$ 3.693 <th></th> <th>2012</th> <th>6.87</th> <th>1,526,791</th> <th>10,495,445</th> <th>1,058,881</th> <th></th> <th>9,436,564</th> <th></th> <th>4,307</th> <th>6,264</th> <th>29,612</th> <th>305,608</th>		2012	6.87	1,526,791	10,495,445	1,058,881		9,436,564		4,307	6,264	29,612	305,608
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2013	7.11	1,526,791	10,857,988	1,110,819		9,747,169		6,264	6,264	43,072	305,608
2011 1.08 $2.273,596$ $2.459,203$ $958,333$ $1.500,870$ 1.810 4.829 2.073 3.073 2.007 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.007 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.073 2.075 2.093 2.075 2.093 2.010 2.0103 2.075 <th>EE HVAC</th> <th>2010</th> <th>0.98</th> <th>461,291</th> <th>450,847</th> <th>178,851</th> <th></th> <th>271,995</th> <th></th> <th>301</th> <th>4,829</th> <th>321</th> <th>55,020</th>	EE HVAC	2010	0.98	461,291	450,847	178,851		271,995		301	4,829	321	55,020
2012 1.13 $2.275,596$ $2.575,922$ $1.033,005$ $1.586,231$ 3.323 6.829 3.693 3.693 3.693 3.693 3.693 3.693 3.693 3.693 3.693 3.693 3.693 3.693 3.693 3.693 3.693 3.693 3.693 $3.678,158$ $3.678,158$ $3.678,158$ $3.678,158$ $3.678,158$ $3.78,158$ $3.78,158$ $3.78,158$ $3.78,158$ $3.78,158$ $3.78,158$ $3.78,158$ $3.78,158$ $3.78,158$ $3.78,158$ $3.79,249$ $3.93,3943$ $3.883,3943$ $3.893,943$ $3.893,943$ $3.893,943$ $3.966,110,99$ $3.966,110,99$ $3.983,943$ 3.7776 $5.900,10$ 3.7776 $5.900,10$ 3.7776 $5.900,110,99$ 3.7776 $5.900,10,199$ 3.7776 $5.900,10,199$ 3.7776 $5.900,10,199$ 3.7776 $5.900,119$ 3.9776 3.9776 3.7776 3.7776 3.9777 3.97776 3.97776 3.97776 3.97776 3.97776 3.97776 3.977		2011	1.08	2,273,596	2,459,203	958,333		1,500,870		1,810	4,829	2,007	55,020
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		2012	1.13	2,273,596	2,575,922	1,030,612		1,545,310		3,320	4,829	3,693	55,020
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2013	1.17	2,273,596	2,661,433	1,073,202		1,588,231		4,829	4,829	5,379	55,020
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	EE Products	2010	3.22	1,159,919	3,738,156	362,353		3,375,802		654	10,109	5,418	608,168
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2011	3.39	5,808,155	19,700,318	1,886,155		17,814,163		3,806	10,109	32,632	608,168
2013 3.65 $5,808,155$ $21,205,219$ $2,124,604$ $10,006,015$ $893,943$ $893,943$ $893,943$ $893,943$ $870,010$ 87706 $67,776$ 860 11 2010 2.33 $3,133,302$ $7,975,661$ $2,999,133$ $3,076,529$ $5,076,529$ $6,776$ $8,00$ $10,109$ $87,060$ 6 2011 2.53 $3,133,302$ $8,298,223$ $3,079,744$ $5,218,479$ $7,776$ $7,776$ $7,776$ $7,776$ $7,776$ $7,776$ $7,776$ $7,776$ $7,776$ $7,776$ $7,776$ $7,776$ $7,776$ $7,776$ $7,776$ $7,776$ $7,776$ $7,978$ 2010 $1,19$ $1,039,709$ $1,030,709$ $1,030,709$ $1,030,709$ $4,379$ $1,031,799$ $1,031,799$ $201,736$ $1,031,796$ $1,031,796$ $1,031,796$ $1,031,796$ $1,051$ $3,077$ 2010 $3,39$ $1,038,535$ $1,317,278$ $2,206,957$ $1,038,334$ $1,031,796$ $1,056,276$ $2,366,957$ $2,319$ $1,051$ $3,077$ 2010 $3,39$ $1,038,535$ $1,90,147,425$ $4,3,92,236$ $3,03,822$ $2,86,353$ $2,536$ $6,2,456$ $6,2,456$ $2,01,769$ $1,576$ 2011 $5,81$ $48,354$ $2,93,7330$ $1,93,7330$ $1,96,375$ $1,96$ $1,576$ $3,077$ 2011 $5,81$ $48,354$ $2,93,7330$ $1,93,6333$ $1,93,144$ $1,958$ $1,96,736$ $1,978$ 2011 $5,81$ $48,354$		2012	3.53	5,808,155	20,477,242	2,036,228		18,441,014		6,958	10,109	59,846	608,168
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2013	3.65	5,808,155	21,205,219	2,124,604		19,080,615		10,109	10,109	87,060	608,168
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	New Construction	2010	2.37	586,333	1,392,246	498,303		893,943		648	7,776	860	137,775
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		2011	2.53	3,153,302	7,975,661	2,899,133		5,076,529		4,212	7,776	5,590	137,775
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		2012	2.63	3,153,302	8,298,223	3,079,744		5,218,479		7,776	7,776	10,320	137,775
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		2013	0.00	656	1					7,776	7,776	10,320	137,775
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Whole Building	2010	1.13	843,658	951,234	155,904		795,330		221	1,051	879	45,946
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		2011	1.19	1,038,535	1,237,595	206,886		1,030,709		498	1,051	1,978	45,946
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		2012	1.23	1,038,535	1,280,947	220,671		1,060,276		775	1,051	3,077	45,946
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2013	1.27	1,038,535	1,317,278	228,965		1,088,314		1,051	1,051	4,175	45,946
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Multiple Family	2010	3.39	15,858	53,782	2,960		50,822		7	115	88	8,764
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		2011	5.84	48,354	282,236	16,179		266,057		43	115	528	8,764
2013 6.31 48,354 305,066 18,708 18,708 286,358 115 115 115 1407 Generation, Transmission and Distribution Capacity costs are combined in a sum of avoided capacity costs. These costs are then NPV back to the year the measure unit was stalled. The combined avoided capacity costs are total avoided capacity costs. These costs are then NPV back to the year the measure unit was splayed here. 201,769 1,55 The on and off peak energy costs are combined in a sum of avoided capacity costs. These costs for Generation, Transmission and Distribution are splayed here. 62,636 201,769 1,55		2012	6.08	48,354	293,768	17,790		275,978		62	115	967	8,764
3.1859,875,188190,147,42543,932,330146,215,09562,63662,636201,769Generation, Transmission and Distribution Capacity costs are combined in a sum of avoided capacity costs. These costs are then NPV back to the year the measure unit was stalled. The combined avoided capacity costs for Generation, Transmission and Distribution are splayed here.201,769201,769The on and off peak energy costs are combined in a sum of avoided energy costs. These costs are then NPV back to the year the measure unit was combined avoided capacity costs for Generation, Transmission and Distribution are splayed here.		2013	6.31	48,354	305,066	18,708		286,358		115	115	1,407	8,764
 Generation, Transmission and Distribution Capacity costs are combined in a sum of avoided capacity costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided capacity costs for Generation, Transmission and Distribution are displayed here. The on and off peak energy costs are combined in a sum of avoided energy costs are then NPV back to the year the measure unit was avoided energy costs. These costs are then NPV back to the year the measure unit was avoided energy costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided energy costs for on and off peak energy costs are combined in a sum of avoided energy costs for on and off peak energy costs are combined in a sum of avoided energy costs for on and off peak energy costs are combined in a sum of avoided energy costs for on and off peak energy costs are combined avoided energy costs for on and off peak energy costs are displayed here. 	Total		3.18	59,875,188	190,147,425	43,932,330		146,215,095		62,636	62,636	201,769	1,531,861
installed. The combined avoided capacity costs can not be identified by component therefore the total avoided capacity costs for Generation, Transmission and Distribution are displayed here. 2: The on and off peak energy costs are combined in a sum of avoided energy costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided energy costs for on and off peak energy costs can not be identified by component therefore the total avoided energy costs for on and off peak energy costs can not be identified by combonent therefore the total avoided energy costs for on and off peak energy costs can not be identified by component therefore the total avoided energy costs for on and off peak energy costs are displayed here.	1: General	ion, Transmi	ssion and	Distribution Cap	acity costs are cc	imbined in a si	um of avoided cap	acity costs. Thes	se costs are then }	VPV back to the	e year the meas	ure unit was	
 The on and off peak energy costs are combined in a sum of avoided energy costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided energy costs for on and off peak energy costs can not be identified by component therefore the total avoided energy costs for on and off peak energy costs are displayed here. 	installed.	The combine here	ed avoidec	d capacity costs c	an not be identifi	ed by compon	ent therefore the t	otal avoided caps	acity costs for Ge	neration, Trans	mission and Di	stribution are	
2: The on and off peak energy costs are combined in a sum of avoided energy costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided energy costs for on and off peak energy costs can not be identified by component therefore the total avoided energy costs for on and off peak energy costs are displayed here.													
	2: The on	and off peak	energy co	osts are combined	in a sum of avoi	ded energy co:	sts. These costs at	e then NPV back	to the year the n	ieasure unit wa.	s installed. The	e combined	
	avoided er	tergy costs ca	m not be 1	identified by com	ponent therefore	the total avoid	led energy costs fo	yr on and off peal	k energy costs are	displayed here			

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PUC Table 7B: TRC Benefits Table - Residential Low-Income

Residential Low-Income Program Program Program Program Vent TRC 6 Warm Plus 2010 2011 1.02 2012 1.04		TR	C Benefits	By Progra	TRC Benefits By Program Per Year (\$000)	· (2000)				۵
Program Program Year TRC 2010 0.80 2011 1.02 2012 1.04										
Program Program Year TRC 2010 0.80 2011 1.02 2012 1.04										
Program Year TRC 2010 0.80 2011 1.02 2012 1.04							Load Reductions in	ctions in	MWh Saved	aved
Program Year TRC 2010 0.80 2011 1.02 2012 1.04		Program	Capacity	Capacity	Energy	Energy	kW			
Year TRC 2010 0.80 2011 1.02 1 2012 1.04 1	Program Costs	Benefits	Annual	Annual	Annual	Annual				
<i>2010</i> 0.80 <i>2011</i> 1.02 <i>2012</i> 1.04 1.04	··· (\$000)	(S000) -	Benefits	Gen/T&D	Benefits	On/Off Peak	Annual	Lifetime	Annual	Lifetime
1.02	569,614	454,889	39,022	See	415,867	See footnote	60	611	543	50,423
1.04 1	1,387,430	1,410,760	116,175	footnote 1	1,294,585		238	611	2,263	50,423
	1,447,965	1,506,285	129,126	on PUC	1,377,159	Table 7A	422	611	4,028	50,423
2013 1.06 1.5	1,505,977	1,599,415	138,672	Table 7A	1,460,743	17/ 2001	611	611	5,835	50,423
Residential Audits 2010 0.59 41	416,827	246,042	15,226	See	230,816	San faatmata	33	521	355	38,735
2011 6.11 19	198,898	1,214,457	80,616	footnote 1	1,133,841	2 on DITC	196	521	2,027	38,735
2012 6.35 19	198,898	1,263,658	88,065 (on PUC	1,175,592	Zahle 7A	358	521	3,699	38,735
2013 6.57 15	198,898	1,307,519	92,375	Table 7A	1,215,143	17/ 2/2011	521	521	5,370	38,735
Appliance Turn-In 2010 0.62 33	337,116	209,000	18,819	See	190,182	See footnote	40	645	293	33,385
2011 7.62 14	143,643	1,094,514	101,980	footnote 1	992,535	2 on PIIC	242	645	1,758	33,385
2012 7.95 14	143,643	1,141,601	111,255 (on PUC	1,030,346	z ou t UC Table 7A	443	645	3,224	33,385
2013 8.22 14	143,643	1,180,844	116,639	Table 7A	1,064,205		645	645	4,689	33,385
Energy Efficient Products 2010 7.09 3	35,633	252,753	8,170	See	244,582	See footnote	20	317	423	42,176
2011 7.96 16	166,487	1,325,065	44,663	footnote 1	1,280,402	2 on PLIC	119	317	2,539	42,176
2012 8.27 16	166,487	1,377,258	49,109 0	on PUC	1,328,149	Table 7A	218	317	4,654	42,176
2013 8.59 16	166,487	1,429,744	51,643	Table 7A	1,378,101	TTI Alan I	317	317	6,770	42,176
Total 2.35 7,2	7,227,648	17,013,804	1,201,555		15,812,249		2,093	2,093	22,664	164,719

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PUC Table 7C: TRC Benefits Table - Commercial/Industrial Small

Commonoio // aductatio												
COMMENCIARY HIMUSU IAI					TRC	IRC Benefits By Program Per Year (\$000	Program P	er Year (\$000)				
				Program	Capacity	Capacity	Energy	Energy	Load Reductions i	tions in kW	MWh	Wh Saved
	Program		Program	Benefits	Annual	Annual	Annual	Annual				
Program	Year	TRC	Costs (\$000)	(8000)	Benefits	Gen/T&D	Benefits	On/Off Peak	Annual	Lifetime	Annual	Lifetime
Energy Audit	2010	4.19	328,223	1,375,343	275,525	See footnote	1,099,818	See footnote	667	10,678	2,363	235,522
	2011	4.37	1,670,771	7,305,866	1,506,140	1 on PUC	5,799,726	2 on PUC	4,004	10,678	14,177	235,522
	2012	4.61	1,670,771	7,696,948	1,656,092	Table 7A	6,040,856	Table 7A	7,341	10,678	25,991	235,522
-	2013	2013 4.81	1,670,771	8,033,055	1,741,536		6,291,519		10,678	10,678	37,804	235,522
Equipment Rebate	2010	2010 2.02	2,718,864	5,501,037	1,348,116		4,152,921		2,126	30,779	5,941	961,866
	2011	2.11	13,013,727	27,465,866	6,546,440		20,919,425		11,677	30,779	34,321	961,866
	2012	2.20	13,013,727	28,581,252	7,016,081		21,565,172		21,228	30,779	62,702	961,866
	2013	2.27	13,013,727	29,476,653	7,298,926		22,177,727		30,779	30,779	91,064	961,866
Total		2.45	47,100,582	115,436,021	27,388,854		88,047,166		41,457	41,457	128,869	1,197,388

PUC Table 7D: TRC Benefits Table - Commercial/Industrial Large

Senefits By Prog Capacity Annual Gen/T&D See footnote 1 on PUC Table 7A						
Program Capacity Capacity	TRC Benefits By	Program Per Year (\$	(000			
Program Program Costs Program Costs Program Annual Annual Year TRC (5000) Benefits (5000) Benefits Cen/T&D 2010 1.13 1,324,189 1,500,613 423,515 Cen/T&D 2011 1.19 6,634,314 7,906,335 2,244,716 Gen/T&D 2011 1.19 6,634,314 8,236,626 2,391,528 See footnote 2012 1.28 6,634,314 8,236,626 2,391,528 See footnote 2013 1.28 6,634,314 8,236,626 2,391,528 See footnote 2013 1.28 6,634,314 8,236,626 2,391,528 See footnote 2012 1.82 267,470 487,445 15,790 Table 7A 2011 2.36 1,074,380 2,619,779 88,717 2015 2013 2.51 1,074,380 2,697,519 91,860 Table 7A		Energy	Energy Load Rec	luctions in kW	MWh Saved	ived
Year TRC (5000) Benefits (\$000) Benefits Cen/T&D 2010 1.13 1,324,189 1,500,613 423,515 Cen/T&D 2011 1.19 6,634,314 7,906,335 2,244,716 See footmote 2012 1.24 6,634,314 8,236,626 2,391,528 See footmote 2012 1.28 6,634,314 8,236,626 2,391,528 See footmote 2013 1.28 6,634,314 8,236,626 2,391,528 See footmote 2013 1.28 0,634,314 8,236,626 2,391,528 See footmote 2013 1.28 0,634,314 8,437,445 15,790 Table 7A 2011 2.36 1,074,380 2,619,779 88,717 2017 2013 2.51 1,074,380 2,697,519 91,860 Table 7A	Annual		Annual			
2010 1.13 1,324,189 1,500,613 423,515 2011 1.19 6,634,314 7,906,335 2,244,716 2012 1.24 6,634,314 8,236,626 2,391,528 2013 1.28 6,634,314 8,498,352 2,480,053 2010 1.82 267,470 487,445 15,790 2011 2.36 1,074,380 2,536,141 83,514 2012 2.44 1,074,380 2,619,779 88,717 2013 2.51 1,074,380 2,697,519 91,860) Benefits	Benefits C	Dn/Off Peak Annual	l Lifetime	Annual	Lifetime
2011 1.19 6,634,314 7,906,335 2,244,716 2012 1.24 6,634,314 8,236,626 2,391,528 Sce footmote 2013 1.28 6,634,314 8,236,626 2,391,528 Sce footmote 2013 1.28 6,634,314 8,498,352 2,480,053 1 on PUC 2010 1.82 267,470 487,445 15,790 Table 7A 2011 2.36 1,074,380 2,536,141 83,514 Table 7A 2012 2.44 1,074,380 2,619,779 88,717 Table 7A 2013 2.51 1,074,380 2,697,519 91,860 Table 7A		1,077,098	587	9,384	1,736	324,653
2012 1.24 6,634,314 8,236,626 2,391,528 See footmote 2013 1.28 6,634,314 8,498,352 2,480,053 1 on PUC 2010 1.82 267,470 487,445 15,790 1 on PUC 2011 2.36 1,074,380 2,536,141 83,514 Table 7A 2012 2.44 1,074,380 2,619,779 88,717 2016 2013 2.51 1,074,380 2,697,519 91,860 1		5,661,619	3,519	9,384	10,485	324,653
2013 1.28 6,634,314 8,498,352 2,480,053 Dec toontote 2010 1.82 267,470 487,445 15,790 1 on PUC 2011 2.36 1,074,380 2,536,141 83,514 Table 7A 2012 2.44 1,074,380 2,619,779 88,717 2016 2013 2.51 1,074,380 2,697,519 91,860 1	2,391,528	5,845,098	6,452	9,384	19,234	324,653
2010 1.82 267,470 487,445 15,790 1001 COL 2011 2.36 1,074,380 2,536,141 83,514 Table 7A 2012 2.44 1,074,380 2,619,779 88,717 2013 2.51 1,074,380 2,697,519 91,860	2,480,053	6,018,299	See toolilote 9,384	9,384	27,983	324,653
2.36 1,074,380 2,536,141 83,514 1400,074 2.44 1,074,380 2,619,779 88,717 2.51 1,074,380 2,697,519 91,860	15,790	471,655	rable 7A 21	329	688	146,970
2.44 1,074,380 2,619,779 88,717 2.51 1,074,380 2,697,519 91,860	83,514	2,452,627	123	329	4,128	146,970
1,074,380 2,697,519 91,860		2,531,061	226	329	7,569	146,970
		2,605,659	329	329	11,009	146,970
	34,482,811 7,819,694	26,663,117	9,712	9,712	38,992	471,623

PUC Table 7E: TRC Benefits Table - Governmental/Non-Profit

Governmental/Non- Profit					TRC	FRC Benefits By Program Per Year (\$00	rogram Per	Year (\$000)				
					Capacity	Capacity	Energy	Energy	Load Reductions in	ions in kW	IWM MWI	h Saved
	Program		Program Costs	Program	Annual	Annual	Annual	Annual				
Program	Year	TRC	(S000)	Benefits (\$000)	Benefits	Gen/T&D	Benefits	On/Off Peak	Annual	Litetime	Annual	Litetime
Governmental &												
Institutional	2010	1.87	1,582,395	2,965,502	521,012	See footnote	2,444,490	See footnote	859	12,747	3,832	539,532
	2011	2.04	7,835,654	16,008,288	2,840,072	1 on PUC	13,168,216	2 on PUC	5,182	12,747	23,541	539,532
	2012	2.13	7,802,874	16,609,308	3,032,406	Table 7A	13,576,902	Table 7A	9,485	12,747	43,230	539,532
	2013	2.01	5,617,059	11,272,132	2,391,327		8,880,805		12,746	12,747	55,623	539,532
Total		2.05	22,837,983	46,855,230	8,784,818		38,070,412		12,746	12,747	55,623	539,532

9. Plan Compliance Information and Other Key Issues

9.1. Plan Compliance Issues.²³

9.1.1. Describe how the plan provides a variety of energy efficiency, conservation, and load management measures and will provide the measures equitably to all classes of customers in accordance with the January 15 Implementation Order.

The Plan addresses all customer sectors with a variety of programs that offer a range of services from passive education (on-line audits) through direct installation (a variety of programs) and help overcome first cost barriers through incentives to customers and trade allies. Penelec Tables 4 and 5 in Section 1 present a summary description of the programs by sector and the incentives offered under those with rebates. Detailed descriptions of each program are provided in Section 2.

9.1.2. Provide statement delineating the manner in which the EE&C plan will achieve the requirements of the program under 66 Pa. C.S. §§ 2806.1(c) & 2806.1(d).

The Penelec EE&C Plan has been developed to incorporate a comprehensive set of programs that will enable Penelec to achieve the goals established under Act 129 for energy savings in 2011 and for energy and peak demand reductions in 2013, all achieved within the spending caps prescribed by the PUC Table 3

9.1.3. Describe how EDC will ensure that no more than two percent of funds available to implement the plan shall be allocated for experimental equipment or devices.

Less than 2% of program funds are devoted to experimental equipment or devices. This Plan focuses on encouraging the accelerated adoption of commercially available technologies for achieving the energy efficiency and demand response goals.

9.1.4. Provide statement delineating the manner in which the EE&C plan will achieve the Government/Non-Profit requirements under 66 Pa. C.S. §§ 2806.1(b)(1)(i)(B).

The plan will achieve Government/Non-Profit requirements through three groups of program services – federal government facilities located within the service territory, local government facilities, non-profits and schools. While all non-residential buildings are eligible for the prescriptive and custom energy efficiency programs, special efforts are targeted at these subdivisions of the government sector in recognition of their unique decision-making and financing processes for making capital improvements to facilities. Penelec's programs will leverage existing company Area Manager relationships and experienced vendors who specialize in working with governmental accounts to get projects completed. (Section 1.1) Government programs are described in Section 3.5.

9.1.5. Describe how the plan will be competitively neutral to all distribution customers even if they are receiving supply from an EGS.

All programs are available to all Penelec Delivery Service Customers (with the exception of Borderline customers), and will be offered on a non-discriminating basis. Likewise, the Energy Efficiency Rider will collect the costs from all Delivery Service Customers; thereby assuring the plan is competitively neutral. The

²³ These sub-sections may reference other chapters of the plan as they may restate what was included elsewhere in the plan, and are collected here only for convenience of review.

Company notes that it cannot prohibit customers taking generation service from alternative electric generation suppliers from participating in certain programs.

9.2. Other Key Issues:

9.2.1. Describe how this EE&C plan will lead to long-term, sustainable energy efficiency savings in the EDC's service territory and in Pennsylvania.

The aim of this EE&C plan is to elucidate the connections between end-use energy technologies, energy demand, and, to better guide energy decisions. The amount of energy used in the future is a central determinant of environmental impacts both within the Companies' service territory and beyond. Energy use will depend on the demand for energy services and the technologies used to supply those services.

The Companies' plan is intended to make people become more conscious of their energy usage and establish lifelong energy saving habits. In addition, all measures installed and appliances retired and/or replaced, resulting from the execution of the Companies' plan including energy audits and technical assessments, have lengthy expected product lifetimes. They will save energy for years to come, easily bridging customers to even better technologies as they become available. So, the benefits of this plan will undoubtedly extend far beyond the length of specific programs.

9.2.2. Describe how this EE&C plan, and the EDC, will avoid possible overlaps between programs offered in different Pennsylvania EDC service territories as well as possibly programs offered in neighboring states.

Penelec's EE&C plan consistently considered the programs of other Pennsylvania EDCs and those offered in neighboring states to ensure that little overlap will occur during the duration of the EE&C plan. For example, all EDCs that are obligated to meet the requirements of Act 129 held a day long meeting at the offices of the Energy Association of Pennsylvania during May 2009. Moreover, a Penelec representative has been in contact with other EDCs regularly and will be part of the statewide working group.

9.2.3. Describe how this EE&C plan will leverage and utilize other financial resources, including funds from other public and private sector energy efficiency and solar energy programs.

Penelec's approach has been to prudently identify those programs that can be fast tracked for early implementation and which will require a more measured build up before targeted benefits are fully realized. Our Fast Track program suite takes maximum advantage of existing delivery channels by adding electric energy savings measures and services to programs that are already being implemented. This approach serves to keep costs down because visits are already being made to households and businesses, and it maximizes benefits because the additional funds and measures mean that opportunities will no longer be lost opportunities that would be more costly to go back and capture later. (Section1.1)

9.2.4. Describe how the EDC will address consumer education on energy efficiency, conservation, solar and solar photovoltaic systems, and geothermal heating, and other measures.

Essential to the success of these programs will be a concurrent marketing and educational campaign. Once Commission approval is obtained, Penelec will immediately launch a major outreach effort to build awareness and interest in the programs, ways to participate, expected benefits and reasons for participating. Included in each program's budget is a share of a first year marketing campaign for that sector; smaller amount of sustaining marketing resources are included for the four year period of the Plan to ensure adequate outreach for achieving program goals. A forthcoming RFP for an Implementation Management Contractor will

Energy Efficiency and Conservation Plan Plan Compliance Information & Other Key Issues

include a section on the development and execution of a Marketing Plan that will include a requirement for a team member with educational expertise in social marketing and consumer behavior change. (Section 1.1)

9.2.5. Indicate that the EDC will provide a list of all eligible federal and state funding programs available to ratepayers for energy efficiency and conservation.

Penelec will provide a list of all eligible federal and state funding programs to ratepayers as part of its $EE\&\underline{C}\underline{P}$ Plan implementation.

9.2.6. Describe how the EDC will provide the public with information about the results from the programs.

Penelec will make available summary reports to the Commission as part of its regular reporting responsibilities. Key findings will be summarized and posted on the Company website and other communications to the public that highlight the achievement of the EE&C programs.

10. List of Appendices

- A. Commission approved electricity consumption forecast for the period of June 1, 2009 through May 31, 2010.
- B. Average hourly demand in the EDC's 100 highest peak hours during the period of June 1, 2007 through September 30, 2007.
- C. Approved CSP contract(s) with Black & Veatch (consisting of three parts: 1) PUC Approved Standardized CSP Contract, 2) Purchase Order, and 3) CONFIDENTIAL Proposal.

Note: The Proposal portion of the contract contains Confidential employee salary and fee information which will cause competitive harm to the CSP if publicly disseminated. The Company respectfully requests full confidential treatment of the Proposal portion of the Approved CSP Contract, in accordance with the approved Commission Template and the Commission's Act 129 Implementation Order. The Proposal portion of the Approved CSP Contract is being marked with a "CONFIDENTIAL" stamp and is being submitted under seal to the Secretary's Office in an envelope separate from the EE&C Plan"

- D. All measure budgeted costs by year, sum to programs, including administrative, marketing, and incentives costs.
- E. Measure savings for programs included, including key assumptions
- F. Annual measure participation numbers
- G. PUC Appendix A Tables 1-7
- H. Tariff Rider Energy Efficiency and Conservation Charge Rider

Appendix A Commission approved electricity consumption forecast for the period of June 1, 2009 through May 31, 2010.

Metropolitan Edison Company Pennsylvania Electric Company Pennsylvania Power Company

Retail Energy Forecast (in MWh's) For the Period June1, 2009 through May 31, 2010

		Reta	il Energy (in M	/Wh)
		<u>Met-Ed</u>	Penelec (A)	Penn Power
June	2009	1,224,184	1,158,582	366,734
July	2009	1,343,026	1,246,775	415,287
August	2009	1,331,732	1,266,171	419,370
September	2009	1,165,164	1,123,299	390,407
October	2009	1,160,500	1,133,396	387,107
Novemeber	2009	1,174,181	1,153,195	381,241
December	2009	1,337,318	1,299,238	427,293
January	2010	1,346,992	1,309,249	437,822
February	2010	1,263,630	1,202,447	399,162
March	2010	1,263,464	1,239,565	418,209
April	2010	1,113,128	1,121,267	373,603
May	2010	1,141,717	1,146,105	356,702
Total		14,865,036	14,399,289	4,772,937

(A) - Excludes Waverly, NY service territory

Appendix B Average hourly demand in the EDC's 100 highest peak hours during the period of June 1, 2007 through September 30, 2007.

Pennsylvania Electric Company 100 Hours of Highest Load (A) For the Periods 6/1/07 through 6/31/08 and 6/1/07 through 9/30/07

	6/1	Highest 100 Loads in Year 6/1/07 - 5/31/08		6/1/	Highest 100 Loads in S 6/1/07 - 9/30/07	
	ES		MW	ES		MW
4	Date	Hour	0 544	Date	Hour	0 514
1	06/27/07	13	2,514	06/27/07	13	2,514
2	06/27/07	12	2,509	06/27/07	12	2,509
3	08/08/07	14	2,504	08/08/07	14	2,504
4	08/02/07	14	2,504	08/02/07	14	2,504
5	08/08/07	13	2,491	08/08/07	13	2,491
6	08/02/07	13	2,489	08/02/07	13	2,489
7	08/02/07	15	2,478	08/02/07	15	2,478
8	08/08/07	15	2,477	08/08/07	15	2,477
9	06/27/07	11	2,460	06/27/07	11	2,460
10	06/27/07	14	2,459	06/27/07	14	2,459
11	08/08/07	16	2,453	08/08/07	16	2,453
12	07/10/07	15	2,450	07/10/07	15	2,450
13	07/09/07	13	2,445	07/09/07	13	2,445
14	07/09/07	14	2,440	07/09/07	14	2,440
15	08/02/07	12	2,438	08/02/07	12	2,438
16	07/10/07	13	2,438	07/10/07	13	2,438
17	08/08/07	11	2,436	08/08/07	11	2,436
18	09/07/07	14	2,432	09/07/07	14	2,432
19	09/07/07	13	2,430	09/07/07	13	2,430
20	07/09/07	15	2,430	07/09/07	15	2,430
21	07/10/07	14	2,430	07/10/07	14	2,430
22	08/08/07	12	2,429	08/08/07	12	2,429
23	07/09/07	16	2,428	07/09/07	16	2,428
24	08/02/07	16	2,424	08/02/07	16	2,424
25	07/09/07	12	2,424	07/09/07	12	2,424
26	08/24/07	14	2,422	08/24/07	14	2,422
27	07/10/07	16	2,422	07/10/07	16	2,422
28	07/10/07	12	2,421	07/10/07	12	2,421
29	08/08/07	17	2,421	08/08/07	17	2,421
30	06/27/07	10	2,420	06/27/07	10	2,420
31	02/11/08	21	2,419	07/10/07	11	2,417
32	07/10/07	11	2,417	06/27/07	15	2,416
33	06/27/07	15	2,416	06/26/07	15	2,415
34	06/26/07	15	2,415	08/01/07	14	2,415
35	08/01/07	14	2,415	08/01/07	15	2,414
36	08/01/07	15	2,414	08/03/07	13	2,414
37	08/03/07	13	2,414	08/24/07	15	2,412
38	08/24/07	15	2,412	08/01/07	16	2,412
39	08/01/07	16	2,412	08/24/07	16	2,407
40	08/24/07	16	2,407	08/01/07	13	2,405
41	08/01/07	13	2,405	06/26/07	16	2,404
42	06/26/07	16	2,404	08/24/07	13	2,401
43	08/24/07	13	2,401	06/26/07	12	2,401

44	06/26/07	12	2,401	08/02/07	11	2,399
45	02/11/08	20	2,401	06/26/07	13	2,399
46	08/02/07	11	2,399	07/09/07	17	2,398
47	06/26/07	13	2,399	06/27/07	16	2,397
48	02/12/08	19	2,399	08/03/07	14	2,395
49	07/09/07	10	2,398	08/08/07	18	2,393
50	06/27/07	16	2,390	09/07/07	15	2,393
50	08/03/07	10	2,397 2,395	08/03/07	12	2,393
52				06/26/07	14	2,391
	08/08/07	18	2,393			
53 54	09/07/07	15	2,393	08/02/07	17	2,386
	02/12/08	11	2,392	06/19/07	13	2,384
55	08/03/07	12	2,391	08/01/07	17	2,382
56	02/11/08	19	2,391	08/24/07	17	2,381
57	06/26/07	14	2,389	08/29/07	14	2,381
58	12/17/07	18	2,387	09/06/07	16	2,374
59	02/12/08	14	2,387	07/10/07	17	2,374
60	08/02/07	17	2,386	06/26/07	17	2,374
61	06/19/07	13	2,384	08/08/07	10	2,373
62	08/01/07	17	2,382	08/29/07	16	2,373
63	08/24/07	17	2,381	08/01/07	12	2,373
64	08/29/07	14	2,381	09/07/07	16	2,370
65	12/17/07	21	2,381	09/06/07	15	2,369
66	12/17/07	19	2,379	08/29/07	15	2,369
67	02/12/08	13	2,379	08/29/07	17	2,368
68	01/23/08	19	2,379	07/09/07	11	2,366
69	02/11/08	9	2,378	08/16/07	14	2,364
70	02/12/08	10	2,375	07/10/07	10	2,364
71	09/06/07	16	2,374	09/07/07	12	2,363
72	07/10/07	17	2,374	07/10/07	18	2,363
73	06/26/07	17	2,374	08/03/07	15	2,363
74	08/08/07	10	2,373	06/26/07	11	2,361
75	08/29/07	16	2,373	08/29/07	13	2,360
76	08/01/07	12	2,373	08/03/07	11	2,360
77	02/12/08	12	2,372	09/06/07	14	2,359
78	02/11/08	10	2,371	08/16/07	15	2,357
79	02/11/08	11	2,371	09/06/07	20	2,355
80	09/07/07	16	2,370	07/09/07	18	2,353
81	09/06/07	15	2,369	08/24/07	18	2,351
82	08/29/07	15	2,369	09/06/07	17	2,349
83	08/29/07	17	2,368	08/03/07	16	2,348
84	07/09/07	11	2,366	09/07/07	17	2,347
85	02/12/08	18	2,365	08/07/07	11	2,345
86	08/16/07	18	2,364	07/10/07	21	2,345
87	07/10/07			06/08/07	14	2,343
88	09/07/07	10 12	2,364 2,363	08/29/07	20	2,342 2,341
89					13	
89 90	07/10/07	18	2,363	08/16/07		2,340 2,340
	02/28/08	20	2,363	08/29/07	18	2,340
91	08/03/07	15	2,363	09/06/07	13	2,340
92	06/26/07	11	2,361	08/08/07	19	2,338
93	02/12/08	20	2,361	08/24/07	12	2,337
94	02/28/08	21	2,361	08/01/07	18	2,336
95	02/12/08	21	2,361	08/08/07	20	2,334

Appendix B-PN 3 of 3

96 07	02/12/08	9	2,360	07/09/07	21 16	2,333 2,330
97 98	08/29/07 08/03/07	13 11	2,360 2,360	08/16/07 06/26/07	18	2,330
99	09/06/07	14	2,359	08/07/07	13	2,326
100	08/16/07	15	2,357	06/19/07	14	2,324
Average 100 High	est		2,403			2,395

(A) - Excludes Waverly, NY service territory

Energy Efficiency and Conservation Plan Appendices

Appendix C Approved CSP contract(s).

FirstEner

Purchase Order

BLACK & VEATCH 898 VETERANS MEMORIAL HIGHWAY HAUPPAUGE NY 11788

Your number with us 210012230

Joshua Martin/330-384-2482 Our fax number 330-374-6216

55109917 / 03/24/2009

Contact person/Telephone

Valid from: Valid to :

PO number/date

03/24/2009 12/31/2009

Please deliver to: FirstEnergy 76 S. MAIN ST. AKRON 44308

Preight Charges & FOB Terms: No freight, FOB origin Terms of payt.: Within 45 days Due net

Currency USD

FirstEnergy Service Company on behalf of The Cleveland Electric Illuminating Company, FirstEnergy Service Company, Jersey Central Power & Light Company, Metropolitan Edison Company, Ohio Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company, The Toledo Edison Company, FirstEnergy Generation Corp., FES (FirstEnergy Solutions), ATSI (American Transmission Systems Inc.) and FirstEnergy Nuclear Operating Company (FENOC). (Purchaser). The purchaser subsidiary and/or affiliate company(s) shall be identified by the ship-to address included herein or on any subsequent blanket purchase order release authorization ship-to address as included thereon, as appropriate. If more than one company is identified as the purchaser, the liability of each company named shall be several and not joint and shall be limited to such company's interest as identified therein.

Supplier Contact: Steve Stolze Phone:631-786-0507 Email:StolzeSA@by.com

FirstEnergy Technical Contact: Kurt Turosky,Mgr, Energy Efficiency Comp & Perf

Page BLACK & VEATCH PO number/date 55109917 / 03/24/2009 2 HAUPPAUGE NY 11788 Phone: 330-384-5847 Email:turoskyk@firstenergycorp.com 10 PA Energy Efficiency Plan Consulting Invoicing: FirstEnergy's vision is a paperless, automated procure-to-pay process. Our objective is 100% adoption of electronic presentment and payment by our suppliers. Suppliers performing work with FirstEnergy are expected to enroll in and use the Xign Network to submit invoices electronically to FirstEnergy and to receive payment electronically from FirstEnergy. Supplier acknowledges that timely submission of invoices is critical for effective budget and financial planning for FirstEnergy. We encourage you to enroll with Xign our third party provider for electronic payment and presentment and their Discount Manager program. To enroll with Xign, please go to http://firstenergy.xign.net. Select "ENROLL NOW" and then select the "I DO NOT HAVE AN ENROLLMENT CODE" option. In the event Supplier does not choose to support FirstEnergy's vision for a paperless procure-to-pay process, all invoices rendered under this purchase order shall be sent directly to: FirstEnergy Service Company 76 S. Main St. Akron, OH 44308 Attn: Kurt Turosky The invoice must include the following, as applicable: - Purchase order number - Line item number - Task Authorization number, if applicable - Timesheets - Receipts for reimbursable expenses Questions about electronic payment/presentment, invoices or payments may be directed to the Accounts Payable help desk at (814)539-3200. Item FE Material No. Net value Order qty. Unit Price per unit 00001 PA Energy Efficiency Plan Consulting Services

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HAUPPAUGE NY 11788	55109917 / 03/24/2009	3
SCOPE OF WORK:		
an a		
Consultant to provide consulting	ng services and resources for the develop	ment of a

e her en sterre ster

demand side response initiatives recently mandated in Pennsylvania as Act 129 of 2008 of House Bill 2200 and detailed in the engagement letter dated February 26, 2009.

CONTRACT DOCUMENTS:

للربيو بيداله بلا بلار بلاز بيراند الله الما بير أمرابه

The following listed items are the Contract Documents and constitute the complete Agreement between Purchaser and Consultant. In the event of conflict among any of the below listed documents in matters of interpretation, precedence as to interpretation shall be given in accordance with the following order:

1. Change orders, if any.

2. This Purchase Order, no. 55109917.

3. FirstEnergy's Consulting Services Terms and Conditions (CNSLT FINAL REV 24 01-16-09) along with the Supplemental Terms and Conditions for contracts with Conservation Service Providers ("CSPs") apply to this agreement.

4. Black & Veatch's Proposal dated February 26, 2009 - attached and incorporated herein with the exception to the modifications to the pricing and assumptions as detailed below.

PRICING & ASSUMPTIONS:

1.) Black & Veatch will deliver the scope of work as proposed within 11 weeks from project kick-off.

2.) Black & Veatch will fix the price for the work and selected options as quoted with the exception of SubTasks 3.3 and 3.4 which have been withdrawn from the RFP process. The fixed fee amount for this engagement is \$271,800 plus expenses. The surveys are optional and would be at the additional costs detailed below.

Estimating Assumptions

a) Prompt delivery of all Data Request items noted on proposal page 11 within on week of the kick off meeting.

b) Comments on all draft documents will be compiled into one master edit copy per Company, that FirstEnergy will provide direction as to how to address any conflicting edits, and that comments will be received within one week of delivery of draft materials.

c) Black & Veatch will use its own in-house software for conducting the market potential and program design analyses. If FirstEnergy desires that we use DSMore instead, there is a \$10,000 fee to cover licensing and population of the software with FirstEnergy data for Pennsylvania operating companies.

e) Primary Customer Research surveys will not be conducted as part of the base bid. If

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surveys are desired, the decision to do so will be made at the kick off meeting, and customer lists and approvals will be provided within one week of the kick off meeting. Because we have the materials 90% designed, and trained consultants in place coming off the other job, we can now deliver 400 completes PER COMPANY residential and 100 completes PER COMPANY for commercial for \$55,000.

The price for the statewide survey (100 residential completes per company) it would be \$45,000.

f) Three sets of programs will be developed - one for each operating company: Met Ed, Penelec and Penn Power. The analysis will entail three sets of programs, with common programs as appropriate, analyzed for each of the three companies' residential, commercial and industrial sectors.

g) The proposal assumes that Black & Veatch will prepare separate chapters addressing the programs for each company for incorporation into one filing document for FirstEnergy's Pennsylvania operations.

h) Travel-related and other out-of-pocket expenses (e.g., Fed-Ex, telephone, etc.) will be billed at our actual cost

i) The level of effort associated with Black & Veatch services proposed depends upon a number of factors beyond Black & Veatch's control. The fixed fee assumes that timely and reasonably complete documentation is provided by FirstEnergy, that the extent and nature of deficiencies (if any) in the documentation are not material, and that FirstEnergy staff are available to support our efforts according to the agreed project timeline.

j) If customer surveys are selected as an option to be added to the scope of work, Black & Veatch will require FirstEnergy to deliver at or within 5 days of the kick off meeting the following: Lists of customer names, addresses, phone numbers and account numbers for random samples of residential and non-residential customers for each of the three PA utilities (i.e., nine electronic files with customer lists)

Approval of a pre-survey notification letter that will alert customers of the survey and encourage their cooperation Approval of our offer of \$50 gasoline cards for the first 100 customer responses rimely approval of survey instruments

Logos for each company (jpeg file)

Signature files for each company cover letter (jpeg file)

Customer contact per company to be included on the cover letter

FirstEnergy's Consulting Services Terms and Conditions (CNSLT FINAL REV 24 01-16-09) along with the Supplemental Terms and Conditions for contracts with Conservation Service Providers ("CSPs") apply to this agreement.

BLACK & VEATCH PO mumber/date Page HAUPPAUGE NY 11788 55109917 / 03/24/2009 5 Supplier or Contractor to execute both copies and return a copy to the address below: FirstEnergy Service Company 76 South Main Street Akron, Ohio 44308-1890 Mail Stop A-GO-09 Supplier or Contractor to retain a copy for Supplier's/Contractor's records. Supplier or Contractor acknowledges receipt of and agreement to this writing and the terms coptained herein and in the attached terms and conditions. e. Hephin N Hope Date: (Authorized Supplier/Contractor Signature) Name (Print) Name STEPHEN A. STOLZE TITLE: ASSOCIATE VICE PRESIDENT Name: Date: (Authorized Purchasing Representative Signature) (Print) Name Joshua M. Martin Title: St. Sourcing Specialist

FIRSTENERGY SERVICE COMPANY – GENERAL TERMS AND CONDITIONS FOR PURCHASE OF CONSULTING SERVICES

ARTICLE I - DEFINITIONS

The following terms, when used in this Agreement with initial capitalization, shall have the meanings given below unless in any particular instance the context clearly indicates otherwise:

- A. "Consultant," the party to be engaged in performing consulting services under the terms of this Agreement, is in the business of providing such consulting services, products, deliverables, outcomes and results.
- B. "Data" Material that includes documentation, manuals, maps, plans, schedules, programs, specifications, software, reports, drawings, designs and other relevant information;
- C. "Purchaser" means FirstEnergy Service Company for itself and/or as an authorized agent of the affiliate company or companies set forth on the face of the Request for Proposal and/or Purchase Order attached hereto for which the services as specified elsewhere herein shall be performed hereunder. If more than one company is identified as the Purchaser, the liability of each company named shall be several and not joint and shall be limited to such company's interest in this Agreement, as identified on the Request for Proposal and/or Purchase Order.
- D. "Purchaser's Site" includes generating stations, steam plants, substations, transmission and distribution lines, towers, poles, buildings, or other locations owned or leased by Purchaser, for which the Work is intended, to which the Work is to be delivered or where the Work is to be carried out (if it is not to be performed at the facility of Consultant or others).
- E. "Specifications" means the portion of this Agreement that describes the products and services to be delivered by Consultant under this Agreement, including dimensions, components, attachments, technical and non-technical requirements and characteristics, standards, performance requirements, and tolerances. Should any conflict occur between portions of the Specifications and these terms and conditions, the Specifications shall take precedence only when and to the extent that such does not result in any way in the dilution or diminution of the rights or benefits of the Purchaser under these terms and conditions.
- F. "Work" means all services, labor, materials, equipment, Data, and other obligations covered by or intended for Consultant to perform or supply under this Agreement, as specified in the Purchase Order, together with miscellaneous expendable job supplies, installation related equipment and/or tools, transportation, facilities and/or services for the complete execution of the Agreement.

ARTICLE II - TERMS OF AGREEMENT

- A. <u>Agreement</u>. The terms and conditions set forth in this document, together with the Request for Proposal and/or Purchase Order and all attachments, exhibits, revisions, and supplements thereof, shall constitute the agreement between Purchaser and Consultant (the "Agreement"). In case of any error, inconsistency or omission in the various documents of the Agreement, the matter will be submitted immediately to Purchaser, without whose decision said discrepancy shall not be adjusted by Consultant.
- B. <u>Offer and Acceptance</u>. Consultant's acknowledgement, commencement of performance to furnish the materials, equipment, or services which are the subject of this Agreement, or any conduct by Consultant which recognizes the existence of a contract pertaining to the subject matter hereof shall constitute acceptance by Consultant of this Agreement and all of its terms and conditions. Acceptance of this Agreement is expressly limited to Consultant's assent to all of the terms and conditions of this Agreement. Additional or different terms provided in Consultant's acceptance of Purchaser's offer which vary in any degree from any of the terms herein or expressly referenced on the face of the Request for Proposal and/or Purchaser in response to an offer by Consultant and if any terms herein are additional to or different from any terms of such offer, then the issuance of this Agreement. Additional or different terms and conditions of this Agreement, and expressly conditioned upon Consultant's assent to all of the terms and conditions of this Agreement, invoice, or communication submitted by Consultant, or any attempt by Consultant to vary in any degree any of the terms of this Agreement, invoice, or communication submitted by Consultant, or any attempt by Consultant to vary in any degree any of the terms of this Agreement, invoice, or communication submitted by Consultant, or any attempt by Consultant to vary in any degree any of the terms of this Agreement, unless expressly agreed to by Purchaser, shall be deemed material and are hereby objected. Any such terms proposed by Consultant, whether by offer or acceptance, shall be void unless expressly agreed to in writing by Purchaser.
- C. Integration; Modification. This Agreement sets forth the entire agreement of Purchaser and Consultant concerning the subject matter hereof. No other agreements or understandings, whether written or oral, whether express or implied, shall be binding on Purchaser and Consultant. No amendment, modification, or rescission of this Agreement shall be enforceable unless the same is in writing and signed by the party against whom the terms of such amendment, modification, or rescission are sought to be enforced.
- D. <u>Non-Exclusivity</u>. This Agreement is not exclusive, and Purchaser may at its sole discretion contract with others to perform such work as is herein contemplated, or may perform such work with its own forces.
- E. <u>Audit</u>. Purchaser shall have the right to audit books and records of Supplier upon reasonable notice for the purpose of confirming the amount due Supplier under this Agreement.

ARTICLE III - CONSULTANT'S PERSONNEL

- A. <u>Relationship of Parties.</u> In performing the Work, Consultant shall operate as and have the status of an independent Consultant and shall not act as or be an agent or employee of Purchaser. Nothing in this Agreement or in the performance of the Work shall be construed to create a partnership, joint venture or other joint business arrangement between Purchaser and Consultant.
- B. <u>Employees</u>. Consultant shall employ for the Work only persons known to it to be experienced, qualified, reliable and trustworthy. At Purchaser's request, the credentials of any of Consultant's employees assigned to perform the Work shall be submitted to Purchaser in advance of such assignment. During the performance of the Work, Purchaser may object to any Consultant employee who, in Purchaser's opinion, does not meet these criteria. In such case, Consultant shall, at its expense and risk, immediately replace or remove such employee.
- C. <u>Background Checks</u>. Consultant shall make best efforts to ensure that Consultant's employees assigned to Purchaser do not have criminal records and are not involved in criminal activity which could create a risk to Purchaser's Site, customers, and/or employees. Upon actual knowledge of a criminal record or involvement in criminal activity, Consultant shall immediately remove said employee or employees from the Work. Purchaser, at any time, may request Consultant to verify that an employee or employees does not possess a criminal record. Consultant shall provide certification for each of Consultant's employees, who are authorized as part of the Work to have electronic or unescorted physical access to Critical Cyber Assets (as the same are identified by Purchaser from time to time), that such employee: (i) has submitted to a Background Check within the past seven years whereby no evidence of a criminal record or criminal activity was discovered; (ii) is subject to a seven-year cycle re-check of the Background Check; and (iii) has received the Purchaser-sponsored Security Awareness training or will receive such training prior to accessing Critical Cyber Assets. These requirements are subject to audit and certification by Consultant upon request by Purchaser.
- D. <u>Substance Abuse.</u> Consultant agrees to comply with all applicable state and federal laws regarding drug-free workplace. Consultant shall make a good faith effort to ensure that all Consultant's employees, while working on Purchaser's property, will not be under the influence, purchase, transfer, use or possess illegal drugs or alcohol or abuse prescription drugs in any way.
- E. <u>Gifts and Gratuities/Conflicts of Interest.</u> Purchaser ("FirstEnergy") enforces policies governing the conduct of its employees in carrying out its business activities, including contact with third-party business partners. The conflicts of interest & gifts and gratuities policies generally prohibit FirstEnergy employees and/or their family members from giving or receiving gifts, favors, services, or privileges (including travel or entertainment) from existing or potential customers, suppliers, or contractors that are more than a nominal value, or that exceed the level of standard business courtesies, and the acceptance of cash, gift certificates, or loans in any amount. The conflicts of interest policy generally prohibits FirstEnergy employees and/or their family members from serving as an officer, director, employee, consultant, agent, or Buyer of a beneficial interest in an

organization which has a business relationship with FirstEnergy as a supplier or contractor, if the FirstEnergy employee is in a position to influence decisions concerning the relationship. The entire text of these policies may be found within the Supply Chain Section at www.firstenergycorp.com. Suppliers and prospective suppliers to FirstEnergy are expected to be aware of and comply with these policies in their dealings with FirstEnergy employees and their family members. Any suspected or actual violations of these policies should be reported; and, may be reported anonymously and confidentially by a customer, supplier, contractor, or employee by calling the Employee Concerns Line (1-800-683-3625), 24 hours a day, 7 days a week.

ARTICLE IV - SCOPE OF WORK

Consultant agrees to provide Purchaser with professional consulting services (the "Work") as defined in the Request for Proposal/Purchase Order. The Work shall include providing all data, technical information, reports, deliverables, products, outcomes, results, information, new discoveries, inventions, improvements, technical consulting or other technical services (including but not limited to design services, analytical services, quality assurance, and the like), direction of any work or performance of any labor, and all other facilities and services which are necessary for the performance of this Agreement by the Consultant.

ARTICLE V - COMPENSATION AND TERMS OF PAYMENT

- A. Compensation for the Work performed, as well as the terms of payment thereof, shall be as described on the face of the Request for Proposal/Purchase Order.
- B. For Work specified by Purchaser to be performed on a time and materials basis, each invoice must: (a) detail by activity the man-hours worked by Consultant; (b) detail by activity the labor cost; (c) detail the direct reimbursable costs in connection with the Work; (d) indicate the cumulative cost to date for all activities; (e) indicate the total monthly cost of the Work; and (f) include other information reasonably required by Purchaser.
- C. Each invoice shall, after approval by the Purchaser, be processed for payment in accordance with the terms of payment as set forth on the face of the Request for Proposal/Purchase Order, for the amount of each approved invoice less any monies retained per the terms of payment or under Section D below.
 - Unless otherwise set forth herein, payment terms are 2%10 Net 45 Days. Payment dates shall be calculated from the date of
 receipt of invoice or acceptance of the Work by Purchaser, whichever is later. Payments by Purchaser shall not be deemed
 evidence of acceptance by Purchaser of the services or goods called for hereunder.
 - Electronic Invoices. If it is reasonably able, Supplier shall utilize the Purchaser's then current Electronic Invoice Presentment and Payment Program to submit invoices and receive payment electronically from Purchaser.
- D. <u>Withholding.</u>
 - 1. If Purchaser has a claim under this Agreement, regardless of when it is discovered, including a claim that: (a) Consultant's invoice is erroneous; (b) the Work is deficient, defective or incomplete; (c) a third party claim has been asserted or there is reasonable evidence indicating the possibility of a claim; (d) Consultant fails to make a payment as and when due to a subcontractor or supplier for materials, labor or equipment; (e) Purchaser, another Consultant, subcontractor, or other party suffers damage or injury which is attributable to Consultant; or (f) Consultant has failed to supply any affidavit, release or waiver of lien which Purchaser may require pursuant to law; then Purchaser may withhold payment of, or set off the amount of its claim, costs, and/or losses against, any amount invoiced to it. If any monies are so withheld, they shall be paid only when, without cost to the Purchaser, the cause of such withholding has been eliminated. Moreover, if any monies are so withheld, Purchaser shall not be responsible for any interest payment to Consultant.
 - 2. New Jersey Withholding. If applicable, in accordance with New Jersey law, we shall withhold a portion of payments made to you (Supplier, Contractor, Consultant, or similar party) for services to construct, improve, alter, or repair a building, structure, or improvement to real property unless you provide written documentation that you are a corporation or registered with the State of New Jersey.
- E. Consultant is deemed to be self-employed; and accordingly, no sums are contemplated to be withheld from Consultant's compensation to cover the payment of income taxes, FICA (social security), FUTA (unemployment compensation) or other taxes. Consultant agrees to file all required federal, state and local income tax and other tax returns (including, without limitation, all required declarations of estimated tax) covering Consultant's compensation hereunder. Consultant agrees to pay all such taxes and contributions when due; and Consultant hereby indemnifies Purchaser and holds it harmless from and against any and all loss, cost and liability whatsoever incurred by or claimed against Purchaser for any failure of Consultant to comply herewith.

ARTICLE VI - STANDARD OF PERFORMANCE

- A. Consultant warrants that it shall perform and supply the Work with the care, skill, and diligence set forth by the applicable professional standards, if any, currently recognized by such profession. Consultant warrants that it shall be responsible for the quality, technical accuracy, completeness, delivery, and implementation of the Work. Consultant warrants that the Work shall be free from defects and shall conform to the requirements of this Agreement.
 - 1. In the event that there are no such standards, the Work shall be performed with due diligence and with the best efforts of the Consultant.
 - 2. Purchaser's review and approval of Consultant's or its Subcontractor's specifications, drawings, plans and other such documents shall in no way relieve or lessen Consultant's responsibilities set forth in this Agreement.
- B. Consultant shall cure any breach of the foregoing warranties at no cost to Purchaser and shall reimburse Purchaser for any damages that may be incurred by Purchaser as a result of reliance by Purchaser, its employees, agents, other Consultants or subcontractors on such Work or anticipated performance by Consultant. If Consultant should fail to cure such breach or if Purchaser determines that Consultant will be unable to cure such breach before the scheduled time of completion, Purchaser may correct such breach itself or through a third party and charge Consultant for the costs incurred therefor. The rights and remedies of the Purchaser set forth in this Section are in addition to any other rights and remedies provided by law.

ARTICLE VII - INTELLECTUAL PROPERTY RIGHTS

- A. <u>Ownership of Work and Data</u>. The Work and all Data associated with the Work, whether or not patentable, registrable as a copyrightable work, or registrable as a trademark or service mark, shall become the property of Purchaser and Purchaser shall own all intellectual property rights therein (including the rights to any patent, trademark or service mark, trade secret, and copyright therein). Consultant hereby agrees that any materials and works of authorship conceived or written by Consultant during the term of this Agreement that pertain in any material respect to the Work shall be done as "work made for hire" as defined and used in the Copyright Act of 1976, 17 USC §1 et seq., and that Purchaser, as the entity for which the work is prepared, shall own all right, title and interest in and to such materials, including the entire copyright therein. To the extent that any such materials, including ownership of the entire copyright therein.
- B. Infringement. Consultant warrants that the goods and services provided by Consultant hereunder are and will be original, do not and will not infringe on or misappropriate any United States or foreign patent, copyright, trademark, or other intellectual property rights of any third party, and have not been and will not be previously assigned, licensed or otherwise encumbered. If the Work or any portion thereof is held to constitute an infringement or misappropriation of the intellectual property rights of a third party, Consultant shall, at its expense and within a reasonable time, either (1) secure for Purchaser the right to use the Work or any portion thereof which is said to be infringing by procuring for Purchaser a license or otherwise, or (2) replace the Work or such portion thereof with non-infringing Work that meets the requirements of this Agreement, or (3) remove

such infringing Work or such portion thereof, as Purchaser may elect, and refund the sums paid therefor by Purchaser, together with any out-ofpocket costs incurred by Purchaser in connection with its purchase and use of the infringing Work, all without damage or injury to Purchaser's other property.

C. <u>Data Furnished by Purchaser</u>. All Data furnished by Purchaser in connection with the Work shall remain Purchaser's exclusive property. Consultant shall not use Purchaser-furnished Data for any purpose other than for the Work. Consultant shall: (1) sign and deliver a written itemized receipt for all Purchaser-furnished Data and shall be responsible for its safekeeping, and (2) return such Purchaser-furnished Data and all copies thereof to Purchaser upon completing the Work.

ARTICLE VIII - INDEMNITY

- A. <u>Consultant's Indemnity</u>. Consultant shall indemnify, defend, and hold harmless Purchaser, its subsidiaries and affiliates, and their respective agents, officers, employees, successors, assigns, and indemnitees (the "Indemnified Parties"), from and against any and all losses, costs, damages, claims, liabilities, fines, penalties, and expenses (including, without limitation, attorneys' and other professional fees and expenses, and court costs, incurred in connection with the investigation, defense, and settlement of any claim asserted against any Indemnified Party or the enforcement of Consultant's obligations under this Article VIII) (collectively, "Losses"), which any of the Indemnified Parties may suffer or incur in whole or in part arising out of or in any way related to the Work performed or to be performed, the presence of Consultant and/or its Subcontractors at Purchaser's Site, and/or the actions or omissions of Consultant and/or its Subcontractors, including, without limitation, any person employed by Purchaser, by Consultant, or by any Subcontractor; (2) damage to or loss of use of property of Purchaser, Consultant, any Subcontractor, or any third party; (3) any contractual liability owed by Purchaser to a third party; (4) any breach of or inaccuracy in the covenants, representations, and warranties made by Consultant under this Agreement; and/or (5) any violation by Consultant or any Subcontractor of any orlinance, regulation, rule, or law of the United States or any political subdivision or duly constituted public authority; subject, however, to the limitations provided in Section VIII(B) (for Work performed in states other than Pennsylvania). Purchaser shall be entitled to control the defense of any action indemnified hereunder, with legal counsel of its own choosing.
- action indemnified hereunder, with legal counsel of its own choosing.
 B. WITH RESPECT TO WORK PERFORMED OR TO BE PERFORMED WITHIN THE COMMONWEALTH OF PENNSYLVANIA, Consultant's indemnity obligations under Section VIII(A) shall apply in each case whether or not caused or contributed to by the fault or negligence of any or all of the Indemnified Parties, and Consultant expressly agrees that Consultant will indemnify, defend, and hold harmless the Indemnified Parties in connection with Section VIII(A) even if any such Losses are caused in whole or in part by the sole or concurrent negligence of one or more of the Indemnified Parties. Consultant agrees to waive and release any rights of contribution, indemnity, or subrogation it may have against any of the Indemnified Parties as a result of an indemnity claim asserted by another Indemnified Party under Section VIII(A). Section VIII(A) is intended to be an express written contract to indemnify as contemplated under Section 303(b) of the Pennsylvania Workers' Compensation Act (or any successor to such provision).
- C. WITH RESPECT TO WORK PERFORMED OR TO BE PERFORMED AT ANY LOCATION WHICH IS NOT WITHIN THE COMMONWEALTH OF PENNSYLVANIA, Consultant's indemnity obligations under Section VIII(A) shall not apply to any Losses to the extent such Losses are found to have been initiated or proximately caused by or resulting from the negligence or willful misconduct of any of the Indemnified Parties.
- D. Waiver of Immunities. If an employee of Consultant or its Subcontractor, or such employee's heirs, assigns, or anyone otherwise entitled to receive damages by reason of injury or death to such employee, brings an action at law against any Indemnified Party, then Consultant, for itself, its successors, assigns, and Subcontractors, hereby expressly agrees to waive any provision of any workers' compensation act or other similar law whereby Consultant could preclude its joinder by such Indemnified Party as an additional defendant, or avoid liability for damages, contribution, defense, or indemnity in any action at law, or otherwise. Consultant's obligation to Purchaser herein shall not be limited by any limitation on the amount or type of damages, benefits or compensation payable by or for Consultant under any worker's compensation acts, disability benefit acts, or other employee benefit acts on account of claims against Purchaser by an employee of Consultant or anyone employed directly or indirectly by Consultant or anyone for whose acts Consultant may be liable.
- E. <u>No Impairments</u>. Consultant's obligations under this Article VIII shall not be limited to the extent of any insurance available to or provided by Consultant.

ARTICLE IX - INSURANCE

1.

- A. <u>Consultant's Insurance</u>. Consultant agrees to secure and maintain in force minimum policies of insurance of the types listed below and shall furnish to Purchaser, prior to starting Work and throughout the duration of the Work, certificates of insurance evidencing current coverage listed below. These certificates shall be endorsed with substantially the following language:
 - "This policy will not be canceled or allowed to lapse, and no change shall be made in this policy which alters, restricts or reduces the insurance provided or changes the name of the insured without first giving at least thirty (30) days' notice in writing to FirstEnergy Service Company, Insurance Risk Management, 76 South Main Street, Akron, Ohio
 - 44308, with receipt of notice acknowledged." Commercial General Liability (CGL) insurance including products-completed operations, independent contractors, and contractual liability coverages. Coverage under this policy shall have limits of liability of not less than \$2,000,000 per occurrence, combined single limit for bodily injury (including disease or death), personal injury, and property damage (including loss of use) liability.
 - Automobile Liability insurance, including non-ownership and hired car endorsement, with minimum limits of \$1,000,000 per occurrence, combined single limit.
 - 3. Worker's Compensation coverage in the statutory amounts under the worker's compensation act(s) of the location(s) in which the Work is to be performed, for the current period.
 - 4. Employer's Liability with a minimum limit of \$1,000,000 for each accident or illness.
 - Any of the above per-occurrence limits may be satisfied by a combination of primary and excess liability coverage.
- B. <u>Additional Insured</u>. FirstEnergy Corp. and its subsidiaries and affiliates shall be included as an additional insured for CGL and Automobile Liability policies, it being understood that said policies shall be primary and non-contributory with insurance carried by Purchaser and shall contain a cross-liability clause providing severability of interests so that coverage will respond as if separate policies were in force for each insured. A signed copy of the endorsement adding FirstEnergy Corp. and its subsidiaries and its affiliates as an additional insured shall be attached to the certificate of insurance providing general liability coverage.
- C. <u>Lapse of Coverage</u>. In the event of cancellation or lapse of or prohibited change in any policy for which a certificate is required to be furnished under this Agreement, Purchaser shall have the right to suspend the work of Consultant until the policy and certificates in evidence thereof are reinstated or arrangements acceptable to Purchaser are made pending issuance of new policies and certificates. If any such insurance shall be about to lapse or be canceled, Consultant shall, at least thirty (30) days before coverage thereunder ceases, obtain a new policy with like coverage, and if Consultant fails to do so, Purchaser may obtain insurance protecting it from the hazards covered by such lapsed or cancelled policy, and all premiums and expenses of such insurance shall be charged against Consultant and shall be a legitimate deduction from any sum due it from Purchaser.
- D. <u>Waiver of Subrogation</u>. Consultant and any of its Subcontractors shall waive and hereby waives any rights of subrogation which they or any of their insurers may have against Purchaser, its affiliates, and each non-affiliated company disclosed in this Agreement, their respective agents or employees.

ARTICLE X - TERM & TERMINATION

- A. Purchaser may terminate this Agreement at any time, including with respect to any Work in process, if (a) Consultant fails to obtain, or maintain as valid, any license, permit or approval required to allow lawful performance of the Work; (b) Purchaser determines, in its sole discretion, that Consultant is not complying with any law; (c) Consultant has failed to perform the Work in accordance with the acceptable practices and customary diligence of the profession or industry of which Consultant is a member or in a timely way; (d) Consultant breaches any material term or condition of this Agreement; or (e) Purchaser determines, in its sole discretion, that Consultant is not financially stable or responsible. Notice of termination pursuant to this Paragraph X(A) shall be in writing and shall be effective upon receipt thereof.
- B. Purchaser may terminate this Agreement for any reason at any time upon ten (10) days prior written notice. In the event of termination under this Section X, Consultant shall be entitled to and shall receive payment in full for all services provided and all reimbursable expenses incurred up to and including the effective date of termination.

ARTICLE XI - COMPLIANCE WITH LAWS, REGULATIONS, AND PERMITS

- A. During the performance of this Agreement, Consultant shall strictly comply with all federal, state and local laws, rules or regulations and executive orders applicable to the Work.
- B. Without limiting the foregoing, and unless exempted under the rules, regulations and relevant orders (41 CFR Chapter 60) of the Secretary of Labor, in connection with the Work, Consultant agrees as follows:
 - 1. Consultant shall not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin. Consultant shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to, employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Consultant shall post in conspicuous places, available to employees and applicants for employment, notices to be provided by the U.S. Department of Labor setting forth the provisions of this nondiscrimination clause.
 - Consultant shall state, in all solicitations or advertisements for employees placed by or on its behalf, that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex or national origin.
 - 3. Consultant shall send to each labor union or representative of workers with which it has a collective bargaining agreement, contract or understanding, a notice to be provided by the U.S. Department of Labor, advising the labor union or workers' representative of Consultant's commitments under the following provisions, as amended from time to time:
 - a. Section 202 of Executive Order 11246 (Equal Opportunity);
 - b. Executive Order 11701 (Employment of Veterans);
 - c. Executive Order 11758 (Employment of the Handicapped);
 - d. Executive Order 11141 (Employment Discrimination Because of Age); and
 - e. Executive Order 11625 and Public Law 95-507 (Utilization of Disadvantaged Business Enterprises), and shall post copies thereof in conspicuous places available to employees and applicants for employment.
- C. Because Purchaser (or if applicable, one or more affiliates or non-affiliated companies) is a supplier of electricity and/or services to the U.S. government, it must include, and Consultant shall comply with, the below listed clauses from the Federal Acquisition Regulation ("FAR"), 48 Code of Federal Regulations Chapter 1, as amended from time to time, if the applicable criteria specified in the FAR (those currently applicable are summarized parenthetically) are met. If Consultant's subcontracts meet such criteria, Consultant shall include the terms or substance of the applicable clause in its subcontracts. If the provisions of this paragraph C conflict with the balance of the Agreement, this paragraph C shall prevail.
 - 1. 52.203-6 Restrictions on Subcontractor Sales to the Government (required in all subcontracts under this Agreement which exceed \$100,000);
 - 2. 52.203-7 Anti-Kickback Procedures (required in all subcontracts under this Agreement which exceed \$100,000, other than those for commercial items);
 - 3. 52.204-2 Security Requirements (required in all subcontracts under this Agreement which involve access to classified information);
 - 4. 52.219-8 Utilization of Small Business Concerns (required in all non-personal subcontracts with a value greater than \$100,000);
 - 52.219-9 Utilization of Small Business Concerns will be included in all subcontracts that offer further subcontracting opportunities, and that Purchaser will require all subcontractors (except small business concerns) that receive subcontracts in excess of \$550,000 (\$1,000,000 for construction) to adopt a subcontracting plan that complies with the requirements of this clause;
 - 52.222-4 Contract Work Hours and Safety Standards Act—Overtime Compensation (required in all subcontracts exceeding \$100,000, unless otherwise exempted);
 - 52.222-26 Equal Opportunity (required in all contracts/subcontracts; however, if the cumulative value of nonexempt Federal contracts/subcontracts is \$10,000 or less in any 12 month period, including the 12 months preceding the award, the contractor/subcontractor is exempt from the clause requirements);
 - 8. 52.222-35 Affirmative Action for Disabled Veterans and Veterans of the Vietnam Era (required in all contracts/subcontracts with a value of \$10,000 or more);
 - 9. 52.222-36 Affirmative Action for Workers with Disabilities (required in all contracts/subcontracts with a value of \$10,000 or more);
 - 10. 52.222-37 Employment Reports on Disabled Veterans and Veterans of the Vietnam Era (required in all contracts/subcontracts with a value of \$10,000 or more);
 - 11. 52.223-14 Toxic Chemical Release Reporting (Except for acquisitions of commercial items, and unless otherwise exempt, this clause is required for competitive subcontracts expected to exceed \$100,000, including all options, and in any resultant subcontract exceeding \$100,000, including all options);
 - 12. 52.225-13 Restrictions on Certain Foreign Purchases (required in all subcontracts for contracts with a value exceeding \$2,500, unless otherwise exempted);
 - 13. 52.222-11 Subcontracts (Labor Standards) (required in all service contracts in excess of \$2,000 for construction within the United States) This provision requires that the following clauses be inserted into contracts meeting the criteria: Davis-Bacon Act, Contract Work Hours and Safety Standards Act—Overtime Compensation, Apprentices and Trainees, Payrolls and Basic Records, Compliance with Copeland Act Requirements, Withholding of Funds, Subcontracts (Labor Standards), Contract Termination—Debarment, Disputes Concerning Labor Standards, Compliance with Davis-Bacon and Related Act Regulations, and Certification of Eligibility.
 - 14. 52.222-41 Service Contract Act of 1965, as Amended (required in all service contracts subject to the Act (i) which exceed \$2,500; or (ii) which are for an indefinite dollar amount and the contracting officer does not know in advance that the contract amount will be \$2,500 or less).
- D. Consultant shall comply with the Department of Commerce Export Administration Regulations ("EAR") in 15 CFR Chapter VII, subchapter C, including 15 CFR Section 734.2 which prohibits the export or release of controlled technology and/or software to foreign nationals within the United States who are not lawfully admitted to the United States for permanent residence. Consultant shall confirm that these regulations either do not apply to Consultant's activities under the terms of this Agreement or that Consultant has procedures to ensure compliance. If Consultant is directly or indirectly employing a foreign national not currently lawfully admitted to the United States for permanent residence to perform work under this Agreement, Consultant warrants to Purchaser that such employment does not violate the foregoing regulations.
- E. FOREIGN CORRUPT PRACTICES ACT PROVISIONS The following provisions shall apply to Consultant (unless it is a foreign concern) if it performs or obtains any of the Work in a foreign country:

- All payments to Consultant shall be by check or bank transfer only. No payment shall be in cash or by bearer instrument and no payment shall be made to any corporation or person other than Consultant. All payments due hereunder shall be made to Consultant at its principal place of business in the United States, even if Consultant performs or obtains the Work in a foreign country.
- 2. Consultant represents that it is familiar with the Foreign Corrupt Practices Act (the "FCPA") and its purposes; and that, in particular, it is familiar with the prohibition against paying or giving of anything of value, either directly or indirectly, by an American company to an official of a foreign government for the purpose of influencing an act or decision in his official capacity, or inducing him to use his influence with that government, to assist a company in obtaining or retaining business for or with, or directing business to, any person.
- 3. Consultant represents that none of its partners, purchasers, principals, and staff members are officials, officers, or representatives of any government or political party or candidates for political office. Consultant shall not use any part of its compensation for any purpose, and shall take no action, that would constitute a violation of any law of the United States (including the FCPA) or of any jurisdiction where it performs services or manufactures or sells goods. Purchaser represents that it does not desire and will not request any Work by Consultant that would or might constitute any such violation.
- 4. Purchaser may terminate the Contract for default at any time, without any liability or obligation, if it believes, in good faith, that Consultant has violated this Article. Any action by Consultant which would or might constitute a violation of the FCPA, or a request for such action from Consultant's representative, shall result in immediate termination of the Contract for default. Should Consultant ever receive, directly or indirectly, from any Purchaser representative a request that Consultant believes will or might violate the FCPA, Consultant shall immediately notify Purchaser's general counsel.
- 5. Purchaser may disclose the existence and terms of the Contract, including the compensation provisions, at any time, for any reason and to whomever Purchaser's general counsel determines has a legitimate need to know the same including, without limitation, the United States government, the government of any country where the Work is performed or obtained, and any regulatory agency with jurisdiction over Purchaser.
- F. Consultant shall comply with the Occupational Safety and Health Act of 1970 and all rules, regulations, standards, requirements, and revisions thereof or adopted pursuant thereto.
- G. Unless this Agreement otherwise provides, Consultant shall, at its own expense, obtain from appropriate governmental authorities all permits, inspections and licenses which are required for the Work and comply with all rules and regulations of insurance companies which have insured any of the Work.
- H. Any costs, fines, penalties, awards, damages or other liabilities associated with any violations of this Article shall be borne and paid by Consultant.
 If applicable, Consultant agrees to comply with all Hazard Communication Standards promulgated by the Occupational Safety and Health Administration (OSHA), 29 CFR 1910.1200, et seq., as amended, to insure that chemical hazards produced, imported, or used with the workplace are evaluated, and that hazard information is transmitted to affected employees of Consultant, of any subcontractor or of Purchaser.
- J. Consultant acknowledges and agrees that its employees, if given access to FirstEnergy's (FirstEnergy Corp., its subsidiaries and affiliates) Information and Control Systems, may be required to sign an agreement governing Consultant's and such employees' use of such systems.
- K. Consultant shall comply with all requirements of any governmental regulatory codes of conduct applicable to the work performed under this Agreement, including the FERC Standards of Conduct (Order No. 2004); New Jersey BPU Affiliate Relations, Fair Competition, and Accounting Standards (N.J.A.C. 14:4-5.1 et seq.); Ohio Corporation Separation Rules (O.A.C. 4901:1-20-16); and Pennsylvania PUC Competitive Safeguard regulations (52 Pa. Code §§ 54.121 and 54.122); or any successor to those provisions.
- L. Consultant shall comply with all requirements of Executive Order 13201 (E.O. 13201) mandating Government contractors and subcontractors to post to inform their employees that under Federal law they have certain rights related to union membership and the use of union dues and fees.

ARTICLE XII- SET-OFF

Purchaser shall be entitled at all times to set-off any amount owing from Consultant to Purchaser or any affiliate of Purchaser against any amount payable by Purchaser hereunder, and in no event shall Purchaser be liable for interest.

ARTICLE XIII - LIMITATION OF LIABILITY

Under no circumstances shall Purchaser, its subsidiaries and affiliates, be liable for any anticipated profits or for incidental or consequential damages. <u>ARTICLE XIV – ASSIGNMENT AND SUBCONTRACTS</u>

- A. Consultant may not assign any rights or claims, or delegate any duties under this Agreement, in whole or in part, without the prior written consent of Purchaser, which may be withheld at Purchaser's sole discretion. In the event of any assignment or delegation permitted hereunder, Consultant shall continue to be liable for the performance of its obligations hereunder. For purposes of this Agreement, the term "assignment" shall include a transfer of Consultant's rights hereunder, and/or a succession to its obligations hereunder (i) by operation of law, including a merger, consolidation, corporate reorganization, reclassification or liquidation of Consultant or a sale of all or substantially all of Consultant's assets, or (ii) by a change in the control of Consultant. As used herein, "control" means the possession, directly or indirectly, of the power to direct or cause the direction of Consultant's management and policies, whether through ownership of or the right to vote a majority of the voting stock in the case of a corporation, or the comparable interest in the case of any other entity, or by contract, or otherwise.
- B. If Consultant proposes to subcontract any of the Work hereunder, it shall submit to Purchaser the name of each proposed Subcontractor(s) prior to engaging such Subcontractor, with the proposed scope of the Work to be undertaken and such information about the Subcontractor(s) as Purchaser may reasonably request. Purchaser may reject any and all Subcontractors at its absolute discretion.

ARTICLE XV - NON-WAIVER

The delay or failure of either party to assert or enforce in any instance strict performance of any of the terms of this Agreement or to exercise any rights hereunder conferred, shall not be construed as a waiver or relinquishment to any extent of its rights to assert or rely upon such terms or rights at any later time or on any future occasion.

ARTICLE XVI- PROHIBITION OF PUBLICITY

Consultant shall not refer to this Agreement or reference the Purchaser, its subsidiaries and affiliates, directly or indirectly, in its advertising or promotional materials without express written consent of Purchaser.

ARTICLE XVII CONFIDENTIALITY

- A. Consultant agrees that the Work, Data, drawings, plans, specifications, calculations, reports and other documents and information associated with the Work, regardless of form, and any information that Consultant receives from Purchaser, or observes in connection with its business dealings with Purchaser, shall be deemed and treated by the parties as the confidential information of the Purchaser (referred to herein as "Confidential Information"). Consultant shall return Data and Confidential Information to Purchaser upon completion of performance of this Agreement.
- B. Consultant shall not use or disclose Confidential Information for any reason or purpose without the prior written consent of the Purchaser. Consultant may use Confidential Information for the sole purpose of the performance of this Agreement for the benefit of the Purchaser. Consultant will take all precautions and actions to prevent sale, transfer, sublicense, use or disclosure of Confidential Information to any third party.
- C. Notwithstanding, the restrictions set forth in this Article XVII shall not apply to Confidential Information: (a) which is in the public domain at the time it was disclosed by Purchaser to Consultant; or (b) which can be demonstrated by written records was already known to Consultant prior to the time it was disclosed to Consultant by Purchaser; or (c) which is independently developed by employees of Consultant who did not receive Confidential Information; or (d) which is disclosed to Consultant from a source other than Purchaser without breach of this or any other agreement by the person disclosing to the Consultant and without breach of this Agreement or any other duty of the Consultant.

ARTICLE XVIII- SEVERABILITY

If any portion of this Agreement is held invalid, the Parties agree that such invalidity shall not affect the validity of the remaining portions of this Agreement, and the Parties further agree to substitute for the invalid portion a valid provision that most closely approximates the economic effect and intent of the invalid provision.

ARTICLE XIX - FORCE MAJEURE

Neither party shall be liable to the other for any expenses, loss or damage resulting from delays or prevention of performance arising from causes beyond its reasonable control caused by fire, flood, accident, strikes, civil commotion, governmental or military authority, insurrection, riots, embargo, unavoidable delays in transportation, acts of God, or public enemy. In the event of any delay arising by reason of any of the foregoing events, the time for performance shall be extended by a period of time equal to the time lost by reason of such delay or as otherwise agreed to in writing by the parties. The Consultant will notify the Purchaser as soon as reasonably practical and in writing within forty-eight (48) hours of the Consultant's becoming aware of a force majeure occurrence as defined herein which will or has caused a delay. Within seven (7) working days of such occurrence, the Consultant will further define the precise cause or causes of the delay, the measures taken or to be taken to minimize the delay, the time table by which the measures will be implemented, the duration of the delay, the extension of time for performance of the Agreement the Consultant is claiming and documented evidence that support the claim. The Purchaser will review the Consultant's claim and advise the Consultant in writing of Purchaser's decision regarding the Consultant's claim for extension of time for performance of the Agreement.

ARTICLE XX - SALES TAX

Taxes, if any, shall be shown separately on any bids or invoices sent to Purchaser. Direct Payment Permit Numbers authorizing purchase of tangible personal property without payment of the tax at the time of purchase, have been issued to Purchaser. The Permit Numbers are 98001123 for Ohio Edison Co., 128 for Pennsylvania Power Co., 98002722 for FirstEnergy Nuclear Operating Co., 98000312 for The Cleveland Electric Illuminating Co., 98001495 for The Toledo Edison Co., DP-210-485-010 for Jersey Central Power and Light Co., 127 for Pennsylvania Electric Company Co., 135 for Metropolitan Edison Co. and 98-002723 for FirstEnergy Generation Corp. In Michigan, a Michigan Sales and Use Tax Certificate of Exemption shall be made available upon request. Purchaser agrees to maintain adequate records of all purchases and pay tax on the taxable items directly to the Treasurer of each respective State. In Ohio, Direct Payment Permits do not apply to construction contracts under which the contractor is considered to be the consumer and liable for the tax on materials incorporated into a structure or improvement as provided in Section 5739.01 (B) Ohio Revised Code. Pennsylvania Direct Payment Permits do not apply to construction contracts under which a contractor is considered to be the consumer and liable for the tax on materials incorporated into the property of Pennsylvania companies. Pennsylvania Sales and Use Tax Regulations Sections 31.11 through 31.16 provide for tax-exempt purchase of materials by a contractor for those materials that will be incorporated into and become a part of the property of Pennsylvania companies. In order to qualify, the property must be directly used in the rendition of the Public Utility Service. Contract bids should be submitted accordingly. The successful bidder will be issued a properly executed "Certification" form upon request to permit tax-exempt purchase of qualifying materials.

Questions concerning Pennsylvania or New Jersey sales taxes should be directed to the FirstEnergy Service Company, at (973) 401-8323. Questions about Ohio sales taxes (and states other than Pennsylvania or New Jersey), should be directed to the FirstEnergy Service Company, at (330) 384-5334. **ARTICLE XXI - GOVERNING LAW**

Unless otherwise stated on the face of the Purchase Order, this Agreement is to be governed by and interpreted in accordance with the law of the State of Ohio. The parties expressly exclude the applicability of the United Nations Convention on Contracts for the International Sale of Goods, if the same would otherwise apply here. Any legal suit, action, or proceeding to collect payment due hereunder from Purchaser, or otherwise arising out of or relating to this Agreement, may be (and, if against Purchaser, must exclusively be) instituted in a State or Federal Court in the County of Summit, State of Ohio, and Consultant waives any objection which it may have now or hereafter to the laying of the venue of any such suit, action or proceeding and hereby irrevocably submits to the jurisdiction of any such court in any such suit, action or proceeding.

ARTICLE XXII - INTERPRETATION

The following principles of interpretation shall apply to this Agreement: (i) paragraph headings and captions are inserted for convenience only and shall not be considered in construing intent; (ii) neither Purchaser nor Consultant shall be considered to be the party responsible for the drafting of any particular provision of this Agreement; (iii) the words "hereof," "herein," "hereunder," and words of similar import shall refer to this Agreement as a whole and not to any particular provision hereof; (iv) the word "including" means "including, but not limited to" and shall be interpreted as broadly as possible; (v) words in the singular include the plural and vice versa, (vi) All references to "days" shall be calendar days (and not merely business days, unless the Agreement so states), and (vii) any provision hereof that is prohibited or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions hereof or affecting the validity or enforceability of such provision in any other jurisdiction and the provision that is prohibited or unenforceable shall be reformed or modified to reflect the parties' intent to the maximum extent permitted by applicable legal requirements.

ARTICLE XXIII - EXECUTION AND COUNTERPARTS

This Agreement may be executed in multiple counterparts, which taken together shall constitute an original without the necessity of all parties signing the same page or the same documents, and may be executed by signatures to electronically or telephonically transmitted counterparts in lieu of original printed or photocopied documents. Signatures transmitted by facsimile shall be considered original signatures.

IN WITNESS WHEREOF, the parties have duly executed this Ag	preement as of, 2009.
FIRSTENERGY SERVICE COMPANY	CONSULTANT
Ву	Ву
Title	Title
Date	Date

SUPPLEMENTAL TERMS AND CONDITIONS FOR CONTRACTS WITH CONSERVATION SERVICE PROVIDERS ("CSPs")

NON-AFFILIATION

The CSP represents that it is not an affiliate of any Electric Distribution Company ("EDC") in the Commonwealth of Pennsylvania, including FirstEnergy's EDCs Pennsylvania Power Company, Metropolitan Edison Company, or Pennsylvania Electric Company.

MERGER

If CSP should merge with a Pennsylvania EDC or otherwise restructure in such a manner as to provide any such EDC with a direct or indirect ownership interest in CSP, then CSP shall immediately notify Purchaser of any such transaction as soon as the law permits. CSP acknowledges that in such an event, this Agreement shall automatically terminate and CSP shall be liable for any and all reasonable costs incurred by Purchaser to replace CSP with a comparable vendor. This remedy shall be in addition to any and all other legal or equitable remedies available to Purchaser.

CSP REGISTRATION

CSP represents and warrants that it has complied with any and all filings required by law, including without limitation, any registration requirements of the Pennsylvania Public Utility Commission that are necessary to become a registered CSP. CSP further represents and warrants that it will maintain such registration in good standing throughout the term of this Agreement. CSP shall provide Purchaser with proof of valid registration or any renewals thereof. CSP acknowledges that the failure to maintain valid registration shall constitute a breach of this Agreement. In such an event, CSP shall be liable to Purchaser for any and all reasonable costs incurred by Purchaser to replace CSP with a comparable vendor. This remedy shall be in addition to any and all other legal or equitable remedies available to Purchaser.

Part 3 of Appendix C to EE&C Plan –

CONFIDENTIAL Proposal of Black & Veatch

Note: The Proposal portion of the approved Black & Veatch CSP Contract contains Confidential employee salary and fee information which will cause competitive harm to the CSP if publicly disseminated. The Company has requested full confidential treatment of the Proposal portion of the Approved CSP Contract, in accordance with the approved Commission Template and the Commission's Act 129 Implementation Order. This Proposal portion of the Approved CSP Contract has been marked with a "CONFIDENTIAL" stamp and was submitted under seal to the Secretary's Office with the original EE&C Plan. No changes have been made to this Proposal.

Appendix D All measure budgeted costs by year, sum to programs, including administrative, marketing, and incentives costs.

Appendix D-1 Measure budgeted for 7 months starting November 1, 2009, ending May 31 2010

Appendix D-1

Utility Utility Relater Sales Rebate Discount Service Provider Spring & Incentive Repate Incentive Repate Repate Discount Service Provide Shipping & Incentive Repate Incenticand Repate Incenticand Repate <tht< th=""><th></th><th>\$54,500.0</th><th>54,2/5.0 \$150.0</th><th>0.0016</th><th>1.4240 D</th><th>\$16,218.0</th><th>S68,684.4</th><th>\$15,246.3</th><th>\$13,917.3</th><th>\$96,350.4</th><th>* •</th><th></th><th></th><th></th><th></th><th></th><th>522,118.2 S</th><th></th><th>\$5,978.0 \$0</th><th>\$42,234.4 St</th><th>\$15 000 U</th><th></th><th>_</th><th></th><th>0.6 0.616,616 0.8 5.73.8 50</th><th></th><th></th><th></th><th>\$27,455.8 \$1</th><th></th><th></th><th>\$ 0.000.0</th><th></th><th></th><th></th><th></th><th>\$10,000.0</th><th>\$40,000.0 \$0.0</th><th>\$364,583.3</th><th></th><th>\$2,538.6</th><th>\$13,784.1</th><th>\$1,782.0</th><th>\$7.240.9</th><th>\$6,464.7</th><th></th><th>\$6,158.7 \$65.60</th><th>\$4.640.6</th><th>0.0404 01 406 0</th></tht<>		\$54,500.0	54,2/5.0 \$150.0	0.0016	1.4240 D	\$16,218.0	S68,684.4	\$15,246.3	\$13,917.3	\$96,350.4	* •						522,118.2 S		\$5,978.0 \$0	\$42,234.4 St	\$15 000 U		_		0.6 0.616,616 0.8 5.73.8 50				\$27,455.8 \$1			\$ 0.000.0					\$10,000.0	\$40,000.0 \$0.0	\$364,583.3		\$2,538.6	\$13,784.1	\$1,782.0	\$7.240.9	\$6,464.7		\$6,158.7 \$65.60	\$4.640.6	0.0404 01 406 0
Utility Retailer Safes Robit Discount Program Rate Class Labor/Cost Marketing M&V Incentive Processing Tracking Demand Res \$1,853 \$6,563 \$1,090.0 \$0.0		S0.0	\$0.0 \$0.0			\$10,812.0	S0.0	\$0.0	S0.0	5 0.0	0.0¢	0.06	\$0.0	S0.0	S0.0	\$2,671.8	50.0 510 773 5	\$37 366 8	\$0.0	\$0.0	60.0	\$0.0	\$0.0	\$0.0 50.0	50.0 50.0	0.02	\$0.0 \$	\$0.0	S0.0	50.0 50.0	\$0.0	\$0.0	\$0.0 \$0.0	50.0 50.0	S 0.0	S0.0	\$0.0	50.0 S0.0			\$0.0	\$4,241.3	\$1,188.0 20.0	0.06	\$4,309.8		\$4,105.8 \$0.0	50.0 20.0	0.05
Utility Retailer Safes Robit Discount Program Rate Class Labor/Cost Marketing M&V Incentive Processing Tracking Demand Res \$1,853 \$6,563 \$1,090.0 \$0.0	in the bar	\$196,200.0	516,245.0 5570.0	0.0/CS	0.05	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0 \$0.0	0.06	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0 \$0.0	80 0 80 0	\$ 0.0	S0.0	0.03	S0.0	S0.0	S0.0	0.0¢	50.05	\$0.0	\$0.0	\$0.0	\$0.0 \$117 395 8	\$215,833.3	S0.0	\$0.0 \$0.0	50.0 50.0	\$0.0	\$0.0	\$0.0 20.0	\$240.000.0	\$0.0		S0.0	S0.0	\$0.0 \$0.0	0.04	\$0.0		\$0.0 \$0.0	50.0 50.0	0.00
Utility Retailer Safes Robit Discount Program Rate Class Labor/Cost Marketing M&V Incentive Processing Tracking Demand Res \$1,853 \$6,563 \$1,090.0 \$0.0		\$49,050.0	52,565.0	50 640 0	0.270.53	\$8,109.0	\$181,326.9	\$27,443.3	\$0.0	50.0 50.0	0.08	50.0 50.0	\$0.0	50.0	\$0.0	\$1,001.9	50.0 50 205 0	203417	\$0.0	\$0.0	50 A	S0.0	\$0.0	\$0.0 \$0.0	0.0%	0.05	\$0.0 \$	\$0.0	\$0.0	50.0 50.8333	\$20,833.3	\$0.0	50.0 50.0	50.0 \$0.0	S0.0	\$0.0	\$0.0	50.0 50.0	\$0.0		S 0.0	\$1,060.3	\$100000	8.624,416 1.0112	S1,077.4		\$1,026.4 \$0.0	S0.0	0.00
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asure Name	110212011	Demand	Demand	1 Demand	SUDDY SON-I	1-Res Audits	2-RES App Turn-In	2-RES App Turn-In	3-RES EE HVAC	3-RES EE HVAC	3-RES EE HVAC	3-RES EE HVAC	J-NES EE N AC 4-Res-EE P	4-Res-EE P	4-Res-EE P	1-Res Audits	4-Res-EE P	4-Res Audits	4-Res-EE P	4-Res-EE P	4 B. CE B	4-Ros-EE P	4-Res-EE P	4-Res-EE P	I-Res Audits	4 Poster P	4-Res-EE P	4-Rcs-EE P	4-Res-EE P	4-Res-EE P	5-RES New Con	6-Res Whole	6-Res Whole	6-Res Whole 6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole 6 Dec Whole	7-Low Income		7-Low Income	1-Res Audits L1	1-Res Audits I.J	2-KES App Turn-In LI	I-Res Audits LI		4-Res-EE P LI	4-Res-EE F LI 4-Res-FF P I I	4-Res-BE / U
Me DLC-CAC DLC-Pool Pumps DLC-Water Heat		1LC-CAC	DLC-Pool Pumps	ULU-Water Heat	Freshorite Audits - CFL 4 - LOW FIGW 2	1-Kes nume Augus - CEL 4 - LOW 710W 2 Schools Childern Education-No Saving:	Refrigerator/Freezer recycling	Room Air Conditioners	ASHP - SEER 15	CAC - SEER 15	CAC - Maintenance	Furnace Fans	EE Otomia Source near rump Solar Water Heating	HP Water Heater	EE Water Heater	Programable Thermostat_Heat	Programable Thermostat_CAC	CEL bulbs regular-15 CEL bulbs remijar-15	CFL bulbs regular - Outside - 15	CFL bulbs regular - 19	Clothes Washer Energy Star, Electric Water heater,	Dehumidifiers	Freezers Energy Star-Chest Freezer	Holiday Lights	LED Night Light	Pump and Motor Single Speed	Refrigerators-Freezers Energy Star - Stor by Star Refrigerators-Freezers Energy Star - Ton Freezer	Room Air Conditioners	Smart Strip plug outlet	Torchiere Floor Lamps	Residential New Construction - 30%	Ceiling Fans	Estar Windows	Duct sealing 20 leakage base 1 nw Flow Showerheads	kitchen Aerator	Bathroom Acrator	Pipe Wrap	Roof Insulation	withole Burnents Low Income Warm Program Through Act125	Low Income Warm Program Through Act129	(Additional SmartStrips)	1-Rcs Home Audits - CFL 4 - Low Flow 2 Water Heat	Schools Childern Education-No Saving:	Refrigerator/Freezer recycling	CFL bulbs regular-15 -Free No Water Heat	CFL bulbs regular-15 -Free No Water Heat Mailed At	Request	CFL builds regular - Outside - 15 - Store Acoates OFT builds remilar - 19 . Store R shares	CFL builds regular - 19 - Store Kebates

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	Incentive Rebate for Equip	\$7,833.4 \$7,958.3 \$4,557.3 \$13,292.2 \$0.0 \$0.0 \$10,606.2 \$10,606.2	\$237.0 \$2,529.3 \$166.7 \$166.7 \$166.7 \$166.7 \$166.7 \$166.7 \$1000.0 \$1333.3 \$44,615.6 \$0.0 \$15,000.0 \$15,000.0 \$15,000.0 \$14,000.0 \$14,000.0 \$14,000.0	\$2,000.0 \$12,500.0 \$400.0 \$1,250.0 \$1,250.0 \$1,250.0 \$1,250.0 \$1,250.0 \$1,250.0 \$1,250.0	\$7,500.0 \$20,000.0 \$20,000.0 \$97,151.9 \$6,983.8 \$5,983.4 \$5,983.4 \$5,983.4 \$5,900.0 \$13,727.9 \$13,250.0\$13,250.0 \$13,250.0 \$13,250.0\$13,250	\$57,829,6 \$144,422.7 \$36,710,0 \$25,000,0
	Incentive Shipping & Other	\$2,321,0 \$5,305.5 \$3,038.2 \$0,0 \$0,0 \$0,0 \$0,0 \$0,0 \$0,0	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0	8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	800 0 800 0 80 0 80 0 80 0
	ervice Provide Equip/Audit	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	80.0 80.0 80.0 80.0
	Service Provider Service Provide Costs Equip/Audit	\$580.3 \$1,326.4 \$759.6 \$0.0 \$0.0 \$5,303.1 \$5,303.1 \$5,303.1	500 500 500 500 500 500 500 500 500 500	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	 800 800	\$0.0 \$0.0 \$0.0
	Retail Store Discount So Tracking	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	800 800 800 800 800 800 800 800 800 800	800 800 800 800
	Rebate Processing	0.08 8.01 8.01 9.02 0.08 0.08 0.08 0.08 0.08	\$94.8 \$1,011.7 \$166.7 \$166.7 \$2,666.7 \$2,00 \$0,0 \$0,0 \$0,0 \$2,00 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,00000 \$2,00000 \$2,00000 \$2,00000 \$2,00000 \$2,00000 \$2,00000 \$2,00000 \$2,00000 \$2,0000000000		জ	512,3438 52,9468 51,9468 51,560 81500
-1	Retailer Sales Incentive	\$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0		51,0 51,0,0 51,3,0,0 52,5 52,5 52,5 52,5 52,5 52,5 52,5	80.0 80.0 81,500.0 1,500.0
Appendix D-1	M&V	\$72.5 \$165.8 \$165.8 \$94.9 \$99.9 \$0.0 \$0.0 \$0.0 \$0.0 \$0.0	\$11.8 \$126.5 \$20.8 \$20.8 \$20.8 \$333.3 \$0.0 \$0.0 \$100.0 \$100.0 \$100.0	\$60.0 \$225.0 \$40.0 \$50.0 \$50.0 \$50.0 \$50.0 \$50.0 \$50.0	\$100.0 \$100.0 \$100.0 \$242.9 \$209.2 \$209.2 \$209.2 \$209.2 \$209.2 \$209.2 \$209.2 \$209.2 \$209.4 \$200.0 \$10.9 \$10.2 \$500.0 \$10.0944 \$500.0 \$500.0 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$100.00 \$200.20 \$2	51446 535310 535711 5250.0
	Marketing	\$786 \$6,250 \$6,250 \$7,769 \$7,769 \$7,750 \$7,000 \$7,000 \$7,86 \$5,250	\$6,875 \$6,875 \$6,875 \$6,875 \$6,875 \$6,875 \$6,875 \$6,875 \$6,875 \$6,875 \$6,875 \$5,425 \$3,425 \$3,325 \$3,325	\$3,245 \$3,750 \$3,165 \$3,175 \$3,175 \$3,175 \$3,175 \$3,175 \$3,175	83,225 83,225 83,225 83,266 83,404 85,717 85,717 85,717 85,717 85,717 85,717 85,717 85,717 85,717 85,717 85,717 81,725 81,755 81	53,270 53,406 53,475 53,375
	Utility Labor/Cost	\$2,423 \$2,023 \$1,158 \$1,175 \$1,177 \$2,475 \$2,475 \$2,475 \$318 \$318 \$318	\$145 \$1,543 \$224 \$224 \$254 \$24,067 \$4,067 \$1,017 \$14,188 \$1,017 \$14,188 \$5700 \$5700 \$5700 \$5700 \$5620	\$280 \$1,425 \$52 \$335 \$335 \$335 \$335 \$335 \$335 \$33	8670 8679 8679 8577 8577 8577 8577 8507 8507 8507 851111 851,917 851,914 851,914 851,914 8180 8180 8180 8180 8180 8180 8180 81	\$1,619 \$4,112 \$500 \$500
	Rate Class	R es R es R es R es S M C & I LG C & I LG C & I LG C & I LG C & I	LG C&L LG C&L LG C&L LG C&L SM C&L LG C&L LG C&L LG C&L LG C&L SM	SM C&I SM	SM C&I SM	LG C&I LG C&I LG C&I LG C&I
	Program	7-Low Income 7-Low Income 8-Multiple Family 8-Multiple Family 1-C/1 Audis 1-C/1 Audis 1-C/1 Audis 1-C/1 Audis	 2-Governmental Programs 3-Cf Equip 3-Cf Equip 3-Cf Equip 	3-C/I Equip 3-C/I Equip 3-C/I Equip 3-C/I Equip 3-C/I Equip 3-C/I Equip 3-C/I Equip		4-C/I Equip 4-C/I Equip 4-C/I Equip 4-C/I Equip
	Measure Name	Low Income Lighting-Warm ShnarStrip L. And Income Lighting-Low Using Multiple Family - TS-Lighting Multiple Family - TS-Lighting Commercial, Industrial Audit - Lange Commercial, Industrial Audit - Lange Commercial, Industrial Audit - Gov	Exterior HID replacement above 175 W to 230W HID retroff. HPT8 4ft 4 lamp, T12 to HPT8 LED Exit Signa Electronic Fixtures (Retrofft Only Octopancy Sassas under 300 W LED Patter Traffe Signals LED Pedestrian Signals LED Pedestrian Signals LED Pedestrian Signals Water-Coold cent Chiller 150 - 300 ton 0.57 kW/non with 0.46 kW/non HPLV Ac 45,000 1 Ft, AC 45,000 155,000 AC 240,000 AC 240,000	Electric Dyser CLE LIFTI, LIEGTIC Water Indater, Electric Dyser Demand-controlled ventilation (DCV Efficient Refrigeration Condenser ENERCY STAR Commercial Solid Door Freezers less than 20th Level Sty TAR Commercial Solid Door Refrigerants: less than 00th Refrigerants: Sto 8 473 Refrigerants: Sto 8 473 Refrigerants: Sto 8 473 Refrigerants: Sto 8 473	ENERGY STAR lac Machines 500 to 1000 lbs ENERGY STAR Steam Cookers 37 Pan EMERGY STAR Steam Cookers 37 Pan EMERGY STAR Steam Cookers 37 Pan Exterior HID replacement above 175 W to 2500 HID Exterior HID replacement above 175 W to 2500 HID EE Warer Heater HP Water Heater (Base Usage 2831) HTT 84 H almy 112 to HTT's LED Exit Signes Electronic fixtures (Retrofit Only Occupancy Sensors under 500 W Occupancy Sensors under 500 W Commercial Staart Strip plug outics Pre Rinse Sprayers Pre Rinse Sprayers Strip curtrins for walk-ins- freezer Window Films Senpeard-controlle Window Films Senback/Senp	terofif HPT8 dt 4 lanp, T12 to HPT8 Occupany Stasots under 500 W Water-Cooled cent Chiller 150 - 300 ten 0.57 kWrion with 0.46 kWrion IPLV with 0.46 kWrion IPLV
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Annual Utility/SP O&M
Incentive Rebate for Equip
Incentive Shipping & Other
Service Provide Equip/Audit
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Retail Store Discount Tracking
Rebate Processing
Retailer Sales Incentive
M&V
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Utility Labor/Cost
Rate Class
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Measure Name

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Appendix D-2 Measure budgeted for 12 months starting June 1, 2010, ending May 31 2011

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Annual e Utility/SP O&M	69	C12,PU1¢	-								8 S								20			80 80																	\$0				9 9 9		50		
Annual Incentive Rebate Utility/SP for Equip O&M	\$767,200.0	\$52,500.0 \$6.750.0	\$627.245.9	\$3.250.0	\$32,436.0	\$343,422.1	\$76,231.3	\$69,586.4	\$481,751.9	\$35,271.4 \$1.768.7	\$9,765.0	\$7,500.0	\$30,000.0	\$270,305.3	\$103,867.5	\$294.176.3	\$280,251.2	\$29,890.2	\$211,171.9	\$75,000.0	\$10,000.0	\$25,000.0	523,616.2	\$23,116.6	\$50,000.0	\$\$0,000.0	\$274,111.7 \$137 279 0	S15,000.0	\$0.0	\$0.0	\$15,000.0	\$50,000.0	\$23,000.0	\$7,000.0	\$12,500.0	\$50,000.0	\$0.0	\$892,278.8	\$6,212.9	\$68,920.5	\$3,564.0	\$37,734.5	\$11,412.7 \$32 323 5	C.C7C,7C\$	\$30,793.4	\$5,284.3	1 202 223
Incentive Shipping & Other	\$0.0	\$0.0 \$0.0	\$192.998.7	S1.000.0	\$21,624.0	S0.0	S0.0	S0.0	\$0.0 20.0	0.08 50.0	\$0.0	\$0.0	S0.0	S0.0	513,359.1 50.0	\$196.117.5	\$186,834.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0 \$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0 50.0	50.0 20.0	\$0.0	\$0.0	\$0.0 \$0.0	50.0 50.0	S0.0	S0.0	S0.0	S 0.0	\$21,206.3	\$2,376.0	\$0.0	\$1,467.9 \$21,549.0	0.240,130	\$20,528.9	20.0	000
Service Provide Equip/Audit	\$2,761,920.0	\$75,650 D	\$0.0	80.0	S 0.0	\$0.0	\$0.0	\$0.0	\$0.0 20.0	0.02	\$0.0	\$0.0	S0.0	50.0	0.08 S0.0	S0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0 50.0	0.08	50.0 50.0	\$0.0	\$0.0	0.08 0.08	\$0.0	\$645,677.1	\$1,187,083.3 50.0	50.0 \$0.0	S0.0	S0.0	80.0 80.0	80.0 S0.0	S0.0	\$300,000.0	S0.0	\$0.0	\$0.0	S0.0	S0.0	\$0.0 \$0.0	0.06	50.0	50.0	20.0
Service Provider Service Provide Costs Equip/Audit	\$690,480.0	531,500.0 S4 050 0	S48 249 7	519 375 0	\$16,218.0	\$906,634.4	\$137,216.4	\$0.0	\$0.0	50.0 20.0	50.0 50.0	S0.0	\$0.0	\$0.0	6.009.68 80.0	\$49.029.4	S46,708.5	S0.0	S0.0	S0.0	S0.0	\$0.0 20.0	0.08 S0.0	50.0 20.0	S0.0	S0.0	50.0 20.0	S0.0	\$114,583.3	S114,583.3	80.0 S0.0	S0.0	\$0.0	\$0.0 \$0.0	50.0 50.0	\$0.0	\$0.0	\$0.0	\$0.0	\$5,301.6	\$1,782.0	\$99,619.1	\$550.4 \$5 387 2	7.100,00	\$5,132.2	20.0	0.00
Retail Store Discount Tracking	\$0.0	90.0 20.0	20.05	80 0 80 0	\$0.0 \$	S0.0	\$0.0	S0.0	\$0.0	50.0 S0.0	\$0.0	\$0.0	S0.0	S0.0	50.0 20.0	20.02	\$0.0	\$14,945.1	S105,585.9	\$0.0	S0.0	\$0.0 50.0	51 351 5	\$0.0 \$0.0	S 0.0	S 0.0	50.0 56.863.9	\$750.0	\$0.0	\$0.0	50.0 50.0	\$0.0	20.0	80.0 80.0	50.0 50.0	S0.0	S0.0	S0.0	S 0.0	\$0 .0	\$0.0	\$ 0.0	20.0 20.0	0.00	\$0.0	21,642.1	5112012
Rebate Processing	S0.0	50.0 20.0	S0.0	50.0 20.0	S0.0	S0.0	\$0.0	\$1,070.6	S10,705.6	\$6,632.6	\$75.0	\$75.0	\$500.0	\$27,030.5	\$0.0 \$12,720.0	20.02	\$0.0	\$0.0	\$0.0	\$5,000.0	\$5,000.0	\$5,000.0	\$5,361.6 \$0.0	\$2.311.7	\$5,000.0	\$5,000.0	\$21,928.9 \$0.0	\$0.0 \$0.0	\$0.0	\$0.0	50.0 \$0.0	\$0.0	\$0.0	\$0.0 50.0	50.0	S0.0	S0.0	S0.0	\$0.0	S0.0	S0.0	\$0.0	\$0.0 \$0.0	0.06	\$0.0	50.0	0 V 0
Retailer Sales Incentive	\$0.0	50.0 50.0	0.05	50 0 50 0	\$0.0	S0.0	S0.0	\$10,705.6	\$53,528.0	0.08 50.0	\$0.0 \$0.0	\$0.0	S0.0	\$0.0	S0.0 80 047 3	C./ 10,00	\$0.0	\$0.0	\$0.0	\$10,000.0	S10,000.0	\$10,000.0	\$3,351.0 \$0.0	0.0¢ 1.977.82	\$10,000.0	S10,000.0	50.0 S0.0	\$0.0 \$0.0	\$0.0	\$0.0 50.0	50.0 \$0.0			\$0.0 \$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0	S0.0	\$0.0	S0.0	\$0.0	\$0.0 \$0.0	0.06	\$0.0	20.0	
M&V	\$15,344.0	5700.0	\$24 124 8	\$875.0	\$2,703.0	S20,605.3	\$3,049.3	S642.3	S4,282.2	54,421.7 598 A	5150.0	S30.0	\$200.0	\$10,812.2	51,669.9 84 473 6	S6.128.7	S5,838.6	\$0.0	\$0.0	\$2,000.0	\$2,000.0	\$2,000.0	\$1,340.4	\$1.155.8	\$2,000.0	\$2,000.0	\$10,964.5 \$0.0	\$0.0	\$22,916.7	\$22,916.7	\$600.0	\$500.0	\$500.0	\$250.0	\$250.0	\$1,000.0	\$0.0	S0.0	\$0.0	\$2,650.8	\$297.0	\$2,264.1	\$183.5 \$673.4	t :0/0¢	\$641.5	20.0	0.00
Marketing	\$0	08 99	105 218	\$828	\$63	\$14,065	\$1,090	S310	S6,519	54,518 0773	5770 \$246	\$189	\$1,039	\$54,100	\$39 \$4.463	262.218	S11,716	S39	S 39	\$2,039	\$2,039	\$2,039	51,580	51.195	\$2,039	\$2,039	539 SK 003	\$789	S28,974	528,974	574 S74	S74	S74	574 574	5/4 S74	\$74	\$25,074	S328	\$39	\$1,638	\$74	S 1,822	51 386 S1 386	000,10	\$1,322	85 8	
Utility Labor/Cost	\$26,085	51,190 \$153	542 425	576 13	\$9,731	\$20,056	S4,421	\$2,120	\$15,844	\$7,959	\$1.215	\$143	\$950	S51,358	52,171	S67 517	\$59,553	S897	\$6,335	\$7,500	\$7,500	\$7,500	\$2,815	51.849	\$7,500	\$7,500	\$25,218	51.680	S101,063	\$101,063	\$3,375	\$6,125	\$1,620	S810	52.400	\$5,625	\$1,500	\$315,316	\$1,882	\$4,771	\$1,069	\$2,204	\$239 \$60	600°0¢	\$6,544	200	2 2 2 2
Rate Class	Res	Res Rec	Res	Res Res	Res	Res	Res	Res	Res	Kes Per	Res	Kes	Res	Res	kes v	Res	Res	Res	Res	Res	Res	Res	Kes Par	Res	Res	Res	Res Pee	Res	Rcs	Res	RG RG	Res	Res	Res	RC	Res	Res	Res	Res	Res	Res	Res	Rcs Ree	NGS	Res	Kes	•
Program	Demand	Demand	1-Res Andits	1-Res Audits	1-Res Audits	2-RES App Turn-In	2-RES App Turn-In	3-RES EE HVAC	3-RES EE HVAC	3-RES EE HVAC 3 DES EE HVAC	3-RES EE HVAC	4-Res-EE P	4-Res-EE P	4-Rcs-EE P	I-Res Audits	1-Res Andres	4-Res-EE P	4-Res-EE P	4-Res-EE P	4-Rcs-EE P	4-Res-EE P	4-Res-EE P	4-Res-EE P 1 Box Andre	1-Res-HE P	4-Res-EE P	4-Res-EE P	4-Rcs-EE P 4 D 20 EE D	4-Res-EE P	5-RES New Con	5-RES New Con	6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole	6-Rcs Whole	6-Res Whole	7-Low Income	7-Low Income	1-Res Audits LJ	1-Res Audits Ll	2-RES App Turn-In I.I	1-Res Audits LI	1-1KES AUGUST 1	4-Res-EE P LI	4-Res-EE P LI	
Measure Name	DLC-CAC	DLC-Pool Pumps	be Home Andits - CET 4 - Low Flow ?	1-Res Home Audits - CET 4 - Low Flow 2	Schools Childern Education-No Saving:	Refrigerator/Freezer recycling	Room Air Conditioners	ASHP - SEER 15	CAC - SEER 15	CAC - Maintenance	EE Ground Source Heat Pump	Solar Water Heating	HP Water Heater	EE Water Heater	Programable Thermostat_Heat	Trogramatic incluiosian_CAC	CFL bulbs regular-15	CFL bulbs regular - Outside - 15	CFL bulbs regular - 19	Ciotnes wasner Energy Stat, Gleetrie water neater, Electric Drver	Dehumidifiers	Freezers Energy Star-Chest Freezer	Holiday Lights	LED INGREDIGE Pump and Meter Single Speec	Refrigerators-Freezers Energy Star - Side by Side	Refrigerators-Freezers Energy Star - Top Freezer	Room Air Conditioners	Smail surp pug outer Forchiere Floor Lambs	Residential New Construction - 15%	Residential New Construction - 30%	Cetung Fans Estar Windows	Duct scaling 20 leakage base	Low Flow Showerheads	Kitchen Aerator	Bainfoom Acrator Pine Wran	Roof Insulation	Whole Building	Low Income Warm Program Through Act129	Low Income Warm Program Through Act129 (Additional SmartStrips)	I-Res Home Audits - CFL 4 - Low Flow 2 Water Heat	Schools Childern Education-No Saving:	Refrigerator/Freezer recycling	Programable Thermostat_Heat CEL hubbs reculsed 5. Erea No. Weter Heat	CFL builds regular-13 -Free No water near CFL builds regular-15 -Free No Water Heat Mailed At	Request	CFL bulbs regular - Outside - 15 - Store Rebates	
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	Measure Name	Program	Rate Class	Labor/Cost	Marketing	M&V	Incentive	Processing		Costs	Equip/Audit		for Equip	O&M
57	Low Income Lighting-Warm SmartStrit	7-Low Income	kcs	\$5,929	\$39	\$177.5	\$0.0	\$0.0	\$0.0	\$1,420.1	\$0.0	\$5,680.4	\$19,171.4	S 0
58	Low Income Lighting-Low Usage	7-Low Income	Res	S10,114	\$313	\$829.0	S0.0	S0.0	\$0.0	S6,631.9	S0.0	\$26,527.5	\$39,791.3	80
50	Multinle Family - CFL Lighting	8-Multiple Family	Res	S5.792	\$313	\$474.7	S0.0	\$0.0	\$0.0	\$3,797.8	S0.0	S15,191.1	\$22,786.7	S 0
90	Multiple Family - T8-Lighting	8-Multiple Family	SM C&I	\$5,887	\$7,908	\$949.4	\$0.0	\$5,696.7	S0 .0	S0.0	\$0.0	S0.0	\$66,461.1	\$ 0
61	Commercial, Industrial Audit - Sm&Mc	1-C/1 Audits	SM C&I	\$12,375	\$7,813	S0.0	S0.0	\$0.0	S0.0	\$0.0	S0.0	S0.0	S0.0	80 80
62	Commercial, Industrial Audit - Large	1-C/I Audits	LG C&I	\$4,200	\$4,063	SO. 0	S0.0	S0.0	S0.0	\$0.0	S0.0	\$0.0	S0.0	S 0
63	Commercial CFL Program	1-C/I Audits	SM C&I	\$1,591	S39	\$0.0	\$ 0.0	\$0.0	\$0.0	\$26,515.5	S0.0	\$0.0	\$53,031.1	2 0
64	Commercial, Industrial Audit - Gov	I-C/I Audits	LG C&I	\$5,880	\$313	S480.0	S 0.0	\$0.0	S0.0	\$0.0	\$120,000.0	\$0.0	S0.0	S ()
	Exterior HID replacement above 175W to 250W HID				:		:	:						ě
65		2-Governmental Programs	LG C&I	\$795	5344	\$65.2	S0.0	\$521.4	\$0.0	\$0.0	20.0	50.0	51,303.5	2 0
66		2-Governmental Programs	LG C&I	\$8,486	\$344	\$695.6	\$0.0	\$5,564.6	\$0.0	\$0.0	\$0.0	\$0.0	\$13,911.4	\$ 0
67	es (Retrofit Only]	2-Governmental Programs	LG C&I	\$1,398	\$344	\$114.6	\$0.0	\$916.7	S 0.0	S0.0	\$0.0	\$0.0	\$916.7	2 0
68	Occupancy Sensors under 500 W	2-Governmental Programs	LG C&I	\$1,398	\$344	\$114.6	S0.0	S916.7	S0.0	S0.0	\$0.0	\$0.0	\$916.7	95
69	LED Auto Traffic Signals	2-Governmental Programs	SM C&I	\$22,367	S344	\$1,833.3	\$0.0	\$14,666.7	\$0.0	\$0.0	S0.0	S0.0	\$330,000.0	S 0
70		2-Governmental Programs	SM C&I	\$5,592	S344	\$458.3	\$0.0	\$3,666.7	S 0.0	\$0.0	S0.0	S0.0	\$45,833.3	S 0
11	Street Lighting - 175 Mercury to 100 HPS	2-Governmental Programs	GOV	\$70,939	\$344	\$ 0.0	S0.0	S 0.0	\$0.0	\$0 .0	\$0.0	\$0.0	S223,078.1	S566,817
72	with 0.46 kW/ton IPLV	2-Governmental Programs	LG C&I	\$1,800	S 344	S200.0	\$0.0	\$120.0	\$0.0	S0.0	S0.0	S0.0	\$400.0	\$0
73	kW/ton with 0.53 kW/ton IPLV	2-Governmental Programs	LG C&I	\$1,800	\$344	S200.0	\$ 0,0	\$120.0	\$0.0	\$0.0	S0.0	\$0.0	\$400.0	\$ 0
74	AC <65,000 1 Ph	3-C/I Equip	SM C&I	S3,500	S1,656	\$750.0	S5,000.0	\$2,500.0	S0.0	\$0.0	S0.0	\$0.0	\$75,000.0	80
75	AC 65,000 - 135,000	3-C/I Equip	SM C&I	S3,100	S1,156	S500.0	S5,000.0	S1,000.0	\$0.0	\$0. 0	\$0.0	\$0.0	\$50,000.0	80
76	AC 240,000 - 760,000	3-C/f Equip	SM C&I	\$3,100	S1,156	\$500.0	S5,000.0	\$1,000.0	\$0.0	\$0.0	S0.0	\$0.0	S70,000.0	\$0
	Clothes Washer CEE Tierl, Electric Water heater,													
11	Electric Dryer	3-C/I Equip	SM C&I	\$1,400	\$756	\$300.0	S2,000.0	\$1,000.0	\$0.0	\$0.0	\$0.0	\$0.0	\$10,000.0	\$0
78	Demand-controlled ventilation (DCV	3-C/f Equip	SM C&I	\$7,125	S3,281	\$1,125.0	\$0.0	\$1,875.0	\$0.0	\$0.0	20.0	50.0	S62,500.0	9
62	Efficient Refrigeration Condenser	3-C/I Equip	SM C&I	\$260	\$356	\$200.0	\$0.0	\$400.0	S 0.0	S0.0	S0.0	50.0	\$2,000.0	08
80	less than 20ft3	3-C/L Equip	SM C&I	\$1,675	\$406	\$250.0	\$2,500.0	\$625.0	\$0 .0	S 0.0	\$0.0	20.0	56,250.0	80
	ENERGY STAR Commercial Solid Door Freezers 20								0.00					¢.
5	to 48 ft3	3-C/1 Equip	SM C&I	\$1,675	2406	0'0675	0.002,28	0.029\$	0.08	0.0\$	\$0.0	20.02	0.062,06	04
Ş	ENERU'T STAK COMMERCIAI SOUD DOOF			011 100	2010	0.0200	60 600 0	0.000	0.03	0.00	0.00	0.03	0026.73	60
82	Ketrigerators less than 20113 reverse CV service Commential Social Deve	3-C/I Edup	DM CK	51,0/2	3400	0.0626	0.000,26	0.0206	0.06	0.06	0.06	0.00	0.002.06	0¢
63	ENERVIT 31 AN COMMENCIAL SOULD FOOL	3.C/I Fourin	SMC&I	51 675	\$406	\$250.0	\$2 500.0	05098	\$0.0	\$0.0	S0.0	S0.0	\$6.250.0	50
64	ENERGY STAR for Machines less than 500 fbs	3-C/I Famin	SMC&I	032 150	2656	S500.0	S5 000 0	\$1,250.0	S 0.0	\$0.0	S0.0	\$0.0	\$12.500.0	50
5 %	ENERGY STAR Ice Machines 500 to 1000 lbs	3-C/I Equip	SMC&I	\$3,350	\$656	S500.0	\$5,000.0	S1.250.0	\$0.0	\$0.0	S0.0	S0.0	\$37,500.0	80
86	ENERGY STAR Ice Machines more than 1000 lbs	3-C/I Fauin	SMC&I	\$3.350	\$656	\$500.0	S5.000.0	S1.250.0	S0.0	\$0.0	S0.0	S0.0	\$50,000.0	80
5	ENERGY STAR Steam Cookers 3 Pan	3-C/I Equip	SM C&I	\$3,350	\$656	\$500.0	\$5,000.0	\$1,250.0	\$0.0	\$0.0	S0.0	S0.0	\$100,000.0	S 0
ā	Exterior HID replacement above 175W to 250W HID													
88	retrafit	3-C/I Equip	SM C&I	S13,601	\$1,371	\$1,214.4	\$0.0	\$9,715.2	\$0.0	S0.0	\$0.0	S0.0	\$485,759.3	\$ 0
89	EE Water Heater	3-C/I Equip	SM C&I	\$5,587	\$1,553	S1,047.6	\$6,983.8	\$3,491.9	S0.0	\$0.0	\$0.0	\$0.0	S34,918.9	S 0
06	HP Water Heater (Base Usage 22831)	3-C/I Equip	SM C&I	\$2,500	S531	\$375.0	\$9,375.0	\$625.0	S0.0	S0.0	\$0.0	\$0.0	\$25,000.0	2 0
16	HPT8 4ft 4 lamp, T12 to HPT8	3-C/1 Equip	SM C&I	\$145,160	\$13,117	\$12,960.8	\$0.0	S103,686.1	S0.0	S0.0	\$0.0	\$0.0	\$1,213,127.0	\$0
92	LED Exit Signs Electronic Fixtures (Retrofit Only)	3-C/I Equip	SM C&I	\$54,750	\$5,232	S4,888.4	\$0.0	\$39,107.2	S0.0	S0.0	20.0	\$0.0	\$293,303.8	S 0
63	Occupancy Sensors under 500 W	3-C/I Equip	SM C&I	\$34,536	\$3,240	\$3,083.6	\$0.0	\$24,668.7	\$0.0	\$0.0	\$0.0	\$0.0	S431,701.4	SO
94	Plug Load Occupancy Sensors Document Station:	3-C/I Equip	SMC&I	\$3,330	\$454	\$297.3	50.0	S 2,378.8	S0.0	S 0.0	50.0 50.0	\$0.0	\$41,628.3	20
95 2	Commercial Smart Strip plug outlet	3-C/I Equip	SM C&I	511,120	539	\$0.0	50.0 50.0	50.0 50.0	53,432.0 5135.0	50.0 50.0	\$0.0 \$	0.06	C.420,808	90
8	Pre Rinse Sprayers	3-C/I Equip	SM C&I	20402	9014	51227.0	50.0	50.0	0.6216	0.0¢	0.06	0.04	0.00/,06	0.6
97	Refrigerant charging correction	3-C/I Equip	SMC&L	515,759 #000	54,54 5406	54,577.6 5250.0	50.0 S0.0	\$21,888.0	50.0 50.0	0.04	0.08	0.06	\$109,440.0 \$6,250.0	90
8	Retrigeration Contransioning	3 C/I Earlin	SM C&I	0066	2010	0.0525	0.05 S0.0	S1 250.0	0.05	0.02	0.02	0.02	\$12 500.0	05
66	Munding for wark-fils - it eases	2 C/I Bonin	SMCAL	2702	5406	5250.0	51 250 D	0.022,12	50.0 50.0	0.05	0.02	0 US	\$6.250.0	05
83	vending Equipment Controlle	or cat Fault	SIM COL	C/26	0103	3 633	0.002,14	0.002,14	50.0	0.02	0.05	0.02	SK 250.0	96 95
<u> </u>	Window Filli Cathork/Satur	3-C/I Equip	SMC&I	501 C	8656	S500 0	S0.05	SI 250.0	20.0	50.05	S0.0	S0.0	\$6.250.0	80
101	Demand-controlled ventilation (DCV	4-C/I Equip	LG C&I	\$228	\$256	\$36.0	S 0.0	S60.0	\$0.0	\$0.0	S0.0	S0.0	\$2,000.0	S 0
6	Exterior HID replacement above 175W to 250W HID	disks to a												
104	retrofit	4-C/I Equip	LGC&I	\$8,641	S928	\$771.5	S0.0	\$6,171.9	S0.0	\$0.0	\$0.0	S0.0	\$308,595.6	\$0
105	HPT8 4ft 4 lamp, T12 to HPT8	4-C/I Equip	LG C&I	\$86,407	\$7,871	\$7,714.9	\$0.0	\$61,719.1	\$0.0	\$0.0	\$0.0	S0.0	\$722,113.7	S 0
106	Occupancy Sensors under 500 W	4-C/I Equip	LG C&I	\$20,558	\$1,992	\$1,835.5	\$0.0	\$14,684.0	\$0.0	\$0.0	\$0.0	\$0.0	\$183,550.1	S0
10.1	Water-Cooled cent Chiller 150 - 300 ton 0.57 kW/ton	A C/I Carrie		60 600	51 206	61 350 0	67 500 D	0.0553	0.02	0.02	0.08	0.08	\$125,000.0	05
107	with 0.46 kW/ton LPLV	4-C/I Equip	דה המו	NUC,26	00+16	0.002,16	0'100C'/¢	1.0010	N.V4	1.04	0.04		0.000,0210	244

Appendix D-2

Amual Utility/SP O&M		S ()	\$0	05	98	9	R 05	8.05	0.0	08	8	\$0	\$0	\$0	S 0	\$ 0	\$0	\$0	20 2	n,	957 757 456	001,101,14	9	98	9 5	S 0	8 0	\$0	\$0	80	8	8	20	\$266,817	9, S	20	20	S2,334,273				Utility/SP	O&M	\$1,767,456	20	\$0		
Annual Incentive Rebate Utility/SP for Equip O&M		\$37,500.0	\$125,000.0	\$10.000.0	\$20.250.0	617 500 0	0.0004/14	\$10,000.0	0.000.016	\$20,230.0 \$17 500 0	\$14,125.0	\$1,200.0	\$1,200.0	\$1,200.0	\$6,000.0	\$6,000.0	\$6,000.0	\$12,000.0	\$12,000.0	\$12,000.0	6876 450	004/070¢	\$419.653	S618.143	\$1,652,833	50	\$175,750	S89,248	S983,274	S119,191	\$37,735	357,281	\$53,031	5616,760	\$3,244,268 51,500,250	\$1,503,759	<u>\$181,350</u>	\$11,666,732				Incentive Rebate Utility/SP	for Equip	\$6,001,102	\$3,739,594	\$1.702.958		
Incentive Shipping & 1 Other		S0.0	\$0.0	\$0.0	80.0	0.03	0.05	0.0¢	0.02	0.0s	20.02	\$0.0	\$0.0	\$0.0	S0.0	S0.0	S0.0	S0.0	S 0.0	\$0.0	05	000 2422	US SU	20	\$186.834	50	50	S15,191	\$49,421	\$46,599	\$0	\$20,529	S0	9. G	8 8	20	ઝ	\$743,674				Incentive	her	\$743.674	50	05		
Service Provide Equip/Audit		S0.0	\$0.0	20.0	\$0.0	0.00	50.0 50.0	50.0	0.04	0.06	20.02	\$0.0-	\$0.0	\$0.0	S0.0	S0.0	\$0.0	\$0.0	\$0.0	0.04	070 789 63	0/01/06/74	05	05	80	\$1,832,760	\$300,000	S 0	S0	80	80 80	20	S120,000	08	80 80	20	<u>\$0</u>	\$5,239,830				Service Provide		~	\$0	\$120,000		
Service Provider Service Provide Costs Equip/Audit		\$0.0	\$0.0	\$0.0	S0.0	0.02	0.06	0.06	0.06	50.0 20.0	S0.0	\$ 0.0	S0.0	\$0.0	\$0.0	\$0.0	\$0.0	S0.0	\$0.0 200	20.0	0209623	5137 887	SI 043 851	20	\$46.709	\$229,167	\$ 0	\$3,798	\$12,355	\$13,021	\$99,619	\$5,132	\$26,516	8	88	20	20	S2,344,079				Service Provider Service Provide	Costs	\$2,317,563	S26,516	S 0	3	2
Retail Store Discount Tracking		S0.0	S0.0	S0.0	0.02 S0.0	0.04	0.06	0.05	0.05	0.0 80.0	50 D	S 0.0	S0.0	\$0.0	S 0.0	\$ 0.0	S0.0	S0.0	\$0.0	20.0	9	00 51 357	200'1 e	80	S128.145	50	S0	S0	S 0	\$149	\$0	\$13,244	\$0	80	\$3,557	20	8	S146,446			Retail Store	Discount	Tracking	\$142,889	\$3,557	05		20
Rebate Processing		S225.0	\$200.0	\$1.000.0	\$750.0	0.0010	0.0000	0.0024	0.000,16	0.0075	\$250.0	\$80.0	\$80.0	\$80.0	\$80.0	\$ 80.0	S80.0	S80.0	580.0	0.086	5	00	8 5	\$18.705	\$95,479	2 0	\$0	\$5,697	\$0	S0	8 i	80	S0	\$26,493	\$226,336	583,810	\$5.720	\$462,238				Rehate	Processing	\$114,183	\$250,366	C07 680	100110	10000
Retailer Sales Incentive		\$2,250.0	S 0.0	\$1,250.0	5 2 2 6 5	0 30 38	3 6163	0.02106	9.002,16	C.1666	5312 5	\$100.0	\$100.0	S100.0	\$400.0	\$400.0	\$400.0	\$800.0	\$800.0	\$\$00.0	03	90 80	06	S64.234	\$67.977	S0	S 0	S 0	S 0	S 0	S 0	20	\$0	20	\$64,609	\$9,750	<u>\$10,150</u>	\$216,720				Retailer Sales	Incentive	S132.211	S64,609	000 013		
M&V		\$375.0	\$25.0	\$100.0	\$75.0	0.029	0.000	0.026	0.0016	0.676	0.508	\$8.0 \$8.0	S8.0	S8.0	\$40.0	\$40.0	\$40.0	\$50.0	\$50.0	0.00%	516 134	401'01¢	100,000	\$9,585	\$44.765	\$45,833	\$3,500	\$1,424	S1,544	\$3,805	S2,264	S642	\$480 22 (00	53,682	5 35,932	\$12,008	\$794	S241,548					M&V	\$187.703	\$39,173	C14 672	710110	10,110
Marketing		\$531	5181	\$256	1572	1040	10175	1016	0070	1626	1818	S164	S164	\$164	\$164	\$164	\$164	\$164	\$164	S104	9	00 959 563	S15155	\$12,363	\$92,090	\$57,948	\$25,668	\$8,221	\$1,032	\$3,177	\$1,822	\$1,401	S12,227	\$3,094	\$44,933	S13,166	<u> \$3,228</u>	\$321,181					Marketine	\$236,625	\$61,381	\$27.831	× / 01770	100,220
Utility Labor/Cost		\$750	\$280	S200	S150	0013	0016	000	0076	0018	055	\$16	\$16	\$16	\$108	\$108	S108	\$122	S122	8122	804 203	074/78 074/10103	C24,417	\$27 558	S219,599	\$202,125	\$22,910	\$11,678	\$339,803	\$12,957	\$2,204	S7,338	\$24,046	S114,574	\$330,534	\$119,363	<u>\$1.738</u>	\$1,607,526				Utility	Labor/Cost	\$1.011.385	\$378,345	C146 959	0000000000	0000010
Rate Class		LG C&I	LGC&I	1.6 C&1	10 C&I	19001	ופטייו	רטכעו		LG CAL	1.6.0.81	LG C&I	LG C&I	LG C&I	LG C&I	LG C&I	LG C&I	LG C&I	LG C&I	LG C&L	56 150 568	000,000,000	\$1.526.791	\$750.588	\$2,534,431	\$2,367,833	\$527,828	\$135,256	\$1,387,430	\$198,898	\$143,643	S105,566	\$236,299	\$1,331,419	\$3,950,169	\$1,741,856	<u>S202,980</u>	\$25,324,247					Total	S17.774.622	\$4,563,539	C2 12/ 008	072127170	DOC'171'70
Program		4-C/I Equip	4-C/I Equip	5-IND MOTOR	ADDA MOTOR	NOTOM CIVITS	5-IND MOTOR	5-IND MOTOR		ADTOM CIVI-S	S-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR																								Res	SM C&I			
Measure Name	Water-Cooled Centrifugal Chiller < 150 ton 0.56	kW/ton with 0.53 kW/ton IPLV	Window Film	Motors 1 HP 12(0)	Motors 5 HP 1200		Motors 10 HP 1200	MOTORS 2U HP 1200 444444 1 119 3200		Motors 1 HP 3600 Motors 10 EB 3600	Motors 10 HP 3600	Water Pumps with VFD's	HVAC Fans with VFD's	Air Compressors with VFD's	Water Pumps with VFD's	HVAC Fans with VFD's	Air Compressors with VFD's	Water Pumps with VFD's	HVAC Fans with VFD's	Air Compressors with VFD's	Demond	Demand	2-BES Ann Three In	3-RES FF HVAC	4-Res-EEP	5-RES New Con	6-Res Whole	8-Multiple Family	7-Low Income	1-Res Audits LI	2-RES App Turn-In LI	4-Res-EE P LI	1-C/1 Audits	2-Governmental Programs	3-C/I Equip	4-C/I Equip	5-IND MOTOR						Recovery Allocation	Residential	Small Commercial & Industrial	I area Commarcial & Industrial	a store I forming cial or inclusion	Large Commercial & Industrial
		108	109	110			71	2 E	+ :	9 H	112	118	611	120	121	122	123	124	125	126	117	170	021	130	12	132	133	134	135	136	137	138	139	140	141	142	143	4	145	5	4		148	149	150	151	2	5

Appendix D-3 Measure budgeted for 12 months starting June 1, 2011, ending May 31 2012

E-
Appendix

Retail Store Discount Service Provide Shipping & Incentive Rebate Tracking Costs Equip/Audit Other for Equip		\$669,645.0 \$2,678,580.0 \$7,44,050.0 \$243,00.0 \$153,900.0 \$0.0 \$40,500.0	\$33,915.0 \$0.0	S	50.0 51,000.0 53,250.0 50.0 521,624.0 532,436.0	8 0.08	S0.0		\$0.0 \$55.271.4	\$0.0 \$1,768.7		\$7,500.0	\$270,305.3	103,867.5	10,590.8	\$280,251,2	0.2	1.9	0																									
Service Provider Service Provide Costs Equip/Audit		\$2,678,580.0 \$153.900.0	\$33,915.0	S				\$0.0 \$	\$0.0 \$0.0	\$0.0	~ ~			s	15	\$234	\$29,89	\$211,171.9	\$75,000.0	\$10,000.0	\$25,000.0 \$53.616.2	\$27,030.0	\$23,116.6	\$50,000.0 \$50,000.0	\$274,111.7	\$137,279.0 \$15,000.0	\$0.00 S	\$0.0	\$15,000.0	\$50,000.0	\$23,000.0 \$7,000.0	\$7,000.0	\$12,500.0	\$0,000.0 \$0.0	\$933,748.0	\$6,501.7	\$68,920.5	\$37,734.5	\$11,412.7	\$32,323.5	\$30,793.4	\$3,284.3	\$2,970.0	\$27,020.0
	Costs			50.0	50.0 20.0	\$0.0 \$0.0					50.0	\$0.0 \$0.0	\$0.0	\$13,359.1	\$0.0 \$117.5	\$196,117.5 \$186,834.1	50.0 50.0	\$0.0	\$0.0	\$0.0	50.0 50.0	50.0 50.0	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0 \$0.0	S0.0	\$0.0 \$0.0	\$0.0 \$0.0	S0.0	50.0 50.0	S0.0	S0.0	50.0 \$0.0	\$0.0	\$0.0	\$21,206.3	\$2,576.0 \$0.0	\$1,467.9	\$21,549.0	\$20,528.9 \$0.0	\$0.0 \$0.0	\$0.0	\$18 013 3
		\$669,645.0 \$24,300.0	5.0				\$0.0 \$	\$0.0 \$0.0	50.0 S0.0	S 0.0	\$0.0 50.0	\$0.0 \$0.0	\$ 0.0	\$0.0	\$0.0 \$0.0	\$0.0 \$0.0	\$0.0	\$0.0	S0.0	S0.0	\$0.0 \$0.0	\$0.0 \$	\$ 0.0	\$0.0 \$0.0	S0.0	\$0.0 \$0.0	\$645,677.1	\$1,187,083.3	0.08	\$0.0	\$0.0 \$0.0	S0.0	\$0.0	\$0.0 \$300.000.0	S0.0	\$0.0	50.0 50.0	\$0.0 \$0.0	S0.0	S0.0	\$0.0 \$0.0	0.08	\$0.0	0.02
			\$5,355.0	\$48,249.7	\$19,375.0 \$16,218.0	\$906,634.4	S137,216.4	50.0 50.0	\$0.0 \$0.0	\$0.0	\$0.0 \$0.0	\$0.0 \$0.0	\$0.0	\$5,009.6	\$0.0	\$49,029.4 \$46.708.5	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0	0.08 20.0	S0.0	50.0 50.0	S114,583.3	S114,583.3	\$0.0 \$	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$5,301.6	\$1,782.0 \$99,619.1	\$550.4	\$5,387.2	\$5,132.2 \$0.0	50.0 50.0	\$0.0	57 5U3 3
	SHOULD IT	\$0.0 \$0.0	\$0.0	\$0.0 50.0	S0.0 S0.0	50.0 50.0	\$0.0 50.0	\$0.0 \$0.0	\$0.0 \$0.0	S0.0	\$0.0	S0.0 S0.0	\$0.0	S0.0	\$0.0 50.0	50.0 50.0	\$14,945.1	\$105,585.9	\$0.0	S0.0	50.0 50.0	\$1,351.5	S0.0	50.0 50.0	S0.0	\$6,863.9 *750.0	\$0.0	50.0	\$0.0 \$0.0	\$0.0	\$0.0 \$0.0	\$0.0 \$	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0 50.0	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0 51.62.12	\$1,642.1 \$11.601.6	\$148.5	60.0
Rebate Processing	Smeennert	\$0.0 \$0.0	\$0.0	S0.0	\$0.0 \$0.0	50.0 50.0	\$0.0	\$1,070.6	\$10,705.6	\$221.1	\$75.0 575.0	\$75.0	\$27,030.5	S0.0	\$13,270.9	\$0.0 \$0.0	S0.0	\$0.0	\$5,000.0	\$5,000.0	\$5,000.0 \$5 361.6	50.0 50.0	\$2,311.7	\$5,000.0 \$5,000.0	\$21,928.9	\$0.0 \$0.0	\$0.0 \$	\$0.0 \$0.0	\$0.0 \$0.0	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0 \$0.0	\$0.0 \$0.0	50.0	S0.0	\$0.0 \$0.0	50.0 50.0	\$0.0	0.02
Retaîler Sales Incentive		\$0.0 \$0.0	\$0.0	S0.0	\$0.0 \$0.0	50.0 50.0	5 0.0	\$10,705.6	0.824,868			50.0 50.0			\$8,8	\$0.0 \$0.0	S0.0	\$0.0	\$10,000.0	\$10,000.0	\$10,000.0		\$5,7			\$0.0 \$0.0	\$0.0 \$0.0	\$0.0 50.0			\$0.0 \$0.0	\$0.0 \$0.0	\$0.0	\$0.0 \$0.0	\$0.0	\$0.0	\$0.0 \$0.0	S0.0 S0.0	\$0.0	\$0.0	\$0.0 \$0.0		\$ 0.0	
M&V		\$14,881.0 \$540.0	\$119.0	\$24,124.8	\$\$75.0 \$2 703.0	\$20,605.3	\$3,049.3	\$642.3 54 202 2	\$4,421.7 \$4,421.7	\$88.4	\$150.0	\$30.0 \$200.0	\$10,812.2	\$1,669.9	\$4,423.6	56,128.7 \$5,838.6	S0.0	S0.0	\$2,000.0	\$2,000.0	S2,000.0 S1 340.4	50.05	\$1,155.8	\$2,000.0 \$2,000.0	S10,964.5	\$0.0 \$0.0	30.0 \$22,916.7	S22,916.7	\$600.0 S	\$500.0	\$250.0	\$250.0	\$250.0	\$1,000.0 \$0.0	\$0.0	\$0.0	\$2,650.8	\$297.0 \$2,264.1	\$183.5	\$673.4	\$641.5 \$0.0	50.0 S0.0	S0.0	0 0 0 0 0 0
Marketing	an work	\$0 80	\$0	S12,391	5828 \$63	\$14,065	\$1,090	\$310 \$2,500	80,518 \$4,518	\$770	\$246 5100	\$189 \$1.039	\$54,100	S 39	S4,463	\$12,297 \$11.716	\$39	6ES	\$2,039	\$2,039	\$2,039 \$1.280	\$39 S	\$1,195	S2,039 52,039	\$39	S6,903 #790	\$28,974 \$28,974	S28,974	5/4 S74	S74	\$74 \$74	S74	S74	\$74 \$25.074	\$328	\$39	\$1,638	\$74 \$1.822	\$39	\$1,386	\$1,322	539	683	611.0
Utility Labor/Cost	124001/2031	\$25,298 \$918	S202	\$43,425	512,12	\$20,056	S4,421	\$2,120	\$7.959	\$420	S1,215	\$143 \$950	\$51,358	\$2,171	\$15,925	\$62,512 \$50 \$53	\$897	\$6,335	\$7,500	\$7,500	\$7,500	185	\$1,849	\$7,500 \$7,500	\$25,218	\$15,375 \$1,200	\$101,063	S101,063	\$045 \$3,375	\$6,125	\$1,620 \$210	5810	\$2,400	\$5,625 \$1,500	\$329,970	\$1,969	\$4,771	\$1,069 \$2,204	\$239	\$6,869	\$6,544 \$00	66S	\$9 8	P.C 070
Rate Class	Call Class	Res Res	Res	Res	Res Per	Res Res	Res	Res	Kcs Res	Res	Res	Res Res	Res	Res	Res	Res Res	Res	Res	Res	Res	Res	Res	Res	Res D	Res	Res	Res	Res	Kes Res	Res	Res	Res	Res	Res Ree	Res	Res	Res	Res Res	Res	Rcs	Res	Kes Res	Res	ç
Program	ure iĝaj t	Demand Demand	Demand	1-Res Audits	1-Res Audits 1-Res Audits	1-Kes Audits 2-RES App Turn-In	2-RES App Turn-In	3-RES EE HVAC	3-RES EE HVAC 3-RES EE HVAC	3-RES EE HVAC	3-RES EE HVAC	4-Res-EE P 4-Res-EE P	4-Res-EE P	1-Res Audits	4-Res-EE P	1-Res Audits 4-Res_FF P	4-Res-EE P	4-Res-EE P	4-Res-EE P	4-Res-EE P	4-Res-EE P A Dave DE D	1-Res Audits	4-Res-EE P	4-Res-EE P 4 Poor EE P	4-Res-EE P	4-Res-EE P	5-RES New Con	5-RES New Con	6-Res Whole 6-Res Whole	6-Res Whole	6-Res Whole 6-Pas Whole	6-Res Whole	6-Res Whole	6-Res Whole 6-Res Whole	7-Low Income	7-Low Income	1-Res Audits LI	1-Res Audits Ll 2-RES App Turn-In Ll	1-Res Audits LI	1-Res Audits LI	4-Res-EE P LI	4-Kes-EE P LI 4-Res-FF P I I	I-Res Audits LI	2 T T
Measure Name		DLC-CAC DLC-Pool Psimus	DLC-Water Heat	1-Res Home Audits - CFL 4 - Low Flow 2	1-Res Home Audits - CFL 4 - Low Flow 2 Schools Childers Education No. Serving.	schools Unidern Education-No Saving: Refrigerator/Freezer recycling	Room Air Conditioners	ASHP - SEER 15	CAC - SEEK 15 CAC - Maintenance	Furnace Fans	EE Ground Source Heat Pump	Solar Water Heating HP Water Hearer	EE Water Heater	Programable Thermostat_Heat	Programable Thermostat_CAC	CFL bulbs regular-15 CFT hulbs regular-15	CFL bubs regular - Outside - 15 CFL bubs regular - Outside - 15	CFL buths regular - 19	Clotties washer Energy star, Electric water nearer, Electric Dryer	Dehumidifiers	Freezers Energy Star-Chest Freezer	nouday Ligans LED Night Light	Pump and Motor Single Speec	Refrigerators-Freezers Energy Star - Side by Side	Neurigerations-creezets Linesy and Front Linescon Room Air Conditioners	Smart Strip plug outlet	torentere ration Lamps Residential New Construction - 15%	Residential New Construction - 30%	Ceiling Fans Estar Windows	Duct sealing 20 leakage base	Low Flow Showerheads	bathroom Aerator Bathroom Aerator	Pipe Wrap	Roof Insulation Whole Ruilding	Low Income Warm Program Through Act129	Low Income Warm Program Through Act129 (Additional SmartStrips)	I-Res Home Audits - CFL 4 - Low Flow 2 Water Hear	Schools Childern Education-No Saving: Refrigerator/Freezer recycling	Programable Thermostat_Heat	CFL bulbs regular-15 -Free No Water Heat CFL bulbs regular-15 -Free No Water Heat Mailed At	Request	CFL hulbs regular - Outside - 15 - Store Rebates CFL hulbs recular - 10 - Store Rebates	LED Night Light	

6-3	
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ual V/SP M	\$0	80	38	00	8 5	05	80		S 0	S 0	\$0	\$0	\$0	\$0	\$566,817	S 0	50	\$0	S0	20	05	S 0	\$ 0	\$0		\$0		\$ 0	60	8 9	20	20	S 0		S 0	98 i	98 S	04	89	80	\$0	\$0	\$0	\$0	\$0	\$0	2 0	06	20	\$0	\$0	2 0	2 0
Annual Utility/SP O&M															\$ 56																																						
Incentive Rebate for Equip	\$20,062.4	\$39,791.3	\$22,786.7	0.004,004 60.0	0.05	1 120 233	S0.0		\$1,303.5	\$13.911.4	S916.7	\$916.7	\$330,000.0	\$45,833.3	\$223,078.1	S350.0	\$350.0	\$75,000.0	\$50,000.0	\$70,000.0	S10.000.0	\$62,500.0	\$2,000.0	\$6,250.0		\$6,250.0		\$6,250.0	0.026.32	\$12 500.0	\$37,500.0	\$50.000.0	\$100,000.0		\$485,759.3	\$34,918.9	525,000.0	0./21,212,16	8.000,0726 84317014	\$41,628.3	\$68,639.5	\$8,750.0	\$109,440.0	\$6,250.0	\$12,500.0	\$6,250.0	\$6,250.0	0.062,06	0.000,26	\$308,595.6	\$722,113.7	\$183,550.1	\$125,000.0
Incentive Shipping & Other	\$5,944.4	\$26,527.5	515,191.1	0.06	0.04	0.05	20 D		\$0.0	\$0.0	S0.0	\$0.0	S0.0	\$0.0	\$0.0	\$0.0	S0.0	S0.0	\$0.0	\$0.0	0.08	\$0.0 \$0.0	\$0.0	\$0.0		\$0.0		\$0.0	0.03	0.05	20.0	\$0.0	0.02		\$0.0	50.0	50.0	50.0 50.0	20.02 20.02	S 0.0	\$ 0.0	\$0.0	S0.0	\$0.0	\$0.0	\$0.0	50.0 20.0	50.0 50.0	0-0¢	\$0.0	\$0.0	\$0.0	\$0.0
Service Provide Equip/Audit	\$0.0	\$0.0	50.0	90.0¢	0.0¢	0.0% 60.0	5120.000.000	0.000,0716	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	S0.0	S 0.0	\$0.0	\$0.0	\$0.0	\$0.0	S0.0		S 0.0		\$0.0	0.05	\$0.0 \$0.0	\$0.0 80.0	\$0.0	S0.0		\$0.0	\$0.0	\$0.0 \$0.0	50 D	50.0 20.0	\$0.0	S 0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0 \$0.0	0.04	0.000	\$0.0	S0.0	\$0.0	\$0.0
Service Provider Service Provide Costs Equip/Audit	\$1,486.1	\$6,631.9	\$3,797.8	0.04	0.05	2000	C.CIC,076	0.000	S 0.0	S0.0	S0.0	S0.0	S0.0	50.0	S0.0	\$0.0	S 0.0	\$0.0	S0.0	\$0.0	0.02	S0.0	S0.0	\$0.0		S0.0		\$0.0	0.02	0.05	0.05	\$0.0	\$0.0		S 0.0	\$0.0	\$0.0 \$0.0	50.0	0.05	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	S 0.0	\$0.0	50.0 50.0	0.04	0'm#	S0.0	\$0.0	\$0.0	\$0.0
Retail Store Discount S Tracking	\$0.0	\$0.0	\$0.0 20.0	9.0¢	0.05	0.00	0.05	0.04	S0.0	\$0.0	\$0.0	S 0.0	S0.0	50.0	50.0	S0.0	\$0 .0	\$0.0	\$0.0	20.0	60 B	50.0	\$0.0	S0.0		\$0.0		\$0.0	0.03	0.05	0.0 2	\$0.0	\$0.0		S0.0	S0.0	\$0.0 20.0	0.04	50.0 50.0	\$0.0 \$	\$3,432.0	\$125.0	\$0.0	\$0.0	S 0.0	\$0.0	\$0.0 \$0.0	0.04	0.0¢	\$0.0	\$0.0	\$0.0	\$0.0
Rebate Processing	S0.0	\$0.0	50.0	1.070,05	50.0	0.05 6.0.0	50.0 50.0	0.00	\$521.4	\$5.564.6	\$916.7	\$916.7	\$14,666.7	\$3,666.7	\$0.0	S105.0	\$105.0	\$2,500.0	\$1,000.0	\$1,000.0	\$1,000.0	\$1.875.0	\$400.0	\$625.0		\$625.0		\$625.0	0 2620	0.0206	\$1,250.0	\$1 250.0	\$1,250.0		\$9,715.2	\$3,491.9	S625.0	5105,686.1	27101,466	\$2.378.8	\$0.0	\$0.0	\$21,888.0	\$1,250.0	\$1,250.0	\$1,250.0	\$500.0	0.062,16	1.004	\$6,171.9	\$61,719.1	\$14,684.0	\$750.0
Retailer Sales Incentive	S 0.0	S0.0	50.0 20.0	50.0 50.0	0.05	0.05	0.05	0.05	S 0.0	S 0.0	S0 .0	S0.0	\$0.0	S0.0	S 0.0	\$0.0	\$0.0	\$5,000.0	\$5,000.0	\$5,000.0	\$2,000.0	S0.0	S0.0	\$2,500.0		\$2,500.0		\$2,500.0	0.000 03	0.000.26	\$\$ 000.0	\$5 000.0	\$5,000.0		\$0.0	\$6,983.8	\$9,375.0	50.0	0.0¢	\$0.0 \$0.0	\$0.0	S0.0	S0.0	\$0.0	\$0.0	S1,250.0	S0.0	0.05	0.06	S0.0	S0.0	\$0 .0	\$7,500.0
M&V	S185.8	\$829.0	5474.7	5949.4	0.05	0.05	5480 D	0.000	\$65.2	\$695.6	\$114.6	\$114.6	\$1,833.3	S458.3	S0.0	\$175.0	\$175.0	\$750.0	\$500.0	\$500.0	6300.0	\$1.125.0	\$200.0	\$250.0		\$250.0		\$250.0	0.0203	0.0025	0.0002 S \$ 00 0	S 500 0	\$500.0		\$1,214.4	\$1,047.6	\$375.0	512,960.8	54,000.4 \$3.083.6	\$297.3	\$0.0	\$0.0	\$4,377.6	\$250.0	\$250.0	\$250.0	\$62.5 5500.0	0.0006	0.006	\$771.5	\$7,714.9	\$1,835.5	\$1,250.0
Marketing	S 39	\$313	\$313 22 200	5/,908	510'/C	C00'+5	5115S	CT CB	S344	S344	\$344	\$344	S344	S344	S344	\$344	\$344	\$1,656	\$1,156	51,156	\$756	\$3.281	\$356	\$406		\$406		\$406	5402	0046	9598	S656	\$656		\$1,371	\$1,553	\$531	513,117	52,25¢	\$454	683	\$156	S4,534	\$406	\$406	S406	\$219	9963	0.770	\$928	\$7,871	\$1,992	\$1,406
Utility Labor/Cost	\$6,204	\$10,114	S5,792	/ 88,02	6/5/21¢	007't¢	166,16	000500	\$795	58.486	51.398	51.398	\$22.367	\$5,592	\$70,939	\$1,575	S1,575	S3,500	S3,100	\$3,100	C1 400	S7.125	\$260	\$1,675		\$1,675		\$1,675	267.13	5/0/10	022,26	53350	\$3,350		\$13,601	S5,587	S2,500	S145,160	00/,406	\$3.330	S11.120	S405	\$15,759	2900 S	\$900	S975	\$700 51 700	C2/,16	0776	\$8,641	S86,407	\$20,558	\$2,500
Rate Class	Res	Res	Res	SM C&L					LG C&I	LGC&I	LG C&I	1.G C&I	SM C&I	SM C&I	GOV	LG C&I	LG C&I	SM C&I	SM C&I	SMC&I	SMC&F	SMC&I	SM C&I	SM C&I		SM C&I		SM C&I	1.9 0 1.43	SMC&L	SMC&I	SMC&I	SMC&I		SM C&I	SM C&I	SMC&I	SM C&I	SMC81	SMC&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SMCR		LG C&I	LG C&I	LG C&I	LG C&I
Program	7-Low Income	7-Low Income	8-Multiple Family	8-Muitiple Family	1-C/LAudits		1-C/I Audits		2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	3-C/I Equip	3-C/I Equip	3-C/I Equip	2 Cu Canin	3-C/I Equip	3-C/I Equip	3-C/I Equip		3-C/I Equip		3-C/I Equip		3 C/I Bauip	3-C/I Equip	3-C/I Fauin	3-C/LEquip		3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/1 Equip	3-C/I Equip	3-C/t Fouip	3-C/LEquip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	s-C/I taquip	dinba 1/0-4	4-C/I Equip	4-C/I Equip	4-C/I Equip	4-C/I Equip
Measure Name	Low Income Lighting-Warm SmartStrip	Low Income Lighting-Low Usag-	Multiple Family - CFL Lighting	Muitiple Family - 18-Lighting	Commercial, Industrial Audit - SmocMic	Commercial, Industrial Audul - Large	Commercial CFL Frogram Commercial Industrial Audit - Cos	Colliticitizati, littusturat Autor - Ook Exterior H1D rentacement above 175W to 250W H1D	Extention right representation accord 17.2 to 12.0 to 11.0	HPT8 4ft 4 lama T12 to HPT8	1 F13 Fxit Sions Electronic Fixtures (Retrofit Only)	Occumancy Sensors under 500 W	LED Auto Traffic Signals	LED Pedestrian Signals	Street Lighting - 175 Mercury to 100 HPS	with 0.46 kW/ton IPLV	kW/ton with 0.53 kW/ton IPLV	AC <65,000 1 Ph	AC 65,000 - 135,000	AC 240,000 - 760,000	Clothes Washer CEE LIGH, Electric Water heater, effortion Derived	Lecture Dryce Demand-controlled ventilation (DCV	Efficient Refrigeration Condenser	less than 20ft3	ENERGY STAR Commercial Solid Door Freezers 20	to 48 ft3	ENERGY STAR Commercial Solid Door	Refrigerators less than 20ft3	ENERGY STAR Commercial Solid Door	Ketrigerators 20 to 48 it.) Extended States 1-2 Marchines 1222 then 500 the	ENERGY STAR ICS MACHINES ICSS (1011) 200 102 ENERGY STAD Ico Machines 500 to 1000 (he	ENERGY STAR for Machines more than 1000 lbs	ENERGY STAR Steam Cookers 3 Pan	Exterior HID replacement above 175W to 250W HID	retrofit	EE Water Heater	HP Water Heater (Base Usage 22831)	HPT8 4ft 4 lamp, T12 to HPT8	LEU EXIT Signs Electronic Fixures (Ketront Only)	Occupancy sensors muce you w Phy I had Occupancy Sensors Document Station:	Commercial Smart Strip plug outlet	Pre Rinse Spravers	Refrigerant charging correction	Refrigeration Commissioning	Strip curtains for walk-ins - freczer	Vending Equipment Controlle	Window Film	Setback/Setup	Demand-controlled ventuation (DC v Exterior HID replacement above 175W to 250W HID	retrofit	HPT8 4ft 4 lamp, T12 to HPT8	Occupancy Sensors under 500 W	Water-Cooled cent Chiller 150 - 300 ton 0.57 kW/ton with 0.46 kW/ton IPLV
	57		59	99	5 5	3 (99									75				62			81		82	ę	200			5	;		89	06	6	7 8	66 76	56	96	26	86	66	100	101	102	501	105	105	106	107

Annual Utility/SP	M MO	;	2	00	89	5	05	9	9		06	0 9 9	S 0	80	S 0	S 0	S 0	\$ 0	\$0	. S 0	\$881,428	\$0	\$0	S 0	2 0	80	80	90 90	0, 9	00	0, 0,	9	\$566,817	S 0	S 0	<u>50</u>	\$1,448,245				Utility/SP	O&M	S881,428	20	5566 817	\$1,448,245	
ate	dinka sor	4 4 4 4 4	0.002,/24	0.000,0216	\$20.250.0	\$17 500 0	\$14 125 0	\$10,000.0	\$20.250.0	\$17 500 0	0.000,116	SI 200.0	\$1.200.0	\$1.200.0	\$6,000.0	\$6,000.0	S6,000.0	S12,000.0	\$12,000.0	\$12,000.0	\$793,475	\$1,088,006	\$419,653	\$618,143	\$1,652,833	S0	\$175,750 560,240	5102125	\$1,027,125 \$110 101	161,6110	257,755	153 031	\$616,660	\$3,244,268	\$1,503,759	<u>\$181,350</u>	\$11,677,506				Incentive Rebate	for Equip	\$6,011,976	\$3,739,594 ©1 702 858	800'701'14 \$773 078	\$11,677,506	
ુઝ	1901O		50.0 50.0	0.06	0.06	0.05	0.05 0.03	0.05	0.05	0.06	30.0 60.0	0.08	S0.0	S0.0	S0.0	S0.0	S0.0	S0.0	S0.0	S0.0	\$ 0	\$425,099	\$0	\$0	S186,834	80	50 50	161,016	\$50,485 646 500	0.40°,044¢,04	005 003	03	2 0	80	2 0	<u>so</u>	\$744,738					Shipping & Other	\$744,738	33	8 9	\$744,738	
Service Provide	Equip/Audit		3 0.0	30.0	0.06	0.05	0.05	0.05	0.05	0.06	0.06	0.05	50.0	S0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$2,866,395	S 0	S 0	S 0	S 0	\$1,832,760	\$300,000 20	8	90 90	0.0 2	0.5	\$120.000	S0	S0	S0	<u>\$0</u>	\$5,119,155				Service Provide		\$4,999,155	50 5170 000	000'0718 80	\$5,119,155	
Service Provider Service Provide	COSIS		50.0 50.0	50.0 20.0	0.08	0.05	0.06	0.05	0.05	0.06	90.0¢	0.08	20.0	20.0	\$0.0	\$0.0	\$0.0	S0.0	S0.0	S0.0	\$699,300	\$137,882	S1,043,851	S 0	\$46,709	\$229,167	50 20	\$5,798	\$12,621 \$13,021	170,018	610,666	526,516	80 S	\$0	\$0	20	\$2,317,615				Service Provider	Costs	\$2,291,099	\$26,516 \$0	09	\$2,317,615	
ىن	I racking		50.0 20.0	0.06	0.06	0.06	0.05	0.05	0.06	0.05	50.0	0.06	50 0 20 0	S0.0	50.0	S0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0	\$1,352	SO	SO	\$128,145	SO	50 20	20	05	2410 E03	513 244	93	80 8	\$3,557	S 0	<u>\$0</u>	\$146,446			Retail Store	Discount	Tracking	\$142,889	\$3,557 \$0	00	30 \$146,446	
Rebate	Processing		\$225.0	\$200.0	0.000,16	0.0016	0.0000	0.0026	0.000,16	0.06/&	\$500.0	0.0626	580.0	580.0	580.0	\$\$0.0	\$80.0	\$80.0	\$80.0	\$80.0	\$0	\$ 0	\$0	\$18,705	\$95,479	S 0	2 0	55,697	99 S	0.4	04 9	05	\$26.463	S226.336	\$83,810	\$5,720	\$462,208				Rebate	Processing	\$114,183	\$250,366 507.550	900,196 03	su S462,208	
Retailer Sales	Incentive		\$2,250.0	50.0	0.062,16	0.1066	3 0103	0.7100	2,002,16	0.1046	0.6296	C.2156	\$100.0	\$100.0	\$400.0	\$400.0	\$400.0	\$800.0	S800.0	S800.0	\$0	\$0	\$0	\$64,234	\$67,977	\$0	20	8	88	0, 8	33	00	8 9	\$64.609	\$9,750	<u>\$10.150</u>	\$216,720				Retailer Sales	Incentive	\$132,211	S64,609	006'619	\$0 \$216,720	
	M&V		\$375.0	0.628	\$100.U	0.0.0	0.000	0.026	0.0016	0.0.0	550.U	0.026	0.05	0.82	\$40.0	\$40.0	\$40.0	\$50.0	\$50.0	\$50.0	\$15,540	\$35,501	\$23,655	S9,585	\$44,765	\$45,833	\$3,500	51,424	51,578	CU8,26	\$2,264 \$6473	7400	53.632	\$35,932	\$12,008	\$794	\$240,937					M&V	\$187,142	\$39,173	270,416	50,937 \$240,937	
	Marketing		1853 I	5181	9674	1076	0070	1010	1663	32.51	907%	1816	1915	1915	S164	S164	S164	S164	\$164	\$164	\$0	\$25,656	\$15,155	\$12,363	\$92,090	\$57,948	\$25,668	58,221	\$1,032 51,132	55,177	51,822	104'10	\$3.094	\$44.933	\$13,166	\$3,228	\$321,181					Marketing	S236,625	\$61,381	108,226	\$321,181	
Utility	Labor/Cost		S750	5280	0075	0616	0016	000 1000	007\$	0616	\$100 500	005	215	516	\$108	\$108	S108	S122	S122	S122	\$26,418	\$119,195	\$24,477	\$27,558	\$219,599	\$202,125	\$22,910	\$11,678	\$355,125	512,957 22,227	\$2,204	2000,00	5114174 \$114174	\$330.534	\$119.363	\$1,738	\$1,621,389				Utility	Labor/Cost	\$1,025,697	S378,345	5146,408	\$/0,939 \$1,621,389	
:	Rate Class		LG C&I	LG C&I	LG C&I	רפריאד		דים כיפיו	רטכאו	10,001				LG C&I		1.G C&I	LGC&I	LGC&I	LG C&I	LG C&I	\$5,282,556	\$1,832,691	\$1,526,791	S750,588	\$2,534,431	\$2,367,833	\$527,828	\$135,256	S1,447,965	\$198,898	\$143,643 \$105 \$45	000,0016	81 330 789	\$3.950.169	\$1.741.856	\$202.980	\$24,316,140					Total	\$16,767,145	\$4,563,539	52,124,278 #001 170	\$24,316,140 \$24,316,140	
	Program		4-C/I Equip	4-C/I Equip	5-IND MOTOR	5-IND MULUK	5-IND MUTUK	5-IND MULUK	NUTUM UNI-C	2-IND MUTUR	NOTOM CIVI-S	S-IND MOTOR	S IND MOTOR	S-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-END MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR																							Res	SM C&I	LG C&I	dUV	
	Measure Name	Water-Cooled Centrifugal Chiller < 150 ton 0.56	kW/ton with 0.53 kW/ton IPLV	Window Film	Motors 1 HP 1200	Motors 5 HP 1200	Motors 10 HP 12(00	Motors 20 HP 1200	Motors I HP 5600	Motors 5 HP 3600	Motors 10 HP 3600	Motors 20 HP 3600	Water Fumps with VEU's	A in Commissions with VED's	All Compression with VFD's Water Dumns with VFD's	HVAC Fans with VED's	Air Compressors with VFD's	Water Pumps with VFD's	HVAC Fans with VFD's	Air Compressors with VFD's	Demand	1-Res Audits	2-RES App Turn-In	3-RES EE HVAC	4-Res-EE P	5-RES New Con	6-Res Whole	8-Multiple Family	7-Low Income	1-Rcs Audits LI	2-RES App Turn-In LI	4-KGS-EE I' LI	1-Construmental Drometre	2-OVMILLENGI LIVERAILS	4-C/I Fouin	5-IND MOTOR						Recovery Allocation	Residential	Small Commercial & Industrial	Large Commercial & Industrial	Direct Gov	
			108	109	110	Ξ	112	Î	4	115	116	117	2	2021	2 2	3 2	1 2	124	125	126	127	128	129	130	131	132	133	134	135	136	137	29 29	140	141	- 61	143	144	145	146	147		148	149	150	151	152	

Appendix D-3

Page 3 of 3

Appendix D-4 Measure budgeted for 12 months starting June 1, 2012, ending May 31 2013

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Image: problem in the proble	Utility/SF O&M	S(ŝ	\$(\$(s	š	S	3	ЗS С	%	%	\$C	%	¥.	S.)S	ж i	ň	2	Ă	7	Ă	18		5	S	SC.	3		S (1	ы К	× 5		5 27	S	š	ŝ	š	S i	N I	20		ñö	5	S	5	ē	S	5.0	<i>n 9</i>	3	ć	Ā
Image: problem in the proble	Incentive Rebate for Equip	\$0.0	\$0.0	S0.0	\$627,245.9	\$3,250.0	\$32,436.0	\$343,422.1	\$76,231.3	S69,586.4	\$481,751.9	\$55,271.4	\$1,768.7	\$9,765.0	\$7,500.0	\$30,000.0	\$270,305.3	S103,867.5	\$110,590.8	\$294.176.3	\$280,251.2	529,890.2	6.1/1,1178	\$75,000.0	S10.000.0	\$25,000.0	\$53,616.2	\$27,030.0	\$23,116.6		\$50,000.0		\$50,000.0	/111,4/26	0.000.512	20.0	S0.0	\$11,250.0	\$15,000.0	\$50,000.0	\$23,000.0	S7,000.0	\$7,000.0	512,500.0	0.000,000		\$973,489.3	V 014 73	1.01/ 1°06	\$68,920.5	S3,564.0	\$37,734.5 \$11,412.7	\$32,323.5		\$30,792.4
the state of		\$0.0	\$0.0	\$0.0	\$192,998.7	\$1,000.0	S21,624.0	\$0.0	\$0.0	\$0.0	S0.0	\$0.0	SO. 0	\$0.0	S 0.0	S0.0	\$0.0	S13,359.1	20.0	\$196,117.5	\$186,834.1 20.0	20.0	0.06	80.0	20.02	\$0.0	\$0 .0	S 0.0	\$0.0		\$0.0		\$0.0 20.0	0.05	0.05 SO 0	S0.0	S0.0	\$0.0	S0.0	\$0.0	S0.0	S0.0	S0.0	0.08	0.05 S0.0	2.00	\$0.0	0.03	0.05	\$21,206.3	\$2,376.0	\$U.0 \$1,467.9	\$21,549.0	0 000 000	4.42 C,U2&
Name Name <th< td=""><td>iervice Provide Equip/Audit</td><td>\$0.0</td><td>\$0.0</td><td>S0.0</td><td>\$0.0</td><td>S0.0</td><td>S0.0</td><td>\$0.0</td><td>\$0.0</td><td>\$0.0</td><td>S0.0</td><td>S0.0</td><td>\$0.0</td><td>S0.0</td><td>S0.0</td><td>S0.0</td><td>\$0.0</td><td>S0.0</td><td>20.0</td><td>\$0.0 \$0.0</td><td>80.0 20.0</td><td>\$0.0 \$0.0</td><td>0.0¢</td><td>0.02</td><td>80 D</td><td>\$0.0</td><td>\$0.0</td><td>\$0.0</td><td>\$0.0</td><td></td><td>S0.0</td><td></td><td>\$0.0</td><td>0.05</td><td>0.05</td><td>\$0.0</td><td>\$0.0</td><td>S0.0</td><td>S0.0</td><td>S0.0</td><td>S0.0</td><td>20.0</td><td>SU:0</td><td>50.0</td><td>30.00</td><td></td><td>\$0.0</td><td>0.03</td><td>2000</td><td>\$0.0</td><td>50.0</td><td>\$0.0 \$0.0</td><td>\$0.0</td><td>4</td><td>20.0</td></th<>	iervice Provide Equip/Audit	\$0.0	\$0.0	S0.0	\$0.0	S0.0	S0.0	\$0.0	\$0.0	\$0.0	S0.0	S0.0	\$0.0	S0.0	S 0.0	S0.0	\$0.0	S0.0	20.0	\$0.0 \$0.0	80.0 20.0	\$0.0 \$0.0	0.0¢	0.02	80 D	\$0.0	\$0.0	\$0.0	\$0.0		S 0.0		\$0.0	0.05	0.05	\$0.0	\$0.0	S0.0	S0.0	S0.0	S0.0	20.0	SU:0	50.0	30.00		\$0.0	0.03	2000	\$0.0	50.0	\$0.0 \$0.0	\$0.0	4	20.0
Name Name <th< td=""><td>ervice Provider S Costs</td><td>\$0.0</td><td>\$0.0</td><td>S0.0</td><td>S48,249.7</td><td>\$19,375.0</td><td>\$16,218.0</td><td>\$906,634.4</td><td>\$137,216.4</td><td>S0.0</td><td>S0.0</td><td>\$0.0</td><td>\$0.0</td><td>\$0.0</td><td>S0.0</td><td>S0.0</td><td>\$0.0</td><td>\$5,009.6</td><td>20.0</td><td>\$49,029.4</td><td>\$46,708.5</td><td>\$0.0 \$0.0</td><td>0.0%</td><td>60.0</td><td>0.0¢</td><td>\$0.0</td><td>\$0.0</td><td>S0.0</td><td>S0.0</td><td></td><td>\$0.0</td><td></td><td>\$0.0</td><td>30.0 20.0</td><td>0.05</td><td>20.0</td><td>\$0.0</td><td>\$0.0</td><td>S0.0</td><td>S0.0</td><td>\$0.0</td><td>50.0 20.0</td><td>S0.0</td><td>50.0 50.0</td><td>50.0</td><td>0.000</td><td>S0.0</td><td>0.09</td><td>0.06</td><td>\$5,301.6</td><td>\$1,782.0</td><td>\$550.4</td><td>\$5,387.2</td><td></td><td>27721,08</td></th<>	ervice Provider S Costs	\$0.0	\$0.0	S0.0	S48,249.7	\$19,375.0	\$16,218.0	\$906,634.4	\$137,216.4	S0.0	S0.0	\$0.0	\$0.0	\$0.0	S0.0	S0.0	\$0.0	\$5,009.6	20.0	\$49,029.4	\$46,708.5	\$0.0 \$0.0	0.0%	60.0	0.0¢	\$0.0	\$0.0	S0.0	S0.0		\$0.0		\$0.0	30.0 20.0	0.05	20.0	\$0.0	\$0.0	S0.0	S0.0	\$0.0	50.0 20.0	S0.0	50.0 50.0	50.0	0.000	S0.0	0.09	0.06	\$5,301.6	\$1,782.0	\$550.4	\$5,387.2		27721,08
Name Name <th< td=""><td></td><td>S0.0</td><td>S0.0</td><td>\$0.0</td><td>\$0.0</td><td>\$0.0</td><td>S0.0</td><td>S0.0</td><td>S0.0</td><td>S0.0</td><td>S0.0</td><td>S0.0</td><td>\$0.0</td><td>\$0.0</td><td>\$0.0</td><td>\$0.0</td><td>S0.0</td><td>\$0.0</td><td>80.0</td><td>50.0 20.0</td><td>20.08</td><td>514,945.1</td><td>6.080,0016</td><td>\$0.0</td><td>0.05</td><td>\$0.0</td><td>\$0.0</td><td>\$1,351.5</td><td>\$0.0</td><td></td><td>\$0.0</td><td></td><td>\$0.0</td><td>0.06</td><td>5750 0</td><td>S0.0</td><td>S0.0</td><td>S0.0</td><td>S0.0</td><td>S0.0</td><td>\$0.0</td><td>50.0 20.0</td><td>\$0.0 \$0.0</td><td>\$0.0 \$0.0</td><td>30.0 80.0</td><td></td><td>S0.0</td><td>60.0</td><td>0.00</td><td>\$0.0</td><td>S0.0</td><td>\$0.0 \$0.0</td><td>\$0.0</td><td>6</td><td>20.0</td></th<>		S0.0	S0.0	\$0.0	\$0.0	\$0.0	S0.0	S0.0	S0.0	S0.0	S0.0	S0.0	\$0.0	\$0.0	\$0.0	\$0.0	S0.0	\$0.0	80.0	50.0 20.0	20.08	514,945.1	6.080,0016	\$0.0	0.05	\$0.0	\$0.0	\$1,351.5	\$0.0		\$0.0		\$0.0	0.06	5750 0	S0.0	S 0.0	S0.0	S0.0	S0.0	\$0.0	50.0 20.0	\$0.0 \$0.0	\$0.0 \$0.0	30.0 80.0		S0.0	60.0	0.00	\$0.0	S0.0	\$0.0 \$0.0	\$0.0	6	20.0
Matter Matter Matter Matter Matter Matter Matter Matter Matter CC-CAC Even of Land Matter	Rebate Processing	\$0.0	S 0.0	S0.0	S0.0	\$0.0	\$0.0	S0.0	S0.0	S1.070.6	\$10,705.6	\$6,632.6	S221.1	\$75.0	\$75.0	\$500.0	\$27,030.5	\$0.0	S13,270.9	\$0.0 20.0	S0.0	S 0.0	20.0	\$\$ 000 D	0.000.05	\$5.000.0	\$5,361.6	S0.0	\$2.311.7		\$5,000.0		\$5,000.0	67876'17S	0.05	S0.0	S 0.0	S0.0	S0.0	\$0.0	S 0.0	80.0	\$0.0 \$0.0	\$0.0	0.06	2.00	S0.0	0.09	0.00	S0.0	50.0	50.U \$0.0	S 0.0	0.00	30. 0
Mater, Name Pagenta Luktho Luktho $0.C-NOI$ Decrear Class Luktho Noteser, Class Luktho Noteser	Retailer Sales Incentive	S 0.0	50.0	S0.0	S0.0	\$0.0	\$0.0	S0.0	\$0.0	S10,705.6	S53,528.0	S0.0	S0.0	\$0.0	\$0.0	S 0.0	\$0.0	\$0.0	S8,847.3	S0.0	S0.0	50.0 50.0	20.0	510 000 0	0.000.016 S 10.000.0	\$10.000.0	S3,351.0	\$0.0	S5,779,1		\$10,000.0		S10,000.0	0.02	0.05	20.02	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	20.0	\$0.0 \$0.0	\$0.0 \$0.0	20.0	0.00	S0.0	0.03	0.06	S0.0	S0.0	50.0 50.0	S0.0	4	20.0
Momentane Pagena Pagena Revery Class Lubbi Loc Fool Purmes D.C. Fool Purmes D.C. Fool Purmes Demand Res 98 313 3 D.C. Fool Purmes D.C. Fool Purmes Demand Res 98 313 3 D.C. Fool Purmes D.C. Fool Purmes D.C. Fool Purmes Demand Res 33 3 <t< td=""><td>M&V</td><td>\$0.0</td><td>\$0.0</td><td>S0.0</td><td>\$24,124.8</td><td>S875.0</td><td>\$2,703.0</td><td>\$20,605.3</td><td>S3,049.3</td><td>S642.3</td><td>S4,282.2</td><td>\$4,421.7</td><td>\$88.4</td><td>S150.0</td><td>\$30.0</td><td>S200.0</td><td>\$10,812.2</td><td>\$1,669.9</td><td>S4,423.6</td><td>S6,128.7</td><td>\$5,838.6</td><td>50.0</td><td>20:0</td><td>\$7 000 U</td><td>\$2,000.0</td><td>\$2.000.0</td><td>\$1.340.4</td><td>S0.0</td><td>\$1.155.8</td><td></td><td>\$2,000.0</td><td></td><td>\$2,000.0</td><td>C.406,UL6</td><td>50.0 20.0</td><td>S0.0</td><td>S0.0</td><td>\$150.0</td><td>\$600.0</td><td>\$500.0</td><td>\$500.0</td><td>\$250.0</td><td>\$250.0</td><td>\$1,000.0</td><td>0.000,16</td><td>0.000</td><td>S0.0</td><td>0.04</td><td>へらゆ</td><td>\$2,650.8</td><td>\$297.0</td><td>\$2,264.1 \$183.5</td><td>\$673.4</td><td></td><td>S041.5</td></t<>	M&V	\$0.0	\$0.0	S0.0	\$24,124.8	S875.0	\$2,703.0	\$20,605.3	S3,049.3	S642.3	S4,282.2	\$4,421.7	\$88.4	S150.0	\$30.0	S200.0	\$10,812.2	\$1,669.9	S4,423.6	S6,128.7	\$5,838.6	50.0	20:0	\$7 000 U	\$2,000.0	\$2.000.0	\$1.340.4	S0.0	\$1.155.8		\$2,000.0		\$2,000.0	C.406,UL6	50.0 20.0	S0.0	S0.0	\$150.0	\$600.0	\$500.0	\$500.0	\$250.0	\$250.0	\$1,000.0	0.000,16	0.000	S0.0	0.04	へらゆ	\$2,650.8	\$297.0	\$2,264.1 \$183.5	\$673.4		S041.5
Maxer Name Program Program Reserve Class Low DC-CAC DC-CAC Demand Res Res Les DC-CAC DC-CAC DC-Martine DC-Martine Res Les DC-CAC DC-Martine DC-Martine Res Les Les </td <td>Marketing</td> <td>S0</td> <td>S0</td> <td>S0</td> <td>\$12,391</td> <td>5828</td> <td>\$63</td> <td>\$14,065</td> <td>\$1,090</td> <td>S310</td> <td>\$6.519</td> <td>\$4,518</td> <td>S770</td> <td>\$246</td> <td>\$189</td> <td>S1,039</td> <td>\$54,100</td> <td>\$39</td> <td>S4,463</td> <td>\$12,297</td> <td>S11,716</td> <td>539</td> <td>959</td> <td>\$7.030</td> <td>\$2,039 \$7 030</td> <td>\$2.039</td> <td>\$1,380</td> <td>839</td> <td>\$1.195</td> <td></td> <td>\$2,039</td> <td></td> <td>\$2,039</td> <td>958 57 000</td> <td>0973</td> <td>\$178</td> <td>\$328</td> <td>S74</td> <td>S74</td> <td>S74</td> <td>S74</td> <td>S74</td> <td>574</td> <td>5/4</td> <td>4/ C</td> <td></td> <td>\$328</td> <td>0.9</td> <td>¥0¢</td> <td>\$1,638</td> <td>\$74</td> <td>\$1,822 \$39</td> <td>S1,386</td> <td></td> <td>51,322</td>	Marketing	S 0	S0	S0	\$12,391	5828	\$63	\$14,065	\$1,090	S310	\$6.519	\$4,518	S770	\$246	\$189	S1,039	\$54,100	\$39	S4,463	\$12,297	S11,716	539	959	\$7.030	\$2,039 \$7 030	\$2.039	\$1,380	839	\$1.195		\$2,039		\$2,039	958 57 000	0973	\$178	\$328	S74	S74	S74	S74	S74	574	5/4	4/ C		\$328	0.9	¥0¢	\$1,638	\$74	\$1,822 \$39	S1,386		51,322
Means American Statuting Program American Statuting P	Utility Labor/Cost	SO	S0	\$0	S43,425	\$1,275	S9,731	\$20,056	S4,421	S2.120	\$15,844	\$7,959	S420	\$1,215	\$143	\$950	\$51,358	\$2,171	\$15,925	S62,512	\$59,553	168S	C55,0\$	003 £3	000778	\$7.500	\$2.815	S81	S1.849		\$7,500		\$7,500	812,628	616,616 039 12	08	S 0	S645	\$3,375	\$6,125	\$1.620	S810	5810 52 450	52,400	003 13	000116	S344,014	64 150	ccn'76	S4,771	S1,069	\$2.204 \$239	\$6,869		56,544
MRNNER NAME DLC-CAC DLC-CAC DLC-Pool Pumps DLC-Water Heat J-Res Home Audits - CFL 4 - Low Flow 2 Schools Childern Education-No Savings Rom Air Conditioners Rom Air Conditioners Rom Air Conditioners Rom Air Conditioners CAC - Paintenance E Ground Source Heat Pump Solar Water Heater E Ground Source Heat Pump Solar Water Heater F Water Heater Programable Thermostat. LAC CAC - Buibs regular-15 CAC - Buibs regular-15 CAC - Buibs regular-15 CAL buibs regular-15 Residential New Construction - 15% Residential Ne	Recovery Class	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Kes	Res	Res	Kes	Kes	Pec	Rec	Res	Res	Res	Res		Res	1	Res	Res Doc	C D C D	Res	Res	Res	Res	Res	Res	Res	Res	Res	RCS DAC	624	Res	ć	Ives	Res	Res	kes Res	Res	ı	Kes
	Program	Demand	Demand	Demand	1-Res Audits	1-Res Audits	1-Res Audits	2-RES App Turn-In	2-RES App Turn-In	3-RES EE HVAC	3-RES EE HVAC	3-RES EE HVAC	3-RES EE HVAC	3-RES EE HVAC	4-Res-EE P	4-Res-EE P	4-Res-EE P	1-Res Audits	4-Res-EE P	1-Res Audits	4-Res-EE P	4-Kes-Et P	4-Kes-EE P	4-Pac-FE D	4-Res-FF D	4-Res-FF P	4-Res-EE P	1-Res Audits	4-Res-FE P		4-Res-EE P		4-Res-EE P	4-Kes-EEP	4-Pac-FE D	5-RES New Con	5-RES New Con	6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole	b-Kes Whole	6-Dec Whole		7-Low Income		/-LOW INCOME	1-Res Audits LI	1-Res Audits LI	2-RES App Turn-In LI 1-Res Audits LI	1-Res Audits LI		4-Kes-EE P LI
	Measure Name	JLC-CAC	DLC-Pool Pumps	DLC-Water Heat	-Res Home Audits - CFL 4 - Low Flow 2	-Res Home Audits - CFL 4 - Low Flow 2	Schools Childern Education-No Savings	<pre>tefrigerator/Freezer recycling</pre>	com Air Conditioners	VSHP - SEER 15	CAC - SEER 15	.AC - Maintenance	urnace Fans	E Ground Source Heat Pump	solar Water Heating	IP Water Heater	E Water Heater	rogramable Thermostat Heat	rogramable Ihermostat_CAC	CFL bulbs regular-15	CFL bulbs regular-15	rt bulbs regular - Outside - 15	urt buibs regular - 19 Nothes Washer Energy Star, Flectric Water	doutes wasner Litery Just, Lictuit water eater Flactric Driar	reater, Electric Orger Jahrumidifiars	reezers Enerov Star-Chest Freezer	Holidav Liohts	ED Night Light	ump and Motor Single Speed	Carigerators-Freezers Energy Star - Side	vy Side	kefrigerators-Freezers Energy Star - Top	reezer	coom Air Londitioners	onart Strip plug Outlet Torchiara Floor Lamos	Pesidential New Construction - 15%	esidential New Construction - 30%	celling Fans	star Windows	Juct sealing 20 leakage base	ow Flow Showerheads	Vitchen Aerator	Sathroom Aerator	ape wrap	KUOT ITISUIACION Miholo Ruildino	ow Income Warm Program Through	Vct129	ow Income Warm Program Through	ACL29 (Additional Stitartstrips) !-Res Home Audits - CFL 4 - Low Flow 2	Vater Heat	Schools Childern Education-No Savings	kerrigerator/Freezer recycling Programable Thermostat_Heat	CFL bulbs regular-15 -Free No Water Heat	CFL bulbs regular-15 -Free No Water Heat	Mailed At Request
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Appendix D-4

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bate Utility/S 0.&M			4 .	3.1	0.0		4 C		0.7	1.1	50.0		50.0	2	S0.0	\$0.0		S0.0	50.0	50.0	\$0.0	8.1 \$566.817	_	50.0	0.0	0.0	0.0		0.0	0.0	0.0	200	0.0		0.0	0.0	2	0.0	0.0	2	0.0	0.0	0.2	0.6	0.0	7.0		3.8	t	8.3	9.5	0.0	0.0	0.0	0.0	
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Incentive Shipping & Other		000	50.0	SU.0 50.0	0.06	0.00,010 er 107 4	\$76 \$77 5	515 101 1	1.161,616	0.06	50.0	0.05	0.05	0.00	S0.0	S0.0		S0.0	S0.0	\$0.0 20.0	20.0	\$0.0	\$0.0	50.0	S0.0	\$0.0	S0.0		S0.0	0.05	0.02	0.00	S0.0		\$0.0	0.02	0.00	S0.0	0.08		S0.0	S0.0	60.0	0.02 20.0	S0.02	\$0.0	1	\$0.0 \$0.0	0.06	S0.0	50.0 50.0	0.06	0.08	0.02	0.02	
		0	S0.0	S0.0	0.06	0.05	0.05	0.00	30.0	0.06	50.0	0.05	0.04	0,000,0216	\$0.0	\$0.0		\$0.0	\$0.0	\$0.0	50.0	80.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		\$0.0 \$0.0	90.0 80.0	0.05	0.04	\$0.0		S0.0	50 D	11'N¢'	S0.0	S0.0	2	\$0.0	S 0.0	60.0	0.06	50.0 SU 0	S0.0		\$0.0 \$0.0	0.06	S0.0	\$0.0 50.0	20.0	0.06	5005	0.00	2.29
Service Provider Service Provide Costs Equip/Audit		0	SU:0	20.0 20.0	54 605 0	0.040,46	51,247.4 86.631.0	0 202 00	6.191,66 6.00	30.0	50.0	0.06	0.03	0.06	\$0.0	S0.0		\$0.0	S 0.0	\$0.0 20.0	\$0.0	\$0.0	S 0.0	50.0	S0.0	\$0.0	S0.0		50.0 50.0	50.0	0.05 60.0	0.00	\$0.0		\$0.0	\$0.0	0.00	\$0.0	\$0.0	2	50.0	\$0.0	0.03	0.08	20.0 20.0	\$0.0		\$0.0 \$0.0	0.00	50.0	S0.0	0.02	0.05	0.05	0.00	2.00
Retail Store Discount S Tracking			\$1,642.1	S11,601.6	0.48.0	0.06	0.05 20.0		0.02	0.04	\$0.0 \$0.0	0.06	0.08	0.06	\$0.0	S0.0		SO. 0	S0.0	\$0.0	\$ 0.0	\$0.0	80.0	80.0	\$0.0	S0.0	\$0.0		\$0.0 20.0	50.0 50.0	0.05 0.03	0.06	\$0.0		S0.0	0.02	0.06	\$0.0	0.08		S0.0	S0.0	60.0	50.0	0.05	S0.0		\$0.0 \$0.0	0.00	\$0.0	\$3,432.0	5125.0	0.05	0.05	0.04	2.25
Rebate Processing		0 0	S0.0	\$0.0 \$0.0	0.06	0.05	0.05	0.00	50.05 50.73	1.070,05	\$0.0 \$0.0	0.06	0.06	0.06	S 0.0	S0.0		\$0.0	\$0.0	\$0.0	\$0.0	S0.0	\$0.0	0.08	S2.500.0	S1,000.0	\$1,000.0		\$1,000.0	51,873.U \$400.0	3400.0 8635.0	0.0706	\$625.0		\$625.0	0.5639	0.0206	\$1,250.0	\$1.250.0	0.000	\$1,250.0	S1,250.0	0.715.7	2.01/,96	6.174,06 6.75 0	\$103,686.1		S39,107.2 874 668 7	1.000,426	\$2,378.8	\$0.0 50.0	SU:0	0.000,126	0.054.12	0.000110	21204°10
Retailer Sales Incentive		:	S0.0	S0.0	50.0	0.06	0.06	0.00	50.0	30.0	\$0.0 \$0.0	0.06	50.0 50.0	0.06	\$0.0	\$0.0		\$0.0	\$0.0	\$0.0	S0.0	S0.0	SO 0	50 U	\$5.000.0	\$5,000.0	\$5,000.0		\$2,000.0	0.04 50.0	0.04	0.000.26	\$2,500.0		\$2,500.0	53 500 D	0.000,26	\$5,000.0	SS 000.0	0.000,00	S5,000.0	\$5,000.0	0.03	0.06	0.292.96	\$0.0		\$0.0 \$0.0	0.06	\$0.0	\$0.0 \$0.0	\$0.0 \$0.0	20.0	0.05	0.050 10	0.062,16
M&V			S0.0	S0.0	20.0	7.000¢	0.0033	1 1 1 1 1 1	54/4./	9.949.4	S 0.0	50.0 50.0	50.0	0.0046	\$0.0	\$0.0		S0.0	S0.0	\$0.0	S0.0	80.0	SO 0	80 U	\$750.0	\$500.0	S500.0		\$300.0	0.621,16	0.0026	0.0626	\$250.0		\$250.0	0.0503	0.0526	\$500.0	6500.0	0.0005	\$500.0	\$500.0	1 116 13	51,414.4	0.140,16	\$12,960.8		54,888.4 52 002 6	0.000,00	S297.3	50.0 20.0	54.222 C	0.1/6,46	0.0125	0.0200	2.00-0
Marketing	5	i	839	839	\$39	C1CC	2123 2123		\$158	806'18	\$7,813	54,063	539	6166	S344	S344		\$344	\$344	\$344	S344	8344	S344	1445	\$1.656	\$1,156	\$1,156		\$756	55,281	9666	00+6	S406		S406	2013	00+0	S656	8656	0000	\$656	\$656	104 10	1/5,16	1253	\$13,117		\$5,232 \$3,240	047'00	\$454	\$39	\$156	950,96	20046	1015	0000
Utility Labor/Cost			865	5696 20	65	001/10	\$10,40%	LU1010	26/ 107	198.08	S12,375	54,200	51,591	099,66	05	50		S 0	\$ 0	S 0	2 0	610 018	05	99	\$3.500	\$3,100	\$3,100		S1,400	6217/S	0976	6/0/16	S1.675		\$1,675	54.9 1.3	6/0/10	\$3,350	63.350	010,00	\$3,350	\$3,350	612 201	313,001	195,05	\$145.160		S54,750	000,400	\$3,330	S11,120	S405	60/°C1€	0065	2028	7169
Recovery Class			Res	Res	Kes	Kes	Res Dec	57	Kes	SMC&L	SMC&I	LU C&I	SMCKI	דתריאו		LG C&I		LG C&I			SM C&I	GOV	-			SM C&I	SM C&I		SM C&I	NA CAL			SM C&I		SM C&I	CM Der		SM C&I	CM CR1	214 C01	SM C&I	SM C&I				SM C&I		SM C&I		SM C&I	SM C&I	SM C&I				100 100
Program	D		4-Res-EE P LI	4-Res-EE P LI	1-Kes Audits LI				8-Multiple Family	8-Multiple Family	1-C/I Audits		1-C/L Audits		2-Governmental Programs			2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	3-C/I Faulo	3-C/I Equip	3-C/I Equip		3-C/I Equip		3-C/1 Equip		3-C/I Equip		3-C/I Equip	2 C/T Equip	dinba 1/2-0	3-C/I Equip	3-C/I Equip		3-C/I Equip	3-C/I Equip		3-C/I Equip	3-C/1 Equip			3-C/I Equip	dinba 1/0-6	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip			3-C/1 Edup				
Measure Name		CFL bulbs regular - Outside - 15 - Store	Rebates	CFL bulbs regular - 19 - Store Rebates	LEU Night Light		Low Income Lighting-warm Smarusurp		Multiple Family - CFL Lighting	ittiple Family - 18-Lignting	Commercial, Industrial Audit - Sm&Md	Commercial, Industrial Augit - Large	Commercial CFL Program	Commercial, Industrial Audit - GOV Exterior HTD replacement above 175W to	250W HID retrofit	HPT8 4ft 4 lamp, T12 to HPT8	ires (Retrofit		er 500 W	14	LED Pedestrian Signals	Street Linhting - 125 Mercury to 100 HPS	0.57 kW/ton with 0.46 kW/ton IPI V	0.57 KW/ton with 0.53 kW/ton IDI V	AC <65.000 1 Ph	AC 65,000 - 135,000	AC 240,000 - 760,000	Clothes Washer CEE Tier1, Electric Water	heater, Electric Dryer	Demand-controlled ventilation (DCV)	Emcient Kerrigeration Congenser	Freezers less than 2013 ENFRGY STAR Commercial Solid Door	Freezers 20 to 48 ft3	ENERGY STAR Commercial Solid Door	Refrigerators less than 20ft3	ENERGY STAR Commercial Solid Door	Reinigeraturs zu to 45 113 ENERGY STAR Ice Machines less than 500		ENERGY STAR Ice Machines 500 to 1000	ENERGY STAR Ice Machines more than	1000 lbs	ENERGY STAR Steam Cookers 3 Pan	Exterior HID replacement above 175W to	25UW HIU retrorit	EE Water Heater HD Water Heater (Base Heade 20831)	HPT8 4ft 4 lamp, T12 to HPT8	LED Exit Signs Electronic Fixtures (Retrofit	Only)	occupancy sensors under 300 W Plud Load Occupancy Sensors Document	Stations	Commercial Smart Strip plug outlet	Pre Rinse Sprayers	Kerrigerant charging correction	Chine Autoin Commissioning Chine Autoine for molicine - freezer		venaing Equipment Controller
				-							وا ا					66 HP				69 FEI					74 AC				77 hea				81 Fre		82 Rei			84 lbs			86 10					H H		92 92 01		94 Sta						

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, Utility/Sl	O&M				n (n		97														ie e											v 9 6	n 5	÷ 6	. 9					\$566,817			2 0	S566,817				e Uhitty/SP					\$566,817
Incentive Rebate Utility/SP	for Equip	\$6,250.0 \$7,000.0		\$308,595.6	5/22,115./ \$183,550.1		\$125,000.0	637 500.0	10.000.102	S10 000 0	\$20.750.0	\$17.500.0	\$14,125.0	S10,000.0	S20,250.0	\$17,500.0	S14,125.0	\$1,200.0	\$1,200.0	S1,200.0	56,000.0	56,000.0	0.000.05	\$12,000.0	\$12,000.0			\$0	\$1,088,006	\$419,653	S618,143	51,652,833	50 \$175 750	06/16/16	SI 069 145	191.9112	\$37,735	\$57,281	\$53,031	\$223,078	\$3,244,268	\$1,503,759	<u>5181,350</u>	\$10,532,471				Incentive Kebate for Equip	\$5.260.523	\$3,363,760	\$1,685,109	\$223,078	\$10,532,471
్ చ	Other	\$0.0 \$0.0		\$0.0	\$0.0 \$0.0		\$0.0	0.03	50 D	80.0	0.04 0.05	S0.0	\$0.0	\$0.0	\$0.0	S0.0	\$0.0	S0.0	S0.0	S0.0	S0.0	50.0 50.0	0.05	0.04	\$0.0 \$0.0	2		S 0	\$425,099	S 0	20	\$186,834	80	101 213	161,018	846 599	05	\$20,529	\$ 0	\$0	\$0	\$ 0	80	\$745,758			•	Incentive Shinning & Other	S745.758	S 0	\$0	\$0	\$745,758
service Provide	Equip/Audit	\$0.0 \$0.0		\$0.0 20.0	\$0.0 \$0.0		\$ 0.0	60.0	0.05	80.0	0.02	\$0.0 \$	\$0.0	S0 .0	S0.0	S0.0	S0.0	S0.0	S0.0	S0.0	50.0 20.0	30.0	0.06	0.02 CU2	S0.0			\$0	\$0	\$0	S0	20 20	\$0 \$	000100000	96 G	9 9	8	80	\$120,000	\$0	S 0	\$ 0	SI SI	\$420,000			:	Service Provide Equin/Audit	0	\$0	\$120,000	2 0	\$420,000
Service Provider Service Provide	Costs	50.0 50.0		S 0.0	\$0.0 \$0.0		\$0.0	0.03	0.05 80.0	800	0.02	S0.0	S 0.0	\$0.0	\$0.0	\$0.0	S0.0	S0.0	S0.0	50.0	50.0	50.0	0.05	0.06	S0.0			\$0	\$137,882	\$1,043,851	\$0	S46,709	N0	007.53	S12 876	513.021	619.665	\$5,132	\$26,516	\$0	\$0	\$ 0	<u>0</u>	S1,389,403				Service Provider	\$1,362,888	\$26,516	S 0	80	\$1,389,405
Retail Store Discount S	Tracking	\$0.0 \$0.0		\$0.0	\$0.0 \$0.0		S0.0	60.0	0.05	80.0	0.05	0.05	\$0.0	S0.0	50.0	\$0.0	S0.0	\$0.0	S0.0	80.0	S0.0	50.0	0.06	0.06	50.0			\$0	\$1,352	S 0	20	S128,145	20	04	05	S149	20	S13,244	\$0	S 0	\$3,557	\$ 0	80	S146,446				Discount 2	\$142,889	\$3,557	S 0	S 0	\$146,446
Rebate	Processing	\$1,250.0 \$60.0	0.000	S6,171.9	\$14.684.0		\$750.0	0.2000	\$200.0	S1 000 0	S750.0	0.0078	\$250.0	\$1,000.0	\$750.0	\$500.0	\$250.0	\$\$0.0	\$\$0.0	S80.0	S80.0	580.0	0.085	0.065	\$80.0			\$0	S 0	S 0	\$18,705	\$95,479	05 5	06	0 3	3 9	8	50	S 0	S0	\$226,336	\$83,810	<u>55,720</u>	\$435,746				Broceeing	S114.183	\$232,032	\$89,530	S0	\$435,746
Retailer Sales	Incentive	\$0.0 \$0.0	0.04	S0.0	50.0 50.0		\$7,500.0	0.056.03	0.02	\$1.250.0	5027 5	\$675.0	\$312.5	S1,250.0	\$937.5	S625.0	S312.5	\$100.0	\$100.0	\$100.0	\$400.0	\$400.0	5400.0	0.0088	S800.0			\$0	\$ 0	\$0	\$64,234	\$67,977	80	00	0, 9	05	00	S 0	S0	S 0	\$64,609	\$9,750	\$10,150	\$216,720				Ketailer Sales	\$132.211	S64,609	\$19,900	\$0	\$216,720
	M&V	\$500.0 \$36.0	0.000	S771.5	\$1,/14.9 \$1.835.5		\$1,250.0	6375 D	0.0705	\$100.0	0.0010	\$50.0	\$25.0	\$100.0	\$75.0	S50.0	S25.0	\$8.0	\$8.0	S8.0	\$40.0	540.0	0.046	0.066	S50.0			SO	\$35,501	\$23,655	\$9,585	\$44.765	50	000,00	61 610	\$18.05	\$2.264	S642	S480	S0	\$35,932	\$12,008	<u>\$794</u>	S175,964				MRV	\$125,800	\$36,882	\$13,282	S 0	\$175,964
	Marketing	8656 8756		\$928	1/8//S		S1,406	1630	1813	1970	6220	90CS	5181	S256	S231	\$206	\$181	S164	S164	\$164	S164	5164	50TS	4019 13	S164			S0	\$25,656	\$15,155	\$12,363	S92,090	5656 575 555	000,026	50,221 \$1 037	20,10	S1.877	S1,401	\$12.227	\$3,094	\$44,933	\$13,166	<u>S3,228</u>	\$263,889				Markatino	\$179.334	\$61,381	\$22,831	\$344	\$263,889
Utility	Lahor/Cost	\$1,725 \$278	0	\$8,641	S80,407 S20,558		\$2,500	6750	05/5	00cS	0700	S100	S50	\$200	\$150	S100	\$50	\$16	S16	S16	\$108 5108	8018	2016	7710	S122			50	\$119,195	\$24,477	\$27,558	\$219,599 20	S0	016776	\$11.076 \$360 800	512 957	\$2,204	\$7,338	\$24,046	\$70,939	\$330,534	\$119,363	<u>51,738</u>	\$1,364,345				Uhlity LobariCoor	\$811.838	\$350,387	\$131,181	\$70,939	\$1,364,345
	Recovery Class	SM C&I		LG C&I	LG C&I		LG C&I			190.01			LG C&I	LG C&I	LG C&I	LG C&I	LG C&I	LG C&I	LG C&I	LG C&I					LG C&I			50	\$1.832,691	\$1,526,791	\$750,588	\$2,534,431	5656	9791766	057°5515 220 505 13	S198.898	\$143.643	\$105,566	\$236.299	\$863,928	S3,950,169	\$1.741,856	\$202,980	\$16,257,558				Tetel	\$9.175.424	\$4,139,123	\$2,081,834	S861.178	S16,257,558
	Program	3-C/I Equip 4-C/I Fauito		4-C/I Equip	4-C/I Equip 4-C/I Equip		4-C/I Equip	4-C/1 Equip	4-C/I Fourie	5-IND MOTOR	S-IND MOTOP		5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	FIND MOTOR				5-IND MOTOR																								Res	SM C&I	LG C&I	GOV	
	Measure Name	Setback/Setup Demand-controlled ventilation (DCV)	Exterior HID replacement above 175W to	250W HID retrofit	HPI84174 lamp, I⊥∠ to HPI8 Occupancy Sensors under 500 W	Water-Cooled cent Chiller 150 - 300 ton	0.57 kW/ton with 0.46 kW/ton IPLV	Water-Cooled Centrifugal Chiller < 150 ton 0 56 bw/too with 0 53 bW/too foly	Window Film	Motors 1 HP 1200	Motors 5 HD 1200	Motors 10 HP 1200	Motors 20 HP 1200	Motors 1 HP 3600	Mators 5 HP 3600	Motors 10 HP 3600	Motors 20 HP 3600	Water Pumps with VFD's	HVAC Fans with VFD's	Air Compressors with VFD's	Water Pumps with VFU's	HVAC Fans with VFU's	MIT COMPRESSORS WITH VED'S	Water Pumps with VED's HVAC Fare with VED's	Air Compressors with VFD's			Demand	1-Res Audits	2-RES App Turn-In	3-RES EE HVAC	4-Res-EE P	5-RES New Con	0 Multiple		1-Res Audits I T	2-RFS Ann Turn-In II	4-Res-EE P LI	1-C/I Audits	2-Governmental Programs	3-C/I Equip	4-C/I Equip	5-IND MOTOR					December A December 2	Residential	Small Commercial & Industrial	Large Commercial & Industrial	Direct Gov	
		102			6 <u>8</u>		107		8 8			: :															126	127	128	129	130	131	132	2 2	135	136	137	138	139	140	141	142	143	144	145 145	147		140		120		152	

Appendix D-5 Per Unit Budget Assumptions

Rebate O&M	\$75.00 \$75.00 \$75.00																		
Utility/SP O&M	\$15.00 \$15.00 \$15.00																		
Incentive Rebate for Equip	\$50.00 \$75.00 \$75.00	\$26.00	\$26.00 \$50.00 \$50.00 \$225.00 \$225.00 \$225.00 \$225.00 \$425.00	\$50.00 \$62.20 \$12.00 \$12.00 \$12.00 \$1.00 \$1.00	\$75.00 \$10.00 \$25.00 \$20.00 \$10.00 \$20.00	\$50.00	\$50.00 \$25.00 \$10.00 \$10.00	\$75.00 \$100.00	\$200.00 \$23.00 \$7.00 \$7.00	\$50.00 \$200.00	\$1,658.77	\$35.00	\$26.00 \$12.00 \$50.00 \$62.20	\$12.00	\$12.00	\$1.00 \$100 \$100 \$1200 \$1200 \$1200 \$1200 \$1200 \$1200	\$0.00 \$1.00	\$5.00 \$5.00	\$2.00 \$2.00 \$45.00
Incentive Shipping & 1 Other		\$8.00	00 8\$	\$8.00 \$8.00 \$8.00	\$0.00						U,		\$8.00 \$8.00 \$8.00	\$8.00	\$8.00	\$0.00 \$\$ 00 \$ \$ 8 8 8 8 8 8 8 8 8 00 0 00			
Service Provide Equip/Audit	\$160.00 \$285.00 \$285.00							\$563.50 \$1,036.00		\$300.00							\$2,000.00		
Service Provider Costs E	\$45.00 \$45.00 \$45.00	\$2.00	\$155.00 \$6.00 \$132.00 \$90.00	\$3.00 \$2.00 \$2.00				\$100.00					\$2.00 \$6.00 \$132.00 \$3.00	\$2.00	\$2.00	\$2.00 \$2.00 \$2.00	\$0.50		
Retail Store Discount Tracking				\$0.50 \$0.50	\$0.50		\$0.50									\$0.50 \$0.50 \$0.50			
Rebate Processing			\$5.00 \$55.00 \$55.00 \$55.00 \$55.00	\$5.00 \$3.00	\$5.00 \$5.00 \$2.00 \$2.00 \$2.00	\$5.00	\$5.00 \$2.00									\$3.00		\$2.00 \$2.00	\$2.00 \$2.00 \$2.00
Retailer Sales Incentive	\$0.02 \$0.02 \$0.00		\$50.00 \$25.00	\$2.00	\$10.00 \$10.00 \$10.00 \$1.25 \$1.25	\$10.00	\$10.00												
Per Unit M&V	\$1.00 \$1.00 \$1.00	\$1.00	\$7.00 \$3.00 \$3.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00 \$2.00	\$2.00 \$1.00 \$0.25 \$0.25	\$2.00 \$2.00 \$2.00 \$0.50 \$1.00	\$2.00	\$2.00 \$1.00	\$20.00 \$20.00 \$1.00	\$2.00 \$0.25 \$0.25	\$1.00 \$4.00 \$0.00			\$1.00 \$1.00 \$3.00 \$1.00	\$0.25	\$0.25	\$0.25 \$0.25 \$0.25 \$0.50	\$8.00	\$0.25 \$0.25	\$0.25 \$0.25 \$0.25
Per Unit t Marketing		\$0.50	\$4.00 \$2.00 \$1.00 \$1.00 \$2.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00	\$10.00 \$1.00 \$0.50 \$0.50	\$2.00 \$2.00 \$2.00 \$0.50 \$1.00	\$2.00	\$2.00 \$0.50 \$0.50	\$25.00 \$25.00		\$25.00			\$0.50 \$2.00	\$0.50	\$0.50	\$4.00			
Utility Labor/Cost	\$1.70 \$1.70 \$1.70	\$1.80	\$10.20 \$3.60 \$3.60 \$2.92 \$3.69 \$3.60 \$3.60 \$3.60 \$3.60 \$3.60 \$3.60 \$3.60 \$3.60 \$3.60 \$5.60 \$5.50	\$9,50 \$1.30 \$2,55 \$2,55 \$2,55 \$2,55 \$2,55 \$2,55 \$2,03	\$7.50 \$7.50 \$7.50 \$1.05 \$1.60	\$7.50	\$7.50 \$2.30 \$1.12 \$1.12	\$88.20 \$88.20 \$4.30 \$4.30	\$24.50 \$1.62 \$0.81 \$0.81	\$9.60 \$22.50 \$1.50	\$586.18	\$10.60	\$1.80 \$3,60 \$2.92 \$1.30	\$2.55	\$2.55	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	\$56.00 \$0.03 \$98.00	\$3.05 \$3.05	\$3.05 \$3.05 \$3.05
Per Unit Utility Costs	\$48 \$48 \$48	\$\$	\$21 \$11 \$140 \$140 \$42 \$42 \$11 \$105 \$27 \$27 \$27	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$27 \$27 \$11 \$11	\$27	\$27 \$5 \$2 \$2	\$233 \$233 \$5	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$11 \$27 \$27	\$586	\$11	\$5 \$11 \$140 \$5	\$2	\$5	\$1\$\$ \$1\$ \$1\$ \$1\$ \$1\$ \$1\$ \$1\$ \$1\$ \$1\$ \$1	\$106 \$1 \$106	\$ 5 5	\$\$ \$ \$
Per Unit Program Costs	\$45 \$45	\$5	\$10 \$132 \$132 \$132 \$132 \$10 \$10 \$10 \$10 \$10 \$10 \$25 \$25 \$25	* * * * * * * * * * * * * * * * * * *	\$25 \$25 \$25 \$10 \$10	\$25	\$25 \$5 \$25 \$25	\$220 \$220 \$5	\$ 7 7 2 \$ 7 7 \$ 7 7 \$ 7 7 \$ 7	\$10 \$25 \$25	\$553	\$10	\$5 \$10 \$132 \$5	\$2	\$2	1222 1222 1222 1222 1222 1222 1222 122	\$100 \$1 \$100	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$ \$ \$
Per Unit A&G	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	\$0	<u>4688886968666</u>		100122	\$2			12888 1288 1288 1288 1288 1288 1288 128		\$33		9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0\$	888818819		\$0	\$\$\$
Annual Base Cost after First Year	000	328.125	328.125 62.5 328.125 328.125 95.875 95.875 95.875 95.875 95.875 95.875 95.875 95.875 32.3125 32.3125	39.3125 39.3125 39.3125 39.3125 39.3125 39.3125 39.3125 39.3125 39.3125	39.3125 39.3125 39.3125 39.3125 39.3125	39.3125	39.3125 39.3125 39.3125 39.3125	328.125 328.125 74.25	74.25 74.25 74.25	74.25 74.25 74.25	328.125		312.5 74.25 312.5 39.3125	39.3125	39.3125	39.3125 39.3125 39.3125 312.5 312.5 312.5 312.5 312.5 312.5		343.75 343.75	343.75 343.75 343.75
First Year start up costs*	\$6,563 \$6,563 \$6,563	\$6,563	\$6,563 \$1,250 \$6,563 \$5,563 \$1,918\$\$1,918\$\$1	\$786 \$786 \$786 \$785 \$785 \$785 \$785 \$785	\$786 \$786 \$786 \$786 \$786 \$786	\$786	\$786 \$786 \$786 \$786	\$6,563 \$6,563 \$1,485	\$1,485 \$1,485 \$1,485 \$1,485 \$1,485	\$1,485 \$1,485 \$1,485	\$6,563	\$786	\$308,450 \$62,675 \$308,450 \$786	\$786	\$786	\$786 \$786 \$786 \$786 \$786 \$786 \$786 \$786	\$6,250 \$786 \$6,250	\$6,875 \$6,875	\$6,875 \$6,875 \$6,875
Rate Class	Res Res Res	Res	ж ж ж ж ж ж ж ж ж ж ж ж ж ж ж ж ж ж ж	Res Res Res Res Res Res Res	Res Res Res Res Res	Res			Res ses		LI RES	LI RES	Res Res Res	Res	Res	Res Res Res Res LI RES LI RES Res SM C&I SM C&I SM C&I	LG C&I SM C&I LG C&I	LG C&I	LG C&I
Program	Demand Demand Demand	1-Res Audits	1-Res Audits 2-RES App Turn-In 2-RES App Turn-In 2-RES ER HVAC 3-RES ER HVAC 3-RES ER HVAC 3-RES ER HVAC 3-RES ER HVAC 3-RES ER HVAC 3-RES ER HVAC		4. Res-EE P 4. Res-EE P 4. Res-EE P 4. Res-EE P 1. Res Audits 4. Res-EE P	4-Res-EE P	4-Res-EE P 4-Res-EE P 4-Res-EE P 4-Res-EE P	5-RES New Con 5-RES New Con 6-Res Whole 6-Res Whole	6-Res Whole 6-Res Whole 6-Res Whole 6-Res Whole 6-Res Whole	6-Res Whole 6-Res Whole 6-Res Whole	7-Low Income	7-Low Income	1-Res Audits LÍ 1-Res Audits LI 2-RES App Turn-In LI 1-Res Audits LÍ	1-Res Audits LI	4-Res-EE P LI	4-Res-EE P LI 4-Res-EE P LI 1-Res Audits L 7-Low Income 7-Low Income 8-Multiple Family 9-Multiple Family 1C1 Autimuly	1-C/1 Audits 1-C/1 Audits 1-C/1 Audits	2-Governmental Programs 2-Governmental Programs	2-Governmental Programs 2-Governmental Programs 2-Governmental Programs
Measure Name	1 DLC-CAC 2 DLC-Pool Pumps 3 DLC-Water Heat	4 1-Res Home Audits - CFL 4 - Low Flow 2	 1-Res Home Audits - CfL 4 - Low Flow 2 Rishous Childern Stockens Sources Rishous And Conditioners Rishon - SER ALS Alshous - SER ALS Cut - Ser Alshous Ser Alshous		 Londras Wastler, Electric Diversion Heater, Electric Diversion Dehmundinfension Dehmundinfension Freezers Energins Freezers Energins Freezers Beilogins Lipht Pump and Mostri Single Speed Pump and Mostri Single Speed 				 x. card munoversity x. Duck sealing 20 leakage base y. Low Flow Showerheads 40 Kithen Aerator 41 Bathrioom Aerator 		Low Income Warm Program Inrough 45 Act129 Low Income Warm Program Through		 4.7 Water Heat 4.8 Schools Childern Education-No Savings 4.9 Refrigerator/Freezer recycling 5.0 Programable Thermostat_Heat 	Si CFL bulbs regular-15 - Free No Water Heat CFL bulbs regular-15 - Erea No Water Heat	52 Mailed At Request 10 Traction 1000	 Rebries Group Part Land			 control of the second se

Appendix D-5 Per Unit Budgeted Assumption per Measure

Appendix D-5 Per Unit Budget Assumptions

Rebate O&M																							
Utility/SP O&M		\$21.88																					
Incentive Rebate for Equip	\$25.00	\$50.00	\$50.00	\$50.00 \$150.00 \$250.00 \$350.00	\$50.00 \$10.00 \$10.00	\$50.00	\$50.00	\$50.00	\$50.00	\$50.00	\$150.00	\$200.00 \$400.00	\$100.00 \$50.00 \$200.00 \$23.40	\$15.00		\$10.00 \$10.00	\$25.00	\$25.00	\$25.00 \$25.00 \$500.00	¢100.00	\$23.40 \$25.00	\$2,500.00	\$2,500,00 \$1,250,00 \$550,00 \$54,00 \$11,00 \$54,00 \$54,00 \$54,00 \$54,00 \$54,00 \$54,00 \$54,00 \$54,00 \$54,00 \$54,00 \$51,000 \$10,000 \$10,000\$\$10,00
Incentive Shipping & F Other																						v	
Service 1 Provide S Equip/Audit																							
Service Provider Costs																							
Retail Store Discount Tracking																\$0.50 \$0.50	2						
Rebate Processing	\$2.00		\$15.00	\$15.00 \$5.00 \$5.00 \$5.00	\$5.00 \$15.00 \$2.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00 \$5.00	\$2.00 \$5.00 \$5.00	\$2.00	00.74	\$2.00	\$5.00	\$5.00 \$5.00	\$2.00 \$5.00	00.04	\$2.00	\$15.00	\$15.00 \$2.000\$200 \$2.000\$200\$200\$200\$200\$200\$200\$200\$200\$2
Retailer Sales Incentive				\$10.00 \$25.00 \$25.00	\$10.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00	\$20.00 \$20.00	\$10.00 \$75.00					\$5.00				\$150.00	\$150.00 \$2.550 \$2.5000 \$2.5000 \$2.5000 \$2.5000 \$2.5000 \$2.5000 \$2.5000 \$2.5000 \$2.5000 \$2.5000 \$2.5000 \$2.5000 \$2.5000 \$2.5000 \$2.5000 \$2.5000 \$2.5000\$2000 \$2.5000\$2000\$2000\$2000\$2000\$2000\$2000\$20
Per Unit M&V	\$0.25		\$25.00	\$25.00 \$1.50 \$2.50 \$2.50	\$1.50 \$9.00 \$1.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00 \$2.00	\$0.25 \$1.50 \$3.00 \$0.25	\$0.25 \$0.25		\$0.25	\$1.00	\$1.00	\$0.25 \$2.00		\$0.25 \$0.25	\$25.00	\$25,00 \$0,25 \$0,25 \$0,20 \$0,20 \$0,20 \$0,20 \$0,20 \$0,20 \$0,20 \$0,20 \$0,20 \$0,20 \$1,25 \$1,25 \$1,25 \$1,25
Per Unit Marketing				\$3.00 \$5.00 \$5.00	\$3.00 \$25.00 \$1.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00 \$2.00	\$0.25 \$2.00 \$3.00 \$0.25	\$0.25 \$0.25	e7.04	\$0.25	\$1.00	\$1.00	\$0.25 \$2.00 \$75.00		\$0.25 \$0.25	\$25.00	\$5.5 \$0.25 \$0.25 \$0.25 \$0.22 \$
Utility Per Unit Labor/Cost Marketing	\$3.05	\$15.90	\$225,00	\$225.00 \$7.00 \$15.50 \$15.50	\$7.00 \$57.00 \$1.30	\$13.40	\$13.40	\$13.40	\$13.40	\$13.40	\$13.40	\$13.40 \$13.40	\$2.80 \$8.00 \$20.00 \$2.80	\$2.80 #7 80	47.0U	\$2.80 \$1.62	\$3.60	\$3.60	\$2.80 \$6.90 \$57.00		\$2.80 \$2.80	\$50.00	\$50 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$60 \$6
Per Unit Utility Costs (\$5	\$16	\$265	\$265 \$27 \$53 \$53	\$27 \$106 \$5	\$42	\$42	\$42	\$42	\$42	\$42	\$42 \$42	\$5 \$27 \$106 \$5	5 V 49	A :	\$ 7 6	¥ I [\$11	\$5 \$16 \$16	001¢	n ⊔n ⊔n 4 \$4 \$4	\$265	\$285 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$
Per Unit Program Costs	\$5	\$15	\$250	\$250 \$25 \$50 \$50	\$25 \$100 \$5	\$40	\$40	\$40	\$40	\$40	\$40	\$40 \$40	\$5 \$25 \$100 \$5	5 U 19	<u>}</u>	\$ \$ \$	\$10 \$10	\$15	\$15 \$15	0014	n 25 24	\$250	\$ \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$55 \$
Per Unit A&G	\$0	\$1	\$15	\$15 \$2 \$33	\$5 \$6	\$2	\$2	\$2	\$2	\$2	\$2	\$2 \$2	\$ 5 5 5 \$ 5 5	0\$	D	0 0 0 \$	2 IS 5	12 13	\$ 1 \$	0 C	0 0 0	\$15	* \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Annual Base Cost after First Year	343.75	343.75	343.75	343.75 156.25 156.25 156.25	156.25 156.25 156.25	156.25	156.25	156.25	156.25	156.25	156.25	156.25 156.25	156.25 156.25 156.25 156.25	343.75	C7.0C1	156.25 39.3125 156.25	156.25	156.25	156.25 156.25	10.001	156.25	156.25	156.25 156.25
First Year B start up & costs*	\$6,875	\$6,875	\$6,875	\$6,875 \$3,125 \$3,125 \$3,125	\$3,125 \$3,125 \$3,125	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125	\$3,125 \$3,125	\$3,125 \$3,125 \$3,125 \$3,125	\$6,875 #315	C71/C4	\$3,125 \$786 \$2,175	\$3,125	\$3,125	\$3,125 \$3,125	C71'C4	\$3,125 \$3,125 \$3,125	\$3,125	\$3,125 \$3
Rate Class	SM C&I	SM C&I	LG C&I	LG C&I SM C&I SM C&I SM C&I	SM C&I SM C&I SM C&I SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I SM C&I	SM C&I SM C&I SM C&I SM C&I SM C&I	SM C&I		SM C&I SM C&I	SM C&I	SM C&I	SM C&I SM C&I	10.01	19 19 19 19 19 19 19 19 19	LG C&I	L L C C C R L C C C R L C C C C R L C C C R L C C C R R C C R R C C R R C C R R C R R C R R R C R R C R R C R R C R R R C R R R C R R R R C R
Program	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs 3-C/I Equip 3-C/I Equip 3-C/I Equip	3-C/I Equip 3-C/I Equip 3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip 3-C/I Equip	3-C/T Equip 3-C/T Equip 3-C/T Equip 3-C/T Equip	3-C/I Equip	3-C/i Equip	3-C/I Equip 3-C/I Equip	3-C/I Equip 3-C/I Equip	3-C/I Equip 3-C/I Equip	3-C/I Equip 3-C/I Equip	4-C/I Equip	4-C/I Equip 4-C/I Equip 4-C/I Equip	4-C/I Equip	4-C/I Equit -100 MOTOR -101 Equit -101 MOTOR -101 MOTOR -100 MOTOR
Measure Name	70 LED Pedestrian Signals	LO.		73 0.56 kWforn with 0.53 kWforn IPLV 74 AC 655,000 1 10.33 kWforn IPLV 75 AC 655,000 1 135,000 76 AC 656,000 - 786,000	Clothes Washer CEE Tier1, Electric Water 77 haster, Electric Dryeer 78 Demand-controlled veritation (DCV) 79 Efficient Refrigeration Condenser	ENERGY STAR Commercial Solid Door %) Freezers less than 20ft3 ENERCY STAP Commercial Solid Door	SI Freezers 20 to 48 ft3	ENERGY STAK COMMERCIAL SOLID DOOF 82 Refrigerators less than 2013 ENERGY STAR COMMENSIAL SOLID DOOF	83 Refrigerators 20 to 48 ft3 FNFRGY STAR Ice Machines less than 500	s4 lbs	85 ENERGY STAR Ice Machines 500 to 1000 lbs ENEDCY STAR Tre Machines more than	86 1000 lbs 87 ENERGY STAR Steam Cookers 3 Pan	Exterior HD replacement above 1/5W to \$8 250W HD retroft 90 HP Water Heater 91 HP Water Heater (Base Usage 22831) 91 HPTB 4ft 4 inno. 112 to HPTB				96 Pre kurse oprayers 97 Refrigerant charging correction 88 Destriversion Commissioning		101 Window Film 102 Setback/Setup		104 250W HID Fetrofit 105 HPT8 4ft 4 lamp, T12 to HPT8 106 Occupancy Sensors under 500 W		Water-Cooled Gentrifugal Chiller < 150 ton Water-Cooled Gentrifugal Chiller < 150 ton Water-Stripton 100 Notors 1P 1.00 Works 1P 1.200 100 Notors 1P 1.200 Notors 2P 1.200 110 Notors 2P 1.200 Notors 2D P1.200 111 Notors 2D P1.200 Notors 2D P1.200 Notors 2D P1.200 111 Notors 2D P1.200 Notors 2D P1.200 111 Notors 2D P1.200 112 Notors 2D P1.200 113 Notors 2D P1.200 113 Notors 2D P1.200 114 Notors 2D P1.200 115 Notors 2D P1.200 114 Notors 2D P1.200 115 Notors 2D P1.200 114 Notors 2D P1.200 115 Notors 2D P1.200 116 Notors 2D P1.200 116 Notors 2D P1.200 118 No

Energy Efficiency and Conservation Plan Appendices

<u>Appendix D-6</u> Per Program Budget Detail

Appendix D-6

Penelec Budget Summary	าลry				
Four Year Program Budget		Program Year 1	Program Year 2	Program Year 3	Program Year 4
1		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Total Budget				
Total	\$71,830,951	\$5,933,006	\$25,324,247	\$24,316,140	\$16,257,558
Utility Labor/Cost***	\$4,992,654	\$399,394	\$1,607,526	\$1,621,389	\$1,364,345
Marketing***	\$2,050,107	\$1,143,856	\$321,181	\$321,181	\$263,889
M&V***	\$707,483	\$49,035	\$241,548	\$240,937	\$175,964
Retailer Sales Incentive	\$693,503	\$43,344	\$216,720	\$216,720	\$216,720
Rebate Processing	\$1,454,418	\$94,226	\$462,238	\$462,208	\$435,746
Retail Store Discount Tracking	\$469,076	\$29,739	\$146,446	\$146,446	\$146,446
Service Provider Costs***	\$6,428,839	\$377,742	\$2,344,079	\$2,317,615	\$1,389,403
Service Provide Equip/Audit	\$11,565,230	\$786,244	\$5,239,830	\$5,119,155	\$420,000
Incentive Shipping & Other**	\$2,394,880	\$160,710	\$743,674	\$744,738	\$745,758
Incentive Rebate for Equip**	\$36,429,931	\$2,553,222	\$11,666,732	\$11,677,506	\$10,532,471
Utility/SP O&M	\$4,644,830	\$295,494	\$2,334,273	\$1,448,245	\$566,817
* *Variable based on number of ur	per of units of participation each year.	ı each year.			

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

These budget figures are consistent with those filed with the Pennsylvania PSC under the FirstEnergy EECP. Actual budgets will vary due to vendor contractual agreements and customer participation levels, among other factors out of the utility's control.

Appendix D-6 Per Program Budget Detail

Residential Home Energy Audits Program	ergy Audits	Program			
Four Year Program Budget		Program Year 1	Program Year 2	Program Year 3	Program Year 4
		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	1-Res Audits	1-Res Audits	1-Res Audits	1-Res Audits
	Total Budget				
Total	\$5,914,530	\$416,457	\$1,832,691	\$1,832,691	\$1,832,691
Utility Labor/Cost***	\$384,367	\$26,783	\$119,195	\$119,195	\$119,195
Marketing***	\$98,667	\$21,698	\$25,656	\$25,656	\$25,656
M&V***	\$114,415	\$7,911	\$35,501	\$35,501	\$35,501
Retailer Sales Incentive	\$0	\$0	0\$	\$0	\$0
Rebate Processing	\$0	\$0	0\$	\$0	\$0
Retail Store Discount Tracking	\$4,730	\$676	\$1,352	\$1,352	\$1,352
Service Provider Costs***	\$446,087	\$32,442	\$137,882	\$137,882	\$137,882
Service Provide Equip/Audit	\$0	\$0	\$0	\$0	\$0
Incentive Shipping & Other**	\$1,366,805	\$91,507	\$425,099	\$425,099	\$425,099
Incentive Rebate for Equip**	\$3,499,458	\$235,441	\$1,088,006	\$1,088,006	\$1,088,006
Utility/SP O&M	\$0	\$0	\$0	\$0	\$0
* This code links this budget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	he model input tab	les in file labeled "I	PE-EC_Plan_Appen	dices-WCharts-Budg	let"

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* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Per Program Budget Detail Appendix D-6

Residential Appliance Turn-In Program	E Turn-In Prog	gram			
Four Year Program Budget	et	Program Year 1	Program Year 2	Program Year 3	Program Year 4
1		Fali 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	2-RES App Turn-In	2-RES App Turn-In	2-RES App Turn-In 2-RES App Turn-In 2-RES App Turn-In 2-RES App Turn-In	2-RES App Turn-In
	Total Budget				
Total	\$4,898,726	\$318,352	\$1,526,791	\$1,526,791	\$1,526,791
Utility Labor/Cost***	\$78,327	\$4,895	\$24,477	\$24,477	\$24,477
Marketing***	\$61,491	\$16,025	\$15,155	\$15,155	\$15,155
M&V***	\$75,695	\$4,731	\$23,655	\$23,655	\$23,655
Retailer Sales Incentive	\$0	\$0	\$0	\$0	°0\$
Rebate Processing	\$0	\$0	0\$	\$0	\$0
Retail Store Discount Tracking	\$0	0\$	0\$	\$0	\$0
Service Provider Costs***	\$3,340,322	\$208,770	\$1,043,851	\$1,043,851	\$1,043,851
Service Provide Equip/Audit	\$0	0\$	0\$	0\$	\$0
Incentive Shipping & Other**	\$0	0\$	0\$	0\$	\$0
Incentive Rebate for Equip**	\$1,342,891	\$83,931	\$419,653	\$419,653	\$419,653
Utility/SP O&M	0\$	\$0	0\$	\$0	\$0
* This code links this budget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	he model input table	is in file labeled "PE-I	EC_Plan_Appendice	s-WCharts-Budget"	

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Appendix D-6 Per Program Budget Detail

Residential Energy Ef	rgv Efficient HVAC Program	C Program	- 		
Four Year Program Budget	et	Program Year 1	Program Year 2	Program Year 3	Program Year 4
)		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	3-RES EE HVAC	3-RES EE HVAC	3-RES EE HVAC	3-RES EE HVAC
	Total Budget				
Total	\$2,413,699	\$161,937	\$750,588	\$750,588	\$750,588
Utility Labor/Cost***	\$87,943	\$5,269	\$27,558	\$27,558	\$27,558
Marketing***	\$53,622	\$16,533	\$12,363	\$12,363	\$12,363
M&V***	\$30,641	\$1,887	\$9,585	\$9,585	\$9,585
Retailer Sales Incentive	\$205,547	\$12,847	\$64,234	\$64,234	\$64,234
Rebate Processing	\$59,840	\$3,726	\$18,705	\$18,705	\$18,705
Retail Store Discount Tracking	\$0	\$0	0\$	\$0	\$0
Service Provider Costs***	\$0	\$0	\$0	\$0	\$0
Service Provide Equip/Audit	\$0	\$0	0\$	\$0	\$0
Incentive Shipping & Other**	\$0	\$0	\$0	0\$	\$0
Incentive Rebate for Equip**	\$1,976,106	\$121,676	\$618,143	\$618,143	\$618,143
Utility/SP O&M	\$0	\$0	\$0	\$0	\$0
s this bu	he model input tal	bles in file labeled "F	idget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	lices-WCharts-Budge	et"

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Per Program Budget Detail Appendix D-6

Residential Energy Ef	ficient Prod	rgy Efficient Products Program			
Four Year Program Budget		Program Year 1	Program Year 2	Program Year 3	Program Year 4
)		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	4-Res-EE P	4-Res-EE P	4-Res-EE P	4-Res-EE P
	Total Budget				
Total	\$8,131,912	\$528,620	\$2,534,431	\$2,534,431	\$2,534,431
Utility Labor/Cost***	\$703,758	\$44,962	\$219,599	\$219,599	\$219,599
Marketing***	\$307,692	\$31,421	\$92,090	\$92,090	\$92,090
M&V***	\$143,751	\$9,455	\$44,765	\$44,765	\$44,765
Retailer Sales Incentive	\$217,528	\$13,595	\$67,977	\$67,977	\$67,977
Rebate Processing	\$306,513	\$20,077	\$95,479	\$95,479	\$95,479
Retail Store Discount Tracking	\$410,064	\$25,629	\$128,145	\$128,145	\$128,145
Service Provider Costs***	\$149,467	\$9,342	\$46,709	\$46,709	\$46,709
Service Provide Equip/Audit	\$0	\$0	\$0	\$0	\$0
Incentive Shipping & Other**	\$597,869	\$37,367	\$186,834	\$186,834	\$186,834
Incentive Rebate for Equip**	\$5,295,271	\$336,772	\$1,652,833	\$1,652,833	\$1,652,833
Utility/SP O&M	\$0	\$0	\$0	\$0	\$0
* This code links this budget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	ne model input tab	oles in file labeled "P	E-EC_Plan_Append	lices-WCharts-Budg	jet"

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* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Per Program Budget Detail Appendix D-6

Residential New Cons	Construction Program	igram			
Four Year Program Budget	et	Program Year 1	Program Year 2	Program Year 3	Program Year 4
)		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	5-RES New Con	5-RES New Con	5-RES New Con	5-RES New Con
	Total Budget				
Total	\$5,179,844	\$443,521	\$2,367,833	\$2,367,833	\$656
Utility Labor/Cost***	\$441,000	\$36,750	\$202,125	\$202,125	\$0
Marketing***	\$140,094	\$23,542	\$57,948	\$57,948	\$656
M&V***	\$100,000	\$8,333	\$45,833	\$45,833	\$0
Retailer Sales Incentive	\$0	\$0	0\$	\$0	\$0
Rebate Processing	\$0	\$0	0\$	\$0	\$0
Retail Store Discount Tracking	\$0	\$0	0\$	\$0	\$0
Service Provider Costs***	\$500,000	\$41,667	\$229,167	\$229,167	\$0
Service Provide Equip/Audit	\$3,998,750	\$333,229	\$1,832,760	\$1,832,760	\$0
Incentive Shipping & Other**	0\$	\$0	\$0	\$0	\$0
Incentive Rebate for Equip**	\$0	\$0	0\$	\$0	\$0
Utility/SP O&M	\$0	\$0	\$0	\$0	\$0
* This code links this budget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	ie model input tabl	es in file labeled "PE	E-EC_Plan_Appendi	ices-WCharts-Budge	Ę_,

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Residential Whole Building Program	ilding Progra	am			
Four Year Program Budget		Program Year 1	Program Year 2	Program Year 3	Program Year 4
		Fall 2009	From 6/2010	From 6/2011	From 6/2012
	L	Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole
	Total Budget				
Total	\$2,018,578	\$435,093	\$527,828	\$527,828	\$527,828
Utility Labor/Cost***	\$87,058	\$18,328	\$22,910	\$22,910	\$22,910
Marketing***	\$110,370	\$33,365	\$25,668	\$25,668	\$25,668
M&V***	\$13,300	\$2,800	\$3,500	\$3,500	\$3,500
Retailer Sales Incentive	\$0	\$0	\$0	\$0	\$0
Rebate Processing	\$0	\$0	\$0	\$0	\$0
Retail Store Discount Tracking	\$0	\$0	\$0	\$0	\$0
Service Provider Costs***	\$0	\$0	\$0	\$0	\$0
Service Provide Equip/Audit	\$1,140,000	\$240,000	\$300,000	\$300,000	\$300,000
Incentive Shipping & Other**	\$0	\$0	\$0	\$0	\$0
Incentive Rebate for Equip**	\$667,850	\$140,600	\$175,750	\$175,750	\$175,750
Utility/SP O&M	\$0	\$0	\$0	\$0	\$0
* This code links this budget to th	e model input tabl	es in file labeled "P	lget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	ces-WCharts-Budge	"Įi

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Residential Low-Incor	-Income Program				
Four Year Program Budget	et	Program Year 1	Program Year 2	Program Year 3	Program Year 4
)		Fall 2009	From 6/2010	From 6/2011	From 6/2012
	-	Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	7-Low Income	7-Low Income	7-Low Income	7-Low Income
_	Total Budget				
Total	\$4,910,986	\$569,614	\$1,387,430	\$1,447,965	\$1,505,977
Utility Labor/Cost***	\$1,201,470	\$136,733	\$339,803	\$355,125	\$369,809
Marketing***	\$23,730	\$20,635	\$1,032	\$1,032	\$1,032
M&V***	\$5,190	\$458	\$1,544	\$1,578	\$1,610
Retailer Sales Incentive	\$0	\$0	\$0	\$0	\$0
Rebate Processing	\$0	\$0	\$0	\$0	\$0
Retail Store Discount Tracking	\$0	\$0	0\$	\$0	\$0
Service Provider Costs***	\$41,518	\$3,665	\$12,355	\$12,621	\$12,876
Service Provide Equip/Audit	\$0	\$0	0\$	\$0	\$0
Incentive Shipping & Other**	\$166,071	\$14,660	\$49,421	\$50,485	\$51,505
Incentive Rebate for Equip**	\$3,473,006	\$393,464	\$983,274	\$1,027,123	\$1,069,145
Utility/SP O&M	\$0	\$0	\$0	\$0	\$0
* This code links this budget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	he model input tab	les in file labeled "P	E-EC_Plan_Append	ices-WCharts-Budge	.

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Residential Low-Incon	ne Home En	-Income Home Energy Audits Program	rogram		
Four Year Program Budget	et	Program Year 1	Program Year 2	Program Year 3	Program Year 4
		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	1-Res Audits LI	1-Res Audits LI	1-Res Audits LI	1-Res Audits LI
	Total Budget				
Total	\$1,013,521	\$416,827	\$198,898	\$198,898	\$198,898
Utility Labor/Cost***	\$41,785	\$2,915	\$12,957	\$12,957	\$12,957
Marketing***	\$383,549	\$374,018	\$3,177	\$3,177	\$3,177
M&V***	\$12,264	\$850	\$3,805	\$3,805	\$3,805
Retailer Sales Incentive	\$0	\$0	\$0	\$0	\$0
Rebate Processing	\$0	\$0	\$0	\$0	\$0
Retail Store Discount Tracking	\$520	\$74	\$149	\$149	\$149
Service Provider Costs***	\$42,203	\$3,139	\$13,021	\$13,021	\$13,021
Service Provide Equip/Audit	\$0	\$0	\$0	\$0	\$0
Incentive Shipping & Other**	\$149,830	\$10,033	\$46,599	\$46,599	\$46,599
Incentive Rebate for Equip**	\$383,370	\$25,798	\$119,191	\$119,191	\$119,191
Utility/SP O&M	\$0	\$0	\$0	\$0	\$0
* This code links this budget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	ne model input tab	les in file labeled "P	E-EC_Plan_Append	lices-WCharts-Budg	et"

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

These budget figures are consistent with those filed with the Pennsylvania PSC under the FirstEnergy EECP. Actual budgets will vary due to vendor contractual agreements and customer participation levels, among other factors out of the utility's control.

Residential Low-Income App	ne Applianc	oliance Turn-In Program	m		
Four Year Program Budget	et	Program Year 1	Program Year 2	Program Year 3	Program Year 4
)		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	2-RES App Turn-In LI	2-RES App Turn-In LI	2-RES App Turn-In LI	2-RES App Turn-In LI
	Total Budget				
Total	\$768,046	\$337,116	\$143,643	\$143,643	\$143,643
Utility Labor/Cost***	\$7,052	\$441	\$2,204	\$2,204	\$2,204
Marketino***	\$314,218	\$308,752	\$1,822	\$1,822	\$1,822
M&V***	\$7,245	\$453	\$2,264	\$2,264	\$2,264
Retailer Sales Incentive	\$0	\$0	\$0	0\$	\$0
Rebate Processing	\$0	\$0	\$0	\$0	\$0
Retail Store Discount Tracking	\$0	\$0	\$0	\$0	\$0
Service Provider Costs***	\$318,781	\$19,924	\$99,619	\$99,619	\$99,619
Service Provide Equip/Audit	\$0	\$0	\$0	\$0	\$0
Incentive Shipping & Other**	\$0	\$0	\$0	0\$	\$0
Incentive Rebate for Equip**	\$120,750	\$7,547	\$37,735	\$37,735	\$37,735
Utility/SP O&M	\$0	\$0	\$0	\$0	\$0
* This code links this budget to the model		input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	_Plan_Appendices-WCI	narts-Budget"	

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Residential Low-Incon	ne Energy E	-Income Energy Efficient Products Program	cts Program		
Four Year Program Budget	et	Program Year 1	Program Year 2	Program Year 3	Program Year 4
		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	4-Res-EE P LI	4-Res-EE P LI	4-Res-EE P LI	4-Res-EE P LI
	Total Budget				
Total	\$340,148	\$23,448	\$105,566	\$105,566	\$105,566
Utility Labor/Cost***	\$23,482	\$1,468	\$7,338	\$7,338	\$7,338
Marketing***	\$6,818	\$2,615	\$1,401	\$1,401	\$1,401
M&V***	\$2,053	\$128	\$642	\$642	\$642
Retailer Sales Incentive	\$0	\$0	\$0	\$0	\$0
Rebate Processing	\$0	\$0	\$0	0\$	\$0
Retail Store Discount Tracking	\$42,380	\$2,649	\$13,244	\$13,244	\$13,244
Service Provider Costs***	\$16,423	\$1,026	\$5,132	\$5,132	\$5,132
Service Provide Equip/Audit	\$0	\$0	\$0	\$0	\$0
Incentive Shipping & Other**	\$65,693	\$4,106	\$20,529	\$20,529	\$20,529
Incentive Rebate for Equip**	\$183,299	\$11,456	\$57,281	\$57,281	\$57,281
Utility/SP O&M	0\$	\$0	\$0	\$0	\$0
* This code links this budget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	ie model input tab	les in file labeled "PI	E-EC_Plan_Appendi	ces-WCharts-Budge	ť"

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Residential Multi-Fam	-Family Program				
Four Year Program Budget	et	Program Year 1	Program Year 2	Program Year 3	Program Year 4
1		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	8-Multiple Family	8-Multiple Family	8-Multiple Family	8-Multiple Family
	Total Budget				
Total	\$445,195	\$39,426	\$135,256	\$135,256	\$135,256
Utility Labor/Cost***	\$37,370	\$2,336	\$11,678	\$11,678	\$11,678
Marketing***	\$38,681	\$14,019	\$8,221	\$8,221	\$8,221
M&V***	\$4,557	\$285	\$1,424	\$1,424	\$1,424
Retailer Sales Incentive	\$0	\$0	0\$	\$0	\$0
Rebate Processing	\$18,229	\$1,139	\$5,697	\$5,697	\$5,697
Retail Store Discount Tracking	\$0	0\$	0\$	\$0	\$0
Service Provider Costs***	\$12,153	\$760	\$3,798	\$3,798	\$3,798
Service Provide Equip/Audit	0\$	\$0	0\$	\$0	\$0
Incentive Shipping & Other**	\$48,612	\$3,038	\$15,191	\$15,191	\$15,191
Incentive Rebate for Equip**	\$285,593	\$17,850	\$89,248	\$89,248	\$89,248
Utility/SP O&M	\$0	0\$	0\$	\$0	\$0
* This code links this budget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	ne model input tabl	les in file labeled "PE	E-EC_Plan_Appendi	ces-WCharts-Budge	5.

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Residential Direct Loa	ct Load Control Program	rogram			
Four Year Program Budget) t	Program Year 1	Program Year 2	Program Year 3	Program Year 4
		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	Demand	Demand	Demand	Demand
	Total Budget				
Total	\$12,161,690	\$528,565	\$6,350,568	\$5,282,556	- × \$0
Utility Labor/Cost***	\$55,799	\$1,953	\$27,428	\$26,418	\$0
Marketing***	\$19,688	\$19,688	0\$	0\$	\$0
M&V***	\$32,823	\$1,149	\$16,134	\$15,540	\$0
Retailer Sales Incentive	\$0	\$0	\$0	0\$	\$0
Rebate Processing	\$0	\$0	\$0	\$0	\$0
Retail Store Discount Tracking	\$0	\$0	\$0	\$0	\$0
Service Provider Costs***	\$1,477,035	\$51,705	\$726,030	\$699,300	\$0
Service Provide Equip/Audit	\$6,066,480	\$213,015	\$2,987,070	\$2,866,395	\$0
Incentive Shipping & Other**	\$0	\$0	\$0	0\$	\$0
Incentive Rebate for Equip**	\$1,678,850	\$58,925	\$826,450	\$793,475	\$0
Utility/SP O&M	\$2,831,015	\$182,131	\$1,767,456	\$881,428	\$0
* This code links this budget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	e model input tabl	es in file labeled "P	E-EC_Plan_Append	ces-WCharts-Budge	if"

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Commercial/Industrial	Audit & Teo	chnology Ass	ustrial Audit & Technology Assessment Program	Jram	
Four Year Program Budget		Program Year 1	Program Year 2	Program Year 3	Program Year 4
))		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	1-C/I Audits	1-C/I Audits	1-C/I Audits	1-C/I Audits
	Total Budget				
Total	\$750,227	\$41,329	\$236,299	\$236,299	\$236,299
			-		
Utility Labor/Cost***	\$75,771	\$3,633	\$24,046	\$24,046	\$24,046
Marketing***	\$58,467	\$21,786	\$12,227	\$12,227	\$12,227
M&V***	\$1,440	\$0	\$480	\$480	\$480
Retailer Sales Incentive	\$0	\$0	\$0	\$0	\$0
Rebate Processing	\$0	\$0	\$0	\$0	\$0
Retail Store Discount Tracking	\$0	\$0	\$0	\$0	\$0
Service Provider Costs***	\$84,850	\$5,303	\$26,516	\$26,516	\$26,516
Service Provide Equip/Audit	\$360,000	\$0	\$120,000	\$120,000	\$120,000
Incentive Shipping & Other**	\$0	\$0	\$0	\$0	\$0
Incentive Rebate for Equip**	\$169,700	\$10,606	\$53,031	\$53,031	\$53,031
Utility/SP O&M	0\$	\$0	\$0	\$0	\$0
* This code links this budget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	e model input tabl	es in file labeled "PI	E-EC_Plan_Appendic	ses-WCharts-Budge	if"

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Governmental & Instit	Institutional Program	gram			
Four Year Program Budget	it	Program Year 1	Program Year 2	Program Year 3	Program Year 4
		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
		2-Governmental	2-Governmental	2-Governmental	2-Governmental
	Program Code*	Programs	Programs	Programs	Programs
	Total Budget				
Total	\$3,844,259	\$318,124	\$1,331,419	\$1,330,789	\$863,928
Utility Labor/Cost***	\$321,104	\$21,467	\$114,574	\$114,124	\$70,939
Marketing***	\$71,156	\$61,875	\$3,094	\$3,094	\$3,094
M&V***	\$7,910	\$597	\$3,682	\$3,632	\$0
Retailer Sales Incentive	\$0	\$0	\$0	\$0	\$0
Rebate Processing	\$57,728	\$4,773	\$26,493	\$26,463	\$0
Retail Store Discount Tracking	\$0	\$0	\$0	0\$	\$0
Service Provider Costs***	\$0	\$0	\$0	\$0	\$0
Service Provide Equip/Audit	\$0	\$0	\$0	0\$	\$0
Incentive Shipping & Other**	\$0	\$0	\$0	\$0	\$0
Incentive Rebate for Equip**	\$1,572,546	\$116,049	\$616,760	\$616,660	\$223,078
Utility/SP O&M	\$1,813,815	\$113,363	\$566,817	\$566,817	\$566,817
s this budg	e model input tabl	les in file labeled "P	get to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	ces-WCharts-Budge	ıfı.

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Small Commercial/Ind	dustrial Equi	ial/Industrial Equipment Program	am		
Four Year Program Budget	et	Program Year 1	Program Year 2	Program Year 3	Program Year 4
1		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	3-C I Equip	3-C I Equip	3-C I Equip	3-C I Equip
	Total Budget				
Total	\$12,745,840	\$895,333	\$3,950,169	\$3,950,169	\$3,950,169
Utility Labor/Cost***	\$1,058,941	\$67,339	\$330,534	\$330,534	\$330,534
Marketing***	\$235,160	\$100,361	\$44,933	\$44,933	\$44,933
M&V***	\$115,241	\$7,445	\$35,932	\$35,932	\$35,932
Retailer Sales Incentive	\$206,748	\$12,922	\$64,609	\$64,609	\$64,609
Rebate Processing	\$725,686	\$46,679	\$226,336	\$226,336	\$226,336
Retail Store Discount Tracking	\$11,382	\$711	\$3,557	\$3,557	\$3,557
Service Provider Costs***	\$0	\$0	0\$	\$0	\$0
Service Provide Equip/Audit	\$0	\$0	0\$	\$0	\$0
Incentive Shipping & Other**	\$0	\$0	\$0	\$0	\$0
Incentive Rebate for Equip**	\$10,392,681	\$659,876	\$3,244,268	\$3,244,268	\$3,244,268
Utility/SP O&M	\$0	\$0	\$0	\$0	\$0
* This code links this budget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	he model input tabl	es in file labeled "P	E-EC_Plan_Append	ices-WCharts-Budge	at"

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* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Appendix D-6 Per Program Budget Detail

Large Commercial/Ind	ustrial Equi	ial/Industrial Equipment Program	am		
Four Year Program Budget		Program Year 1	Program Year 2	Program Year 3	Program Year 4
		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	4-C/I Equip	4-C/I Equip	4-C/I Equip	4-C/I Equip
	Total Budget				
Total	\$5,591,621	\$366,053	\$1,741,856	\$1,741,856	\$1,741,856
				-	
Utility Labor/Cost***	\$381,864	\$23,775	\$119,363	\$119,363	\$119,363
Marketing***	\$63,782	\$24,285	\$13,166	\$13,166	\$13,166
M&V***	\$38,417	\$2,394	\$12,008	\$12,008	\$12,008
Retailer Sales Incentive	\$31,200	\$1,950	\$9,750	\$9,750	\$9,750
Rebate Processing	\$268,117	\$16,687	\$83,810	\$83,810	\$83,810
Retail Store Discount Tracking	\$0	\$0	\$0	\$0	\$0
Service Provider Costs***	\$0	\$0	0\$	\$0	\$0
Service Provide Equip/Audit	\$0	\$0	0\$	\$0	\$0
Incentive Shipping & Other**	\$0	\$0	\$0	\$0	\$0
Incentive Rebate for Equip**	\$4,808,241	\$296,962	\$1,503,759	\$1,503,759	\$1,503,759
Utility/SP O&M	\$0	\$0	\$0	\$0	\$0
* This code links this budget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	e model input tabl	es in file labeled "PI	E-EC_Plan_Append	ices-WCharts-Budge	ft"

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Industrial Motors & Variable Speed Drives Program	ariable Spee	d Drives Proç	gram		Minute and a second secon
Four Year Program Budget	et	Program Year 1	Program Year 2	Program Year 3	Program Year 4
		Fall 2009	From 6/2010	From 6/2011	From 6/2012
		Until-5/2010	Until-5/2011	Until-5/2012	Until-5/2013
	Program Code*	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR
	Total Budget				
Total	\$702,131	\$93,190	\$202,980	\$202,980	\$202,980
Utility Labor/Cost***	\$5,562	\$348	\$1,738	\$1,738	\$1,738
Marketing***	\$62,924	\$53,239	\$3,228	\$3,228	\$3,228
M&V***	\$2,541	\$159	\$794	\$794	\$794
Retailer Sales Incentive	\$32,480	\$2,030	\$10,150	\$10,150	\$10,150
Rebate Processing	\$18,304	\$1,144	\$5,720	\$5,720	\$5,720
Retail Store Discount Tracking	\$0	\$0	0\$	\$0	\$0
Service Provider Costs***	\$0	\$0	0\$	\$0	\$0
Service Provide Equip/Audit	\$0	\$0	0\$	\$0	\$0
Incentive Shipping & Other**	\$0	\$0	0\$	0\$	\$0
Incentive Rebate for Equip**	\$580,320	\$36,270	\$181,350	\$181,350	\$181,350
Utility/SP O&M	\$0	0\$	\$0	\$0	\$0
* This code links this budget to the model input tables in file labeled "PE-EC_Plan_Appendices-WCharts-Budget"	ne model input tabl	es in file labeled "PI	E-EC_Plan_Appendi	ces-WCharts-Budge	ť

* *Variable based on number of units of participation each year.

*** Budget line items reflect the results of measure based modeling for the EE Plan filing. Actual program expenditures (e.g. for promotion, EM&V, Tracking, labor costs) will be allocated to the sector based on budgeted amounts.

Appendix E Measure savings for programs included, including key assumptions

Appendix E

Source of Saving Values and Life	TRM	TRM	TRM	Sum of Other Measures Listed	Sum of Other Measures Listed	4 CFLs from TRM	TRM	TRM + Energy Star Calcuator	TRM	TRM	TRM	ACEEE PA Report	TRM	DSMore MI Database	DSMore MI Database	Manufacturer Supplied	DEER with Electric Heat	DEER with CAC	TRM	TRM	TRM but Estimate of Hours from Survey	TRM	TRM with Electric Heat	TRM	TRM	DSMore MI Database	DSMore MI Database	DSMore MI Database	TRM	TRM	TRM	DSMore MI Database	TRM	ACEEE PA Report	ACEEE PA Report	ACEEE PA Report	ACEEE PA Report	ACEEE PA Report	ACEEE PA Report	DEER with Electric Heat	DEER with Electric Heat	DEER with Electric Heat	ACEEE PA Report		07' WARM Program M&V Average Savings
Life	13	13	13	7	7	9	œ	5	12	15	7	15	15	15	15	15	15	15	9	6	9	9	11	12	13	10	12	10	13	13	10	5	10	15	15	10	15	15	10	6	6	13	15	10	15
kW Savings	0.720	1.470	1.070	0.044	0.044	0.009	0.238	0.072	0.297	0.297	0.290	0.000	0.106	0.481	0.481	0.065	0.000	0.066	0.009	0.009	0.000	0.003	0.015	0.010	0.011	0.000	0.000	0.357	0.013	0.013	0.059	0.013	0.006	0.923	1.845	0.020	0.038	0.580	0.028	0.024	0.012	0.037	0.079	0.000	0.170
kWh Savings	36	38	38	337	337	166	1,728	73	1,972	231	225	367	4,711	2,371	2,371	319	466	39	166	166	80	52	258	117	52	64	44	694	95	60	59	184	105	1,225	2,449	180	700	699	250	114	57	325	703	0	866
Rate Class	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	Res	LI RES
Program	Demand	Demand	Demand	1-Res Audits	1-Res Audits	1-Res Audits	2-RES App Turn-In	2-RES App Turn-In	3-RES EE HVAC	3-RES EE HVAC	3-RES EE HVAC	3-RES EE HVAC	3-RES EE HVAC	4-Res-EE P	4-Res-EE P	4-Res-EE P	1-Res Audits	4-Res-EE P	1-Res Audits	4-Res-EE P	4-Res-EE P	4-Res-EE P	4-Res-EE P	4-Res-EE P	4-Res-EE P	4-Res-EE P	1-Res Audits	4-Res-EE P	4-Res-EE P	4-Res-EE P	4-Res-EE P	4-Res-EE P	4-Res-EE P	5-RES New Con	5-RES New Con	6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole	6-Res Whole	7-Low Income
Measure Name	DLC-CAC	DLC-Pool Pumps	DLC-Water Heat	I-Res Home Audits - CFL 4 - Low Flow 2	1-Res Home Audits - CFL 4 - Low Flow 2	Schools Childern Education-No Savings	Refrigerator/Freezer recycling	Room Air Conditioners	ASHP - SEER 15	CAC - SEER 15	CAC - Maintenance	Furnace Fans	EE Ground Source Heat Pump	Solar Water Heating	HP Water Heater	EE Water Heater	Programable Thermostat_Heat	Programable Thermostat_CAC		CFL bulbs regular-15		CFL bulbs regular - 19			Freezers Energy Star-Chest Freezer				Refrigerators-Freezers Energy				-	_	Residential New Construction - 30%	-	Estar Windows	Duct sealing 20 leakage base		Kitchen Aerator		Pipe Wrap		Whole Building	Low Income Warm Program Through Act129
	1	0	щ	4	5	9	7	×	6	10	П	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

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Appendix E

Source of Saving Values and Life	DSMore MI Database	Sum of Other Measures Listed	4 CFLs from TRM	TRM	DEER with Electric Heat	TRM	TRM	TRM but Estimate of Hours from Survey	TRM	DSMore MI Database	4 CFLs using 1 hour a day.	DSMore MI Database	4 CFLs	4 CFLs	TRM			1 CFL using ACEEE Estimate of Comm Hours		DSMore MI Database	TRM	TRM	DSMore MI Database	TRM 8"	TRM	=(175-100)*365*12/1000	TRM	TRM	TRM	TRM	TRM	DSMore MI Database	ACEEE PA Report	DSMore MI Database	DSMore MI Database	DSMore MI Database	DSMore MI Database	DSMore MI Database	DSMore MI Database	DSMore MI Database	DSMore MI Database	DSMore MI Database	DSMore MI Database	Manufacturer Supplied	ACEEE PA Report
Life	Ś	٢	9	œ	15	9	9	9	9	12	9	5	9	9	15	0	0	9	0	12	15	10	10	10	10	10	15	15	15	15	15	10	15	15	12	12	12	12	12	12	12	12	12	15	15
kW Savings	0.013	0.044	0.009	0.238	0.000	0.009	0.009	0.000	0.003	0.000	0.000	0.013	0.017	0.017	0.036	0.000	0.000	0.056	0.000	0.000	0.036	0.018	0.099	0.061	0.108	0.000	8.576	9.581	0.406	0.795	2.741	0.666	1.340	0.118	0.059	0.058	0.103	0.122	0.189	0.308	0.690	2.550	0.000	0.065	2.880
kWh Savings	184	337	166	1,728	466	166	166	80	52	44	69	184	206	206	127	0	0	198	0	409	127	158	397	535	946	329	7,997	8,934	304	395	1,411	633	8,000	120	520	507	905	1,069	1,652	2,695	6,048	11,188	409	319	14,200
Rate Class	LIRES	LI RES	LI RES	LI RES	LI RES	LI RES	LI RES	LI RES	LI RES	LI RES	LI RES	LI RES	LI RES	Res	Gov	SM C&I	LG C&I	SM C&I	Gov	Gov	Gov	Gov	Gov	Gov	Gov	Gov	Gov	Gov	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I
Program	7-Low Income	1-Res Audits LI	1-Res Audits LI	2-RES App Turn-In LI	1-Res Audits LI	1-Res Audits LI	4-Res-EE P LI	4-Res-EE P LI	4-Res-EE P L1	}-Res Audits L1	7-Low Income	7-Low Income	7-Low Income	8-Multiple Family	2-Governmental Programs	1-C/I Audits	1-C/I Audits	1-C/I Audits	1-C/I Audits	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	2-Governmental Programs	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip
Measure Name	b Low Income Warm Program Through Act129 (Additic	1-Res Home Audits - CFL 4 - Low Flow 2 Water Heat	Schools Childern Education-No Savings	Refrigerator/Freezer recycling	Programable Thermostat_Heat	CFL bulbs regular-15 -Free No	-	CFL bulbs regular - Outside - 15 - Store Rebates	-	i LED Night Light		_			Multiple Family - T8-Lighting	Commercial, Industrial Audit - Sm&Md	-	Commercial CFL Program	-	Exterior HID replacement above 175W to 250W HID			-	Description of the test of the test of the test of		•.	,	Water-Cooled Centrifugal Chiller < 150 ton 0.56 kW/t			-	-		-	_	ENERGY STAR Commercial Solid Door Freezers 20	ENERGY STAR Commercial Solid Door Refrigerator	ENERGY STAR Commercial Solid Door Refrigerator	4 ENERGY STAR Ice Machines less than 500 lbs	5 ENERGY STAR Ice Machines 500 to 1000 lbs	5 ENERGY STAR Ice Machines more than 1000 lbs	7 ENERGY STAR Steam Cookers 3 Pan	H) EE Water Heater) HP Water Heater (Base Usage 22831)
	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	5	35	79	80	81	82	83	84	85	86	87	88	85	96

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Appendix E

Source of Saving Values and Life	TRM	Mat		USMORE MIL LATADASE	DSMore MI Database	DSMore MI Database	DSMore MI Database	DSMore MI Database	DSMore MI Database	DSMore MI Database	DSMore MI Database	DSMore MI Database	DSMore MI Database	ACEEE PA Report	DSMore MI Database	TRM	DSMore MI Database	TRM	TRM	DSMore MI Database	TRM	TRM	TRM	TRM	TRM	TRM	TRM	TRM	TRM	TRM	TRM	TRM	TRM	TRM	TRM	TRM	TRM
Life	15	-	2	01	5	\$	5	10	ę	4	s	10	6	15	12	15	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
kW Savings	0.036	010.0	0.010	660.0	0.055	0.013	0.116	1.014	0.043	0.070	0.210	0.147	-0.007	1.340	0.000	0.036	0.099	8.576	9.581	7.344	0.007	0.025	0.036	0.065	0.005	0.013	0.025	0.038	0.024	0.029	0.014	0.120	0.146	0.068	0.240	0.292	0.137
kWh Savings	127	160	001	165	803	184	1,396	712	375	613	800	256	842	8,000	409	127	397	7,997	8,934	12,802	76	329	467	857	99	174	325	502	1,360	1,653	774	6,800	8,265	3,870	13,600	16,530	7,740
Rate Class	SM C&I	1.0 7.10	SIM COL	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	SM C&I	LG C&I	LG C&I	LG C&I	LGC&I	LG C&I	LG C&I	LG C&I	LG C&I	LG C&I	LGC&I	LGC&I	LG C&I	LG C&I	LG C&I	LG C&I	LG C&I	LGC&I	LGC&I	LG C&I	LG C&I	LG C&I	LG C&I	LG C&I	LG C&I
Program	3-C/I Equip		o-c/i Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	4-C/I Equip	4-C/I Equip	4-C/I Equip	4-C/I Equip	4-C/I Equip	4-C/I Equip	4-C/I Equip	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR	5-IND MOTOR
Measure Name	91 HPT8 4th 4 Jamn. T12 to HPT8		92 LEU EXIL SIGNS ELECTIONIC FIXIMES (REUTITI UTITy)	-	94 Plug Load Occupancy Sensors Document Stations	95 Commercial Smart Strip plug outlet	96 Pre Rinse Sprayers	97 Refrigerant charging correction	98 Refrigeration Commissioning	99 Strip curtains for walk-ins - freezer	100 Vending Equipment Controller	101 Window Film	102 Setback/Setup	103 Demand-controlled ventilation (DCV)	104 Exterior HID replacement above 175W to 250W HID	105 HPT8 4ft 4 lamp, T12 to HPT8	106 Occupancy Sensors under 500 W	107 Water-Cooled cent Chiller 150 - 300 ton 0.57 kW/ton	108 Water-Cooled Centrifugal Chiller < 150 ton 0.56 kW/t	109 Window Film	110 Motors 1 HP 1200	111 Motors 5 HP 1200	112 Motors 10 HP 1200	113 Motors 20 HP 1200	114 Motors 1 HP 3600	115 Motors 5 HP 3600	116 Motors 10 HP 3600	117 Motors 20 HP 3600	118 Water Pumps with VFD's	119 HVAC Fans with VFD's	120 Air Compressors with VFD's	121 Water Pumps with VFD's	122 HVAC Fans with VFD's	123 Air Compressors with VFD's	124 Water Pumps with VFD's	125 HVAC Fans with VFD's	126 Air Compressors with VFD's

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Appendix F Annual measure participation numbers

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	Measure Name	Program	Number of 2010 Program participants/ Measure Units	Number of 2011 Program participants/ Measure Units	Number of 2012 Program participants/ Measure Units	Number of 2013 Program participants/ Measure Units	Participants Assumptions
-	DLC-CAC	Demand	1,090	15,344	14,881	0	Res*Sat*Survey
~~~	DLC-Pool Pumps	Demand	57	700	540	0	Res*Sat*Survey
m	DLC-Pool Pumps	Demand	7	66	119	0	Res*Sat*Survey
4	1-Res Ilome Audits - CFL 4 - Low Flow 2 Water Heat	I-Res Audits	4,825	24,125	24,125	24,125	Res*Sat*Survey * 93.2%
s v	I-Res Home Audits - CFL 4 - Low Flow 2	I-Kes Audits	22	125 207 C	571 202 C	211 202 C	Kes" Sat" Survey Estimate of Activity * 03 7%
c r	Schools Childern Education-No Savings Dofinition (Provide Fourieries)	2-PES Ann Tum-In	200,1	2,/05 6,868	6 868	6 868	Pressats Survey * 93 7%
- 0	Notitigeratory Freezer recycling	2-RES Am Turn-In	502 502	0,000	1 525	1 525	Rudgetary Limits
• •	ACUT ALL CULTINUESS	3-RES EE HVAC	43	214	214	214	10% of CAC
0	CAC - SEER 16	3-RES EE HVAC	428	2.141	2,141	2,141	Res*Sat*Survey - Minus 10%
=	CAC - Maintenance	3-RES EE HVAC	442	2,211	2,211	2,211	Res*Sat*Survey
12	Furnace Fans	3-RES EE HVAC	6	44	44	44	Budgetary Limits
13	EE Ground Source Heat Pump	4-Res-EE P	0	15	15	15	Budgetary Limits
14	Solar Water Heating	4-Res-EE P	0	15	15	15	Budgetary Limits
15	IIP Water Heater	4-Rcs-EE P	0	100	100	100	Budgetary Limits
16	EE Water Heater	4-Res-EE P	1,081	5,406	5,406	5,406	Res*Sat*Survey
17	Programable Thermostat_Heat	4-Res-EE P	334	1,670	1,670	1,670	Res*Sat*Survey * 93.2%
18	Programable Thermostat_CAC	4-Res-EE P	885	4,424	4,424	4,424	Res*Sat*Survey
19	CFL bulbs regular-15 -Free No Water Heat	1-Res Audits	4,903	24,515	24,515	24,515	Res*Sat*Survey * 93.2%
	CFL bulbs regular-15 -Free No Water Heat Mailed At						
20	Request	4-Res-EE P	4,671	23,354	23,354	23,354	Kes*Sat*Survey * 93.2%
5	CFL bulbs regular - Outside - 15 - Store Rebates	4-Kes-EE P	8/6/5	068'67	068,62	068,62	Res 5at Survey 53.2%
77	CFL bulbs regular - 19 - Store Rebates	4-Kes-de F	42,234	211,112	2/1,1/2	2/1,112	WZ 64 . AAN DC JPC SAV
23	Cloudes washer ellergy olar, electric water licater, Electric Driver	4-Res-EE P	200	1.000	1.000	1.000	Budgetary Limits
77	Dehmidifiers	4-Res-FF P	200	1.000	1.000	1.000	Budgetary Limits
52	Freezers Enerov Star-Chest Freezer	4-Res-EE P	200	1.000	1,000	1,000	Budgetary Limits
26	Holiday Lights	4-Res-EE P	536	2,681	2,681	2,681	Res*Sat*Survey
27	LED Night Light	4-Res-EE P	1,352	2,703	2,703	2,703	Free to School Audits * 93.2%
28	Pump and Motor Single Speed	4-Res-EE P	231	1,156	1,156	1,156	Res*Sat*Survey
29	Refrigerators-Freezers Energy Star - Side by Side	4-Rcs-EE P	200	1,000	1,000	1,000	Budgetary Limits
30	Refrigerators-Freezers Energy Star - Top Freezer	4-Res-EE P	200	1,000	1,000	1,000	Budgetary Limits
FF 1	Room Air Conditioners	4-Kes-EEP	2,741	10,964	10,964	10,964	Kes"Sat"Survey
22	Smart Strip plug outlet	4-Kcs-EE P	2,/40	15,/28	15,/28	15,/26	(Res 2at 5urvey) 22% Budgetary I imits
5 5	1 oreniere Floor Lamps Devidential New Construction - 15%	5-RES New Con	208	1 146	1 146	0	Budgetary Limits
5 %	Residential New Construction - 30%	5-RES New Con	208	1.146	1,146	0	Budgetary Limits
36	Ceiling Fans	6-Rcs Whole	120	150	150	150	Budgetary Limits
37	Estar Windows	6-Res Whole	120	150	150	150	Budgetary Limits
38	Duct sealing 20 leakage base	6-Res Whole	200	250	250	250	Budgetary Limits
39	Low Flow Showerheads	6-Res Whole	800	1,000	1,000	1,000	Budgetary Limits
<del>3</del> .	Kitchen Aerator	6-Rcs Whole	800	1,000	1,000	1,000	Budgetary Limits
4	Bathroom Aerator	6-Kes Whole	800	1,000	1,000	1,000	Budgetary Limits
6	Pipe Wrap	6-Res Whole	200	007	NC7	020 067	Budgetary Limits
4;	Roof Insulation	6-Kes Whole	008	0001	000 1	0001	Budgetary Limits
4 5	whole Building	2 I our Lesson	000	1,000	1,000	1,000	WAPM Forecast * 75%
<del>3</del>	Low Income Warm Program Unrough Act129 (Additional Tow Income Warm Program Thronteh Act129 (Additional	/-FOW INCOME	077	000	505	100	0/CZ 100001 MINE M
46	SmartStrins)	7-Low Income	73	178	186	194	WARM Forecast * 25% * 1/3
47	1-Res Home Audits - CFL 4 - Low Flow 2 Water Heat	1-Res Audits LI	530	2,651	2,651	2,651	Res*Sat*Survey * 6.8%
48	Schools Childern Education-No Savings	1-Res Audits LI	149	297	297	297	Estimate of Activity * 6.8%
49	Refrigerator/Freezer recycling	2-RES App Tum-In LI	151	755	755	755	Res*Sat*Survey * 6.8%
50	Programable Thermostat_Heat	1-Res Audits LI	37	183	183	183	Res*Sat*Survey * 6.8%

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Appendix F

Participants Assumptions	Res*Sat*Survey * 6.8%	Res*Sat*Survey * 6.8%	Res*Sat*Survey * 6.8%	Res*Sat*Survey * 6.8% Pres to School Andrie * 6.8%	WARM Forecast	WARM Forecast * 1/3	Low Income - Low Usage Count	PAHA Provided	PAHA Provided	Budgetary Limits	Budgetary Limits	Comm*Survey	Budgetary Limits	Base on Fed Sales	Intersection Estimate	Intersection Estimate	Street Light Count	; ; ;	Fed Large User Counts	Ead I area I laan Consta	Fou traige Oser Counts Budgatary I imite	Budgetary Limits Budgetary I imits	Budgetary Limits		Budgetary Limits	Budgetary Limits	Budgetary Limits	Dudanteer [ imite	purgerary traines	Budgetary Limits		Budgetary Limits	Budratani Limite	Budgetary Limits	Budgetary Limits	Budgetary Limits	Budgetary Limits		Comm*Survey	COULD SURVEY MILLUS 10%	Comm*Survey*Source Foot Estimate	Comm*Current	Comm*Survey			
Number of 2013 Program participants/ Measure Units	2,694	2,566	3,284	502,822	2 348	277	3,316	1,899	1,899	750	75	53,031	60	0	0	0	0	0	0	4,462		0	c	200	000	200	2	200	125	200	301	C71	125		125	361	220	250	250	250	010	4,858	040 3C1	51 843	10 553 6	12,334
Number of 2012 Program participants/ Measure Units	2,694	2,566	3,284	25,205	2 2 5 5	743	3,316	1,899	1,899	750	75	53,031	60	261	2.782	458	458	7,333	1,833	4,462	ı	4	,	500	000	200	5	200	125	200	175	3	125		125	175	220	250	250	250	010	4,858	070 301	51 843	10 553 6	12,334
Number of 2011 Program participants/ Measure Units	2,694	2,566	3,284	23,203 707	2 157	710	3.316	1.899	1,899	750	75	53,031	60	261	2.782	458	458	7,333	1,833	4,462		×	G	۰ ۲۰	000	200		200	125	200	361	121	125		125	361	250	250	250	250		4,858	560	121	10 552 6	12,334
Number of 2010 Program participants/ Measure Units	539	513	657	4,641	670	2.90	663	380	380	150	15	10,606	0	47	506	83	83	1,333	333	892		0	c	001	100	6 <del>1</del>	2	40	25	40	36	3	25		25	36	3 9	50	50	50		972	140	10 369	1 010 7	2,467
Program	i-Res Audits LI	4-Res-EE P LI	4-Res-EE P LJ	4-Kes-EEPLI Pos Andie 1	1-1 out income	7-Low Income	7-Low Income	8-Multiple Family	8-Multiple Family	1-C/I Audits	1-C/I Audits	1-C/I Audits	1-C/I Audits	2-Governmental Programs		2-Governmental Programs		2-COVENINGULAL FLOGRAMS	3 Cd Eanin	3-C/I Equip	Junker viz a	3-C/I Equip	3-C/I Equip	3-C/I Equip	a C/I Earlin	dinha 10-c	3-C/I Equip		3-C/I Equip	3 CALESSION	3-C/I Fourier	3-C/I Equip	3-C/I Equip	3-C/I Equip		3-C/I Equip	5-C/1 Equip	3-C/I Fourin	2 Cd Equip	3-C/I Equip						
Measure Name	<ol> <li>CFL bulbs regular-15 -Free No Water Heat CFL bulbs regular-15 -Free No Water Heat Mailed At</li> </ol>	52 Request		54 CFL bulbs regular - 19 - Store Rebates		50 LOW INCOME LIGHTING, WARD LIGHT 57 Low Income Lighting, Warm SmartShir		Multiple Family - CFL Lig					64 Commercial, Industrial Audit - Gov Exterior HID real-accentent above 175W to 250W HID	65 retrofit						71 Street Lighting - 175 Mercury to 100 HPS		72 0.46 kW/ton IPLV WEAL COLLEGE AND COLUMN AND AND AND AND AND AND AND AND AND AN			/4 AL <03,000 FR 76 AC 45 000 135 000	76 AC 240 000 - 760 000		Dryer	78 Demand-controlled ventilation (DCV)		ENERGY STAR Commercial Solid Door Freezers less	80 - Ulait 2010 ENERCY STAR Communical Solid Door Freedom 20 to	81 48 ft3	ENERGY STAR Commercial Solid Door Refrigerators	82 less than 20ft3	ENERGY STAR Commercial Solid Door Retrigerators 20	03 10 40 103 34 ENERGY STAR Iva Machines Jess than 500 lbs			,		88 retrofit		90 IIF Water Heater (Base Osage 22031) 01 HPT8 4ft 41 mm T13 ft HPT8		22 DED EXEMPTS Electronic Frances (we used) 93 Occupancy Sensors under 500 W

### Appendix F

Participauts Assumptions	Comm*Survey	Comm*Survey	Budgetary Limits	Comm*Survey	Budgetary Limits	Budgetary Limits	Budgetary Limits	Budgetary Limits	Budgetary Limits	Budgetary Limits		Comm*Survey	Comm*Survey*Square Foot Estimate	Comm*Survey		Budgetary Limits		Budgetary Limits	Budgetary Limits	Using NJ Experience for Motor Program																
Number of 2013 Program participants/ Measure Units	1,189	6,864	250	4,378	250	250	250	250	250	4		3,086	30,860	7,342		50		15	100	500	375	250	125	500	375	250	125	40	40	40	40	40	40	40	40	40
Number of 2012 Program participants/ Measure Units	1,189	6,864	250	4,378	250	250	250	250	250	4		3,086	30,860	7,342		50		15	100	500	375	250	125	500	375	250	125	40	40	40	40	40	40	40	40	40
Number of 2011 Program participants/ Measure Units	1,189	6,864	250	4,378	250	250	250	250	250	4		3,086	30,860	7,342		50		15	100	500	375	250	125	500	375	250	125	40	40	40	40	40	40	40	40	40
Number of 2010 Program participants/ Measure Units	396	1,373	50	1,094	50	50	50	50	50	1		578	6,172	1,468		10		3	20	100	75	50	25	100	75	50	25	8	8	8	8	8	8	8	8	8
Program	3-C/1 Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	3-C/I Equip	4-C/I Equip		4-C/I Equip	4-C/I Equip	4-C/I Equip		4-C/I Equip		4-C/I Equip	4-C/I Equip	5-IND MOTOR																
Measure Name	94 Plug Load Occupancy Sensors Document Stations	95 Smart Strip plug outlet	96 Pre Rinse Sprayers	97 Refrigerant charging correction	98 Refrigeration Commissioning	99 Strip curtains for walk-ins - freezer	100 Vending Equipment Controller	101 Window Film	102 Sethack/Sctup		Exterior HID replacement above 175W to 250W HID	104 retrofit	105 IIPT8 4ft 4 lamp, T12 to HPT8	106 Occupancy Sensors under 500 W	Water-Cooled cent Chiller 150 - 300 ton 0.57 kW/ton with	107 0.46 kW/ton IPLV	Water-Cooled Centrifugal Chiller < 150 ton 0.56 kW/ton	108 with 0.53 kW/ton IPLV	109 Window Film	110 Motors 1 HP 1200	111 Motors 5 HP 1200	112 Motors 10 HP 1200	113 Motors 20 HP 1200	114 Motors 1 HP 3600	115 Motors 5 HP 3600	116 Motors 10 HP 3600	117 Motors 20 HP 3600	118 Water Pumps with VFD's	119 HVAC Fans with VFD's	120 Air Compressors with VFD's	121 Water Pumps with VFD's	122 HVAC Fans with VFD's		124 Water Pumps with VFD's	125 HVAC Fans with VFD's	126 Air Compressors with VFD's

#### **Appendix G** PUC Appendix Tables 1-7

		Summary of Life fits, and TRC per the			
Portfolio	Discount Rate	Total Discounted Lifetime Costs (\$000)	Total Discounted Lifetime Benefits (\$000)	Total Discounted Net Lifetime Benefits (\$000)	Cost- Benefit Ratio
<b>Residential</b> (exclusive of Low- Income)	7.52%	72,268,723	190,147,425	117,878,702	2.63
Residential Low Income (Warm Plus)	7.52%	7,227,648	17,013,804	9,786,157	2.35
Commercial/ Industrial Small	7.52%	43,081,687	115,436,021	72,354,334	2.68
Commercial/ Industrial Large	7.52%	28,350,369	34,482,811	6,132,442	1.22
Governmental/ Non-Profit	7.52%	23,224,250	46,855,230	23,630,980	2.02
Total	7.52%	174,152,676	403,935,291	229,782,614	2.32

#### Table 1: Portfolio Summary of Lifetime Costs and Benefits

		ary of Po	rtfolio Energy m Year is Jun					
	Program Y		Program Y		Program Y	ear 2012	Program Y	ear 2013
MWh Saved for Consumption Reductions kW Saved for Peak Load Reductions	MWh Saved	kW Saved	MWh Saved	kW Saved	MWh Saved	Saved	MWh Saved	kW Saved
Baseline ¹	14,399,289	2,395,000	14,399,289	2,395,000	14,399,289	2,395,000	14,399,289	2,395,000
Residential Sector (exclusive of Low- Income) - Cumulative Projected Portfolio Savings ²	13,548	3,507	78,091	29,165	142,610	54,219	201,769	62,636
Residential Low-Income Sector - Cumulative Projected Portfolio Savings ²	1,614	153	8,587	795	15,604	1,441	22,664	2,093
Commercial/Industrial Small Sector - Cumulative Projected Portfolio Savings ²	8,304	2,794	48,498	15,681	88,692	28,569	128,869	41,455
Commercial/Industrial Large Sector - Cumulative Net Weather Adjusted Savings ²	2,424	607	14,614	3,642	26,803	6,677	38,992	9,712
Governmental/Non-Profit Sector - Cumulative Projected Portfolio Savings ²	3,832	859	23,541	5,182	43,230	9,485	55,623	12,746
PJM Peak Demand				10,000		10,000		
EE&C Plan Total - Cumulative Projected	29,722	7,920	173,331	64,466	316,940	110,392	447,917	128,642
Percent Reduction From Baseline (MWh)	0.2%	0.3%	1.2%	2.7%	2.2%	4.6%	3.1%	5%
Commission Identified Goal			143,993		1 August		431,979	107,775
Percent Savings Due to Portfolio Above or Below Commission Goal			20%				4%	2%

#### Table 2: Summary of Portfolio Energy and Demand Savings

Commission approved Consumption Forecast and Peak Demand Forecast per Section H of the January 15 Implementation Order. (Template Section 10A & 10B)

2 Adjusted for weather and extraordinary load as applicable.

KW savings depicted for 2013 as 1% above goal are due to savings accumulated from energy efficiency programs that run beyond the summer period of 2012 (June 1 - September 30)

Table 3:	Summary	of Portfolio	Costs

Table 5. Summary of Forth	Summary	of Portfolio Costs r is June 1 – May	31	
	Program Year 2010	Program Year 2011	Program Year 2012	Program Year 2013
	Portfolio Budget (\$)	Portfolio Budget (\$)	Portfolio Budget (\$)	Portfolio Budget (\$)
Residential Portfolio Annual Budget (\$000 and percent of Portfolio Budget)	2,848,404	15,939,085	14,871,072	7,221,339
Residential Low-Income Portfolio Annual Budget (\$000 and percent of Portfolio Budget)	1,347,006	1,835,537	1,896,072	1,954,085
Commercial/Industrial Small Portfolio Annual Budget (\$000 and percent of Portfolio Budget)	768,802	3,376,246	3,376,246	3,376,246
Commercial/Industrial Large Portfolio Annual Budget (\$000 and percent of Portfolio Budget)	389,232	1,627,567	1,627,567	1,627,567
Governmental/Non-Profit Portfolio Annual Budget (\$000 and percent of Portfolio Budget)	579,562	2,545,812	2,545,182	2,078,321
PJM Peak Demand Program		1,580,000	1,580,000	
Total Portfolio Annual Budget	5,933,006	26,904,247	25,896,140	16,257,558

Appendix	G
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Table 4: Program Summaries
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Table 4: Program Summarie		T	able 4: Program Summaries			Ĩ.	
	Program Name	Program Market	Program Two Sentence Summary	Program Years Operated	Net Lifetime MWh Savings	Net Peak Demand kW Savings	Percentage of Portfolio and Total
	Demand Reduction	RES	Reduce Residential Central Air Conditioning (CAC) Load over the highest 100 load hours	4	15,405	27,729	0.4%
	Home Energy Audits	RES	Available through two levels: 1) self- adminstered on-ine audit and 2) a walk- through on-site audit performed by auditor.	4	355,176	4,762	9.1%
	Appliance Turn-In	RES	Provide incentive to households for turning in older inefficient appliances and lighting equipment.	4	305,608	6,264	7.8%
	EE HVAC & Solar	RES	Provide incentives supporting implementation of contractor-installed HVAC, solar or other eligible systems.	4	55,020	4,829	1.4%
	EE Products	RES	Provides financial incentives and support to retailers that sell energy efficient products, such as Energy Star® qualified appliances or compact fluorescent light bulbs.	4	608,168	10,109	15.6%
Duidentiel Durfeite D	New Construction	RES	Provides incentives to builders for achieving Energy STAR Homes status, or the Home Energy Rating System Program (HERS) associated with a highly energy efficient home.	4	137,775	7,776	3.5%
Residential Portfolio Programs (exclusive of Low Income)	Whole Building Comprehensive	RES	Provides comprehensive diagnostic assessments followed by direct installation of selected low cost measures plus incentives to households for implementation of measures addressing building shell, appliances and other energy consuming features. Customers can tap into prescriptive rebates as well as the Keystone Loan program.	4	45,946	1,051	1.2%
	Multiple Family	RES	This program will be delivered in cooperation PHFA, and will target low- income communities. The program seeks to motivate property owner/manager and landlords toward installing energy efficiency measures. Costs associated with Residential accounts will be tracked through the Residential multifamily program. Cost associated with non-residential account will be tracked through the C/I multifamily program.	4	8,764	115	0.2%
	Totals for Residential Sector				1,531,861	62,636	39.2%
	Warm Plus	LI RES	The "WARM Plus" Act 129 program expands the measures installed under the existing Low-Income Usage Reduction Program, known as the WARM program, and provides WARM services to additional income-eligible customers	4	50,423	611	1.3%
Residential Low-Income Sector Programs	Home Energy Audits	LI RES	Available through two levels: 1) self- adminstered on-ine audit and 2) a walk- through on-site audit performed by auditor.	4	38,735	521	1.0%
	Appliance Turn-In	LI RES	Provide incentive to households for turning in older inefficient appliances and lighting equipment.	4	33,385	645	0.9%
	EE Products	LI RES	Provides financial incentives and support to retailers that sell energy efficient products, such as Energy Star® qualified appliances or compact . fluorescent light bulbs.	4	42,176	317	1.1%
	Totals for Low- Income Sector				164,719	2,093	4.2%

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	Program Name	Program Market	Program Two Sentence Summary	Program Years Operated	Net Lifetime MWh Savings		Percentage of Portfolio and Total Lifetime MWh savings
Commercial/	Energy Audit	Small C&I	Provides two levels of energy audit services 1) a simple walk-through audit for small business with non-complex loads, and 2) a more comprehensive assessment for medium to large non- residential customers to help identify existing end uses of energy and find specific ways in which energy savings can be achieved.	4	235,522	10,678	6.0%
Industrial Small Portfolio Programs	Equipment Rebate	Small C&I	Provides for the implementation of cost effective, high efficiency non-standard measures through the authorized Conservation Service Provider (CSP) contractor network for local, state and federal buildings, as well as for institutional customers.	4	961,866	30,779	24.6%
	Totals for C/I Small Sector				1,197,388	41,457	30.7%
	Equipment Rebate	Large C&I	Provides for the implementation of cost effective, high efficiency non-standard measures through the authorized Conservation Service Provider (CSP) contractor network for local, state and federal buildings, as well as for institutional customers.	4	324,653	9,384	8.3%
Commercial/ Industrial Large Portfolio Programs	Industrial Motors and VSD	Large C&I	This program is designed to encourage the company's commercial and industrial customers to: 1. Upgrade their existing motors to NEMA Premium® motors when switching out old motors due to breakdowns and or programmed replacements 2. Install variable speed drives on motors that do not always operate at the same speed.	4	146,970	329	3.8%
	Totals for C/I Large Sector				471,623	9,712	12.1%
Governmental/ Non-Profit Portfolio Programs	Governmental & Institutional	Gov't	This program involves a feasibility study to identify energy savings opportunity to expedite the Federal and municipal agencies taking action. Provides for the implementation of cost effective, high efficiency standard and non-standard measures through a Conservation Service Provider (CSP) for local, state and federal buildings, as well as for institutional customers.	4	539,532	12,747	13.8%
	Totals for Gov't/NP Sector Programs				539,532	12,747	13.8%
Total for Pla	l				3,905,123	128,644	100.0%

#### Table 5: Budget and Parity Analysis Summary

Customer Class	Average Annualized Budget	% of Total EDC Budget	% of Total Budget Allocating Government & Other	% of Total Customer Revenue	Difference
Residential	10,219,975	54.51%			0
Residential Low Income	1,758,175	9.38%			0
Residential Subtotal	11,978,150	63.89%	63.89%	43.5%	20%
C&I Small	2,829,109	15.09%	18.7%	26.9%	-8%
C&I Large	1,309,826	6.99%	9.1%	28.5%	-19%
C&I Subtotal	4,138,935	22.08%	27.9%	55.4%	-27%
Gov Street Lighting	690,644	3.68%	3.68%	0.63%	3.06%
GS/Public Service, MS	60,838	0.32%	0.32%	0.48%	-0.16%
Gov Multi-Family	71,068	0.38%	NA	NA	NA
Gov Small C&I	614,799	3.28%	NA	NA	NA
Gov Large C&I	403,303	2.15%	NA	NA	NA
Governmental/Non-Profit Subtotal	1,840,652	9.82%	4.0%	1.1%	3%
Residential/C&I/Governmental/Non-Profit Subtotal	17,957,738	95.79%			
Other Expenditures				1	
Other Expenditures Subtotal	790,000	4.21%	4.2%		
EDC TOTAL	18,747,738	100%	100%	100%	
1) Portions of Governmental is served as par	t of C&I Sma	ll and C&I Lai	ge rate classes		

#### Table 6A: Portfolio-Specific Assignment of EE&C Costs

Residential Port	folio (including	g Low-Income)	
		Cost Elements (\$)	
EE&C Program	Total Incentives	Operations Costs	Total Budget (2010-2013)
Demand Reduction	6,066,480	6,095,210	12,161,690
Home Energy Audits	5,461,463	1,466,587	6,928,051
Appliance Turn-In	1,463,641	4,203,131	5,666,772
EE HVAC & Solar	1,976,106	437,594	2,413,699
EE Products	6,142,131	2,329,929	8,472,060
New Construction	3,998,750	1,181,094	5,179,844
Whole Building Comprehensive	1,807,850	210,728	2,018,578
Multiple Family	121,529	39,393	160,922
Warm Plus	3,639,078	1,271,908	4,910,986
Totals	30,677,028	17,235,572	47,912,600

Small Co	mmercial & In	ndustrial	
EE&C Program		Cost Elements (\$)	
Net and the second s	Total Incentives	Operations Costs	Total Budget (2010-2013)
Energy Audit	529,700	220,527	750,227
Equipment Rebates	8,632,202	1,934,008	10,566,209
Totals	9,161,901	2,154,535	11,316,436

Large	Commercial & I	ndustrial	
		Cost Elements (\$)	
EE&C Program	Total Incentives	Operations Costs	Total Budget (2010- 2013)
Equipment Rebates	3,910,105	627,070	4,537,175
Industrial Motors and VSD	580,320	121,811	702,131
PJM Demand Response	3,160,000		3,160,000
Totals	7,650,425	748,881	8,399,306

	rnmental/Non-P	Profit Cost Elements (\$)	
EE&C Program	Total Incentives	Operations Costs	Total Budget (2010- 2013)
Street Lighting	713,850	2,048,725	2,762,575
GS/Public Service, MS	189,274	54,079	243,353
Multiple Family	212,676	71,598	284,273
Governmental & Institutional	3,328,036	744,371	4,072,408
Totals	4,443,836	2,918,773	7,362,609

Common Cost Element	Total Cost (S)	Basis for Cost Allocation	Residential (Including Low- Income)	Commercial/ Industrial Small	Commercial/ Industrial Large	Governmental/ Non-profit
Consultant Costs and Employee Expenses for Plan Development	\$296,312	Sum of Appendix D 1 4 Lines 149-152 Totals	\$189,317	\$55,555	\$39,562	\$11,877
Online Audit Tool Costs	\$147,105	Residential	\$147,105	\$0	\$0	\$0
Measurement and Verification Tracking and Reporting Software	\$756,540	Sum of Appendix D 1 4 Lines 149-152 Totals	\$483,362	\$141,842	\$101,010	\$30,325
Enhanced Measurement and Verification Requirements	\$2,759,184	Sum of Appendix D 1 4 Lines 149-152 Totals	\$1,762,875	\$517,314	\$368,396	\$110,599
External Legal Fees	\$52,538	Sum of Appendix D 1 4 Lines 149-152 Totals	\$33,567	\$9,850	\$7,015	\$2,106
Totals	\$4,011,679		\$2,616,227	\$724,561	\$515,984	\$154,907

#### Table 6B: Allocation of Common Costs to Applicable Customer Sector

#### Table 6C: Summary of Portfolio EE&C Costs

Portfolio	Total Sector Portfolio- specific Costs	Total Common Costs	Total of All Costs
Residential (Including Low-Income)	\$47,912,600	\$2,616,227	\$50,528,827
Commercial/Industrial Small	\$14,059,905	\$724,561	\$14,784,466
Commercial/Industrial Large	\$10,012,518	\$515,984	\$10,528,502
Governmental/Non-profit	\$3,005,928	\$154,907	\$3,160,835
Totals	\$74,990,951	\$4,011,679	\$79,002,630

Table 7A: TRC Benefits Table

Residential					TR	TRC Benefits By Program Per Year (\$000)	Program Per	Year (\$000)				
					Capacity	Capacity	Energy	Energy	Load Reductions in kW	ions in kW	MWh Saved	Saved
Program	Program Year	TRC	Program Costs (\$000)	Program Benefits (\$000)	Annual Benefits	Annual Gen/T&D	Annual Benefits	Annual On/Off Peak	Annual	Lifetime	Annual	Lifetime
Demand Reduction	2010	1.42	528,565	750,110	11	See footnote 1	70,664	70,664 See footnote 2	978	27,729	47	15,405
	2011	1.75	6,350,568	11,130,140	10,096,446		1,033,695		14,656	27,729	701	15,405
	2012	2.15	5,282,556	11,334,614	10,313,109		1,021,504		27,729	27,729	1,331	15,405
;	2013	0.00		3					27,729	27,729	1,331	15,405
Home Energy Audits	2010	5.42	417,707	2,264,529	139,898		2,124,630		305	4,762	3,243	355,176
	2011	6.05	1,838,941	11,125,795	738,341		10,387,454		1,791	4,762	18,504	355,176
	2012	6.30	1,838,941	11,576,736	806,456		10,770,280		3,276	4,762	33,764	355,176
	2013	6.51	1,838,941	11,976,953	845,879		11,131,074		4,762	4,762	49,025	355,176
Appliance Turn-In	2010	6.03	318,352	1,919,906	178,487		1,741,419		392	6,264	2,692	305,608
	2011	6.59	1,526,791	10,058,834	968,986		9,089,848		2,349	6,264	16,152	305,608
	2012	6.87	1,526,791	10,495,445	1,058,881		9,436,564		4,307	6,264	29,612	305,608
	2013	7.11	1,526,791	10,857,988	1,110,819		9,747,169		6,264	6,264	43,072	305,608
EE HVAC	2010	0.98	461,291	450,847	178,851		271,995		301	4,829	321	55,020
	2011	1.08	2,273,596	2,459,203	958,333		1,500,870		1,810	4,829	2,007	55,020
	2012	1.13	2,273,596	2,575,922	1,030,612		1,545,310		3,320	4,829	3,693	55,020
	2013	1.17	2,273,596	2,661,433	1,073,202		1,588,231		4,829	4,829	5,379	55,020
EE Products	2010	3.22	1,159,919	3,738,156	362,353		3,375,802		654	10,109	5,418	608,168
	2011	3.39	5,808,155	19,700,318	1,886,155		17,814,163		3,806	10,109	32,632	608,168
	2012	3.53	5,808,155	20,477,242	2,036,228		18,441,014		6,958	10,109	59,846	608,168
	2013	3.65	5,808,155	21,205,219	2,124,604		19,080,615		10,109	10,109	87,060	608,168
New Construction	2010	2.37	586,333	1,392,246	498,303		893,943		648	7,776	860	137,775
	2011	2.53	3,153,302	7,975,661	2,899,133		5,076,529		4,212	7,776	5,590	137,775
	2012	2.63	3,153,302	8,298,223	3,079,744		5,218,479		7,776	7,776	10,320	137,775
	2013	0.00	656	,	,		'		7,776	7,776	10,320	137,775
Whole Building	2010	1.13	843,658	951,234	155,904		795,330		221	1,051	879	45,946
	2011	1.19	1,038,535	1,237,595	206,886		1,030,709		498	1,051	1,978	45,946
	2012	1.23	1,038,535	1,280,947	220,671		1,060,276		775	1,051	3,077	45,946
	2013	1.27	1,038,535	1,317,278	228,965		1,088,314		1,051	1,051	4,175	45,946
<b>Multiple Family</b>	2010	3.39	15,858	53,782	2,960		50,822		7	115	88	8,764
	2011	5.84	48,354	282,236	16,179		266,057		43	115	528	8,764
	2012	6.08	48,354	293,768	17,790		275,978		79	115	967	8,764
	2013	6.31	48,354	305,066	18,708		286,358		115	115	1,407	8,764
Total		3.18	59,875,188	190,147,425	43,932,330		146,215,095		62,636	62,636	201,769	1,531,861
1. Conservit	1. Gonomion Transmission and	ission and		macify costs are co	ua e ui benidan	Distribution Converts are combined in a cum of avoided conscipt costs. These costs are then NDV hock to the wear the measure mit was	city costs Thee	e costs are then N	IPV hack to the	vear the measu	tre unit was	
1: Generau installed T	1: Generation, 1 ransmission and installed The combined avoided	ussion anu ed avoider	1 DISUTIONUOII CE	apacity cosis are cu can not he identifi	ed hy compone	Distribution Capital Control of the Control of Control	tal avoided capa	city costs for Gen	eration. Transm	ycar mc mcasu ission and Dist	tribution are	
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2: The on and off peak energy costs are combined in a sum of avoided energy costs. These costs are then NPV back to the year the measure unit was installed. The combined avoided energy costs can not be identified by component therefore the total avoided energy costs for on and off peak energy costs are displayed here.

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					TWC Dellel	יופטו ז עם או	INC DEBERIS DY FIUSIARI FEL LEAL (2000)	(nnnc) 1				201 801
Residential Low-Income												
									Load Red	Load Reductions in	MWh Saved	Saved
				Program	Capacity	Capacity	Energy	Energy	k	kW		
	Program		Program Costs	Benefits	Annual	Annual	Annual	Annual				
Program	Year	TRC	(2000)	(8000)	Benefits	Gen/T&D	Benefits	<b>On/Off Peak</b>	Annual	Lifetime	Annual	Lifetime
Warm Plus	2010	0.80	569,614	454,889	39,022	See	415,867	Cas footnota	60	611	543	50,423
	2011	1.02	1,387,430	1,410,760	116,175	footnote 1	1,294,585	2 on PLIC	238	611	2,263	50,423
	2012	1.04	1,447,965	1,506,285	129,126	on PUC	1,377,159	Zahle 7A	422	611	4,028	50,423
	2013	1.06	1,505,977	1,599,415	138,672	Table 7A	1,460,743	Taury //	611	611	5,835	50,423
Residential Audits	2010	0.59	416,827	246,042	15,226	See	230,816	Can faataata	33	521	355	38,735
	2011	6.11	198,898	1,214,457	80,616	footnote 1	1,133,841	See JOULIOUE	196	521	2,027	38,735
	2012	6.35	198,898	1,263,658	88,065	on PUC	1,175,592	Zahle 7A	358	521	3,699	38,735
	2013	6.57	198,898	1,307,519	92,375	Table 7A	1,215,143	14010 11	521	521	5,370	38,735
Appliance Turn-In	2010	0.62	337,116	209,000	18,819	See	190,182	Sae footnote	40	645	293	33,385
	2011	7.62	143,643	1,094,514	101,980	footnote 1	992,535	2 on PUC	242	645	1,758	33,385
	2012	7.95	143,643	1,141,601	111,255	on PUC	1,030,346	Table 7A	443	645	3,224	33,385
	2013	8.22	143,643	1,180,844	116,639	Table 7A	1,064,205	111 21211	645	645	4,689	33,385
Energy Efficient Products	2010	7.09	35,633	252,753	8,170	See	244,582	See frontrote	20	317	423	42,176
i	2011	7.96	166,487	1,325,065	44,663	footnote 1	1,280,402	2 on PLIC	119	317	2,539	42,176
	2012	8.27	166,487	1,377,258	49,109	on PUC	1,328,149	z ou t oo Tahle 7A	218	317	4,654	42,176
	2013	8.59	166,487	1,429,744	51,643	Table 7A	1,378,101		317	317	6,770	42,176
Total		2.35	7,227,648	17,013,804	1,201,555		15,812,249		2,093	2,093	22,664	164,719

Table 7B: TRC Benefits Table

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Benef	
TRC	
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Table 7C: TRC Benefits Table	Table											
Commercial/Industrial Small					TRC	RC Benefits By Program Per Year (S00	Program Pe	r Year (S000)				
				Program	Capacity	Capacity	Energy	Energy	Load Reductions in kW	tions in kW	MWh	Wh Saved
	Program		Program	Benefits	Annual	Annual	Annual	Annual				
Program	Year	TRC	Costs (\$000)	(2000)	Benefits	Gen/T&D	Benefits	On/Off Peak	Annual	Lifetime	Annual	Lifetime
Energy Audit	2010	4.19	328,223	1,375,343	275,525	See footnote	1,099,818	See footnote	667	10,678	2,363	235,522
:	2011	4.37	1,670,771	7,305,866	1,506,140	1 on PUC	5,799,726	2 on PUC	4,004	10,678	14,177	235,522
	2012	4.61	1,670,771	7,696,948	1,656,092	Table 7A	6,040,856	Table 7A	7,341	10,678	25,991	235,522
	2013 4.81	4.81	1,670,771	8,033,055	1,741,536		6,291,519		10,678	10,678	37,804	235,522
Equipment Rebate	2010	2010 2.02	2,718,864	5,501,037	1,348,116	L	4,152,921		2,126	30,779	5,941	961,866
	2011	2.11	13,013,727	27,465,866	6,546,440		20,919,425		11,677	30,779	34,321	961,866
	2012	2.20	13,013,727	28,581,252	7,016,081		21,565,172		21,228	30,779	62,702	961,866
	2013	2.27	13,013,727	29,476,653	7,298,926		22,177,727	_	30,779	30,779	91,064	961,866
Total		2.45	47,100,582	115,436,021	27,388,854		88,047,166		41,457	41,457	128,869	1,197,388

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Table 7D: TRC Benefits Table

Appendix G

ProgramCapacityCapacityEnergyEnergyLoad Reductions in kWMWh SBenefitsAnnualAnnualAnnualAnnualAnnualAnnualAnnualMWh SBenefitsAnnualAnnualAnnualAnnualAnnualAnnualAnnualAnnual(5000)BenefitsGen/T&DBenefitsOu/Off PeakAnnualLifetimeAnnual1,500,613423,515Gen/T&DBenefitsOu/Off PeakAnnualLifetimeAnnual1,500,613423,5151,077,0985,661,6195,561,6193,5199,38410,4858,236,6262,391,528See footnote6,018,2992,845,0985,845,0985,661,6198,498,3522,4480,0531 on PUC471,6557 able 7A1233294,1282,536,14183,5142,452,6272 on PUC213296,4289,38419,2342,619,77988,7172,452,6277 able 7A1233294,1282,6992,619,77991,8602,605,6592,605,6593297,5693297,56934,482,8117,819,69426,663,1179,7129,71238,992	Commercial/Industrial Large					TRC Be	<b>FRC Benefits By Program Per Year (\$000)</b>	gram Per Y	car (\$000)				
ProgramProgramProgramRenefitsAnnualAnnualYearTRCCosts (\$000)(\$000)BenefitsCen/T&DBenefitsOn/Off PeakAnnual $2010$ 1.131,324,1891,500,613423,515 $423,515$ $5,661,619$ $5,87$ $9,384$ $1,736$ $2011$ 1.196,634,3148,236,6262,391,528 $5,661,619$ $5,661,619$ $3,519$ $9,384$ $10,485$ $2012$ 1.246,634,3148,236,6262,391,528 $5,845,098$ $5,845,098$ $5,845,098$ $5,845,098$ $5,845,098$ $2013$ 1.286,634,3148,236,6262,391,528 $5,845,098$ $5,845,098$ $5,845,098$ $5,845,098$ $2010$ 1.82 $267,470$ $487,445$ $15,790$ $10$ $10$ $100$ $9,384$ $19,234$ $2010$ 1.82 $267,470$ $487,445$ $15,790$ $100$ $2,471,655$ $2.0$ $2.0$ $2.0$ $2.0$ $2011$ 2.36 $1,074,380$ $2,619,779$ $88,717$ $2,452,657$ $2.0$ $2.0$ $2.26$ $3.29$ $4,128$ $2012$ $2.44$ $1,074,380$ $2,619,779$ $88,717$ $2,452,657$ $2.311$ $2,500,659$ $2.329$ $7,569$ $2013$ $2.51$ $1,074,380$ $2,697,519$ $91,860$ $2,665,659$ $329$ $4,128$ $2013$ $2.51$ $1,074,380$ $2,697,519$ $2,665,659$ $329$ $4,128$ $2013$ $2.51$ $1,074,380$ $2,697,519$ <th></th> <th></th> <th></th> <th></th> <th>Program</th> <th>Capacity</th> <th>Capacity</th> <th>Energy</th> <th>Energy</th> <th>Load Reduct</th> <th>ions in kW</th> <th>MWh</th> <th>Saved</th>					Program	Capacity	Capacity	Energy	Energy	Load Reduct	ions in kW	MWh	Saved
VearTRCCosts (5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(5000)(50		Program		Program	Benefits	Annual	Annual	Annual	Annual				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Program	Year	TRC	Costs	(0003)	Benefits	Gen/T&D	Benefits	On/Off Peak	Annual	Lifetime	Annual	Lifetime
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Equipment Rebate	2010	1.13	1,324,189	1,500,613	423,515		1,077,098		587	9,384	1,736	324,653
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	2011	1.19	6,634,314	7,906,335	2,244,716		5,661,619		3,519	9,384	10,485	324,653
2013         1.28         6,634,314         8,498,352         2,480,053         See roomote 1 on PUC         6,018,299         See roomote 2 on PUC         9,384         9,384         27,983           2010         1.82         267,470         487,445         15,790         1 on PUC         471,655         7 able 7A         2,452,627         7 able 7A         2,452,627         7 able 7A         2,452,627         7 able 7A         2,452,627         7 able 7A         123         329         4,128         2,669         7,569         7,569         7,569         7,569         7,569         2,605,659         329         11,009         2,605,659         329         11,009         2,605,659         329         11,009         2,605,659         329         11,009         2,605,659         329         11,009         2,605,659         329         11,009         2,605,659         329         11,009         2,605,659         329         11,009         329         38,992         11,009         2,6063,117         9,712         38,992         38,992         11,009         2,6063,117         9,712         38,992         11,009         2,6063,117         9,712         38,992         11,009         2,6063,117         9,712         38,992         11,009         11,009         11		2012	1.24	6,634,314	8,236,626	2,391,528	, , ,	5,845,098		6,452	9,384	19,234	324,653
2010         1.82         267,470         487,445         15,790         1.011.00         471,655         2.011.00         2.1         329         688           2011         2.36         1,074,380         2,536,141         83,514         Table 7A         2,452,627         Table 7A         123         329         4,128           2012         2.44         1,074,380         2,619,779         88,717         2,531,061         2,531,061         226         329         7,569           2013         2.51         1,074,380         2,697,519         91,860         2,605,659         329         329         11,009           21.40         24,7117,741         34,482,811         7,819,694         2,606,6117         9,712         38,992         3		2013		6,634,314	8,498,352	2,480,053	See Toothole	6,018,299	See roomote	9,384	9,384	27,983	324,653
2011     2.36     1,074,380     2,536,141     83,514     2,452,627     123     329     4,128       2012     2,44     1,074,380     2,619,779     88,717     2,531,061     226     329     7,569       2013     2.51     1,074,380     2,697,519     91,860     2,605,659     329     329     11,009       1.40     24,717,741     34,482,811     7,819,694     26,663,117     9,712     9,712     38,992	Industrial Motors and VSD	2010	1.82	267,470	487,445	15,790	Table 7A	471,655		21	329	688	146,970
2012     2.44     1,074,380     2,619,779     88,717     2,531,061     226     329     7,569       2013     2.51     1,074,380     2,697,519     91,860     2,605,659     329     329     11,009       1.40     24,717,741     34,482,811     7,819,694     26,663,117     9,712     38,992     3		2011	2.36	1,074,380	2,536,141	83,514	T AND I	2,452,627	111 21001	123	329	4,128	146,970
2013         2.51         1,074,380         2,697,519         91,860         2,605,659         329         329         11,009           1.40         24,717,741         34,482,811         7,819,694         26,663,117         9,712         9,712         38,992         7		2012	2.44	1,074,380	2,619,779	88,717		2,531,061		226	329	7,569	146,970
<u>1.40</u> 24,717,741 34,482,811 7,819,694 26,663,117 9,712 9,712 38,992		2013	2.51	1,074,380	2,697,519	91,860		2,605,659		329	329	11,009	146,970
	Total		1.40	24,717,741	34,482,811	7,819,694		26,663,117		9,712	9,712	38,992	471,623

Governmental/Non- Profit					TRCH	RC Benefits By Program Per Year (\$00	rogram Per	Year (\$000)				
					Capacity	Capacity	Energy	Energy	Load Reductions in ]	ions in kW	МWh	Wh Saved
	Program		Program Costs	Program	Annual	Annual	Annual	Annual				
Program	Year	TRC	TRC (\$000)	Benefits (\$000)	Benefits	Gen/T&D	Benefits	On/Off Peak	Annual	Lifetime	Annual	Lifetime
Governmental &												
Institutional	2010	1.87	1,582,395	2,965,502	521,012	See footnote	2,444,490	See footnote	859	12,747	3,832	539,532
	2011	2.04	7,835,654	16,008,288	2,840,072	1 on PUC	13,168,216	2 on PUC	5,182	12,747	23,541	539,532
	2012	2.13	7,802,874	16,609,308	3,032,406	Table 7A	13,576,902	Table 7A	9,485	12,747	43,230	539,532
	2013	2.01	5,617,059	11,272,132	2,391,327		8,880,805		12,746	12,747	55,623	539,532
Total	-	2.05	2.05 22.837.983	46.855.230	8.784.818		38,070,412		12,746	12.747	55.623	539.532

Energy Efficiency and Conservation Plan Appendices

#### **Appendix H - Tariff Rider** Energy Efficiency and Conservation Charge Rider

#### RIDERS

#### RIDER XXS

#### ENERGY EFFICIENCY AND CONSERVATION CHARGE RIDER

An Energy Efficiency and Conservation ("EEC") Charge ("EEC-C") shall be applied to each <u>kWh deliveredBilling Unit</u> during a billing month to Customers served under this Tariff, with the exception of those served under Borderline Service rates, <u>determined to the nearest one-thousandth of a cent per kWh.</u> <u>Billing Units are defined as follows:</u>

Residential, Non-profit, Commercial, and	
Street Lighting Customer Classes:	Per kWh

Industrial Customer Class: Per kW

Residential, Non-profit, Commercial, and Street Lighting Customer Class rates will be calculated to the nearest one-thousandth of a cent per kWh. Industrial Customer Class rates will be calculated to the nearest one-hundredth of a dollar per kW. The EEC-C rates shall be calculated separately for each Customer Class according to the provisions of this rider.

For service rendered November-February 1, 2009-2010 through May 31, 2013 the EEC-C rates billed by Customer Class are as follows:

<u>Residential Customer Class (Rate RS and, Rate RT, and Rate GS</u> <u>Volunteer Fire Company, and Non-Profit Ambulance Service, Rescue</u> <u>Squad and Senior Center Service Rate</u>):

X.XXX<u>0.356</u> cents per kWh.

<u>Non-profit Customer Class (Rate GS – Volunteer Fire Company, and</u> <u>Non-Profit Ambulance Service, Rescue Squad and Senior Center Service</u> <u>Rate and Rate H):</u>

0.137 cents per kWh.

<u>Commercial Customer Class (Rate GS-Small, Rate GS-Medium, Rate H,</u> <u>High Pressure Sodium Vapor Street Lighting Service, Municipal Street</u> <u>Lighting Service, and Outdoor Lighting Service</u>):

X.XXX<u>0.131</u> cents per kWh.

Street Lighting Customer Class (High Pressure Sodium Vapor Street Lighting Service, and Municipal Street Lighting Service):

2.242 cents per kWh.

Industrial Customer Class (Rate GS-Large, Rate GP, and Rate LP):

<u>\$X.XX0.33</u>X cents per kWh.

The EEC-C rates by Customer Class shall be calculated in accordance with the formula set forth below:

 $EEC-C = [(EEC_C - E) / S] X [ 1 / (1 - T)]$ 

 $EEC_{C} = EEC_{Exp1} + EEC_{Exp2} + EEC_{Exp3} + EEC_{Exp4}$ 

Where:

EEC-C =The charge in cents per kWhBilling Unit by Customer Class as defined by this rider applied to each kWh-Billing Unit delivered for the Rate Schedules identified in this rider.  $EEC_{C} =$ The Energy Efficiency and Conservation Costs by Customer Class projected to be incurred by the Company for the EEC-C Computational Year calculated in accordance with the formula shown above. Costs incurred associated with the Customer Class specific EEC  $EEC_{Expl} =$ Programs as approved by the Commission for the EEC-C Computation Period by Customer Class. These costs would also include an allocated portion of any projected indirect costs to be incurred associated with all the Company's EEC Programs for the **EEC-C** Computational Period. An allocated portion of incremental administrative start-up costs  $EEC_{Exp2} =$ incurred by the Company through October January 31, 2009 2010 in connection with the development of the Company's EEC Programs in response to the Commission's orders and guidance at Docket No. M-2008-2069887. These costs to design, create, and obtain Commission approval for the Company's EEC Programs include, but are not limited to, consultant costs, legal fees, and other direct and indirect costs associated with the development and implementation of the Company's EEC Programs in compliance with Commission directives. These costs shall be amortized over the 74-month period ending May 31, 2010. Interest will be calculated monthly on the average of the beginning and ending of month balance of these costs as incurred and included in the determination of the monthly amortized amount. The interest shall be computed at the legal rate determined pursuant to 41 P.S. § 202.

EEC _{Exp3} =	An allocated portion of the costs the Company incurs to fund the Commission's statewide evaluator contract which shall be excluded in the final determination of the Act 129 limitation on the Company's EEC Programs costs.
EEC _{Exp4} =	An allocated portion of energy-related costs to be paid to PJM for the Economic Load Response Program, or any successor PJM program, incurred by the Company as the load serving entity.
E =	The cumulative over or under-collection of EEC costs by Customer Class that results from the billing of the EEC-C rates (an over-collection is denoted by a positive E and an under-collection by a negative E).
S =	The Company's projected <u>Billing Units (kWh sales delivered to all</u> Customers in the specific Customer Class or kW demand based on <u>PJM Peak Load Contribution</u> ).
T =	The Pennsylvania gross receipts tax rate in effect during the billing month expressed in decimal form as reflected in the Company's base rates.

All capitalized terms not otherwise defined in this rider shall have the definitions specified in the Definitions of Terms section of this tariff. For the purpose of this rider, the following additional definitions shall apply:

 1. EEC-C Computational Period – The 4340-month period from November February 1, 2009-2010 through May 31, 2013.
 1.

<u>2.</u> EEC-C Reconciliation Year – The 12-month period ending May 31 each year for the duration of this rider. 2.

3. Peak Load Contribution – A Customer's contribution to a zone's normalized summer peak load, as estimated by the Company.

Upon determination that the EEC-C rates, if left unchanged, would result in material over or under-collection of all recoverable costs incurred or expected to be incurred by Customer Class, the Company may request that the Commission approve one

or more interim revisions to the EEC-C rates to become effective thirty (30) days from the date of filing, unless otherwise ordered by the Commission.

The Company shall file an annual report of collections under this rider within thirty (30) days following the conclusion of each EEC-C Reconciliation Year.
At the conclusion of the duration of this reconciliation rider, the Company is authorized to recover or refund any remaining amounts not reconciled at that time under such mechanism as approved by the Commission.

Application of the EEC-C rates shall be subject to annual review and audit by the Commission.

APPENDIX H Page 6 of 6

# Calculation of Pennsylvania Electric Company's Energy Efficiency and Conservation ("EEC") Charge ("EEC-C") Rates Effective February 1, 2010

	(¥)													
Penelec Total (6)	22,974,742	91,898,968	71,830,951	3,160,000	4,011,679	35,065	79,037,695	832,194	79,869,889	23,960,967				
-	\$	\$	\$	\$	ŝ	¢	Ф	÷	÷	в				_
											kWs	per kW		per kW
Penelec Industrial Customer Class (5)			6,852,518	3,160,000	515,984	35,065	10,563,567	107,036	10,670,603	3,201,181	10,338,168	0.30965	1.062699	0.33
I			69	÷	\$	\$	↔	\$	\$	\$	kWhs	per kWh \$		per kWh \$
Penelec Street Lighting Customer Class (4)			2,762,575		142,514		2,905,089	29,564	2,934,653	880,396	41,720,178 k	0.02110 pe	1.062699	0.02242 pe
Stre			\$		ŝ		\$	ŝ	ŝ	÷		\$		\$
											kWhs	per kWh		per kWh
Penelec Commercial Customer Class (3)			14,059,905		724,561		\$ 14,784,466	150,305	14,934,771	4,480,431	3,654,379,378	0.00123	1.062699	0.00131
- 30			÷		\$		\$	₩	\$	Ś		\$ \$		s ž
ام											kWhs	per kWh	പ	per kWh
Penelec Non-profit Customer Class (2)	:		243,353		12,393		255,746	2,571	258,317	77,495	59,885,748	0.00129	1.062699	0.00137
5			ŝ		\$		\$	\$	\$	\$	kWhs	per kWh \$	I	per kWh 💲
s			o		2		2	8	, rð	2			66	
Penelec Residentiaí Customer Class (1)	2		47,912,600		2,616,227		50,528,827	542,718	51,071,545	15,321,464	4,572,033,364	0.00335	1.062699	0.00356
Res Custo			8 4		\$		s S	69	2 8	\$	4,57	\$		ŝ
Description	2% of Penelec's Annual Revenues for 12 Months Ended 12/31/2006 for Maximum Annual Cost Recovery	2% of Penelec's Annual Revenues for 12 Months Ended 12/31/2006 for Maximum Annual Cost Recovery for 48 months ending May 31, 2013 (Line 1 x 4 years)	Penelec's Estimated EEC Program Costs for 48 Months Ending May 31, 2013 (PUC Table 5)	PJM Peak Demand Program (PUC Table 3)	Penelec's Common Costs Allocated to Applicable Customer Sector (PUC Table 6b)	Penelec's Estimated PJM Economic Load Response Program Costs	Penelec Subtotal subject to 2% cap (Sum Lines 3-6)	Penelec's Share of Statewide Evaluator Costs	Total EEC Costs for 48 months Ending May 31, 2013 (Sum Line 7 + 8)	Total EEC Costs on Annualized Basis (Line 9 / 40 months x 12 months)	Customer Class Projected 2010 Kilowatt-Hours ("KWh") Delivered or Peak Load Contribution Kilowatt ("KW")	EEC-C Rates Before Pa Gross Receipts Tax Gross-Up Factor (Line 10 / Line 11)	Pa Gross Receipts Tax Gross-Up Factor [1 / (1-Ť) with T = 5.90% Pa Gross Receipts Tax in Base Rates]	Proposed EEC-C Rates Effective February 1, 2010 (Line 12 X Line 13)
	2% of 12/31.	2% of 12/31. month	Penel Endin	1 ML4	Penel Custo	Pene Progr	Pene	Penel	Total EEC Line 7 + 8)	Total 12 mi	Custr Delive	EEC. Facto	Pa G 5.90%	Prop 12 X
Line No.	-	5	б	4	2	9	2	æ	ð	10	11	12	13	14

(A) Pennsylvania's Act 129 of 2008 states that the maximum annual cost recovery for Energy Efficiency and Conservation Programs cannot exceed 2% of the electric distribution company's total annual revenue as of December 31, 2006.