



**peco**<sup>SM</sup>

AN EXELON COMPANY

**Richard G. Webster, Jr.**  
Vice President  
Regulatory Policy & Strategy

Telephone 215.841.5777  
Fax 215.841.6208  
www.peco.com  
dick.webster@peco-energy.com

PECO  
2301 Market Street  
S15  
Philadelphia, PA 19103

May 21, 2024

**VIA E-Filing**

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building  
400 North Street  
Harrisburg, Pennsylvania 17120

**Re: REVISED PECO 2023 Annual Electric Reliability Report - PUC Docket No. M-2023-3039027**

Dear Secretary Chiavetta:

Enclosed is PECO's revised 2023 Annual Reliability Report for the period ending December 31, 2023 (Revised Report), submitted pursuant to the Electric Service Reliability Regulations at 52 Pa. Code Chapter 57. The Company requests the Revised Report replace the existing report that was filed on April 30, 2024 and requests the Secretary's Bureau remove the existing report from the record at Docket No. M-2023-3039027 and replace it with the Revised Report.

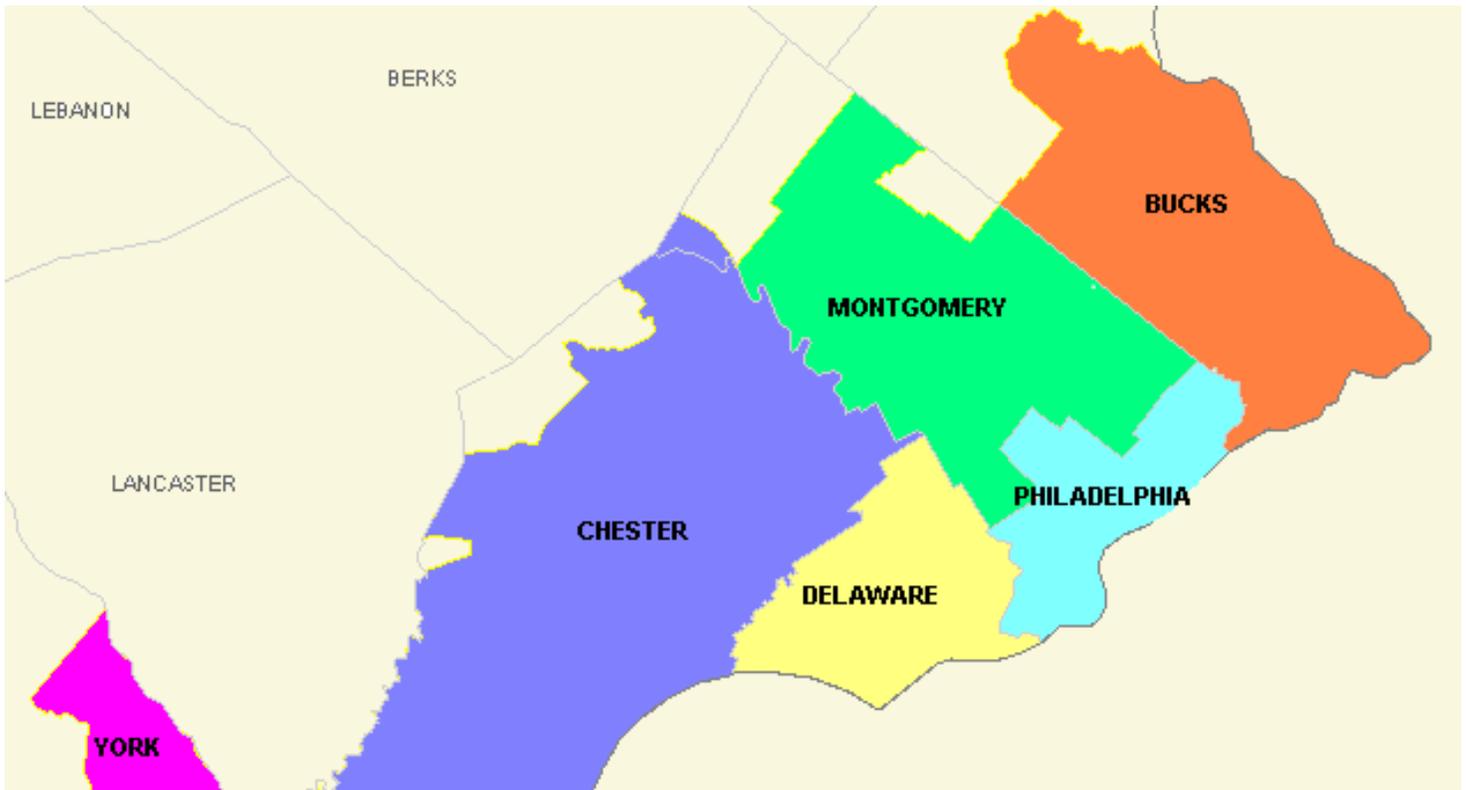
Thank you for your assistance in this matter and please direct any questions regarding the above to Megan McDevitt, Senior Manager, Retail Rates at 267-533-1942 or via email: [megan.mcdevitt@exeloncorp.com](mailto:megan.mcdevitt@exeloncorp.com).

Sincerely,

Enclosure

cc: Dan Searforce, Bureau of Technical Utility Services (via email only)  
John Van Zant, Bureau of Technical Utility Services (via email only)  
Office of Consumer Advocate (via email only)  
Office of Small Business Advocate (via email only)

**2023**  
**Electric Distribution Company**  
**Annual Reliability Report**



**May 21, 2024**

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## **Introduction**

PECO Energy (“PECO”) is submitting this report to the Pennsylvania Public Utility Commission (the “Commission”) in accordance with 52 Pa Code 5.423.

PECO is committed to providing safe and reliable electric service to its customers. PECO serves approximately 1.6 million electric customers covering nearly 2,000 square miles in Bucks, Montgomery, Delaware, Chester, York and Philadelphia Counties, including the City of Philadelphia.

SAIFI and SAIDI for 2023 were all better than their respective Benchmarks and Standards established by the Commission for 12-month rolling averages. The three-year average values of SAIFI and SAIDI for 2021 through 2023 were all better than the Commission’s Benchmarks and Standards for three-year averages, with average CAIDI being high due to several significant storms in 2019-2021 and 2023 that led to an increased time to restore power, pushing outage duration to elevated levels.

## **B1: Section 57.195(b)(1)**

*“The annual reliability report shall include ... an overall current assessment of the state of the system reliability in the electric distribution company’s service territory including a discussion of the electric distribution company’s current programs and procedures for providing reliable electric service.”*

### **Current Assessment:**

PECO’s electric transmission and distribution system is reliable, and its restoration of service when outages occur is safe, rapid, and attentive to customers’ needs. Each year, investments and operational improvements bring more resilience to PECO’s system, and better preparedness for storms and other emergencies. As shown in the Commission’s annual reports on electric service reliability in Pennsylvania, PECO’s reliability has been strong for the last decade. In 2020 through 2021, PECO experienced several significant storms, most of which did not meet the threshold defined by the Commission for exclusion from reported reliability. The totals of 2020-21 storm interruptions included in PUC indices were elevated, affecting reported duration indices unfavorably. During 2023 storms were unfavorable and is reflected in the CAIDI.

#### Annual Reliability Indices for 2023:

For 2023, SAIFI and SAIDI were below their respective Benchmarks and Standards, but CAIDI was above its Benchmark and Standard.

#### 3-Year Average Reliability Indices for 2021 - 2023:

For 2021 - 2023, average SAIFI and average SAIDI was below Benchmark and Standard, and average CAIDI was above its average Benchmark and average Standard. The 2021 through 2023 storms that drove annual CAIDI above its Benchmark for those years also drove 3-year average CAIDI above its 3-Year average Benchmark and Standard.

Benchmarks and Standards were established on May 7, 2004. No Benchmark or Standard was established for MAIFI.

### **Programs and Procedures:**

PECO Energy continues to stress excellence in fundamentals:

- Safety of our employees and the public
- Emergency response and daily operation
- Thorough preventive and corrective maintenance including the use of drones.
- Appropriate capacity and design
- Adequate bulk supply
- Appropriate investment
- Enhanced use of automation and new technologies
- Integration of advanced meter infrastructure (AMI, smart meters) into reliability processes

PECO Energy’s program for providing reliable electric service is multifaceted. It starts with a transmission and distribution system that is designed and built to reliable standards. Under a formal, comprehensive, predictive, and preventive maintenance program, equipment receives maintenance to ensure its safe, reliable operation. Vegetation in the proximity of the system is pruned and controlled via a funded, well-managed program that protects the electric facilities while respecting the beauty and environmental importance of the vegetation.

PECO has also implemented a program to upgrade construction in areas of high vegetation interruptions and continues to install reclosers and other protective equipment to limit impacts when interruptions do occur. In response to invasive insects that cause ash tree deaths, PECO has increased its focus on the removal of ash trees through dedicated mitigation plans and vegetation management programs. In 2021, PECO executed the first year of the Company's filed Reliability & Resiliency Plan Long-term Infrastructure Improvement Plan (LTIIP), with additional capital investments to construct reliability-related improvements over the period 2021 to 2025 focused on storm hardening and resiliency, cable replacements, and substation retirements with related distribution system upgrades.

The transmission and distribution system is operated around-the-clock, every day, from control centers where trained personnel use modern monitoring and control equipment to ensure that equipment is run within its load rating and other technical constraints.

When interruptions to electric service do occur, calls and instant reports from smart AMI meters are noted in a computer-aided outage management system, which associates calls and meter reports with information about the distribution system configuration to construct probable trouble groupings. These outage reports quickly appear on the screens for the operations center personnel. First response personnel are always on the system to make trouble locations safe and quickly restore service. The current outage management system has kept pace with technology through upgrades made available by the manufacturer and has been enhanced with information from the Advanced Meter Operating System.

PECO continues to install and upgrade the latest proven and cost-effective technology in support of reliability and safe, efficient operations. Examples include computers in the vehicles of field workers, smart electronic meters with communications and diagnostic capabilities, electronically controlled switching, and communication equipment to automatically reroute power around problem areas, a geographic information system (GIS), and a central distribution system management computer system.

Should a storm or other emergency arise, an appropriate emergency response team is assembled via group pager and cell-phone notification. The trained team performs per the specifications of a thorough, documented, tested emergency response procedure, quickly escalating the magnitude of the response when required, and communicating with the public and government agencies. If necessary, pre-established agreements with local contractors and neighboring utilities are exercised to augment PECO Energy's workforce. Access to further supplemental resources has been maintained since 2012, when PECO augmented its existing mutual assistance agreement with the Mid-Atlantic Mutual Assistance Group by joining the Southeastern Electric Exchange, increasing its ability to respond to major storms. After each significant emergency event, the groups involved evaluate the response. Strengths and weaknesses are identified, action plans are constructed, and individuals are tasked with bringing about the necessary changes to facilities, the organization, the procedures, and the understanding of the procedures by the work force. Management tracks each action item and demands timely completion to ensure continuous improvement.

Seasonal emergency response drills are carefully planned and carried out, followed by critiques and improvements to ensure that the entire organization can function properly when called upon for actual emergencies.

Management sets clearly defined, challenging reliability goals, communicates them to the work force, demands meaningful action plans, monitors progress, holds the organization accountable for results, and attaches incentive compensation for employees to the achievement of the goals. Full-time engineering professionals monitor and analyze reliability trends and changes, and institute capital upgrades and improvements to maintenance, design, construction, and/or operations to ensure that customers continue to enjoy reliable electric service.

**B2: Section 57.195(b)(2)**

*“The annual reliability report shall include... a description of each major event that occurred during the year being reported on, including the time and duration of the event, the number of customers affected the cause of the event and any modified procedures adopted in order to avoid or minimize the impact of similar events in the future.”*

PECO experienced no events in 2023 that qualified as major events under Pa. Code § 57.192, defined below.

The Commission defines a major event as either of the following:

An interruption of electric service resulting from conditions beyond the control of the EDC which affects at least 10 % of the customers in the EDC’s service territory during the event for a duration of 5 minutes or greater; or

An unscheduled interruption of electric service resulting from an action taken by an EDC to maintain the adequacy and security of the electrical system.

**B3: Section 57.195(b)(3)**

*“The report shall include... a table showing the actual values of each of the reliability indices (SAIFI, CAIDI, SAIDI, and if available, MAIFI) for the electric distribution company’s service territory for each of the preceding 3 calendar years. The report shall include the data used in calculating the indices, namely the average number of customers served, the number of sustained customer minutes interruptions, the number of customers affected, and the minutes of interruption. If MAIFI values are provided, the number of customer momentary interruptions shall also be reported.”*

|      | <b>SAIFI</b> | <b>CAIDI</b> | <b>SAIDI</b> | <b>MAIFI</b> |
|------|--------------|--------------|--------------|--------------|
| 2023 | 0.74         | 138          | 103          | 0.80         |
| 2022 | 0.71         | 99           | 71           | 0.76         |
| 2021 | 0.88         | 187          | 164          | 0.91         |
| 2020 | 0.90         | 135          | 122          | 0.86         |

|                         | <b>SAIFI</b> | <b>CAIDI</b> | <b>SAIDI</b> | <b>MAIFI</b> |
|-------------------------|--------------|--------------|--------------|--------------|
| 2021 – 2023 Average     | 0.78         | 141          | 113          | 0.82         |
| Benchmark               | 1.23         | 112          | 138          | N/A          |
| 3-Year Average Standard | 1.35         | 123          | 167          | N/A          |

|  | <b>2023</b> | <b>2022</b> | <b>2021</b> | <b>2020</b> |
|--|-------------|-------------|-------------|-------------|
| Number of customers served *               | 1,687,053   | 1,684,405   | 1,678,055   | 1,673,328   |
| Sustained customer minutes                 | 173,830,880 | 118,852,712 | 275,743,622 | 203,448,803 |
| Number of customers affected               | 1,256,802   | 1,198,241   | 1,478,394   | 1,506,978   |
| Number of customer momentary interruptions | 1,341,967   | 1,274,899   | 1,532,454   | 1,440,715   |

**B4: Section 57.195(b)(4)**

*“The report shall include... a breakdown and analysis of outage causes during the year being reported on, including the number and percentage of service outages, the number of customers interrupted, and customer interruption minutes categorized by outage cause such as equipment failure, animal contact, tree related, and so forth. Proposed solutions to identified service problems shall be reported.”*

| Cause                      | Service Outages | % of Service Outages | Customer Interruptions | % of Customer Interruptions | Customer Minutes |
|----------------------------|-----------------|----------------------|------------------------|-----------------------------|------------------|
| Animal                     | 1,393           | 11.2%                | 36,624                 | 2.9%                        | 2,115,669        |
| Contact/Dig-In             | 105             | 0.8%                 | 8,500                  | 0.7%                        | 820,891          |
| Equipment Failure          | 4,035           | 32.4%                | 390,683                | 31.1%                       | 35,231,597       |
| Lightning                  | 418             | 3.4%                 | 41,758                 | 3.3%                        | 4,839,820        |
| Other                      | 469             | 3.8%                 | 58,574                 | 4.7%                        | 3,578,149        |
| T&S                        | 10              | 0.1%                 | 29,057                 | 2.3%                        | 692,855          |
| Unknown                    | 720             | 5.8%                 | 173,821                | 13.8%                       | 33,241,742       |
| Vegetation-Broken/Uprooted | 4,420           | 35.5%                | 434,277                | 34.6%                       | 83,231,874       |
| Vegetation-Ingrowth        | 555             | 4.5%                 | 35,951                 | 2.9%                        | 5,682,596        |
| Vehicles                   | 344             | 2.8%                 | 47,557                 | 3.8%                        | 4,395,687        |
| Total                      | 12,469          | 100.0%               | 1,256,802              | 100.0%                      | 173,830,880      |

The largest contributors to customer interruptions were tree-related interruptions and equipment failure. The leading groups within the equipment failure category were aerial equipment and underground equipment. Equipment is replaced based on observed trends under reliability programs and PECO’s Long-term Infrastructure Improvement Plans. Most customer interruptions caused by trees came from broken branches and tree trunks or uprooted trees (34.6 % of all customer interruptions), as opposed to ingrowth (2.9% of all outage customer interruptions). PECO has continued to supplement its regularly scheduled vegetation management cycle with a hazard tree removal program and off-cycle trim program to target trees that overhang the distribution system.

PECO has observed an increase in dead and declining ash trees near its electrical facilities. Emerald ash borers (invasive insects that cause ash tree deaths) are known to be concentrated in the eastern United States and have infested areas across the PECO territory. Limb and tree failures caused by emerald ash borers are expected to continue through much of this decade. PECO’s execution of enhanced vegetation maintenance on circuit

segments identified through annual reliability performance assessments mitigates risks to facilities and customer reliability.

**B5: Section 57.195(b)(5)**

*“The reports shall include... a list of the major remedial efforts taken to date and planned for circuits that have been on the worst performing 5% of circuits list for a year or more.”*

See Appendix A

**B6: Section 57.195(b)(6)**

*“The report shall include... a comparison of established transmission and distribution inspection and maintenance goals/objectives versus actual results achieved during the year being reported on. Explanations of any variances shall be included.”*

**General Statement on Maintenance Programs Work Prioritization and Scheduling**

PECO Energy develops its annual T&D maintenance plan to conform to company established maintenance cycles and based on current program priority determined by safety, risk and reliability evaluations. Resources may be reallocated during the maintenance period depending on impact of key performance areas. There is an adherence to schedule grace period equivalent to 25% of the maintenance cycle length to allow for scheduling and bundling of work.

**PECO Energy’s Distribution Inspection and Maintenance Plan vs. Actual Work for 2023**

| <b>Maintenance Program</b>   | <b>Planned Tasks</b> | <b>Completed Tasks</b> |
|--|----------------------|------------------------|
| Recloser Inspections<br>(Number of reclosers inspected)  | 460                  | 813                    |
| Circuit Patrol & Thermography<br>(Number of circuits inspected)  | 969                  | 976                    |
| Pole Inspections<br>(Number of poles inspected)  | 34,000               | 34,983                 |
| Padmount Transformer Inspections<br>(Number of maintenance tasks performed (e.g. visual inspection, functional testing))   | 6,666                | 6,919                  |
| Below Ground Transformers<br>(Number of maintenance tasks performed (e.g. visual inspection, functional testing))  | 1,234                | 1,336                  |
| Substation Inspections<br>(Number of maintenance tasks performed (e.g. visual inspection, predictive/diagnostic maintenance, preventive maintenance) for a variety of substation components) | 1,370                | 1,384                  |
| Unit Substations<br>(Number of maintenance tasks performed (e.g. calibration, trip testing))   | 2,780                | 3,022                  |

**Vegetation Management Preventive Maintenance Program**

| <b>Maintenance Program</b>          | <b>Miles Planned</b> | <b>Miles Completed</b> |
|-------------------------------------|----------------------|------------------------|
| Distribution Lift & Manual Trimming | 2,824                | 2,968                  |
| Transmission Trim & Removal         | 198                  | 198                    |

**B7: Section 57.195(b)(7)**

*“The report shall include...a comparison of budgeted versus actual Transmission and Distribution operation and maintenance expenses for the year being reported on in total and detailed by the electric distribution company’s own functional account code or FERC account code as available. Explanations of any variances 10% or greater shall be included.”*

**Operation and Maintenance Expenses**

| <b>Functional Account Code</b> | <b>Budget (\$Millions)</b> | <b>Actual (\$Millions)</b> | <b>Variance (\$Millions)</b> |
|--------------------------------|----------------------------|----------------------------|------------------------------|
| New Business Connections       | \$3.6                      | \$3.5                      | \$0.1                        |
| Capacity Expansion             | \$0.3                      | \$0.0                      | \$0.3                        |
| System Performance             | \$88.3                     | \$80.6                     | \$7.7                        |
| Facility Relocation            | \$1.1                      | \$0.8                      | \$0.3                        |
| Maintenance                    | \$208.1                    | \$214.5                    | (\$6.4)                      |
| Category Totals                | \$301.4                    | \$299.4                    | \$2.0                        |
| Budgeted T&D O&M Expenses      |                            | \$301.4                    |                              |
| Actual T&D O&M Expenses        |                            | \$299.4                    |                              |
| Variance                       |                            | \$2.0                      |                              |
| Percent Variance               |                            | 0.7%                       |                              |

*“Explanations of any variances 10% or greater shall be included.”*

- **Facility Relocation** – Under budget due to revised scope of work on various relocation projects.
- **Capacity Expansion** – Over budget due to reallocation of funds to support increased scope of various circuit relief projects.

**B8: Section 57.195(b)(8)**

*“The report shall include... a comparison of budgeted versus actual Transmission and Distribution capital expenditures for the year being reported on in total and detailed by the electric distribution company’s own functional account code or FERC account code as available. Explanations of any variances 10% or greater shall be included.”*

**Capital Expenses**

| <b>Functional Account Code</b> | <b>Budget (\$Millions)</b> | <b>Actual (\$Millions)</b> | <b>Variance (\$Millions)</b> |
|--------------------------------|----------------------------|----------------------------|------------------------------|
| New Business Connections       | \$81.2                     | \$96.1                     | (\$14.9)                     |
| Capacity Expansion             | \$49.6                     | \$22.2                     | \$27.4                       |
| System Performance             | \$580.5                    | \$605.8                    | (\$25.3)                     |
| Facility Relocation            | \$15.9                     | \$21.7                     | (\$5.8)                      |
| Maintenance                    | \$136.5                    | \$165.8                    | (\$29.3)                     |
| Category Totals                | \$863.7                    | \$911.6                    | (\$47.9)                     |
| Budgeted Capital Expenses      |                            | \$863.7                    |                              |
| Actual Capital Expenses        |                            | \$911.6                    |                              |
| Variance                       |                            | (\$47.9)                   |                              |
| Percent Variance               |                            | (5.5%)                     |                              |

*“Explanations of any variances 10% or greater shall be included.”*

- **New Business Connections** – Over budget due to increased residential development and commercial projects.
- **Capacity Expansion** – Under budget due to reallocation of funds to support increased scope of various system performance programs.
- **Facility Relocation** – Over budget due to decreased scope of work on various relocation projects.
- **Maintenance** – Over budget due to repairing and replacing over and underground defects caused by increased volume.

**B9: Section 57.195(b)(9)**

*“The report shall include... quantified Transmission and Distribution inspection and maintenance goals/objectives for the current calendar year detailed by system area (i.e., transmission, substation, and distribution).”*

**PECO Energy’s 2024 Transmission and Distribution Inspection and Maintenance Plan**

Per 52 Pa Code Chapter 57.198, PECO’s Biennial Inspection, Maintenance, Repair and Replacement plan filed September 27, 2018.

| <b>Maintenance Program</b>  | <b>Units (Planned) Annual</b> |
|---|-------------------------------|
| Recloser Inspections<br>(Number of reclosers inspected)   | 413                           |
| Circuit Patrol & Thermography<br>(Number of circuits patrolled)   | 970                           |
| Pole Inspections<br>(Number of poles visually inspected)  | 34,000                        |
| Padmount Transformers<br>(Number of transformers visually inspected)  | 6,577                         |
| Below Ground Transformers<br>(Number of transformers visually inspected)  | 1,173                         |
| Substations<br>(Number of substations inspections performed. (e.g. visual inspection, reading of currents, voltages, temperature etc.) for a variety of substation components)          | 1,330                         |
| Unit Substations<br>(Number of unit substations inspections performed.(e.g. visual inspection, reading of currents, voltages, temperature etc.) for a variety of substation components) | 2,830                         |

**Vegetation Management Preventive Maintenance Program**

| <b>Maintenance Program</b>          | <b>Miles Planned</b> |
|-------------------------------------|----------------------|
| Distribution Lift & Manual Trimming | 2,967                |
| Transmission Trim & Removal         | 198                  |

**B10: Section 57.195(b)(10)**

*“The report shall include... budgeted transmission and distribution operation and maintenance expenses for the current year in total and detailed by the electric distribution company’s own functional account code or FERC account code as available.”*

| <b>Functional Account Code</b> | <b>2024 O&amp;M Budget<br/>(\$Millions)</b> |
|--------------------------------|---|
| New Business Connections       | \$4.1                                       |
| Capacity Expansion             | \$0.3                                       |
| System Performance             | \$122.5                                     |
| Facility Relocation            | \$0.8                                       |
| Maintenance                    | \$264.4                                     |
| Category Totals                | \$392.1                                     |

**B11: Section 57.195(b)(11)**

*“The report shall include... budgeted transmission and distribution capital expenditures for the current year in total and detailed by the electric distribution company’s own functional account code or FERC account code as available.”*

| <b>Functional Account Code</b> | <b>2024 Capital Budget<br/>(\$Millions)</b> |
|--------------------------------|---|
| New Business Connections       | \$122.0                                     |
| Capacity Expansion             | \$51.2                                      |
| System Performance             | \$740.2                                     |
| Facility Relocation            | \$38.8                                      |
| Maintenance                    | \$188.3                                     |
| Category Totals                | \$1,140.5                                   |

**B12: Section 57.195(b)(12)**

*“The report shall include... significant changes, if any, to the Transmission and Distribution inspection and maintenance programs previously submitted to the Commission.”*

- Beginning in 2020, PECO’s padmount transformer inspection cycle was changed from five years to eight years. PECO requested this waiver as part of its Biennial Inspection, Maintenance, Repair Replacement Plan and the Commission granted this waiver.

## Appendix A

The following circuits were on our worst performing 5% of circuits list for a year or more:

BRYAN\_002  
CURLY\_000  
ELLWOOD\_001  
FLINT\_132  
GLADWYNE\_001  
GLADWYNE\_132  
GOLF\_002  
GOSHEN\_351  
GROVE\_000  
HARMONY\_003  
KENNETT\_SQUAR\_005  
LANDENBERG\_000  
LEWIS\_001  
LINE\_4100PB  
MARSHALLTON\_001  
MORWOOD\_000  
NEWLINVILLE\_353  
PERKIOMEN\_363  
SADSBURY\_000  
SCHWENKSVILLE\_001  
SCHWENKSVILLE\_002  
SOLEBURY\_001  
UPPER\_DARBY\_135  
UPPER\_PROVIDENCE\_343  
WAYNE\_143  
WHITEMARSH\_133  
WHITEMARSH\_163

As of the date of this report, analysis of these circuits continues. Information on remedial efforts taken and planned in addition to the details provided on the following pages will be included in future quarterly reliability reports.

Below are the efforts taken to date and planned for these circuits:

### **BRYAN\_002**

*York County*

#### **Completed:**

Complete circuit analysis

#### **Planned:**

Inspect circuit visually and with thermographic camera

Upgrade primary

### **CURLY\_000**

*Bucks County*

#### **Completed:**

Complete circuit analysis

Complete corrective reliability work orders  
Inspect circuit visually and with thermographic camera  
Inspect selected areas of circuit for vegetation issues and correct as needed  
Remedial efforts completed

### **ELLWOOD\_001**

*Bucks County*

#### **Completed:**

Complete circuit analysis  
Inspect selected areas of circuit for vegetation issues and correct as needed

#### **Planned:**

Inspect circuit visually and with thermographic camera

### **FLINT\_132**

*Montgomery County*

#### **Completed:**

Complete circuit analysis  
Complete corrective reliability work orders  
Inspect circuit visually and with thermographic camera  
Inspect selected areas of circuit for vegetation issues and correct as needed  
Install new fusing

#### **Planned:**

Complete corrective reliability work orders

### **GLADWYNE\_001**

*Delaware County*

#### **Completed:**

Complete circuit analysis  
Complete corrective reliability work orders  
Inspect selected areas of circuit for vegetation issues and correct as needed

#### **Planned:**

Inspect circuit visually and with thermographic camera

### **GLADWYNE\_132**

*Delaware County*

#### **Completed:**

Complete circuit analysis  
Upgrade insulators

#### **Planned:**

Inspect circuit visually and with thermographic camera  
Upgrade primary

### **GOLF\_002**

*Chester County*

#### **Completed:**

Complete circuit analysis

#### **Planned:**

Inspect circuit visually and with thermographic camera  
Upgrade primary

### **GOSHEN\_351**

*Chester County*

**Completed:**

Complete circuit analysis

**Planned:**

Inspect circuit visually and with thermographic camera

**GROVE\_000**

*Chester County*

**Completed:**

Complete circuit analysis

Inspect selected areas of circuit for vegetation issues and correct as needed

**Planned:**

Inspect circuit visually and with thermographic camera

**HARMONY\_003**

*Chester County*

**Completed:**

Complete circuit analysis

Complete corrective reliability work orders

Inspect selected areas of circuit for vegetation issues and correct as needed

**Planned:**

Inspect circuit visually and with thermographic camera

**KENNETT\_SQUAR\_005**

*Chester County*

**Completed:**

Complete circuit analysis

Complete corrective reliability work orders

Inspect selected areas of circuit for vegetation issues and correct as needed

**Planned:**

Inspect circuit visually and with thermographic camera

**LANDENBERG\_000**

*Chester County*

**Completed:**

Complete circuit analysis

Complete corrective reliability work orders

Inspect selected areas of circuit for vegetation issues and correct as needed

**Planned:**

Inspect circuit visually and with thermographic camera

**LEWIS\_001**

*Montgomery County*

**Completed:**

Complete circuit analysis

**Planned:**

Inspect circuit visually and with thermographic camera

Install tree resistant wire

**LINE\_4100PB**

*Chester County*

**Completed:**

Complete circuit analysis

**Planned:**

Inspect circuit visually and with thermographic camera

**MARSHALLTON\_001**

*Chester County*

**Completed:**

Complete circuit analysis

Inspect selected areas of circuit for vegetation issues and correct as needed

**Planned:**

Inspect circuit visually and with thermographic camera

**MORWOOD\_000**

*Montgomery County*

**Completed:**

Complete circuit analysis

**Planned:**

Inspect circuit visually and with thermographic camera

**NEWLINVILLE\_353**

*Chester County*

**Completed:**

Complete circuit analysis

Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

**PERKIOMEN\_363**

*Montgomery County*

**Completed:**

Complete circuit analysis

**Planned:**

Inspect circuit visually and with thermographic camera

**SADSBURY\_000**

*Chester County*

**Completed:**

Complete circuit analysis

**Planned:**

Inspect circuit visually and with thermographic camera

Upgrade primary

**SCHWENKSVILLE\_001**

*Montgomery County*

**Completed:**

Complete circuit analysis

Install new FCI'S

**Planned:**

Inspect circuit visually and with thermographic camera

**SCHWENKSVILLE\_002***Montgomery County***Completed:**

- Complete circuit analysis
- Complete corrective reliability work orders
- Upgrade insulators

**Planned:**

- Inspect circuit visually and with thermographic camera
- Inspect selected areas of circuit for vegetation issues and correct as needed

**SOLEBURY\_001***Bucks County***Completed:**

- Complete circuit analysis
- Complete corrective reliability work orders
- Inspect selected areas of circuit for vegetation issues and correct as needed
- Upgrade insulators

**Planned:**

- Complete corrective reliability work orders
- Inspect circuit visually and with thermographic camera

**UPPER\_DARBY\_135***Delaware County***Completed:**

- Complete circuit analysis
- Complete corrective reliability work orders

**Planned:**

- Inspect circuit visually and with thermographic camera

**UPPER\_PROVIDENCE\_343***Montgomery County***Completed:**

- Complete circuit analysis
- Complete corrective reliability work orders

**Planned:**

- Inspect circuit visually and with thermographic camera

**WAYNE\_143***Delaware County***Completed:**

- Complete circuit analysis

**Planned:**

- Inspect circuit visually and with thermographic camera
- Install tree resistant wire

**WHITEMARSH\_133***Montgomery County***Completed:**

- Complete circuit analysis
- Complete corrective reliability work orders
- Install new fusing

Upgrade fusing  
Upgrade secondary  
nan

**Planned:**

Complete corrective reliability work orders  
Inspect circuit visually and with thermographic camera  
Install new fusing  
Upgrade fusing

**WHITEMARSH\_163**

*Montgomery County*

**Completed:**

Complete circuit analysis  
Complete corrective reliability work orders

**Planned:**

Inspect circuit visually and with thermographic camera

## **Appendix B**

### **New Business**

This work category includes all the facility work required to add a new customer or to increase the load to an existing customer. The facility work will include the facilities required to directly connect the customer to the system and the upgrade/replacement of any existing facility to serve the requested additional load.

### **Capacity Expansion**

This work category includes only capacity work generated by the system design engineer to prevent system failure and to assure the delivery of voltage as specified in the tariff. The addition of new substations and substation enlargements for future load growth will also be included in this project.

### **System Performance**

This work category includes projects designed to upgrade, modify or improve the performance of the distribution system. Also included in this category are indirect costs in support of all categories and one-time accounting adjustment items.

### **Facility Relocation**

This work category includes all requests for relocation of PECO facilities including municipal as well as customer related relocation requests.

### **Maintenance**

This work category includes work performed to repair and restore equipment to its normal state of operation, along with planned preventive maintenance work such as visual and thermographic inspections and tree trimming around transmission and distribution lines.

### **Storm Funds**

Incremental costs (primarily; overtime, contractors, mutual assistance, and meals) incurred while responding to major storms (storms that meet customer outage and duration criteria).