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April 30, 2025

VIA ELECTRONIC FILING

Matthew Homsher, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, 2nd Floor
Harrisburg, PA 17120

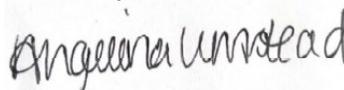
**Re: 2024 Annual Reliability Report - FirstEnergy Pennsylvania Electric Company
Docket No. M-2023-3039027**

Dear Secretary Homsher,

Pursuant to 52 Pa. Code § 57.195(a) and (b), enclosed for filing is the Joint 2024 Annual Reliability Report (“Report”) of FirstEnergy Pennsylvania Electric Company (“FE PA”) on behalf of the Met-Ed Rate District (“Met-Ed”), Penelec Rate District (“Penelec”), Penn Power Rate District (“Penn Power”), and West Penn Rate District (“West Penn”).¹

Please contact me if you have any questions.

Sincerely,



Angelina Umstead

AU/dml

Enclosures

c: As Per Certificate of Service
D. Searfoorce – Bureau of Technical Utility Services (via electronic mail)
J. Van Zant – Bureau of Technical Utility Services (via electronic mail)
Derek Ruhl - PaPUC Bureau of Technical Utility Services (via electronic mail)

¹ By Order entered on December 7, 2023, the Pennsylvania Public Utility Commission (the “Commission”) granted certain approvals and certificates of public convenience for the unification of the four Companies into one company, FirstEnergy Pennsylvania Electric Company, or “FE PA”. *Joint Application of Met-Ed Rate District, Penelec Rate District, Penn Power Rate District, West Penn Rate District, Keystone Appalachian Transmission Company, Mid-Atlantic Interstate Transmission, LLC, and FirstEnergy Pennsylvania Electric Company*, Docket Nos. A-2023-3038771, et al. (Order entered December 7, 2023).

Met-Ed
A FirstEnergy Company

Penelec
A FirstEnergy Company

PennPower
A FirstEnergy Company

**WestPenn
Power**
A FirstEnergy Company



2024 Annual Reliability Report

FirstEnergy Pennsylvania Electric Company on behalf of the Met-Ed Rate District, Penelec Rate District, Penn Power Rate District, and West Penn Rate District Pursuant to 52 Pa. Code § 57.195(a) and (b)

2024 Annual Reliability Report
FirstEnergy Pennsylvania Electric Company on behalf of
the Met-Ed, Penelec, Penn Power, and West Penn Rate Districts
Pursuant to 52 Pa. Code Chapter § 57.195(a) and (b)

The following 2024 Report (“Report”) is submitted to the Pennsylvania Public Utility Commission (“PaPUC” or “Commission”) by FirstEnergy Pennsylvania Electric Company (“FE PA” or the “Company”) on behalf of the Met-Ed Rate District (“Met-Ed”), Penelec Rate District (“Penelec”), Penn Power Rate District (“Penn Power”) and West Penn Rate District (“West Penn”).

Section 57.195(b)(1) *An overall current assessment of the state of the system reliability in the EDC’s service territory including a discussion of the EDC’s current programs and procedures for providing reliable electric service.*

FE PA serves more than two million Pennsylvania customers, and their service territory covers more than 20,000 square miles. In 2024, the FE PA Rate Districts were able to maintain a focus on safe and reliable electric service. From the physical field employees up to and including top management, the FE PA Rate Districts were committed to operating their distribution systems in a manner that resulted in safe, reasonable, and cost-effective reliable service for their customers.

Methods to improve the efficiency, adequacy, and reliability of the distribution system were a continual focus and every employee had an investment in the FE PA Rate Districts respective reliability metrics. FE PA utilizes core programs to support cost-effective and reliable service. These programs include, but are not limited to:

- Inspection and Maintenance (“I&M”)
 - The Distribution Inspection & Maintenance Practices¹ are designed to assist in determining the need for, and prioritization of, the repair or replacement of distribution system components and facilities.
 - Poles showing incipient decay or poles that are thirty-five years old or older will be manually bored or inspected by the use of a Resistograph. The Resistograph is a sophisticated electronically controlled drill that measures the relative density

¹ Pursuant to Pa. Code § 57.198(a), every two years an electric distribution company shall file with the Commission a biennial plan for the periodic inspection, maintenance, repair, and replacement of its facilities. The Company submitted their Biennial Inspection, Maintenance, Repair and Replacement Plan for the period January 1, 2023 through December 31, 2024 on April 28, 2023 which was deemed approved on July 17, 2023 pursuant to 52 Pa. Code § 57.198(i). On February 5, 2024, revised FE PA Rate District I&M plans related to pole inspections were approved by the Commission at Docket No. M-2009-2094773 and M-2023-3039027.

of wood in timber structures. Driven by a drill motor, a long, thin needle is inserted into the wood pole in order to assess its density, structural integrity, and shell thickness. In 2024 and beyond, either manual boring or the Resistograph will be used at the Company's discretion; however, manual boring is the predominately utilized method.

- Vegetation Management
 - FE PA performs vegetation management on its distribution circuits in order to promote the continued safe and reliable operation of its distribution system. The vegetation management program specification is designed to support line reliability, maintain access, make repairs, or restore service and to support safe and reliable service. The vegetation management program specification prunes vegetation to achieve required cycle clearance, with all circuits on four to five years of cycle clearance, which includes removing selected incompatible trees within the clearing zone corridor; removing certain defective limbs that are overhanging primary conductors; controlling selected incompatible brush mechanically or using herbicide, or both; relieving limbs causing mechanical strain on secondary/service lines; and removing targeted off-corridor priority trees that are dead, dying, diseased, and leaning or significantly encroaching the corridor.
 - Portions of a circuit that experience high customer interruption minutes due to vegetation-caused outages may be targeted to include the removal of certain healthy limbs which overhang primary conductors based on tree species and condition.
 - In response to damage caused by the Emerald Ash Borer, a program to proactively remove Ash Trees off right-of-way has been implemented.
 - Post-storm circuit patrols target the areas with high tree-related outages. Circuit patrols identify trees damaged in a storm that may eventually lead to a future outage. Once identified, the tree is removed. In addition, damaged equipment identified as part of the circuit patrol is repaired or replaced.
- Customers Experiencing Multiple Interruptions (“CEMI”)
 - The CEMI program is aimed to reduce frequent or repeated outages for affected clusters of customers or frequently operated devices.
- Load Forecasting and Distribution Planning

- The load forecasting application is used to estimate future substation and circuit loading based upon historical load data and the planning criteria guidelines are then used to provide a consistent approach for planning the safe, reliable, orderly, and economic expansion of the distribution system.
- Circuit Protection
 - Circuit protection practices are aimed at achieving safety and security for the public and employees, maximizing service reliability to customers, minimizing damage to distribution equipment, and establishing a consistent process and set of application standards for distribution circuit protection.
- Long-Term Infrastructure Improvement Plans (“LTIIIP”)
 - The Company first began to execute their respective PA LTIIIP programs in 2016. These plans include expenditures and programs designed to adequately maintain and improve the efficiency, safety, adequacy, and reliability of the distribution system. In December 2024, the Commission approved FE PA’s third LTIIIP (“LTIIIP III”). LTIIIP III, which spans the five-year period of 2025 through 2029, and focuses on two areas: asset health and outage exposure. Asset health focuses on maintaining the system in a state of good repair while outage exposure focuses on minimizing the impact of customer outages. LTIIIP III includes initiatives and expenditures within these two focus areas that are designed to maximize sustained reliability over the long-term.

In addition to the reliability programs above, the Company also utilizes various strategies to efficiently respond to customer and equipment outages. These include, but are not limited to:

- Minimizing Outage Impact
 - The Company incorporates design philosophies that support grid operation resulting in maximized reliability. These philosophies include instantaneous breaker tripping on select circuits, circuit sectionalizing devices, and remote device operation, such as supervisory control and data acquisition (“SCADA”), to minimize the impact of an outage when possible.
- Storm Exercises
 - FE PA performs annual storm exercises. A well-designed exercise provides a low-risk environment to test and validate capabilities, familiarize personnel

with plans, procedures, roles and responsibilities, and foster meaningful interaction and communication across internal and external organizations.

- Summer Readiness
 - Summer is the time when most electric utilities experience the highest system loads and most damaging storms. In order to prepare for this period of the year, FE PA performs summer readiness activities such as capacitor inspections, substation inspections, transmission system reliability and capability review, and post-storm reviews to identify and disseminate lessons learned after significant events.
- Smart Meters
 - FE PA completed mass deployment of smart meters to customers across Pennsylvania. Smart meter installation is a step toward a more modernized electric system that will enable automated meter readings. Smart meters also assist during outage restoration periods, especially when there are a significant number of single customer outages, by allowing FE PA to ping the meter to determine if a customer's service has been restored.
- Incident Command System ("ICS")
 - The Company has been utilizing an ICS structure, which is designed to enable effective and efficient incident management by integrating a combination of facilities, equipment, personnel, procedures, and communications operating within a common organization. By expanding the use of ICS, the Company's incident response ability is improved, and reliability is enhanced by utilizing a common system for incident response personnel (both intrastate and interstate).

To support best industry practices, FE PA participates in various external organizations such as the Electric Power Research Institute ("EPRI"), the Institute of Electrical and Electronics Engineers ("IEEE"), and the Energy Association of Pennsylvania ("EAP"), which focus on topics such as reliability, power quality, regulatory issues, distribution planning, vegetation management, risk mitigation, distributed energy resources and more. Lastly, to ensure continuous improvement, FE PA has a team comprised of reliability engineers to perform an internal review of reliability projects, expenditures, and performance, and to develop an overarching strategy for long-term reliability maintenance and improvement.

In 2024, the FE PA Rate Districts had varying performance in regard to the twelve-month standards for System Average Interruption Duration Index (“SAIDI”), System Average Interruption Frequency Index (“SAIFI”), and Customer Average Interruption Duration Index (“CAIDI”). The primary drivers impacting reliability performance were: 1) weather (primarily the impact of minor storms); 2) tree-related outages, specifically off right-of-way trees,² occurring during inclement weather; and 3) line and equipment failures. The Company is using the strategies and tools, as laid out above, to address these outage causes and continue to make improvements to reliability performance.

² FE PA’s options under the law are limited when it comes to off right-of-way vegetation management, as FE PA must seek permission to remove vegetation on private or publicly owned land or, if follow easement restrictions if one exists. FE PA targets selected off right-of-way priority trees that are dead, dying, diseased, leaning, and significantly encroaching the corridor for removal.

Reliability Results

The table below, taken from the 4th Quarter 2024 Reliability Report, shows that four of twelve reliability indices in 2024 were at or better than the Commission’s twelve-month standards with one of the indices being better than benchmark.

2024 (12-Mo Rolling)	Met-Ed			Penelec			Penn Power			West Penn		
	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual
SAIFI	1.15	1.38	2.06	1.26	1.52	1.79	1.12	1.34	1.01	1.05	1.26	1.28
CAIDI	117	140	241.50	117	141	199.18	101	121	146.58	170	204	199.75
SAIDI	135	194	498.20	148	213	355.90	113	162	147.48	179	257	255.49
MAIFI³			0.453			0.708			0.040			
Customers Served⁴	581,491			592,129			175,356			727,426		
Number of Sustained Interruptions	18,237			19,166			3,734			16,126		
Customers Affected	1,199,572			1,058,034			176,436			930,429		
Customer Minutes	289,699,592			210,740,963			25,861,413			185,850,178		
Number of Customer Momentary Interruptions	263,502			419,149			7,060					

³ MAIFI values are not available for West Penn.

⁴ Represents the average number of customers served during the reporting period.

Section 57.195(b)(2) *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 to avoid or minimize the impact of similar events in the future.*⁵

Major Events

FE PA Rate District	Customers Affected	Time and Duration of the Event		Cause of the Event	Commission Approval Status
Penelec	112,452	Duration	108 hours 25 minutes	Winter Storm Finn	March 27, 2024
		Start Date/Time	01/09/24 0745		
		End Date/Time	01/13/2024 2010		
Penn Power	31,812	Duration	81 hours and 56 minutes	Rain and Wind Event	August 16, 2024
		Start Date/Time	6/17/2024 1358		
		End Date/Time	6/20/2024 at 2354		
Penn Power	23,951	Duration	95 hours and 56 minutes	Thunderstorm and Wind Event	October 4, 2024
		Start Date/Time	08/06/2024 0938		
		End Date/Time	08/10/2024 0934		

⁵ For purposes of this Report, all reliability figures are based upon the Pennsylvania Public Utility Commission’s definitions for momentary outages and major events pursuant to 52 Pa. Code § 57.192.

Section 57.195(b)(3) *A table showing the actual values of each of the reliability indices (SAIFI, CAIDI, SAIDI, and if available, MAIFI) for the EDC’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.*

Reliability Indices by Rate District

Historic 12-Month Rolling Reliability Indices				
	Index	2022	2023	2024
<i>Met-Ed</i>	SAIFI	1.32	1.27	2.06
	CAIDI	160.08	201.66	241.50
	SAIDI	211.44	256.86	498.20
	MAIFI	0.67	0.301	0.453
	Customer Minutes	121,767,029	149,205,685	289,699,592
	Customers Affected	760,672	739,898	1,199,572
	Minutes of Interruption	4,449,680	4,801,821	8,658,211
	Customers Served ⁶	575,899	580,873	581, 491
<i>Penelec</i>	SAIFI	1.83	1.60	1.79
	CAIDI	198.60	189.20	199.18
	SAIDI	364.24	303.32	355.90
	MAIFI	0.547	0.488	0.708
	Customer Minutes	211,092,054	177,485,102	210,740,963
	Customers Affected	1,062,923	938,093	1,058,034
	Minutes of Interruption	6,604,853	4,816,388	6,651,681
	Customers Served ⁶	579,537	585,139	592,129
<i>Penn Power</i>	SAIFI	0.99	0.78	1.01
	CAIDI	133.63	156.51	146.58
	SAIDI	132.94	121.31	147.48
	MAIFI	0.013	0.018	0.040
	Customer Minutes	22,283,199	20,774,644	25,861,413
	Customers Affected	166,749	132,740	176,436
	Minutes of Interruption	849, 728	929,286	1,121,846
	Customers Served ⁶	167,618	171,259	175,356

⁶ Represents the average number of customers served during the reporting period.

Historic 12-Month Rolling Reliability Indices				
	Index	2022	2023	2024
West Penn	SAIFI	1.32	1.07	1.28
	CAIDI	276.02	266.17	199.75
	SAIDI	364.36	285.16	255.49
	Customer Minutes	264,310,751	207,454,636	185,850,178
	Customers Affected	957,562	779,396	930,429
	Minutes of Interruption	7,625,795	5,702,377	5,403,542
	Customers Served ⁷	725,417	727,499	727,426

See tables below for the three-year standard results for each Rate District:

Three-Year Rolling Year-End 2024	Met-Ed		Penelec	
	Three-Year Standard	Three-Year Actual	Three-Year Standard	Three-Year Actual
SAIFI	1.27	1.55	1.39	1.74
CAIDI	129	208	129	196
SAIDI	163	322	179	341

Three-Year Rolling Year-End 2024	Penn Power		West Penn	
	Three-Year Standard	Three-Year Actual	Three-Year Standard	Three-Year Actual
SAIFI	1.23	0.93	1.16	1.22
CAIDI	111	146	187	247
SAIDI	136	134	217	302

⁷ Represents the average number of customers served during the reporting period.

Section 57.195(b)(4) *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, the 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.*

Outages by Cause – Met-Ed Rate District

Outage by Cause				
2024 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees Off Row-Tree	139,393,088	4,227	301,380	48.12%
Equipment Failure	32,702,978	2,862	230,177	11.29%
Unknown	32,186,175	2,287	158,599	11.11%
Trees Off Row-Limb	23,743,358	1,704	74,022	8.20%
Forced Outage	13,780,941	924	171,535	4.76%
Trees On Row	11,086,355	494	28,365	3.83%
Vehicle	10,093,221	419	61,906	3.48%
Line Failure	6,036,154	579	27,377	2.08%
Wind	5,495,782	208	11,777	1.90%
Animal	4,526,563	2,515	49,112	1.56%
Trees - Sec/Service	2,200,965	677	2,784	0.76%
Ice	1,699,318	19	3,106	0.59%
Object Contact With Line	1,689,772	69	10,146	0.58%
Overload	1,262,255	82	8,839	0.44%
Lightning	1,059,125	140	4,021	0.37%
Bird	853,752	761	10,697	0.29%
Human Error - Company	757,966	61	30,789	0.26%
Human Error -Non-Company	450,556	75	8,859	0.16%
Ug Dig-Up	158,105	20	456	0.05%
Fire	147,087	20	929	0.05%
Other Electric Utility	74,074	15	168	0.03%
Contamination	67,095	8	57	0.02%
Other Utility-Non Elec	65,542	7	1,094	0.02%
Switching Error	62,586	7	2,895	0.02%
Customer Equipment	54,400	36	171	0.02%
Previous Lightning	52,037	20	310	0.02%
Vandalism	342	1	1	0.00%
Call Error	0	0	0	0.00%
Total	289,699,592	18,237	1,199,572	100%

Proposed Solutions – Met-Ed Rate District

Met-Ed Rate District analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending December 31, 2024, and associated actions designed to address these outage causes.

To improve system reliability, FE PA performs cycle-length tree trimming and enhanced tree trimming in select locations. Enhanced tree trimming removes healthy limbs overhanging primary conductors. FE PA's options under the law are strictly limited when it comes to all forms of off-corridor tree management. However, FE PA is legally permitted to identify off-corridor priority trees that are dead, dying, diseased, leaning, or significantly encroaching the corridor and remove those trees when customer consent is obtained or easement rights permit. FE PA is very active in pursuing this option, when available, to remove the highest risk trees. Trees identified with a high potential to cause a future outage are targeted for removal to prevent an interruption of electrical service to FE PA's customers. Furthermore, FE PA continues its program to mitigate trees subject to damage from the Emerald Ash Borer. FE PA will also review areas off-cycle to mitigate tree risk in high impact areas.

To reduce the likelihood of equipment failure outages, Met-Ed follows inspection and maintenance programs that set forth schedules for regular inspections of distribution and substation facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, radio-controlled switches, substations, and reclosers. Equipment identified is repaired or replaced as appropriate. FE PA has executed Long-Term Infrastructure Improvement Plans ("LTIIIP") which includes expenditures and programs designed to adequately maintain and improve the efficiency, safety, adequacy, and reliability of the distribution system.

Outages by Cause – Penelec Rate District

Outage by Cause				
2024 12-Month Rolling	Penelec			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees Off Row-Tree	69,825,532	3,376	261,431	33.13%
Ice	37,053,795	495	28,453	17.58%
Equipment Failure	27,940,297	2,959	207,437	13.26%
Line Failure	16,029,019	1,987	131,528	7.61%
Forced Outage	13,936,933	1,445	90,304	6.61%
Unknown	9,670,045	2,754	120,044	4.59%
Lightning	6,971,041	523	34,099	3.31%
Trees Off Row-Limb	6,481,765	600	33,912	3.08%
Vehicle	6,177,052	453	35,908	2.93%
Wind	5,603,537	388	25,900	2.66%
Animal	4,102,398	1,965	40,319	1.95%
Other Electric Utility	1,350,312	128	3,963	0.64%
Human Error -Non-Company	1,298,217	110	8,768	0.62%
Bird	1,295,957	725	7,306	0.61%
Trees - Sec/Service	955,407	858	2,634	0.45%
Overload	535,881	43	3,026	0.25%
Object Contact With Line	446,310	63	3,220	0.21%
Trees On Row	398,703	72	1,526	0.19%
Human Error - Company	258,053	55	14,408	0.12%
Call Error	120,315	1	617	0.06%
Ug Dig-Up	107,152	63	651	0.05%
Fire	62,731	12	171	0.03%
Customer Equipment	53,424	16	788	0.03%
Contamination	28,751	46	171	0.01%
Switching Error	24,991	7	1,377	0.01%
Previous Lightning	6,339	12	36	0.00%
Vandalism	3,596	8	15	0.00%
Other Utility-Non Elec	3,410	2	22	0.00%
Total	210,740,963	19,166	1,058,034	100%

Proposed Solutions – Penelec Rate District

Penelec Rate District analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending December 31, 2024, and the associated actions designed to address these outage causes.

To improve system reliability, FE PA performs cycle-length tree trimming and enhanced tree trimming in select locations. Enhanced tree trimming removes healthy limbs overhanging primary conductors. FE PA's options under the law are strictly limited when it comes to all forms of off-corridor tree management. However, FE PA is legally permitted to identify off-corridor priority trees that are dead, dying, diseased, leaning, or significantly encroaching the corridor and remove those trees when customer consent is obtained or easement rights permit. FE PA is very active in pursuing this option, when available, to remove the highest risk trees. Trees identified with a high potential to cause a future outage are targeted for removal to prevent an interruption of electrical service to FE PA's customers. Furthermore, FE PA continues its program to mitigate trees subject to damage from the Emerald Ash Borer. FE PA will also review areas off-cycle to mitigate tree risk in high impact areas.

To reduce the likelihood of outages caused by equipment and line failure, Penelec Rate District follows I&M programs that set forth schedules for regular inspections of distribution and substation facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, radio-controlled switches, substations, and reclosers. Equipment identified is repaired or replaced as appropriate. FE PA has executed Long-Term Infrastructure Improvement Plans ("LTIIIP") which includes expenditures and programs designed to adequately maintain and improve the efficiency, safety, adequacy, and reliability of the distribution system.

Outages by Cause – Penn Power Rate District

Outage by Cause				
2024 12-Month Rolling	Penn Power			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	11,881,131	842	52,900	45.94%
Line Failure	3,103,130	535	20,972	12.00%
Trees Off Row-Limb	2,652,180	305	13,475	10.26%
Equipment Failure	2,105,837	338	18,764	8.14%
Vehicle	2,080,932	122	10,184	8.05%
Unknown	1,080,023	246	25,561	4.18%
Bird	743,343	445	7,704	2.87%
Animal	652,712	460	7,563	2.52%
Forced Outage	531,045	100	8,665	2.05%
Lightning	394,804	108	5,219	1.53%
Object Contact With Line	189,849	17	1,819	0.73%
Trees - Sec/Service	187,603	135	402	0.73%
Wind	57,158	2	47	0.22%
Ug Dig-Up	51,964	29	452	0.20%
Trees On Row	51,857	5	61	0.20%
Human Error -Non-Company	44,120	17	232	0.17%
Human Error - Company	22,838	11	2,177	0.09%
Fire	14,973	4	51	0.06%
Overload	6,954	4	117	0.03%
Vandalism	3,945	1	15	0.02%
Previous Lightning	3,679	3	43	0.01%
Customer Equipment	1,336	5	13	0.01%
Call Error	0	0	0	0.00%
Contamination	0	0	0	0.00%
Ice	0	0	0	0.00%
Other Electric Utility	0	0	0	0.00%
Other Utility-Non Elec	0	0	0	0.00%
Switching Error	0	0	0	0.00%
Total	25,861,413	3,734	176,436	100%

Proposed Solutions – Penn Power Rate District

Penn Power Rate District analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending December 31, 2024, and the associated actions designed to address these outage causes.

To improve system reliability, FE PA performs cycle-length tree trimming and enhanced tree trimming in select locations. Enhanced tree trimming removes healthy limbs overhanging primary conductors. FE PA's options under the law are strictly limited when it comes to all forms of off-corridor tree management. However, FE PA is legally permitted to identify off-corridor priority trees that are dead, dying, diseased, leaning, or significantly encroaching the corridor and remove those trees when customer consent is obtained or easement rights permit. FE PA is very active in pursuing this option, when available, to remove the highest risk trees. Trees identified with a high potential to cause a future outage are targeted for removal to prevent an interruption of electrical service to FE PA's customers. Furthermore, FE PA continues its program to mitigate trees subject to damage from the Emerald Ash Borer. FE PA will also review areas off-cycle to mitigate tree risk in high impact areas.

To reduce the likelihood of outages caused by equipment and line failure outages, Penn Power Rate District follows I&M programs that set forth schedules for regular inspections of distribution facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, and reclosers. Equipment identified is repaired or replaced as appropriate. FE PA has executed Long-Term Infrastructure Improvement Plans ("LTIIP") which includes expenditures and programs designed to adequately maintain and improve the efficiency, safety, adequacy, and reliability of the distribution system.

Outages by Cause – West Penn Rate District

Outage by Cause				
2024 12-Month Rolling	West Penn			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees Off Row-Tree	92,141,608	4,332	263,019	49.58%
Unknown	19,269,111	1,698	171,199	10.37%
Equipment Failure	17,915,187	1,965	115,368	9.64%
Line Failure	15,967,781	2,020	83,487	8.59%
Forced Outage	8,632,985	1,224	122,583	4.65%
Vehicle	8,212,707	556	49,497	4.42%
Trees Off Row-Limb	7,449,027	655	37,272	4.01%
Animal	4,748,854	1,821	32,999	2.56%
Wind	4,399,178	251	13,804	2.37%
Lightning	2,809,197	171	14,517	1.51%
Trees On Row	1,537,879	132	5,072	0.83%
Object Contact With Line	756,974	37	3,554	0.41%
Trees - Sec/Service	469,873	453	1,159	0.25%
Overload	460,294	13	1,317	0.25%
Bird	340,736	615	3,300	0.18%
Human Error -Non-Company	266,904	54	2,666	0.14%
Human Error - Company	136,467	24	6,717	0.07%
Ug Dig-Up	84,744	53	591	0.05%
Other Electric Utility	83,220	9	510	0.04%
Previous Lightning	64,210	4	761	0.03%
Switching Error	54,495	1	865	0.03%
Ice	33,185	8	84	0.02%
Fire	7,861	8	39	0.00%
Customer Equipment	4,594	15	27	0.00%
Vandalism	2,176	4	5	0.00%
Contamination	496	1	4	0.00%
Other Utility-Non Elec	435	2	13	0.00%
Call Error	0	0	0	0.00%
Total	185,850,178	16,126	930,429	100%

Proposed Solutions – West Penn Rate District

West Penn Rate District analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending December 31, 2024, and the associated actions designed to address these outage causes.

To improve system reliability, FE PA performs cycle-length tree trimming and enhanced tree trimming in select locations. Enhanced tree trimming removes healthy limbs overhanging primary conductors. FE PA's options under the law are strictly limited when it comes to all forms of off-corridor tree management. However, FE PA is legally permitted to identify off-corridor priority trees that are dead, dying, diseased, leaning, or significantly encroaching the corridor and remove those trees when customer consent is obtained or easement rights permit. FE PA is very active in pursuing this option, when available, to remove the highest risk trees. Trees identified with a high potential to cause a future outage are targeted for removal to prevent an interruption of electrical service to FE PA's customers. Furthermore, FE PA continues its program to mitigate trees subject to damage from the Emerald Ash Borer. FE PA will also review areas off-cycle to mitigate tree risk in high impact areas.

To reduce the likelihood of equipment and line failures, West Penn Rate District follows I&M programs that set forth schedules for regular inspections of distribution and substation facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, substations, and reclosers. Equipment identified is repaired or replaced as appropriate. FE PA has executed Long-Term Infrastructure Improvement Plans ("LTIIP") which includes expenditures and programs designed to adequately maintain and improve the efficiency, safety, adequacy, and reliability of the distribution system.

Section 57.195(b)(5) *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.*

Worst Performing Circuits – Remedial Actions

Rate Districts of Met-Ed, Penelec, Penn Power, and West Penn Remedial Actions for Worst Performing Circuits are provided in Attachment A of this report.

Section 57.195(b)(6) *A comparison of established transmission and distribution inspections and maintenance goals/objectives versus actual results achieved during the year being reported on. Explanations of any variances shall be included.*

T&D Inspection and Maintenance Programs

Inspection and Maintenance		Met-Ed		Penelec		Penn Power		West Penn	
2024		Planned	Completed	Planned	Completed	Planned	Completed	Planned	Completed
Forestry	Transmission (Miles)	272	272	430	430	171	171	211	211
	Distribution (Miles) ⁸	2,856	1,918	3,828	3,052	1,069	594	4,510	4,011
Transmission	Aerial Patrols	2	2	2	2	2	2	2	2
	Groundline	1,652	2,297	2,485	3,176	975	1,161	424	597
Substation	Substation Inspections Class A	420	420	776	776	150	150	936	936
	Substation Inspections Class B	420	420	776	776	150	150	936	936
	Substation Inspections Class C	1,680	1,680	3,104	3,104	600	600	3,744	3,744
	Transformers	140	140	407	407	9	9	375	375
	Breakers	65	65	323	323	12	12	362	358 ⁹
	Relay Schemes	267	267	322	322	24	24	203	203
Distribution	Capacitors	4,822	4,828	8,583	8,583	945	945	3,823	3,823
	Poles	38,000	38,279	41,509	41,815	10,743	10,779	46,650	49,147
	Reclosers	3,531	3,531	3,926	3,926	1,239	1,239	4,470	4,470
	Radio-Controlled Switches	1,800	1,815	2,666	2,667	Penn Power has no radio-controlled switches		West Penn has no radio-controlled switches	

General Note: Unless specified otherwise, all inspections are reported on a unit basis rather than on a location basis.

⁸ Vegetation management commitments were not met at 2024 year-end due to budgetary constraints associated with increased storms and abnormal weather. All deferred work for West Penn has been completed by the end of Q1 2025. All deferred work for Penelec, except for 0.01 miles, has been completed. The remaining 0.01 miles will be completed along with 2025 maintenance activities. Met-Ed and Penn Power remaining carryover work was added to the 2025 workplan and is being completed along with other work during the calendar year. Met-Ed and West Penn planned miles had slight adjustments due to mapping changes.

⁹ Customer delays affected the completion of substation breaker inspections in the West Penn Rate District and are planned for completion in 2025.

Section 57.195(b)(7) *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 EDC's own functional account code of FERC account code as available. Explanations of any variances shall be included.*

Budgeted vs. Actual T&D Operation & Maintenance Expenditures

Met-Ed Rate District T&D O&M - 2024 (\$)					
Transmission					
Category		2024 Actuals	2024 Budget	Variance %	Notes
560	Operation Supervision and Engineering	(\$76)	\$0	100%	
561	Load Dispatching	\$35,294	\$19,142	84%	1
562	Station Expenses	\$12,541	\$4,255	194.73%	2
563	Overhead Lines Expenses	\$83,749	\$43,581	92.17%	3
565	Transmission of Electricity by Others	\$2,122,724	\$12,119,945	-82%	4
566	Miscellaneous Transmission Expenses	\$47,710	(\$504)	100%	3
567	Rents	\$0	\$0	100%	
568	Maintenance Supervision and Engineering	\$3,909	\$0	100%	5
569	Maintenance of Structures	(\$305)	\$0	100%	
570	Maintenance of Station Equipment	\$194,224	\$139,871	39%	3
571	Maintenance of Overhead Lines	\$144,088	(\$23,289)	-718.70%	6
572	Transmission-Maintenance of Underground Lines	\$0	\$0	100%	
573	Maintenance of Miscellaneous Transmission Plant	\$224	\$0	100%	
575	Market Administration, Monitoring & Compliance Services	\$0	\$0	100%	
Transmission Total		\$2,644,083	\$12,303,001		
Distribution					
Category		2024 Actuals	2024 Budget	Variance %	Notes
580	Operation Supervision and Engineering	\$1,239,504	\$1,429,954	-13%	7
581	Load Dispatching	\$181,832	\$329,300	-45%	7
582	Station Expenses	\$418,143	\$679,766	-38%	8
583	Overhead Line Expenses	\$438,921	\$641,071	-32%	9
584	Underground Line Expenses	\$0	\$0	100%	
586	Meter Expenses	\$619,447	\$697,372	-11%	7
587	Customer Installations Expenses	\$0	\$0	100%	
588	Miscellaneous Distribution Expenses	\$9,004,024	\$10,565,914	-15%	10
589	Rents	\$561,528	\$510,706	10%	11
590	Maintenance Supervision and Engineering	\$681,991	\$511,272	33%	12
591	Maintenance of Structures	(\$1,473)	\$2,566	-157%	13
592	Maintenance of Station Equipment	\$5,781,425	\$6,210,407	-7%	
593	Maintenance of Overhead Lines	\$74,814,625	\$65,281,890	15%	14
594	Maintenance of Underground Lines	\$2,877,140	\$4,037,767	-29%	15
595	Maintenance of Line Transformer	\$151,624	\$10,032	1411%	3
596	Maintenance of Street Lighting and Signal Systems	\$1,102,596	\$336,627	228%	2
597	Maintenance of Meters	\$2,119,838	\$2,253,002	-6%	
598	Maintenance of Miscellaneous Distribution Plant	\$365,954	\$1,277,074	-71%	16
Distribution Total		\$100,357,118	\$94,774,719		
Met-Ed Rate District Total		\$103,001,201	\$107,077,720		

Variance Explanations (Variances 10% or greater)	
1	Over budget due to PJM reimbursable services settling to load dispatching.
2	Over budget due to labor and transportation requirements being greater than planned.
3	Over budget due to labor requirements being greater than planned.
4	Under budget due to lower Network Integration Transmission Services (NITS) charges which is a result of less customers shopping than anticipated.
5	Over budget due to labor requirements and License, Permits, and Regulations being greater than planned.
6	Over budget due to labor and contractor costs being greater than planned.
7	Under budget due to labor costs being less than planned.
8	Under budget due to contractor costs being less than planned.
9	Under budget due to telecommunication costs and labor being less than planned.
10	Under budget due to labor requirements, materials, and lease and rental costs being less than planned.
11	Over budget due to Computer Software maintenance and joint use rental expense being greater than planned.
12	Over budget due to contractor costs being greater than planned.
13	Under budget due to Outside Services/Contractors and Materials expenses being less than planned.
14	Over budget due to labor requirements, transportation, and Outside Services/Contractors being greater than planned.
15	Under budget due to labor and transportation requirements, Outside Services/Contractors and Materials expenses being less than planned.
16	Under budget due to Labor requirements and Materials expenses being less than planned.

Penelec Rate District T&D O&M - 2024 (\$)					
Transmission					
Category		2024 Actuals	2024 Budget	Variance %	Notes
560	Operation Supervision and Engineering	\$0	\$0	100%	
561	Load Dispatching	\$88,244	\$59,959	47%	1
562	Station Expenses	\$9,769	-\$14,847	-166%	2
563	Overhead Lines Expenses	\$47,218	-\$14,472	-426%	3
564	Transmission-Underground Line Expenses	\$0	\$0	100%	
565	Transmission of Electricity by Others	\$56,505,238	\$48,406,396	17%	4
566	Miscellaneous Transmission Expenses	\$89,321	\$33,339	168%	2
567	Rents	\$0	\$0	100%	
568	Maintenance Supervision and Engineering	\$2,554	\$5,142	-50%	5
569	Maintenance of Structures	\$0	\$0	100%	
570	Maintenance of Station Equipment	\$433,324	\$0	100%	2
571	Maintenance of Overhead Lines	\$197,665	-\$26,248	-853%	6
572	Transmission-Maintenance of Underground Lines	\$131	\$0	100%	
573	Maintenance of Miscellaneous Transmission Plant	\$0	\$0	100%	
575	Market Administration, Monitoring & Compliance Services	\$0	\$0	100%	
Transmission Total		\$57,373,464	\$48,449,269		
Distribution					
Category		2024 Actuals	2024 Budget	Variance %	Notes
580	Operation Supervision and Engineering	\$1,357,552	\$2,049,663	-34%	7
581	Load Dispatching	\$185,912	\$407,060	-54%	5
582	Station Expenses	\$827,064	\$0	100%	6
583	Overhead Line Expenses	\$289,959	\$437,609	-34%	5
584	Underground Line Expenses	\$1,439,025	\$1,215,000	18%	8
586	Meter Expenses	\$1,022,060	\$1,036,573	-1%	
587	Customer Installations Expenses	\$0	\$0	100%	
588	Miscellaneous Distribution Expenses	\$12,306,697	\$14,144,052	-13%	9
589	Rents	\$2,781,367	\$2,458,383	13%	2
590	Maintenance Supervision and Engineering	\$854,504	\$575,253	49%	10
591	Maintenance of Structures	\$0	\$0	100%	
592	Maintenance of Station Equipment	\$5,592,673	\$8,731,316	-36%	11
593	Maintenance of Overhead Lines	\$62,661,699	\$63,623,057	-2%	
594	Maintenance of Underground Lines	\$1,219,804	\$1,691,914	-28%	12
595	Maintenance of Line Transformer	\$132,474	\$0	100%	13
596	Maintenance of Street Lighting and Signal Systems	\$2,370,315	\$1,217,610	95%	14
597	Maintenance of Meters	\$2,844,692	\$3,157,309	-10%	15
598	Maintenance of Miscellaneous Distribution Plant	\$429,628	\$2,383,333	-82%	12
Distribution Total		\$96,315,426	\$103,128,133		
Penelec Rate District Total		\$153,688,890	\$151,577,402		

Variance Explanations (Variances 10% or greater)	
1	Over budget due to Load studies expenses being greater than planned.
2	Over budget due to labor requirements being greater than planned.
3	Over budget due to labor requirements and License, Permits, and Regulations being greater than planned.
4	Over budget due to higher Network Integration Transmission Services (NITS) charges which is a result of more customers shopping than anticipated.
5	Under budget due to labor requirements being less than planned.
6	Over budget due to labor requirements and Outside Services/Contractors being greater than planned.
7	Under budget due to labor requirements, contractors, and license, permits, and regulations being less than planned.
8	Over budget due to transformer maintenance being greater than planned.
9	Under budget due to Materials being less than planned.
10	Over budget due to Outside Services/Contractors being greater than planned.
11	Over budget due to Fleet costs and labor requirements being greater than planned.
12	Under budget due to Outside Services/Contractors being less than planned.
13	Over budget due to materials and labor requirements being greater than planned.
14	Over budget due to Labor and transportation requirements being greater than planned.
15	Under budget due to fleet costs charged to O&M being less than planned.

Penn Power Rate District T&D O&M - 2024 (\$)					
Transmission					
Category		2024 Actuals	2024 Budget	Variance %	Notes
560	Operation Supervision and Engineering	\$1,486	\$2,920	-49%	1
561	Load Dispatching	\$14,853	\$13,016	14%	2
562	Station Expenses	\$3,022	\$0	100%	3
563	Overhead Lines Expenses	\$6,723	\$0	100%	4
565	Transmission of Electricity by Others	\$4,566,515	\$4,710,852	-3%	
566	Miscellaneous Transmission Expenses	\$5,559	-\$5,221	-206%	4
567	Rents	\$0	\$0	100%	
568	Maintenance Supervision and Engineering	\$27,542	\$39,366	-30%	1
569	Maintenance of Structures	\$41,000	\$16,302	152%	5
570	Maintenance of Station Equipment	\$29,888	\$3,047	881%	6
571	Maintenance of Overhead Lines	\$115,873	-\$7,267	-1694%	7
572	Transmission-Maintenance of Underground Lines	\$0	\$0	100%	
573	Maintenance of Miscellaneous Transmission Plant	-\$5,358	\$0	100%	8
575	Market Administration, Monitoring & Compliance Services	\$0	\$0	100%	
Transmission Total		\$4,807,103	\$4,773,015		
Distribution					
Category		2024 Actuals	2024 Budget	Variance %	Notes
580	Operation Supervision and Engineering	\$289,572	\$834,554	-65%	9
581	Load Dispatching	\$0	\$0	100%	
582	Station Expenses	\$129,560	\$61,800	110%	7
583	Overhead Line Expenses	\$92,393	\$155,441	-41%	10
584	Underground Line Expenses	\$827,449	\$965,161	-14%	11
586	Meter Expenses	\$77,328	\$68,304	13%	12
587	Customer Installations Expenses	\$0	\$0	100%	
588	Miscellaneous Distribution Expenses	\$1,520,375	\$1,663,968	-9%	
589	Rents	\$148,982	\$39,278	279%	13
590	Maintenance Supervision and Engineering	\$194,758	\$132,863	47%	2
591	Maintenance of Structures	\$0	\$0	100%	
592	Maintenance of Station Equipment	\$1,031,872	\$996,010	4%	
593	Maintenance of Overhead Lines	\$21,764,418	\$18,357,131	19%	14
594	Maintenance of Underground Lines	\$319,040	\$290,269	10%	4
595	Maintenance of Line Transformer	\$22,081	\$0	100%	4
596	Maintenance of Street Lighting and Signal Systems	\$149,851	\$54,038	177%	6
597	Maintenance of Meters	\$550,043	\$567,946	-3%	
598	Maintenance of Miscellaneous Distribution Plant	\$399,391	\$527,911	-24%	11
Distribution Total		\$27,517,113	\$24,714,672		
Penn Power Total		\$32,324,216	\$29,487,687		

Variance Explanations (Variances 10% or greater)	
1	Under budget due to labor requirements being less than planned.
2	Over budget due to Outside Services/Contractors being greater than planned.
3	Over budget due to labor requirements and telecommunication equipment and services expense being greater than planned.
4	Over budget due to labor requirements being greater than planned.
5	Over budget due to labor requirements and Utilities being greater than planned.
6	Over budget due to labor requirements and transportation expenses being greater than planned.
7	Over budget due to labor requirements and Outside Services/Contractors being greater than planned.
8	Under budget due to Materials and Supplies being less than planned.
9	Under budget due to Supervision & Engineering expenses being Capitalized.
10	Under budget due to telecommunication costs and labor requirements being less than planned.
11	Under budget due to contractor costs being less than planned.
12	Over budget due to labor requirements and Materials and supplies being greater than planned.
13	Over budget due to Computer software Maintenance and contractor costs being greater than planned.
14	Over budget due to labor requirements, contractor costs, and transportation expenses being greater than planned.

West Penn Rate District T&D O&M - 2024 (\$)					
Transmission					
Category		2024 Actuals	2024 Budget	Variance %	Notes
560	Operation Supervision and Engineering	\$0	\$0	100%	
561	Load Dispatching	-\$144,708	\$78,187	-285%	1
562	Station Expenses	-\$51,923	\$0	100%	2
563	Overhead Lines Expenses	-\$117,642	\$0	100%	3
565	Transmission of Electricity by Others	\$72,881,352	\$66,696,010	9%	
566	Miscellaneous Transmission Expenses	-\$51,626	\$244,016	-121%	4
567	Rents	\$0	\$0	100%	
568	Maintenance Supervision and Engineering	\$584,999	\$612,537	-4%	
569	Maintenance of Structures	\$60,126	\$53,775	12%	5
570	Maintenance of Station Equipment	\$166,876	\$321,361	-48%	4
571	Maintenance of Overhead Lines	\$4,543,739	\$6,669,868	-32%	4
572	Transmission-Maintenance of Underground Lines	\$52	\$0	100%	
573	Maintenance of Miscellaneous Transmission Plant	\$535,496	\$0	100%	4
575	Market Administration, Monitoring & Compliance Services	\$2,267	\$0	100%	6
Transmission Total		\$78,409,008	\$74,675,753		
Distribution					
Category		2024 Actuals	2024 Budget	Variance %	Notes
580	Operation Supervision and Engineering	\$1,260,529	\$1,594,298	-21%	3
581	Load Dispatching	\$117,148	\$508,030	-77%	7
582	Station Expenses	\$1,051,736	\$1,287,413	-18%	8
583	Overhead Line Expenses	\$218,323	\$339,369	-36%	3
584	Underground Line Expenses	\$2,457,078	\$1,895,881	30%	4
586	Meter Expenses	\$1,258,586	\$1,068,935	18%	5
587	Customer Installations Expenses	\$0	\$0	100%	
588	Miscellaneous Distribution Expenses	\$9,506,322	\$10,574,920	-10%	9
589	Rents	\$0	\$0	100%	
590	Maintenance Supervision and Engineering	\$709,681	\$476,985	49%	4
591	Maintenance of Structures	\$0	\$0	100%	
592	Maintenance of Station Equipment	\$7,111,235	\$8,693,576	-18%	10
593	Maintenance of Overhead Lines	\$61,451,408	\$58,167,261	6%	
594	Maintenance of Underground Lines	\$1,502,521	\$877,945	71%	11
595	Maintenance of Line Transformer	\$86,956	\$0	100%	5
596	Maintenance of Street Lighting and Signal Systems	\$1,248,648	\$626,597	99%	12
597	Maintenance of Meters	\$1,714,440	\$2,378,393	-28%	13
598	Maintenance of Miscellaneous Distribution Plant	\$249,208	\$1,586,894	-84%	14
Distribution Total		\$89,943,819	\$90,076,497		
West Penn Rate District Total		\$168,352,827	\$164,752,251		

Variance Explanations (Variances 10% or greater)	
1	Under budget due to load studies and PJM reimbursable services settling to load dispatching.
2	Under budget due to labor assessment reclass from transmission to distribution.
3	Under budget due to labor requirements being less than planned.
4	Over budget due to Outside Services/Contractors being greater than planned.
5	Over budget due to labor requirements being greater than planned.
6	Over budget due to PJM Ancillary Service Market Administration, Monitoring & Compliance "Schedule 9&10" charges being greater than planned.
7	Under budget due to labor requirements and Outside Services/Contractors being less than planned.
8	Under budget due to labor requirements and Materials and supplies being less than planned.
9	Under budget due to Materials and Supplies being less than planned.
10	Under budget due to Labor, Materials & Supplies, and transportation requirements being less than planned.
11	Over budget due to labor requirements and Outside Services/Contractors being greater than planned.
12	Over budget due to Labor and transportation requirements being greater than planned.
13	Under budget due to Labor and transportation requirements being less than planned.
14	Under budget due to Outside Services/Contractors being less than planned.

Section 57.195(b)(8) *A comparison of budgeted versus actual transmission and distribution operation and maintenance capital expenses for the year being reported on in total and detailed by the EDC's own functional account code or FERC account code as available. Explanations of any variances 10% or greater shall be included.*

Budgeted vs. Actual T&D Capital Expenditures¹⁰

Met-Ed T&D Capital – 2024 (\$)				
Category	2024 Actuals	2024 Budget	Variance %	Notes
Capacity	\$17,611,342	\$39,565,175	-55%	1
Condition	\$14,200,159	\$9,893,338	44%	2
Facilities	\$6,616,584	\$7,810,234	-15%	3
Forced	\$59,494,388	\$51,686,510	15%	4
Meter Related	\$1,418,756	\$1,427,390	-1%	
New Business	\$22,627,838	\$23,160,787	-2%	
Other	\$5,788,030	\$10,117,118	-43%	5
Reliability	\$43,217,065	\$40,015,069	8%	
Street Light	\$873,585	\$1,419,053	-38%	6
Tools & Equip	\$4,120,740	\$5,100,378	-19%	7
Vegetation Mgt.	\$0	\$0	-100%	
Met-Ed Total	\$175,968,487	\$190,195,052		

Penelec T&D Capital – 2024 (\$)				
Category	2024 Actuals	2024 Budget	Variance %	Notes
Capacity	\$1,019,671	\$328,081	211%	8
Condition	\$16,413,127	\$9,597,795	71%	9
Facilities	\$8,892,322	\$5,013,605	77%	8
Forced	\$74,071,005	\$60,863,917	22%	4
Meter Related	\$1,324,300	\$731,425	81%	10
New Business	\$17,791,870	\$13,853,688	28%	11
Other	\$5,801,487	\$5,024,360	15%	12
Reliability	\$88,556,050	\$88,712,497	0%	
Street Light	\$2,867,450	\$3,734,043	-23%	6
Tools & Equip	\$5,828,326	\$9,372,927	-38%	13
Vegetation Mgt.	\$0	\$0	100%	
Penelec Total	\$222,565,608	\$197,232,337		

¹⁰ Budget calculations reflects FE Forward budget placeholders.

Penn Power T&D Capital – 2024 (\$)				
Category	2024 Actuals	2024 Budget	Variance %	Notes
Capacity	-\$244	\$114,091	-100%	14
Condition	\$3,183,891	\$1,390,228	129%	15
Facilities	\$2,031,009	\$235,726	762%	8
Forced	\$13,178,651	\$13,631,462	-3%	
Meter Related	\$555,183	\$693,295	-20%	16
New Business	\$8,316,185	\$9,220,463	-10%	17
Other	\$3,739,905	\$3,937,732	-5%	
Reliability	\$21,514,965	\$17,241,365	25%	8
Street Light	\$572,008	\$457,088	25%	18
Tools & Equip	\$1,453,118	\$1,772,242	-18%	19
Vegetation Mgt.	\$0	\$20,226	-100%	20
Penn Power Total	\$54,544,671	\$35,082,456		

West Penn Power T&D Capital – 2024 (\$)				
Category	2024 Actuals	2024 Budget	Variance %	Notes
Capacity	\$2,725,098	\$4,164,437	-35%	3
Condition	\$13,287,114	\$7,009,494	90%	2
Facilities	\$14,234,270	\$14,100,399	1%	
Forced	\$60,626,746	\$54,651,269	11%	4
Meter Related	\$1,281,019	\$1,021,014	25%	10
New Business	\$22,607,190	\$26,575,695	-15%	3
Other	\$7,224,281	\$8,306,817	-13%	5
Reliability	\$71,463,945	\$56,023,242	28%	21
Street Light	\$2,790,872	\$2,541,070	10%	22
Tools & Equip	\$5,587,274	\$5,892,652	-5%	
Vegetation Mgt.	\$0	\$0	100%	
West Penn Power Total	\$201,827,810	\$180,286,089		

Variance Explanations (Variances 10% or greater)	
1	Under budget due to Substation Projects being delayed due to material availability as well as Emergent Failures being less than planned.
2	Over budget due to overhead conductor project, condition items, and substation condition items being greater than planned.
3	Under budget due to timing differences in several construction projects.
4	Over budget due to storm expenditures and timing differences in several construction projects.
5	Under budget due to compensation awards being less than planned.
6	Under budget due to LED streetlight replacement Program being less than planned.
7	Under budget due to Electric Vehicle Charging Stations and Vehicle purchases being less than planned.
8	Over budget due to timing differences in several construction projects.
9	Over budget due to Substation condition items, overhead conductor project, and fuel tank monitor replacements being greater than planned.
10	Over budget due to meter and smart meter exchanges being greater than planned.
11	Over budget due to Replacing Bedford North XFMR #1 and new business being greater than planned.
12	Over budget due to Claims being greater than planned.
13	Under budget due to FE Forward Cost to Achieve initiative being less than planned.
14	Under budget due to Overhead Regulator being less than planned.
15	Over budget due to overhead conductor project and Security Equipment being greater than planned.
16	Under budget due to meter and smart meter exchanges being less than planned.
17	Under budget due to new commercial and residential business being less than planned.
18	Over budget due to unscheduled repairs being greater than planned.
19	Under budget due to Portable Traffic Device Pilot and Mobile Data Terminals purchase and installations being less than planned.
20	Under budget due to distribution vegetation management being O&M.
21	Over budget due to timing differences in several projects including LTIP and Reliability Programs.
22	Over budget due to unscheduled repairs and 430 municipal streetlight conversion project being greater than planned.

Section 57.195(b)(9) *Quantified transmission and distribution inspection and maintenance goals/objectives for the current calendar year detailed by system area (that is, transmission, substation and distribution).*

T&D Inspection & Maintenance Programs – 2025 Goals / Objectives

T&D Inspection & Maintenance Programs - 2025				
Program/Project by Rate District	Met-Ed	Penelec	Penn Power	West Penn
Forestry				
Transmission (Miles)	288	491	56	180
Distribution (Miles)	2998	3,755	1,424	4,358
Transmission				
Aerial Patrols	2	2	2	2
Groundline (Poles)	1,129	3,572	345	0
Substation				
Substation Inspections Class A	424	782	154	932
Substation Inspections Class B	424	782	154	932
Substation Inspections Class C	1,696	3,128	616	3,728
Transformers	145	437	14	342
Breakers	75	418	7	372
Relay Schemes	179	141	18	172
Distribution				
Capacitors	4,782	8,529	958	3,739
Poles	37,000	40,000	11,092	44,800
Reclosers	3,378	3,917	1,257	4,074
Radio-Controlled Switches (2 / year)	1,996	2,620	Penn Power has no radio-controlled switches	West Penn has no radio-controlled switches

Section 57.195(b)(10) Budgeted transmission and distribution operation and maintenance expenses for the current year in total and detailed by the EDC's own functional account code or FERC account code as available.

2025 T&D O&M Budget

Met-Ed Rate District T&D O&M - Annual 2025 (\$)		
Transmission		
Category		Annual Budget
560	Operation Supervision & Engineering	\$0
561	Load Dispatching	\$18,783
562	Station Expenses	\$4,255
563	Overhead Line Expenses	\$43,581
565	Transmission of Electricity by Others	\$4,514,440
566	Miscellaneous Transmission Expenses	\$10,500
567	Rents	\$0
568	Maintenance Supervision and Engineering	\$0
569	Maintenance of Structures	\$56,098
570	Maintenance of Station Equipment	\$212,834
571	Maintenance of Overhead Lines	(\$48,349)
573	Maintenance of Miscellaneous Transmission Plant	\$0
575	Market Administration, Monitoring & Compliance Services	\$0
Transmission Total		\$4,812,142
Distribution		
Category		Annual Budget
580	Operation Supervision & Engineering	\$1,255,846
581	Load Dispatching	\$442,143
582	Station Expenses	\$716,200
583	Overhead Line Expenses	\$620,497
584	Underground Line Expenses	\$0
586	Meter Expenses	\$4,570,200
588	Miscellaneous Distribution Expenses	\$7,223,256
589	Rents	\$0
590	Maintenance Supervision and Engineering	\$478,438
591	Maintenance of Structures	\$3,468
592	Maintenance of Station Equipment	\$5,808,457
593	Maintenance of Overhead Lines	\$70,365,045
594	Maintenance of Underground Lines	\$3,981,897
595	Maintenance of Line Transformers	\$9,683
596	Maintenance of Street Lighting and Signal Systems	\$525,957
597	Maintenance of Meters	\$2,155,756
598	Maintenance of Miscellaneous Distribution Plant	\$1,713,875
Distribution Total		\$99,870,718
Met-Ed Rate District Total		\$104,682,860

Penelec Rate District T&D O&M - Annual 2025 (\$)		
Transmission		
Category		Annual Budget
560	Operation Supervision & Engineering	\$0
561	Load Dispatching	\$63,129
562	Station Expenses	\$31,043
563	Overhead Line Expenses	\$31,417
565	Transmission of Electricity by Others	\$53,387,251
566	Miscellaneous Transmission Expenses	\$61,400
567	Rents	\$0
568	Maintenance Supervision and Engineering	\$5,290
569	Maintenance of Structures	\$0
570	Maintenance of Station Equipment	\$0
571	Maintenance of Overhead Lines	(\$52,489)
573	Maintenance of Miscellaneous Transmission Plant	\$0
575	Market Administration, Monitoring & Compliance Services	\$0
Transmission Total		\$53,527,040
Distribution		
Category		Annual Budget
580	Operation Supervision & Engineering	\$1,231,282
581	Load Dispatching	\$411,178
582	Station Expenses	\$8,938
583	Overhead Line Expenses	\$405,929
584	Underground Line Expenses	\$1,215,000
586	Meter Expenses	\$5,065,758
588	Miscellaneous Distribution Expenses	\$11,071,007
589	Rents	\$3,737,926
590	Maintenance Supervision and Engineering	\$517,667
592	Maintenance of Station Equipment	\$8,579,093
593	Maintenance of Overhead Lines	\$68,544,646
594	Maintenance of Underground Lines	\$1,762,966
596	Maintenance of Street Lighting and Signal Systems	\$1,096,785
597	Maintenance of Meters	\$3,084,655
598	Maintenance of Miscellaneous Distribution Plant	\$454,999
Distribution Total		\$107,187,829
Penelec Rate District Total		\$160,714,869

Penn Power Rate District T&D O&M – Annual 2025 (\$)		
Transmission		
Category		Annual Budget
560	Operation Supervision & Engineering	\$1,524
561	Load Dispatching	\$6,793
562	Station Expenses	\$0
563	Overhead Line Expenses	\$0
565	Transmission of Electricity by Others	\$4,561,939
566	Miscellaneous Transmission Expenses	\$5,366
568	Maintenance Supervision and Engineering	\$30,789
569	Maintenance of Structures	\$16,356
570	Maintenance of Station Equipment	\$3,047
571	Maintenance of Overhead Lines	-\$13,490
575	Market Administration, Monitoring & Compliance Services	\$0
Transmission Total		\$4,612,324
Distribution		
Category		Annual Budget
580	Operation Supervision & Engineering	\$809,408
582	Station Expenses	\$30,651
583	Overhead Line Expenses	\$145,021
584	Underground Line Expenses	\$846,774
586	Meter Expenses	\$1,207,652
588	Miscellaneous Distribution Expenses	\$1,339,332
589	Rents	\$10,741
590	Maintenance Supervision and Engineering	\$115,034
592	Maintenance of Station Equipment	\$1,849,137
593	Maintenance of Overhead Lines	\$27,284,740
594	Maintenance of Underground Lines	\$174,577
596	Maintenance of Street Lighting and Signal Systems	\$56,303
597	Maintenance of Meters	\$633,792
598	Maintenance of Miscellaneous Distribution Plant	\$81,009
Distribution Total		\$34,584,169
Penn Power Rate District Total		\$39,196,492

West Penn Rate District T&D O&M - Annual 2025 (\$)		
Transmission		
Category		Annual Budget
560	Operation Supervision & Engineering	\$0
561	Load Dispatching	\$41,311
562	Station Expenses	\$31,853
563	Overhead Line Expenses	\$28,511
565	Transmission of Electricity by Others	\$71,185,385
566	Miscellaneous Transmission Expenses	\$10,364
567	Rents	\$0
568	Maintenance Supervision and Engineering	\$443,751
569	Maintenance of Structures	\$54,973
570	Maintenance of Station Equipment	\$473,767
571	Maintenance of Overhead Lines	\$4,171,860
573	Maintenance of Miscellaneous Transmission Plant	\$0
575	Market Administration, Monitoring & Compliance Services	\$0
Transmission Total		\$76,441,776
Distribution		
Category		Annual Budget
580	Operation Supervision & Engineering	\$885,281
581	Load Dispatching	\$349,734
582	Station Expenses	\$991,907
583	Overhead Line Expenses	\$298,029
584	Underground Line Expenses	\$2,042,758
586	Meter Expenses	\$6,134,477
588	Miscellaneous Distribution Expenses	\$9,160,117
590	Maintenance Supervision and Engineering	\$435,813
592	Maintenance of Station Equipment	\$6,720,753
593	Maintenance of Overhead Lines	\$70,174,183
594	Maintenance of Underground Lines	\$942,712
595	Maintenance of Line Transformers	\$0
596	Maintenance of Street Lighting and Signal Systems	\$807,784
597	Maintenance of Meters	\$2,033,859
598	Maintenance of Miscellaneous Distribution Plant	\$327,415
Distribution Total		\$101,304,823
West Penn Rate District Total		\$177,746,599

Section 57.195(b)(11) *Budgeted transmission and distribution capital expenses for the current year in total and detailed by the EDC's own functional account code or FERC account code as available.*

2024 T&D Capital Budget

Met-Ed Rate District T&D Capital - Annual 2025 (\$)	
Category	Annual Budget
Capacity	\$48,175,199
Condition	\$10,400,397
Facilities	\$5,231,710
Forced	\$50,317,294
Meter Related	\$1,466,212
New Business	\$19,335,380
Other	\$8,822,961
Reliability	\$91,741,454
Street Light	\$1,761,745
Tools & Equip	\$3,554,910
Vegetation Management	\$0
Met-Ed Rate District Total	\$240,807,262

Penelec Rate District T&D Capital - Annual 2025 (\$)	
Category	Annual Budget
Capacity	(\$44,095)
Condition	\$11,623,462
Facilities	\$886,543
Forced	\$56,036,705
Meter Related	\$989,988
New Business	\$13,117,950
Other	\$26,964,868
Reliability	\$120,086,682
Streetlight	\$3,427,655
Tools & Equip	\$3,765,892
Vegetation Management	\$0
Penelec Rate District Total	\$236,855,648

Penn Power Rate District T&D Capital - Annual 2025 (\$)	
Category	Annual Budget
Capacity	\$112,791
Condition	\$1,802,845
Facilities	\$2,130,264
Forced	\$16,177,611
Meter Related	\$510,539
New Business	\$7,051,315
Other	(\$2,499,124)
Reliability	\$44,981,236
Street Light	\$446,225
Tools & Equip	\$1,110,884
Vegetation Management	\$0
Penn Power Rate District Total	\$71,824,586

West Penn Rate District T&D Capital - Annual 2025 (\$)	
Category	Annual Budget
Capacity	(\$3,949,516)
Condition	\$9,077,660
Facilities	\$16,483,978
Forced	\$62,413,234
Meter Related	\$977,202
New Business	\$27,859,596
Other	\$7,251,828
Reliability	\$108,682,968
Street Light	\$2,765,189
Tools & Equip	\$4,495,892
Vegetation Management	\$0
West Penn Rate District Total	\$236,058,033

Section 57.195(b)(12) *Significant changes, if any, to the transmission and distribution maintenance programs previously submitted to the Commission.*

Changes to T&D Maintenance Programs

There were no significant changes to the transmission and distribution maintenance programs for 2024.

ATTACHMENT A

Worst Performing Circuits – Remedial Actions

Met-Ed Rate District				
Substation	Circuit	District	Customers	Outages
No Bangor	00813-3	Easton	1,369	115
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	9.09	Trees Off Row-Tree	66%	Q1 2024
SAIDI	3,861.78	Trees Off Row-Limb	14%	Q2 2024
SAIFI	10.26	Vehicle	9%	Q3 2024
CAIDI	376	All Other	11%	Q4 2024
Customer Minutes	5,286,775			
Customers Affected	14,042			
Remedial Action Planned or Taken			Status	Progress
Mainline Forestry Aerial Patrol			Complete	Jul-23
LTIIP Engineering Review			Complete	Feb-24
Forestry Aerial Patrol			Complete	Jul-24
LTIIP Line relocation project			Complete	Dec-24
LTIIP Voltage conversion			To be completed 2025	25%
Substation	Circuit	District	Customers	Outages
Ottsville Substation	00661-3	Easton	612	124
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	8.92	Trees Off Row-Tree	81%	Q1 2024
SAIDI	8,471.44	Trees On Row	7%	Q2 2024
SAIFI	13.69	Unknown	7%	Q3 2024
CAIDI	619	All Other	5%	Q4 2024
Customer Minutes	5,184,519			
Customers Affected	8,380			
Remedial Action Planned or Taken			Status	Progress
LTIIP Engineering Review			Complete	Feb-24
Replace priority mainline poles identified during annual pole inspection			Complete	Mar-24
Additional LTIIP Engineering Review			Complete	Sep-24
Targeted Overhead Circuit Inspection			Complete	Oct-24
LTIIP Line rehab			To be completed 2025	25%

Met-Ed Rate District				
Substation	Circuit	District	Customers	Outages
Ottsville Substation	00660-3	Easton	887	100
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	7.32	Trees Off Row-Tree	63%	Q1 2024
SAIDI	4,800.55	Unknown	19%	Q2 2024
SAIFI	6.58	Trees On Row	7%	Q3 2024
CAIDI	729	All Other	11%	Q4 2024
Customer Minutes	4,258,089			
Customers Affected	5,837			
Remedial Action Planned or Taken			Status	Progress
Mid cycle forestry inspection			Complete	May-24
Repair/replace high priority items identified during overhead circuit inspection			Complete	Apr-24
Post Storm Forestry Circuit Patrol			Complete	Jul-24
Substation	Circuit	District	Customers	Outages
Mountain Substation	00744-4	Dillsburg	1,878	124
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	6.37	Trees Off Row-Tree	81%	Q1 2024
SAIDI	1,971.50	Trees On Row	13%	Q2 2024
SAIFI	3.64	Trees Off Row-Limb	3%	Q3 2024
CAIDI	541	All Other	3%	Q4 2024
Customer Minutes	3,702,471			
Customers Affected	6,838			
Remedial Action Planned or Taken			Status	Progress
Overhead circuit inspection			Complete	Nov-24
Substation	Circuit	District	Customers	Outages
Glendon	00818-3	Easton	1,638	34
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	5.98	Trees Off Row-Tree	46%	Q1 2024
SAIDI	2,123.38	Trees On Row	27%	Q2 2024
SAIFI	4.36	Trees Off Row-Limb	14%	Q3 2024
CAIDI	487	All Other	12%	Q4 2024
Customer Minutes	3,478,097			
Customers Affected	7,135			
Remedial Action Planned or Taken			Status	Progress
Mainline Forestry Aerial Patrol			Complete	Jul-23
Replace/repair high priority items identified during overhead circuit patrol			Complete	Apr-24
Forestry Aerial Patrol			Complete	Jul-24
Cycle tree trimming			To be completed 2024	0%

Met-Ed Rate District				
Substation	Circuit	District	Customers	Outages
Lynnville Sub	00737-1	Hamburg	1,091	117
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	5.37	Trees Off Row-Tree	32%	Q1 2024
SAIDI	2,862.98	Equipment Failure	21%	Q2 2024
SAIFI	7.84	Ice	15%	Q3 2024
CAIDI	365	All Other	33%	Q4 2024
Customer Minutes	3,123,512			
Customers Affected	8,555			
Remedial Action Planned or Taken			Status	Progress
Overhead circuit inspection			Complete	Nov-24
Substation	Circuit	District	Customers	Outages
Barto Sub	00706-1	Boyertown	3,027	266
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	5.11	Trees Off Row-Tree	58%	Q1 2024
SAIDI	981.36	Trees Off Row-Limb	15%	Q2 2024
SAIFI	2.21	Wind	7%	Q3 2024
CAIDI	444	All Other	19%	Q4 2024
Customer Minutes	2,970,577			
Customers Affected	6,683			
Remedial Action Planned or Taken			Status	Progress
Targeted tree trimming and removals			Complete	Oct-23
Install Supervisory Control and Data Acquisition (SCADA) devices (3 devices)			Complete	Mar-24
Cycle tree trimming			Complete	Nov-24
LTIP Circuit tie			To be completed 2025	25%
Substation	Circuit	District	Customers	Outages
Huffs Church	00600-1	Boyertown	1,518	210
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	4.84	Trees Off Row-Tree	71%	Q1 2024
SAIDI	1,854.28	Trees Off Row-Limb	10%	Q2 2024
SAIFI	3.46	Forced Outage	6%	Q3 2024
CAIDI	536	All Other	13%	Q4 2024
Customer Minutes	2,814,802			
Customers Affected	5,251			
Remedial Action Planned or Taken			Status	Progress
Install TripSaver			Complete	Feb-24
Cycle tree trimming			To be completed 2024	91%

Met-Ed Rate District				
Substation	Circuit	District	Customers	Outages
Bridgeton Sub	00117-3	Easton	298	31
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	4.77	Trees Off Row-Tree	51%	Q1 2024
SAIDI	9,307.52	Forced Outage	31%	Q2 2024
SAIFI	10.55	Unknown	10%	Q3 2024
CAIDI	882	All Other	7%	Q4 2024
Customer Minutes	2,773,640			
Customers Affected	3,144			
Remedial Action Planned or Taken			Status	Progress
Replace/repair high priority items identified during overhead circuit patrol			Complete	Jun-24
Targeted Forestry Inspection			Complete	Aug-24
Post Storm Forestry Circuit Patrol			Complete	Jul-24
Overhead circuit inspection			Complete	Oct-24
Repair/replace high priority items identified during patrol			Complete	Dec-24
Substation	Circuit	District	Customers	Outages
Fox Hill Subst	00816-3	Stroudsburg	3,332	52
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	4.00	Trees Off Row-Tree	48%	Q1 2024
SAIDI	698.16	Unknown	40%	Q2 2024
SAIFI	4.90	Trees Off Row-Limb	7%	Q3 2024
CAIDI	143	All Other	6%	Q4 2024
Customer Minutes	2,326,265			
Customers Affected	16,311			
Remedial Action Planned or Taken			Status	Progress
Replace Mainline bypass switch			Complete	Jan-24
Overhead circuit inspection			Complete	Apr-24
PAIR Pole Replacements			Complete	May-24
Cycle tree trimming			Complete	Jun-24
Repair/replace high priority items identified during overhead circuit inspection			Complete	Sep-24
Replace UG items identified during inspection			Complete	Dec-24
LTIIIP GOAB switch replacement			To be completed 2025	50%

Met-Ed Rate District				
Substation	Circuit	District	Customers	Outages
South Hamburg Sub	00740-1	Hamburg	1,284	73
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	3.60	Trees Off Row-Tree	56%	Q1 2024
SAIDI	1,628.47	Equipment Failure	16%	Q2 2024
SAIFI	2.55	Trees Off Row-Limb	15%	Q3 2024
CAIDI	640	All Other	13%	Q4 2024
Customer Minutes	2,090,959			
Customers Affected	3,269			
Remedial Action Planned or Taken			Status	Progress
Cycle Tree Trimming			To be completed 2024	99%
Substation	Circuit	District	Customers	Outages
North Cornwall Sub	00610-2	Lebanon	2,348	87
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	3.41	Trees Off Row-Tree	39%	Q1 2024
SAIDI	844.21	Trees Off Row-Limb	26%	Q2 2024
SAIFI	4.89	Forced Outage	21%	Q3 2024
CAIDI	173	All Other	14%	Q4 2024
Customer Minutes	1,982,198			
Customers Affected	11,475			
Remedial Action Planned or Taken			Status	Progress
Cycle tree trimming			Complete	Sep-24
Overhead circuit inspection			Complete	Nov-24
Substation	Circuit	District	Customers	Outages
Raubsville St	00079-3	Easton	800	45
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	3.14	Trees Off Row-Tree	58%	Q1 2024
SAIDI	2,285.43	Trees On Row	19%	Q2 2024
SAIFI	2.36	Wind	11%	Q3 2024
CAIDI	970	All Other	12%	Q4 2024
Customer Minutes	1,828,343			
Customers Affected	1,884			
Remedial Action Planned or Taken			Status	Progress
Replace/repair high priority items identified during overhead circuit patrol			Complete	Apr-24
Replace priority mainline poles identified during annual pole inspection			Complete	May-24
Cycle Tree Trimming			Complete	Sep-24

Met-Ed Rate District				
Substation	Circuit	District	Customers	Outages
Stroudsburg	00610-3	Stroudsburg	910	20
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	3.04	Trees Off Row-Tree	35%	Q1 2024
SAIDI	1,945.29	Vehicle	20%	Q2 2024
SAIFI	6.39	Unknown	14%	Q3 2024
CAIDI	304	All Other	31%	Q4 2024
Customer Minutes	1,770,211			
Customers Affected	5,818			
Remedial Action Planned or Taken			Status	Progress
Replace priority poles identified during annual inspection			Complete	May-24
Replace damaged GOAB switch			Complete	Oct-24
Substation	Circuit	District	Customers	Outages
Mountain Substation	00743-4	Dillsburg	1,038	61
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	3.03	Trees Off Row-Tree	68%	Q1 2024
SAIDI	1,696.12	Equipment Failure	9%	Q2 2024
SAIFI	6.41	Forced Outage	6%	Q3 2024
CAIDI	265	All Other	17%	Q4 2024
Customer Minutes	1,760,577			
Customers Affected	6,651			
Remedial Action Planned or Taken			Status	Progress
Engineering circuit tie addition review			Complete	Jan-24
Overhead circuit inspection			Complete	Sep-24
Substation	Circuit	District	Customers	Outages
Birdsboro	00756-1	Reading	1,534	146
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	3.02	Trees Off Row-Tree	55%	Q1 2024
SAIDI	1,143.45	Trees Off Row-Limb	29%	Q2 2024
SAIFI	5.24	Unknown	6%	Q3 2024
CAIDI	218	All Other	9%	Q4 2024
Customer Minutes	1,754,045			
Customers Affected	8,040			
Remedial Action Planned or Taken			Status	Progress
Targeted tree trimming and removals			Complete	Sep-24

Met-Ed Rate District				
Substation	Circuit	District	Customers	Outages
Round Top	00582-4	Dillsburg	730	65
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	3.01	Trees Off Row-Tree	81%	Q1 2024
SAIDI	2,399.63	Forced Outage	5%	Q2 2024
SAIFI	4.18	Unknown	5%	Q3 2024
CAIDI	573	All Other	9%	Q4 2024
Customer Minutes	1,751,733			
Customers Affected	3,055			
Remedial Action Planned or Taken			Status	Progress
Cycle Tree Trimming			Complete	Aug-24
Substation	Circuit	District	Customers	Outages
W Boyertown Sub	00715-1	Boyertown	1,718	86
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	3.01	Unknown	53%	Q1 2024
SAIDI	1,018.99	Forced Outage	18%	Q2 2024
SAIFI	4.22	Trees Off Row-Tree	17%	Q3 2024
CAIDI	241	All Other	12%	Q4 2024
Customer Minutes	1,750,630			
Customers Affected	7,256			
Remedial Action Planned or Taken			Status	Progress
Install TripSaver			Complete	Aug-24
Cycle Tree Trimming			To be completed 2025	0%
Substation	Circuit	District	Customers	Outages
South Hamburg Sub	00743-1	Hamburg	1,182	76
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	2.83	Trees Off Row-Tree	70%	Q1 2024
SAIDI	1,394.19	Equipment Failure	20%	Q2 2024
SAIFI	2.23	Trees Off Row-Limb	6%	Q3 2024
CAIDI	624	All Other	3%	Q4 2024
Customer Minutes	1,647,928			
Customers Affected	2,639			
Remedial Action Planned or Taken			Status	Progress
Cycle tree trimming			To be completed 2024	98%

Met-Ed Rate District				
Substation	Circuit	District	Customers	Outages
Flying Hills Sub	00777-1	Reading	1,800	125
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	2.60	Trees Off Row-Tree	65%	Q1 2024
SAIDI	840.16	Trees Off Row-Limb	11%	Q2 2024
SAIFI	4.73	Equipment Failure	10%	Q3 2024
CAIDI	178	All Other	13%	Q4 2024
Customer Minutes	1,512,285			
Customers Affected	8,506			
Remedial Action Planned or Taken			Status	Progress
Replace priority mainline poles identified during annual pole inspection			Complete	Sep-24
Cycle Tree Trimming			To be completed 2024	0%
Substation	Circuit	District	Customers	Outages
Shawnee Sub	00899-3	Stroudsburg	1,694	68
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	2.58	Trees Off Row-Tree	68%	Q1 2024
SAIDI	885.99	Trees Off Row-Limb	10%	Q2 2024
SAIFI	3.80	Equipment Failure	9%	Q3 2024
CAIDI	233	All Other	12%	Q4 2024
Customer Minutes	1,500,859			
Customers Affected	6,441			
Remedial Action Planned or Taken			Status	Progress
Mainline Forestry Aerial Patrol			Complete	Jul-23
Engineering circuit tie addition review			Complete	Jan-24
Targeted Mainline Circuit Rehabilitation LTIIIP Engineering Review			Complete	Feb-24
Replace priority mainline poles identified during annual pole inspection			Complete	Jun-24
Forestry Aerial Patrol			Complete	Jul-24
Upgrade Supervisory Control and Data Acquisition (SCADA) devices (2 devices)			Complete	Sep-24
LTIIIP circuit rehab zone 1 & 2			To be completed 2025	25%

Penelec Rate District				
Substation	Circuit	District	Customers	Outages
Thompson	00436-65	Montrose	1,392	122
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	16.67	Forced Outage	41%	Q1 2024
SAIDI	5.16	Trees Off Row-Tree	23%	Q2 2024
SAIFI	3,661.59	Ice	22%	Q3 2024
CAIDI	710.30	All Other	14%	Q4 2024
Customer Minutes	9,872,609			
Customers Affected	7,861			
Remedial Action Planned or Taken			Status	Progress
Install TripSavers (LTIIP)			Complete	May-24
Circuit inspection			Complete	Jun-24
10 pole replacements (LTIIP)			Complete	May-24
PARC TripSavers			To Be Completed 2025	50%
LTIIP New Tie Point			To Be Completed 2025	25%
Substation	Circuit	District	Customers	Outages
Tiffany	00435-65	Montrose	1,303	62
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	8.06	Ice	67%	Q1 2024
SAIDI	4.78	Trees Off Row-Tree	28%	Q2 2024
SAIFI	3,630.41	Forced Outage	2%	Q3 2024
CAIDI	759.74	All Other	3%	Q4 2024
Customer Minutes	4,771,054			
Customers Affected	6,717			
Remedial Action Planned or Taken			Status	Progress
Repair damage caused by storm			Complete	Jan-24
Install remote vacuum switches and transformer (LTIIP)			Complete	Apr-24
Pole replacements			Complete	May-24
Replace electronic recloser batteries			Complete	Sep-24

Penelec Rate District				
Substation	Circuit	District	Customers	Outages
Thompson	00446-65	Montrose	1,291	120
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	7.92	Ice	63%	Q1 2024
SAIDI	5.06	Trees Off Row-Tree	23%	Q2 2024
SAIFI	4,366.22	Line Failure	4%	Q3 2024
CAIDI	862.60	All Other	10%	Q4 2024
Customer Minutes	4,686,856			
Customers Affected	6,169			
Remedial Action Planned or Taken			Status	Progress
Circuit inspection			Complete	May-24
Install TripSavers			Complete	May-24
CEMI TripSaver installations (LTIIP)			Complete	Jun-24
On cycle tree trimming			To Be Completed 2024	77%
PARC TripSavers			To Be Completed 2025	25%
Substation	Circuit	District	Customers	Outages
Lake Como	00788-65	Montrose	665	61
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	6.39	Trees Off Row-Tree	61%	Q1 2024
SAIDI	3.50	Ice	28%	Q2 2024
SAIFI	2,987.78	Line Failure	5%	Q3 2024
CAIDI	854.44	All Other	7%	Q4 2024
Customer Minutes	3,786,129			
Customers Affected	3,709			
Remedial Action Planned or Taken			Status	Progress
Repair damage caused by trees			Complete	Mar-24
Capacitor replacement			Complete	Jul-24
Substation	Circuit	District	Customers	Outages
Grover	00527-63	Towanda	1,106	87
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	5.51	Trees Off Row-Tree	80%	Q1 2024
SAIDI	5.12	Wind	9%	Q2 2024
SAIFI	4,501.87	Vehicle	5%	Q3 2024
CAIDI	878.95	All Other	7%	Q4 2024
Customer Minutes	3,265,223			
Customers Affected	3,654			
Remedial Action Planned or Taken			Status	Progress
Repair damage caused by trees			Complete	Jan-24
Capacitor inspection			Complete	May-24
Cap pole replacement			Complete	Sep-24
On cycle tree trimming			To Be Completed 2025	0%

Penelec Rate District				
Substation	Circuit	District	Customers	Outages
Lenox	00755-65	Montrose	714	64
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	5.43	Trees Off Row-Tree	57%	Q1 2024
SAIDI	3.78	Ice	20%	Q2 2024
SAIFI	1,989.07	Equipment Failure	13%	Q3 2024
CAIDI	526.23	All Other	10%	Q4 2024
Customer Minutes	3,214,335			
Customers Affected	3,657			
Remedial Action Planned or Taken			Status	Progress
On cycle tree clearing			Complete	Jan-24
Replace TripSaver			Complete	Jun-24
LTIIIP Line Rehab			To Be Completed 2025	25%
Substation	Circuit	District	Customers	Outages
Tunkhannock	00533-65	Montrose	1,281	73
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	4.30	Ice	65%	Q1 2024
SAIDI	4.38	Unknown	9%	Q2 2024
SAIFI	2,660.48	Trees Off Row-Limb	8%	Q3 2024
CAIDI	607.74	All Other	17%	Q4 2024
Customer Minutes	2,547,994			
Customers Affected	4,842			
Remedial Action Planned or Taken			Status	Progress
Pole replacements			Complete	Feb-24
On cycle tree trimming			Complete	Sep-24
LTIIIP Replace recloser			To Be Completed 2025	25%
Substation	Circuit	District	Customers	Outages
Falls	00297-65	Montrose	842	40
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	3.78	Ice	57%	Q1 2024
SAIDI	7.88	Trees Off Row-Tree	28%	Q2 2024
SAIFI	2,222.46	Unknown	8%	Q3 2024
CAIDI	282.21	All Other	8%	Q4 2024
Customer Minutes	2,240,126			
Customers Affected	3,686			
Remedial Action Planned or Taken			Status	Progress
Repair damage caused by trees			Complete	Aug-24
On cycle tree trimming			To Be Completed 2025	0%

Penelec Rate District				
Substation	Circuit	District	Customers	Outages
N Meshoppen Tran	00534-65	Montrose	898	79
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	3.37	Trees Off Row-Tree	38%	Q1 2024
SAIDI	2.75	Equipment Failure	25%	Q2 2024
SAIFI	3,435.87	Ice	20%	Q3 2024
CAIDI	1,250.47	All Other	17%	Q4 2024
Customer Minutes	1,995,771			
Customers Affected	7,072			
Remedial Action Planned or Taken			Status	Progress
On cycle tree trimming			Complete	Dec-23
Repair damage caused by trees			Complete	Jan-24
Replace poles			Complete	Jun-24
Substation	Circuit	District	Customers	Outages
Brooklyn	00749-65	Montrose	535	38
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	3.10	Trees Off Row-Tree	57%	Q1 2024
SAIDI	1.97	Equipment Failure	30%	Q2 2024
SAIFI	1,729.69	Ice	7%	Q3 2024
CAIDI	879.63	All Other	1%	Q4 2024
Customer Minutes	1,838,189			
Customers Affected	1,470			
Remedial Action Planned or Taken			Status	Progress
On cycle tree trimming			Complete	Nov-23
Replace anchor			Complete	Jun-24
Substation	Circuit	District	Customers	Outages
Laurel Lake Sub Tran	00449-65	Montrose	540	61
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	2.85	Ice	42%	Q1 2024
SAIDI	7.16	Trees Off Row-Tree	34%	Q2 2024
SAIFI	2,573.00	Equipment Failure	13%	Q3 2024
CAIDI	359.58	All Other	11%	Q4 2024
Customer Minutes	1,685,880			
Customers Affected	4,309			
Remedial Action Planned or Taken			Status	Progress
Circuit inspection			Complete	Apr-24
Targeted Circuit Rehab			Complete	Apr-24
Repair damaged equipment			Complete	Mar-24
Replace MOAB switch			Complete	May-24
LTIIP Replace sectionalizers with Vipers			To Be Completed 2025	25%

Penelec Rate District				
Substation	Circuit	District	Customers	Outages
Madera	00166-22	Philipsburg	2,183	98
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	2.76	Trees Off Row-Tree	41%	Q1 2024
SAIDI	2.84	Lightning	41%	Q2 2024
SAIFI	495.42	Forced Outage	11%	Q3 2024
CAIDI	174.46	All Other	7%	Q4 2024
Customer Minutes	1,631,640			
Customers Affected	8,281			
Remedial Action Planned or Taken			Status	Progress
RC Switch inspection			Complete	May-24
Recloser inspection			Complete	Feb-24
CEMI (LTIIP)			Complete	Sep-24
On cycle tree trimming			To Be Completed 2024	78%
Substation	Circuit	District	Customers	Outages
Springboro	00237-52	Meadville	2,828	96
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	2.37	Trees Off Row-Tree	54%	Q1 2024
SAIDI	2.75	Wind	26%	Q2 2024
SAIFI	4,162.93	Animal	7%	Q3 2024
CAIDI	1,514.62	All Other	12%	Q4 2024
Customer Minutes	1,401,055			
Customers Affected	8,031			
Remedial Action Planned or Taken			Status	Progress
Repair line failure			Complete	Jan-24
Cap pole replacement deployed at seven sites			Complete	May-24
Repair damage caused by trees			Complete	Aug-24
Repair damage caused by trees			Complete	Dec-24
Substation	Circuit	District	Customers	Outages
Lake Como	00786-65	Montrose	334	16
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	2.35	Trees Off Row-Tree	82%	Q1 2024
SAIDI	29.41	Trees Off Row-Limb	13%	Q2 2024
SAIFI	14,284.19	Line Failure	4%	Q3 2024
CAIDI	485.61	All Other	1%	Q4 2024
Customer Minutes	1,390,419			
Customers Affected	918			
Remedial Action Planned or Taken			Status	Progress
Repair damage caused by trees			Complete	Mar-24
LTIIP Line rehab			To Be Completed 2025	25%

Penelec Rate District				
Substation	Circuit	District	Customers	Outages
Russell Hill	00282-65	Montrose	1,053	59
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	2.05	Trees Off Row-Tree	34%	Q1 2024
SAIDI	4.57	Vehicle	20%	Q2 2024
SAIFI	4,634.80	Equipment Failure	19%	Q3 2024
CAIDI	1,013.45	All Other	27%	Q4 2024
Customer Minutes	1,212,358			
Customers Affected	3,202			
Remedial Action Planned or Taken			Status	Progress
Repair damage caused by vehicle			Complete	Mar-24
Recloser inspection			Complete	Jan-24
LTIIIP Pole Replacement			To Be Completed 2025	25%
Substation	Circuit	District	Customers	Outages
Rockwood	00023-12	Somerset	232	12
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.82	Trees Off Row-Tree	99%	Q1 2024
SAIDI	5.38	Ice	1%	Q2 2024
SAIFI	1,379.49	Equipment Failure	0%	Q3 2024
CAIDI	256.20	All Other	0%	Q4 2024
Customer Minutes	1,075,274			
Customers Affected	1,061			
Remedial Action Planned or Taken			Status	Progress
Pole inspection			Complete	May-24
ESSS work requests			Complete	May-24
Substation	Circuit	District	Customers	Outages
Oxbow	00555-65	Montrose	752	54
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.75	Trees Off Row-Tree	33%	Q1 2024
SAIDI	4.10	Ice	19%	Q2 2024
SAIFI	623.73	Line Failure	13%	Q3 2024
CAIDI	152.13	All Other	35%	Q4 2024
Customer Minutes	1,037,374			
Customers Affected	4,049			
Remedial Action Planned or Taken			Status	Progress
Repair line failure			Complete	Feb-24
Underground conductor inspection			Complete	Jul-24
On cycle tree trimming			Complete	Sep-24

Penelec Rate District				
Substation	Circuit	District	Customers	Outages
Hooversville	00019-12	Somerset	1,650	53
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.74	Trees Off Row-Tree	60%	Q1 2024
SAIDI	3.58	Equipment Failure	30%	Q2 2024
SAIFI	1,620.00	Line Failure	5%	Q3 2024
CAIDI	452.11	All Other	5%	Q4 2024
Customer Minutes	1,029,151			
Customers Affected	6,765			
Remedial Action Planned or Taken			Status	Progress
Repair damage caused by trees			Complete	Jan-24
Repair failed equipment/line			Complete	Aug-24
Repair damage caused by trees			Complete	Sep-24
On cycle tree trimming			To Be Completed 2025	0%
Substation	Circuit	District	Customers	Outages
Natl Forge Sw Sta	00577-41	Warren	1,222	45
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.36	Equipment Failure	49%	Q1 2024
SAIDI	1.87	Trees Off Row-Tree	25%	Q2 2024
SAIFI	654.80	Trees Off Row-Limb	10%	Q3 2024
CAIDI	350.42	All Other	15%	Q4 2024
Customer Minutes	808,246			
Customers Affected	6,726			
Remedial Action Planned or Taken			Status	Progress
On cycle tree clearing			Complete	Dec-23
Repair equipment failure			Complete	Jan-24
Repair damage caused by trees			Complete	Jul-24
Repair equipment failure			Complete	Sep-24
UG circuit injection			Complete	Dec-24
Substation	Circuit	District	Customers	Outages
Lowell Avenue	00518-31	Erie	893	21
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.34	Line Failure	55%	Q1 2024
SAIDI	6.00	Trees Off Row-Tree	15%	Q2 2024
SAIFI	6,666.61	Wind	12%	Q3 2024
CAIDI	1,111.10	All Other	18%	Q4 2024
Customer Minutes	793,573			
Customers Affected	7,742			
Remedial Action Planned or Taken			Status	Progress
On cycle tree trimming			Complete	Dec-23
Repair line failure			Complete	Jan-24
Repair broken neutral			Complete	Aug-24
Remove tree and make repairs			Complete	Nov-24

Penelec Rate District				
Substation	Circuit	District	Customers	Outages
Union City	00208-43	Erie	1,614	87
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.26	Line Failure	28%	Q1 2024
SAIDI	2.43	Equipment Failure	28%	Q2 2024
SAIFI	657.35	Forced Outage	17%	Q3 2024
CAIDI	269.96	All Other	27%	Q4 2024
Customer Minutes	743,622			
Customers Affected	5,940			
Remedial Action Planned or Taken			Status	Progress
Repair line failure			Complete	Jan-24
All high CMI outages repaired			Complete	Jun-24
Repair broken pole			Complete	Jul-24
Substation	Circuit	District	Customers	Outages
Shippensburg 1	00630-83	Shippensburg	1,806	45
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.19	Equipment Failure	52%	Q1 2024
SAIDI	5.14	Line Failure	33%	Q2 2024
SAIFI	1,086.78	Ice	6%	Q3 2024
CAIDI	211.57	All Other	8%	Q4 2024
Customer Minutes	705,176			
Customers Affected	4,485			
Remedial Action Planned or Taken			Status	Progress
Repair storm damage			Complete	Feb-24
ESSS work request			Complete	May-24
Overhead circuit inspection			To Be Completed 2025	0%
UG circuit inspection			To Be Completed 2025	0%
Substation	Circuit	District	Customers	Outages
Platea	00432-34	Erie	643	67
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.18	Trees Off Row-Tree	78%	Q1 2024
SAIDI	2.31	Vehicle	7%	Q2 2024
SAIFI	304.95	Forced Outage	4%	Q3 2024
CAIDI	132.17	All Other	11%	Q4 2024
Customer Minutes	698,800			
Customers Affected	3,303			
Remedial Action Planned or Taken			Status	Progress
On cycle tree trimming			Complete	Dec-23
Repaired high side fuses			Complete	Feb-24
Pole replacement			Complete	Mar-24
Remove tree and make repairs			Complete	Dec-24

Penelec Rate District				
Substation	Circuit	District	Customers	Outages
Piney	00523-51	Oil City	1,545	56
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.03	Trees Off Row-Tree	48%	Q1 2024
SAIDI	6.01	Vehicle	11%	Q2 2024
SAIFI	3,705.52	Line Failure	9%	Q3 2024
CAIDI	616.31	All Other	32%	Q4 2024
Customer Minutes	612,057			
Customers Affected	2,813			
Remedial Action Planned or Taken			Status	Progress
Repair damage caused by trees			Complete	Feb-24
Overhead circuit inspection			Complete	Jun-24
Remote sectionalizing project deployed at one site			Complete	Jul-24
Repair damage caused by trees			Complete	Jul-24
Add SCADA device			Complete	Sep-24
TripSaver deployment at one site			Complete	Nov-24
Substation	Circuit	District	Customers	Outages
Ppl West	PL097-62	Towanda	101	15
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	0.94	Other Electric Utility	97%	Q1 2024
SAIDI	2.35	Trees Off Row-Tree	2%	Q2 2024
SAIFI	541.74	Unknown	2%	Q3 2024
CAIDI	230.93	All Other	0%	Q4 2024
Customer Minutes	559,561			
Customers Affected	1,419			
Remedial Action Planned or Taken			Status	Progress
Restore operation due to other electric utility			Complete	Mar-24
Upgrade transformer			To Be Completed 2024	50%

Penn Power Rate District				
Substation	Circuit	District	Customers	Outages
Hartstown	W-126	Clark	2,281	87
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	6.31	Trees Off Row-Tree	84%	Q1 2024
SAIDI	485.45	Trees Off Row-Limb	10%	Q2 2024
SAIFI	2.24	Animal	3%	Q3 2024
CAIDI	217	All Other	4%	Q4 2024
Customer Minutes	1,107,308			
Customers Affected	5,100			
Remedial Action Planned or Taken			Status	Progress
Replace/repair high priority items identified during circuit patrol			Complete	Apr-24
Substation	Circuit	District	Customers	Outages
Sharpsville	W-218	Clark	1,497	36
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	3.63	Trees Off Row-Tree	48%	Q1 2024
SAIDI	424.65	Vehicle	26%	Q2 2024
SAIFI	2.44	Line Failure	24%	Q3 2024
CAIDI	174	All Other	2%	Q4 2024
Customer Minutes	635,697			
Customers Affected	3,647			
Remedial Action Planned or Taken			Status	Progress
On cycle tree trimming			Complete	Jul-23
Replace/repair high priority items identified during circuit patrol			Complete	May-24

West Penn Rate District				
Substation	Circuit	District	Customers	Outages
Iron Bridge	Bridgeport	Pleasant Valley	1,284	24
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	3.53	Tree OFF Row- Tree	97%	Q1 2024
SAIDI	1,999.42	Equipment Failure	2%	Q2 2024
SAIFI	3.09	Line Failure	0%	Q3 2024
CAIDI	648	All Other	1%	Q4 2024
Customer Minutes	2,567,253			
Customers Affected	3,963			
Remedial Action Planned or Taken		Status	Progress	
On cycle tree trimming			Complete	Jul-23
Recloser Inspection - Counter faded			Complete	Sep-24
Overhead circuit inspection			To be completed 2025	0%
Substation	Circuit	District	Customers	Outages
Ethel Springs	Pandora	Latrobe	1,982	30
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.75	Trees Off Row-Tree	93%	Q1 2024
SAIDI	643.97	Equipment Failure	2%	Q2 2024
SAIFI	1.77	Line Failure	2%	Q3 2024
CAIDI	363	All Other	3%	Q4 2024
Customer Minutes	1,276,355			
Customers Affected	3,516			
Remedial Action Planned or Taken		Status	Progress	
On cycle tree trimming			Complete	Aug-24
Install Tollgrade Monitors			Complete	Aug-24
Overhead circuit inspection			To be completed 2025	0%
Hickory	Hickory	Washington Pa	951	58
Normalville	Mill Run	Pleasant Valley	576	27
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.72	Trees Off Row-Tree	81%	Q1 2024
SAIDI	2,176.31	Wind	11%	Q2 2024
SAIFI	4.07	Line Failure	5%	Q3 2024
CAIDI	535	All Other	3%	Q4 2024
Customer Minutes	1,253,557			
Customers Affected	2,343			
Remedial Action Planned or Taken		Status	Progress	
Post storm circuit patrol			Complete	Jan-24
Overhead circuit inspection			To be completed 2025	0%

West Penn Rate District				
Substation	Circuit	District	Customers	Outages
Franklin (Wpp)	South Waynesburg	Jefferson	2,061	46
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.55	Object Contact With Line	48%	Q1 2024
SAIDI	547.45	Trees Off Row-Tree	48%	Q2 2024
SAIFI	1.86	Forced Outage	1%	Q3 2024
CAIDI	294	All Other	2%	Q4 2024
Customer Minutes	1,128,304			
Customers Affected	3,840			
Remedial Action Planned or Taken		Status	Progress	
Overhead Circuit Inspection			Complete	Sep-24
Franklin SS LTIP			Complete	Sep-24
ESSS work requests			Complete	Nov-24
Substation	Circuit	District	Customers	Outages
Murrycrest	Sardis Road	Jeannette	1,488	43
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.48	Trees Off Row-Tree	91%	Q1 2024
SAIDI	723.92	Line Failure	3%	Q2 2024
SAIFI	3.31	Trees Off Row-Limb	3%	Q3 2024
CAIDI	219	All Other	3%	Q4 2024
Customer Minutes	1,077,199			
Customers Affected	4,918			
Remedial Action Planned or Taken		Status	Progress	
Overhead circuit inspection			Complete	Mar-24
ESSS Work - replace damaged arrestor and burnt wire			Complete	Sep-24
Substation	Circuit	District	Customers	Outages
Bethlen	Laughlintown	Latrobe	1,094	66
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.39	Trees Off Row-Tree	86%	Q1 2024
SAIDI	924.55	Unknown	6%	Q2 2024
SAIFI	2.88	Line Failure	4%	Q3 2024
CAIDI	321	All Other	4%	Q4 2024
Customer Minutes	1,011,459			
Customers Affected	3,152			
Remedial Action Planned or Taken		Status	Progress	
ESSS work requests			Complete	Jan-24
Forestry work			Complete	Mar-24
Line Rehab (LTIP)			Complete	Feb-24
Overhead circuit inspection			To be completed 2025	0%

West Penn Rate District				
Substation	Circuit	District	Customers	Outages
Iron Bridge	Mt Pleasant	Pleasant Valley	1,109	18
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.31	Trees Off Row-Tree	89%	Q1 2024
SAIDI	858.55	Unknown	10%	Q2 2024
SAIFI	2.10	Equipment Failure	1%	Q3 2024
CAIDI	410	All Other	1%	Q4 2024
Customer Minutes	952,137			
Customers Affected	2,324			
Remedial Action Planned or Taken			Status	Progress
Post storm circuit patrol			Complete	Jan-24
Overhead circuit inspection			Complete	Mar-24
On cycle tree trimming			Complete	Oct-24
Substation	Circuit	District	Customers	Outages
Bethelboro	Coolspring	Uniontown	1,450	32
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.27	Trees Off Row-Tree	70%	Q1 2024
SAIDI	639.12	Wind	26%	Q2 2024
SAIFI	2.34	Unknown	2%	Q3 2024
CAIDI	274	All Other	2%	Q4 2024
Customer Minutes	926,727			
Customers Affected	3,387			
Remedial Action Planned or Taken			Status	Progress
ESSS work requests			Complete	Feb-24
Substation	Circuit	District	Customers	Outages
Iron Bridge	Alverton	Pleasant Valley	696	20
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.13	Equipment Failure	48%	Q1 2024
SAIDI	1,183.34	Trees Off Row-Tree	25%	Q2 2024
SAIFI	2.26	Line Failure	25%	Q3 2024
CAIDI	523	All Other	3%	Q4 2024
Customer Minutes	823,608			
Customers Affected	1,576			
Remedial Action Planned or Taken			Status	Progress
On cycle tree trimming			Complete	Oct-24
Overhead circuit inspection			To Be Completed 2025	0%

West Penn Rate District				
Substation	Circuit	District	Customers	Outages
Rutan	Bristoria	Jefferson	407	25
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.10	Trees Off Row-Tree	75%	Q1 2024
SAIDI	1,970.08	Equipment Failure	13%	Q2 2024
SAIFI	4.90	Line Failure	6%	Q3 2024
CAIDI	402	All Other	6%	Q4 2024
Customer Minutes	801,821			
Customers Affected	1,993			
Remedial Action Planned or Taken			Status	Progress
Overhead circuit inspection			To Be Completed 2025	0%
Substation	Circuit	District	Customers	Outages
Waterville	Waterville	State College	363	20
Reliability		Outage by Cause		Previously Ranked
SAIDI Impact	1.04	Wind	49%	Q1 2024
SAIDI	2,081.37	Trees Off Row-Tree	37%	Q2 2024
SAIFI	5.66	Unknown	7%	Q3 2024
CAIDI	367	All Other	7%	Q4 2024
Customer Minutes	755,537			
Customers Affected	2,056			
Remedial Action Planned or Taken			Status	Progress
Underground inspection			Complete	Feb-24
Restore outage caused by other electric utility			Complete	Jan-24
Restore outage caused by other electric utility			Complete	Apr-24
Restore outage caused by other electric utility			Complete	Aug-24
Mid-cycle overhead inspection			Complete	Aug-24
On cycle tree trimming			To Be Completed 2025	0%

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

2024 Annual Reliability Report – :
FirstEnergy Pennsylvania Electric :
Company on behalf of Metropolitan Edison : **Docket No. M-2023-3039027**
Company, Pennsylvania Electric Company, :
Pennsylvania Power Company and West :
Penn Power Company :

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true and correct copy of the foregoing document upon the individuals listed below, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a participant).

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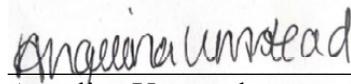
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Dated: April 30, 2025



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Penn