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April 30, 2024

M-2023-3039027- jbs

**VIA ELECTRONIC FILING**Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building  
400 North Street, 2<sup>nd</sup> Floor  
Harrisburg, PA 17120**Re: Joint 2023 Annual Reliability Report - FirstEnergy Pennsylvania Electric Company on behalf of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company  
Docket No. ~~M-2016-2522508~~**

Dear Secretary Chiavetta,

Pursuant to 52 Pa. Code § 57.195(a) and (b), enclosed for filing is the Joint 2023 Annual Reliability Report (“Joint Report”) of FirstEnergy Pennsylvania Electric Company (“FE PA”) on behalf of Metropolitan Edison Company (predecessor company to Met-Ed Rate District or “Met-Ed”), Pennsylvania Electric Company (predecessor company to Penelec Rate District or “Penelec”), Pennsylvania Power Company (predecessor company to Penn Power Rate District or “Penn Power”) and West Penn Power Company (predecessor company to West Penn Rate District or “West Penn”).<sup>1</sup>

Please contact me if you have any questions.

Sincerely,



Darsh Singh

DS/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)  
Harry Bidelspach – PaPUC Bureau of Technical Utility Services (via electronic mail)

<sup>1</sup> 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).

**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Joint 2023 Annual Reliability Report –** :  
**FirstEnergy Pennsylvania Electric** :  
**Company on behalf of Metropolitan Edison** : **Docket No. M-2016-2522508**  
**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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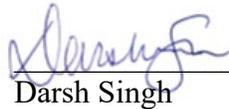
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Dated: April 30, 2024



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behalf of Metropolitan Edison Company,  
Pennsylvania Electric Company, Pennsylvania  
Power Company and West Penn Power Company

**Met-Ed**  
A FirstEnergy Company

**Penelec**  
A FirstEnergy Company

**PennPower**  
A FirstEnergy Company

**WestPenn  
Power**  
A FirstEnergy Company



## Joint 2023 Annual Reliability Report

FirstEnergy Pennsylvania Electric Company on behalf of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company

Pursuant to 52 Pa. Code § 57.195(a) and (b)

**Joint 2023 Annual Reliability Report**  
**FirstEnergy Pennsylvania Electric Company on behalf of**  
**Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power**  
**Company and West Penn Power Company**  
**Pursuant to 52 Pa. Code Chapter § 57.195(a) and (b)**

The following Joint 2023 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 Metropolitan Edison Company (predecessor company to Met-Ed Rate District or “Met-Ed”), Pennsylvania Electric Company (predecessor company to Penelec Rate District or “Penelec”), Pennsylvania Power Company (predecessor company to Penn Power Rate District or “Penn Power”) and West Penn Power Company (predecessor company to West Penn Rate District or “West Penn”) (collectively, the “Predecessor Companies”).<sup>1</sup>

**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 2023, the Predecessor Companies were able to maintain a focus on safe and reliable electric service. A large portion of non-physical workers were able to work remotely using technology to perform their responsibilities safely. From the physical field employees up to and including top management, the Predecessor Companies were committed to operating their distribution systems in a manner that results 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 Predecessor Companies’ 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”)

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<sup>1</sup> 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).

- The Distribution Inspection & Maintenance Practices<sup>2</sup> 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 provides increased accuracy, when compared to manual drilling, in measuring the relative density 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.
- 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.

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<sup>2</sup> Pursuant to 52 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 Predecessor Companies submitted their revised Biennial Inspection, Maintenance, Repair and Replacement Plans for the period January 1, 2023 through December 31, 2024 on April 28, 2023 which were deemed approved on July 17, 2023 pursuant to 52 Pa. Code § 57.198(i).

- 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 Predecessor Companies first began to execute their respective 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 January 2020, the Commission approved the Predecessor Companies’ respective second LTIIIP (“LTIIIP II”). LTIIIP II, which spans the five-year period of 2020 through 2024, 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 II includes initiatives and expenditures within these two focus areas that are designed to maximize sustained reliability over the long-term. The LTIIIP III program will be filed in 2024.

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) 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 is beginning to utilize a more formalized 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, the Institute of Electrical and Electronics Engineers, and the Energy Association of Pennsylvania, which focus on topics like 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 2023, the Predecessor Companies 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,<sup>3</sup> 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.

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<sup>3</sup> 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 4<sup>th</sup> Quarter 2023 Joint Reliability Report, shows that four of twelve reliability indices in 2023 were at or better than the Commission’s twelve-month standards with one of the indices being better than benchmark.

2023 (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
<b>SAIFI</b>	1.15	1.38	1.27	1.26	1.52	1.60	1.12	1.34	0.78	1.05	1.26	1.07
<b>CAIDI</b>	117	140	201.66	117	141	189.20	101	121	156.51	170	204	266.17
<b>SAIDI</b>	135	194	256.86	148	213	303.32	113	162	121.31	179	257	285.16
<b>MAIFI<sup>4</sup></b>			0.301			0.488			0.018			
<b>Customers Served<sup>5</sup></b>	580,873			585,139			171,259			727,499		
<b>Number of Sustained Interruptions</b>	13,335			15,467			3,052			13,571		
<b>Customers Affected</b>	739,898			938,093			132,740			779,396		
<b>Customer Minutes</b>	149,205,685			177,485,102			20,774,644			207,454,636		
<b>Number of Customer Momentary Interruptions</b>	174,579			285,311			3,152					

<sup>4</sup> MAIFI values are not available for West Penn.

<sup>5</sup> 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.*<sup>6</sup>

*Major Events*

Predecessor Company	Customers Affected	Time and Duration of the Event		Cause of the Event	Commission Approval Status
West Penn	17,626	Duration	97 hours 47 minutes	Winter Storm Quest	Approved May 8, 2023
		State Date/Time	March 3 2023 1701		
		End Date/Time	March 7, 2023 1848		
Penn Power	59,706	Duration	117 hours 6 minutes	Wind and Rain Storm	Approved May 8, 2023
		Start Date/Time	March 25, 2023 0624		
		End Date/Time	March 30, 2023 1731		
Penelec	126,310	Duration	116 hours, 45 minutes	High Wind Storm	Approved June 14, 2023
		Start Date/Time	April 1, 2023 0159		
		End Date/Time	April 5, 2023 2244		
West Penn	111,285	Duration	92 hours, 9 minutes	Wind Storm	Approved <sup>7</sup> January 24, 2024
		Start Date/Time	April 1, 2023 1136		
		End Date/Time	April 5, 2023 0745		
Penn Power	49,977	Duration	123 hours, 31 minutes	Wind Storm	Approved June 14, 2023
		Start Date/Time	April 1, 2023 1132		
		End Date/Time	April 6, 2023 1503		
Met-Ed	69,436	Duration	119 hours 54 minutes	Thunderstorm Tornado Event	Approved October 16, 2023
		Start Date/Time	August 7, 2023 1652		
		End Date/Time	August 12, 2023 1646		

<sup>6</sup> 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.

<sup>7</sup> West Penn’s major event report was initially approved on June 15, 2023. The report was refiled with additional details and approved on January 24, 2024.

**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*

<b>Historic 12-Month Rolling Reliability Indices</b>				
	<b>Index</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>
<b><i>Met-Ed</i></b>	SAIFI	1.35	1.32	1.27
	CAIDI	173	160.08	201.66
	SAIDI	233	211.44	256.86
	MAIFI	0.67	0.67	0.301
	Customer Minutes	133,405,906	121,767,029	149,205,685
	Customers Affected	772,644	760,672	739,898
	Minutes of Interruption	4,541,905	4,449,680	4,801,821
	Customers Served <sup>8</sup>	580,180	575,899	580,873
<b><i>Penelec</i></b>	SAIFI	1.84	1.83	1.60
	CAIDI	151	198.60	189.20
	SAIDI	277	364.24	303.32
	MAIFI	0.547	0.547	0.488
	Customer Minutes	160,524,900	211,092,054	177,485,102
	Customers Affected	1,065,004	1,062,923	938,093
	Minutes of Interruption	5,118,308	6,604,853	4,816,388
	Customers Served <sup>7</sup>	580,180	579,537	585,139
<b><i>Penn Power</i></b>	SAIFI	1.00	0.99	0.78
	CAIDI	129	133.63	156.51
	SAIDI	129	132.94	121.31
	MAIFI	0.013	0.013	0.018
	Customer Minutes	21,565,551	22,283,199	20,774,644
	Customers Affected	166,681	166,749	132,740
	Minutes of Interruption	1,011,334	849,728	929,286
	Customers Served <sup>7</sup>	166,590	167,618	171,259

<sup>8</sup> Represents the average number of customers served during the reporting period.

<b>Historic 12-Month Rolling Reliability Indices</b>				
	<b>Index</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>
<b>West Penn</b>	SAIFI	1.26	1.32	1.07
	CAIDI	192	204	266.17
	SAIDI	242	276.02	364.36
	Customer Minutes	174,483,152	264,310,751	207,454,636
	Customers Affected	910,590	957,562	779,396
	Minutes of Interruption	4,909,228	7,625,795	5,702,377
	Customers Served	722,422	725,417	727,499

See tables below for the three-year standard results:

<b>Three-Year Rolling Year-End 2023</b>	<b>Met-Ed</b>		<b>Penelec</b>	
	Three-Year Standard	Three-Year Actual	Three-Year Standard	Three-Year Actual
<b>SAIFI</b>	1.27	1.31	1.39	1.76
<b>CAIDI</b>	129	178	129	180
<b>SAIDI</b>	163	234	179	315

<b>Three-Year Rolling Year-End 2023</b>	<b>Penn Power</b>		<b>West Penn</b>	
	Three-Year Standard	Three-Year Actual	Three-Year Standard	Three-Year Actual
<b>SAIFI</b>	1.23	0.92	1.16	1.22
<b>CAIDI</b>	111	140	187	245
<b>SAIDI</b>	136	128	217	297

**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

Outage by Cause				
2023 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees Off Row-Tree	63,609,451	2,944	191,181	42.63%
Equipment Failure	21,633,943	2,339	109,688	14.50%
Trees Off Row-Limb	15,339,338	1,138	49,230	10.28%
Unknown	10,506,267	1,527	80,069	7.04%
Forced Outage	10,339,195	753	122,869	6.93%
Vehicle	7,553,125	430	51,565	5.06%
Line Failure	4,832,076	582	20,766	3.24%
Lightning	3,369,411	262	12,812	2.26%
Animal	2,913,810	1,692	32,300	1.95%
Human Error - Company	1,961,375	63	31,725	1.31%
Wind	1,855,344	89	4,409	1.24%
Trees On Row	1,643,027	150	5,773	1.10%
Trees - Sec/Service	960,205	469	1,978	0.64%
Human Error -Non-Company	802,283	69	4,527	0.54%
Bird	454,576	638	7,277	0.30%
Fire	449,815	11	1,165	0.30%
Object Contact With Line	415,652	46	4,840	0.28%
Ug Dig-Up	190,657	35	539	0.13%
Previous Lightning	160,342	14	566	0.11%
Overload	124,571	50	1,567	0.08%
Customer Equipment	61,936	23	3,983	0.04%
Switching Error	18,281	3	927	0.01%
Other Utility-Non Elec	8,425	2	122	0.01%
Other Electric Utility	2,480	5	18	0.00%
Ice	100	1	2	0.00%
Vandalism	0	0	0	0.00%
Contamination	0	0	0	0.00%
Call Error	0	0	0	0.00%
<b>Total</b>	<b>149,205,685</b>	<b>13,335</b>	<b>739,898</b>	<b>100%</b>

## Proposed Solutions – Met-Ed

Met-Ed 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, 2023, and associated actions designed to address these outage causes.

To address outages caused by trees, Met-Ed performs cycle-based tree trimming which removes selected incompatible trees within the clearing zone corridor, removes certain defective limbs that are overhanging primary conductors, controls selected incompatible brush, and removes targeted off-ROW priority trees. Met-Ed is limited in its ability to legally address off-right-of-way (“ROW”) vegetation management. However, Met-Ed identifies off-ROW priority trees for removal that are dead, dying, diseased, leaning, and significantly encroaching the corridor when customer consent is obtained or easement rights permit. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to Met-Ed’s customers. Met-Ed continues its program to mitigate trees subject to damage from the Emerald Ash Borer.

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.

Outages by Cause – Penelec

<b>Outage by Cause</b>				
<b>2023 12-Month Rolling</b>	<b>Penelec</b>			
<b>Cause</b>	<b>Customer Minutes</b>	<b>Number of Sustained Interruptions</b>	<b>Customers Affected</b>	<b>% Based on Customer Minutes</b>
Trees off ROW - Tree	67,142,870	2,914	237,705	37.83%
Equipment Failure	29,098,044	2,599	197,118	16.39%
Wind	18,953,830	171	26,453	10.68%
Line Failure	12,886,395	1,751	88,822	7.26%
Unknown	10,235,518	2,101	92,989	5.77%
Forced Outage	9,088,004	1,200	83,443	5.12%
Trees Off Row-Limb	7,455,694	563	31,473	4.20%
Vehicle	5,540,896	435	53,173	3.12%
Lightning	4,826,212	479	29,590	2.72%
Animal	4,228,773	1,453	37,597	2.38%
Ice	2,206,979	58	7,782	1.24%
Bird	1,277,866	442	12,905	0.72%
Human Error -Non-Company	926,593	78	8,283	0.52%
Trees - Sec/Service	843,336	724	2,487	0.48%
Other Electric Utility	839,510	98	2,792	0.47%
Trees On Row	393,821	64	963	0.22%
Human Error - Company	389,859	73	14,257	0.22%
Overload	246,923	12	2,327	0.14%
Object Contact With Line	207,045	47	590	0.12%
Vandalism	196,354	31	3,821	0.11%
Fire	189,172	21	1,050	0.11%
Ug Dig-Up	178,742	71	771	0.10%
Customer Equipment	38,847	13	361	0.02%
Other Utility-Non Elec	36,478	5	112	0.02%
Switching Error	33,696	3	992	0.02%
Contamination	14,573	40	168	0.01%
Previous Lightning	8,951	20	68	0.01%
Call Error	121	1	1	0.00%
<b>Total</b>	<b>177,485,102</b>	<b>15,467</b>	<b>938,093</b>	<b>100%</b>

## Proposed Solutions – Penelec

Penelec 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, 2023, and the associated actions designed to address these outage causes.

To address outages caused by trees, Penelec performs cycle-based tree trimming which removes selected incompatible trees within the clearing zone corridor, removes certain defective limbs that are overhanging primary conductors, controls selected incompatible brush, and removes targeted off-ROW priority trees. Penelec is limited in its ability to legally address off-right-of-way (“ROW”) vegetation management. However, Penelec identifies off-ROW priority trees for removal that are dead, dying, diseased, leaning, and significantly encroaching the corridor when customer consent is obtained or easement rights permit. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to Penelec’s customers. Penelec continues its program to mitigate trees subject to damage from the Emerald Ash Borer.

To reduce the likelihood of outages caused by equipment and line failure, Penelec 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.

Outages by Cause – Penn Power

<b>Outage by Cause</b>				
<b>2023 12-Month Rolling</b>	<b>Penn Power</b>			
<b>Cause</b>	<b>Customer Minutes</b>	<b>Number of Sustained Interruptions</b>	<b>Customers Affected</b>	<b>% Based on Customer Minutes</b>
Trees Off Row-Tree	8,907,378	642	23,629	42.88%
Equipment Failure	2,988,340	307	29,607	14.38%
Trees Off Row-Limb	2,304,846	297	17,351	11.09%
Line Failure	1,382,790	341	7,868	6.66%
Vehicle	1,345,258	110	11,074	6.48%
Unknown	1,056,477	164	12,845	5.09%
Lightning	806,751	146	5,047	3.88%
Animal	631,958	354	8,121	3.04%
Forced Outage	531,089	87	11,539	2.56%
Bird	331,589	421	3,492	1.60%
Trees - Sec/Service	176,385	104	295	0.85%
Call Error	100,289	2	371	0.48%
Ug Dig-Up	53,977	33	596	0.26%
Wind	47,382	5	11	0.23%
Overload	35,095	5	524	0.17%
Trees On Row	33,137	6	137	0.16%
Human Error -Non-Company	18,984	13	87	0.09%
Other Electric Utility	15,470	1	70	0.07%
Fire	3,240	2	20	0.02%
Object Contact With Line	2,794	3	47	0.01%
Previous Lightning	545	4	4	0.00%
Human Error - Company	443	1	1	0.00%
Customer Equipment	427	4	4	0.00%
Ice	0	0	0	0.00%
Vandalism	0	0	0	0.00%
Other Utility-Non Elec	0	0	0	0.00%
Switching Error	0	0	0	0.00%
Contamination	0	0	0	0.00%
<b>Total</b>	<b>20,774,644</b>	<b>3,052</b>	<b>132,740</b>	<b>100%</b>

### Proposed Solutions – Penn Power

Penn Power 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, 2023 and the associated actions designed to address these outage causes.

To address outages caused by trees, Penn Power performs cycle-based tree trimming which removes selected incompatible trees within the clearing zone corridor, removes certain defective limbs that are overhanging primary conductors, controls selected incompatible brush, and removes targeted off-ROW priority trees. Penn Power is limited in its ability to legally address off-right-of-way (“ROW”) vegetation management. However, Penn Power identifies off-ROW priority trees for removal that are dead, dying, diseased, leaning, and significantly encroaching the corridor when customer consent is obtained or easement rights permit. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to Penn Power’s customers. Penn Power continues its program to mitigate trees subject to damage from the Emerald Ash Borer.

To reduce the likelihood of outages caused by equipment and line failure outages, Penn Power 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.

Outages by Cause – West Penn

<b>Outage by Cause</b>				
<b>2023 12-Month Rolling</b>	<b>West Penn</b>			
<b>Cause</b>	<b>Customer Minutes</b>	<b>Number of Sustained Interruptions</b>	<b>Customers Affected</b>	<b>% Based on Customer Minutes</b>
Tree Off Row-Tree	115,881,751	3,865	228,229	55.86%
Line Failure	18,155,150	1,703	82,818	8.75%
Unknown	17,667,208	1,411	106,361	8.52%
Equipment Failure	13,399,726	1,735	89,735	6.46%
Vehicle	11,683,865	537	64,898	5.63%
Forced Outage	8,415,483	989	97,424	4.06%
Trees Off Row-Limb	7,944,679	517	34,039	3.83%
Wind	4,622,665	190	12,384	2.23%
Animal	2,663,202	1,316	22,317	1.28%
Lightning	1,501,825	156	7,670	0.72%
Bird	1,194,112	436	11,755	0.58%
Trees On Row	1,096,665	134	2,799	0.53%
Human Error -Non-Company	890,584	66	6,184	0.43%
Other Electric Utility	760,373	8	1,482	0.37%
Object Contact With Line	477,610	45	4,136	0.23%
Trees - Sec/Service	381,559	332	834	0.18%
Fire	282,821	18	1,624	0.14%
Ug Dig-Up	253,492	63	752	0.12%
Human Error - Company	107,052	25	3,778	0.05%
Overload	54,520	9	106	0.03%
Other Utility-Non Elec	12,378	6	39	0.01%
Vandalism	5,305	4	12	0.00%
Customer Equipment	1,852	5	17	0.00%
Previous Lightning	759	1	3	0.00%
Ice	0	0	0	0.00%
Vandalism	0	0	0	0.00%
Call Error	0	0	0	0.00%
Contamination	0	0	0	0.00%
<b>Total</b>	<b>207,454,636</b>	<b>13,571</b>	<b>779,396</b>	<b>100%</b>

## Proposed Solutions – West Penn

West Penn 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, 2023, and the associated actions designed to address these outage causes.

To address outages caused by trees, West Penn performs cycle-based tree trimming which removes selected incompatible trees within the clearing zone corridor, removes certain defective limbs that are overhanging primary conductors, controls selected incompatible brush, and removes off-ROW priority trees. West Penn is legally limited in its ability to address all forms of off-ROW tree management. However, West Penn is legally permitted to identify priority off-ROW trees that are dead, dying, diseased, leaning, and significantly encroaching the corridor and remove those trees when customer consent is obtained or easement rights permit. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to West Penn's customers. West Penn continues its program to mitigate trees subject to damage from the Emerald Ash Borer.

To reduce the likelihood of equipment and line failures, West Penn 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.

**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

Met-Ed, Penelec, Penn Power, and West Penn’s 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	
2023		Planned	Completed	Planned	Completed	Planned	Completed	Planned	Completed
Forestry	Transmission (Miles)	283	283	372	372	78	78	533	533
	Distribution (Miles) <sup>9</sup>	2,605	2,410	3,438	2,972	1,121	1,025	4,203	3,984
Transmission	Aerial Patrols	2	2	2	2	2	2	2	2
	Groundline	1,938	2,164	2,398	3,010	0	0	1,591	2,021
Substation	Substation Inspections Class A	418	418	780	780	148	148	936	936
	Substation Inspections Class B	418	418	780	780	148	148	936	936
	Substation Inspections Class C	1,672	1,672	3,120	3,120	592	592	3,744	3,740 <sup>10</sup>
	Transformers	157	157	432	432	11	11	382	382
	Breakers	63	63	366	361 <sup>11</sup>	7	7	387	387
	Relay Schemes	138	138	276	276	22	22	159	159
Distribution	Capacitors	4,864	4,864	8,646	8,647	318	318	1,310	1,310
	Poles	49,000	49,000	41,590	42,710	9,687	9,690	53,746	53,746
	Reclosers	1,526	3,554	2,607	2,607	1,073	1,073	4,128	4,128
	Radio-Controlled Switches	1,566	1,576	2,628	2,656	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.

<sup>9</sup> Vegetation management commitments were not met at 2023 year-end due to budgetary deferrals associated with increased storms and abnormal weather. All deferred work has been completed as of the date of filing, except one property, a formal PA PUC complaint and prior informal PA PUC complaint, accounting for 0.01 miles.

<sup>10</sup> West Penn records reflect that 3740 inspections were completed.

<sup>11</sup> The five additional Penelec Substation breakers will be completed in 2024.

**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*

<b>Met-Ed T&amp;D O&amp;M - 2023 (\$)</b>					
<b>Transmission</b>					
<b>Category</b>		<b>2023 Actuals</b>	<b>2023 Budget</b>	<b>Variance %</b>	<b>Notes</b>
560	Operation Supervision and Engineering	\$0	\$0	100%	
561	Load Dispatching	\$18,238	\$18,228	0%	
562	Station Expenses	\$6,877	\$4,255	61.63%	1
563	Overhead Lines Expenses	\$48,054	\$43,581	10.26%	2
565	Transmission of Electricity by Others	\$12,144,951	\$11,930,368	2%	
566	Miscellaneous Transmission Expenses	-\$7,100	-\$49,026	-85.52%	3
567	Rents	\$0	\$0	100%	
568	Maintenance Supervision and Engineering	\$10,623	\$0	100%	4
569	Maintenance of Structures	\$4,276	\$0	100%	5
570	Maintenance of Station Equipment	\$351,782	\$308,990	14%	6
571	Maintenance of Overhead Lines	\$159,864	-\$30,323	-627.21%	6
572	Transmission-Maintenance of Underground Lines	\$0	\$0	100%	
573	Maintenance of Miscellaneous Transmission Plant	\$0	\$0	100%	
575	Market Administration, Monitoring & Compliance Services	\$0	\$0	100%	
<b>Transmission Total</b>		<b>\$12,737,566</b>	<b>\$12,226,074</b>		
<b>Distribution</b>					
<b>Category</b>		<b>2023 Actuals</b>	<b>2023 Budget</b>	<b>Variance %</b>	<b>Notes</b>
580	Operation Supervision and Engineering	\$1,549,837	\$1,342,390	15%	7
581	Load Dispatching	\$237,069	\$307,177	-23%	8
582	Station Expenses	\$745,725	\$675,233	10%	9
583	Overhead Line Expenses	\$482,297	\$594,649	-19%	10
584	Underground Line Expenses	\$1,500	\$0	100%	11
586	Meter Expenses	\$713,506	\$635,231	12%	12
587	Customer Installations Expenses	\$0	\$0	100%	
588	Miscellaneous Distribution Expenses	\$11,197,675	\$11,113,201	1%	
589	Rents	\$531,865	\$497,655	7%	
590	Maintenance Supervision and Engineering	\$703,468	\$526,105	34%	13
591	Maintenance of Structures	\$11	\$2,475	-100%	8
592	Maintenance of Station Equipment	\$5,273,000	\$5,423,142	-3%	
593	Maintenance of Overhead Lines	\$57,799,566	\$56,321,346	3%	
594	Maintenance of Underground Lines	\$2,442,814	\$2,699,020	-9%	
595	Maintenance of Line Transformer	\$182,335	\$10,569	1625%	12
596	Maintenance of Street Lighting and Signal Systems	\$1,130,777	\$433,434	161%	13
597	Maintenance of Meters	\$1,999,583	\$1,950,075	3%	
598	Maintenance of Miscellaneous Distribution Plant	\$843,848	\$1,115,525	-24%	14
<b>Distribution Total</b>		<b>\$85,834,874</b>	<b>\$83,647,227</b>		
<b>Met-Ed Total</b>		<b>\$98,572,440</b>	<b>\$95,873,301</b>		

<b>Variance Explanations (Variances 10% or greater)</b>	
1	Over budget due to telecommunication repairs being greater than planned.
2	Over budget due to rental/leasing fees for right-of-ways being greater than planned.
3	Over budget due to internal labor and benefits being less than planned.
4	Over budget due to environmental permits (hazardous materials registration) and labor being greater than planned.
5	Over budget due to communication equipment for monitoring purposes being greater than planned.
6	Over budget due to internal labor being greater than planned.
7	Over budget due to contractor costs, telecommunication costs, and internal labor being greater than planned.
8	Under budget due to internal labor being less than planned.
9	Over budget due to station maintenance expense for vegetation management being greater than planned.
10	Under budget due to telecommunication costs and internal labor being less than planned.
11	Over budget due to contractor costs.
12	Over budget due to internal labor and materials costs being greater than planned.
13	Over budget due to internal labor and contractor costs being greater than planned.
14	Under budget due to contractor, labor, and material costs being less than planned.

<b>Penelec T&amp;D O&amp;M - 2023 (\$)</b>					
<b>Transmission</b>					
<b>Category</b>		<b>2023 Actuals</b>	<b>2023 Budget</b>	<b>Variance %</b>	<b>Notes</b>
560	Operation Supervision and Engineering	\$0	\$0	100%	
561	Load Dispatching	(\$4,424)	\$60,507	-107%	1
562	Station Expenses	\$31,010	(\$27,357)	-213%	2
563	Overhead Lines Expenses	\$66,135	(\$26,983)	-345%	3
564	Transmission-Underground Line Expenses	\$335	\$0	100%	
565	Transmission of Electricity by Others	\$47,181,251	\$49,404,011	-4%	
566	Miscellaneous Transmission Expenses	(\$2,294)	\$0	100%	1
567	Rents	\$0	\$0	100%	
568	Maintenance Supervision and Engineering	\$8,468	(\$1)	-1597862%	2
569	Maintenance of Structures	\$0	\$0	100%	
570	Maintenance of Station Equipment	\$308,838	\$0	100%	2
571	Maintenance of Overhead Lines	\$291,664	(\$33,325)	-975%	2
572	Transmission-Maintenance of Underground Lines	\$0	\$0	100%	
573	Maintenance of Miscellaneous Transmission Plant	\$99	\$0	100%	
575	Market Administration, Monitoring & Compliance Services	\$0	\$0	100%	
<b>Transmission Total</b>		<b>\$47,881,081</b>	<b>\$49,376,852</b>		
<b>Distribution</b>					
<b>Category</b>		<b>2023 Actuals</b>	<b>2023 Budget</b>	<b>Variance %</b>	<b>Notes</b>
580	Operation Supervision and Engineering	\$1,356,364	\$1,726,824	-21%	4
581	Load Dispatching	\$460,959	\$331,654	39%	2
582	Station Expenses	\$936,306	\$0	100%	5
583	Overhead Line Expenses	\$251,931	\$377,810	-33%	1
584	Underground Line Expenses	\$1,332,392	\$1,215,000	10%	6
586	Meter Expenses	\$1,122,080	\$961,647	17%	7
587	Customer Installations Expenses	\$0	\$0	100%	
588	Miscellaneous Distribution Expenses	\$14,411,282	\$13,441,323	7%	
589	Rents	\$2,419,413	\$2,485,642	-3%	
590	Maintenance Supervision and Engineering	\$884,211	\$578,298	53%	8
591	Maintenance of Structures	\$0	\$0	100%	
592	Maintenance of Station Equipment	\$6,958,194	\$7,330,556	-5%	
593	Maintenance of Overhead Lines	\$55,357,519	\$53,237,238	4%	
594	Maintenance of Underground Lines	\$1,297,582	\$1,126,375	15%	2
595	Maintenance of Line Transformer	\$159,307	\$0	100%	7
596	Maintenance of Street Lighting and Signal Systems	\$1,989,456	\$1,435,037	39%	9
597	Maintenance of Meters	\$2,959,995	\$3,563,459	-17%	10
598	Maintenance of Miscellaneous Distribution Plant	\$535,595	(\$142,150)	-477%	11
<b>Distribution Total</b>		<b>\$92,432,586</b>	<b>\$87,688,714</b>		
<b>Penelec Total</b>		<b>\$140,313,667</b>	<b>\$137,045,565</b>		

<b>Variance Explanations (Variances 10% or greater)</b>	
1	Under budget due to labor requirements being less 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	Under budget due to license, permits, and regulations being less than planned.
5	Over budget due to contractors and labor requirements being greater than planned.
6	Over budget due to transformer maintenance being greater than planned.
7	Over budget due to materials and labor requirements being greater than planned.
8	Over budget due to Outside Services/Contractors being greater than planned.
9	Over budget due to transportation requirements being greater than planned.
10	Under budget due to fleet costs and labor costs being less than planned.
11	Over budget due to materials and supplies being greater than planned.

<b>Penn Power T&amp;D O&amp;M - 2023 (\$)</b>					
<b>Transmission</b>					
<b>Category</b>		<b>2023 Actuals</b>	<b>2023 Budget</b>	<b>Variance %</b>	<b>Notes</b>
560	Operation Supervision and Engineering	\$1,320	\$2,863	-54%	1
561	Load Dispatching	\$11,630	\$12,758	-9%	
562	Station Expenses	\$1,957	\$0	100%	2
563	Overhead Lines Expenses	\$975	\$0	100%	
565	Transmission of Electricity by Others	\$4,561,059	\$5,006,315	-9%	
566	Miscellaneous Transmission Expenses	(\$434)	\$0	100%	
567	Rents	\$0	\$0	100%	
568	Maintenance Supervision and Engineering	\$25,718	\$23,587	9%	
569	Maintenance of Structures	\$44,205	\$14,078	214%	3
570	Maintenance of Station Equipment	\$39,048	\$3,047	1181%	4
571	Maintenance of Overhead Lines	\$37,314	(\$17,958)	-308%	5
572	Transmission-Maintenance of Underground Lines	\$0	\$0	100%	
573	Maintenance of Miscellaneous Transmission Plant	\$3,729	\$0	100%	1
575	Market Administration, Monitoring & Compliance Services	\$0	\$0	100%	
<b>Transmission Total</b>		<b>\$4,726,521</b>	<b>\$5,044,691</b>		
<b>Distribution</b>					
<b>Category</b>		<b>2023 Actuals</b>	<b>2023 Budget</b>	<b>Variance %</b>	<b>Notes</b>
580	Operation Supervision and Engineering	\$316,523	\$799,393	-60%	6
581	Load Dispatching	\$0	\$0	100%	
582	Station Expenses	\$219,053	\$60,000	265%	7
583	Overhead Line Expenses	\$86,757	\$133,838	-35%	1
584	Underground Line Expenses	(\$713,941)	\$957,506	-175%	6
586	Meter Expenses	\$73,270	\$57,074	28%	1
587	Customer Installations Expenses	\$0	\$0	100%	
588	Miscellaneous Distribution Expenses	\$1,331,009	\$1,393,312	-4%	
589	Rents	\$46,780	\$37,425	25%	7
590	Maintenance Supervision and Engineering	\$197,296	\$149,963	32%	8
591	Maintenance of Structures	\$0	\$0	100%	
592	Maintenance of Station Equipment	\$934,263	\$919,918	2%	
593	Maintenance of Overhead Lines	\$30,327,901	\$17,089,280	77%	9
594	Maintenance of Underground Lines	\$353,614	\$287,650	23%	1
595	Maintenance of Line Transformer	\$23,394	\$0	100%	1
596	Maintenance of Street Lighting and Signal Systems	\$125,852	\$49,995	152%	4
597	Maintenance of Meters	\$692,901	\$563,288	23%	10
598	Maintenance of Miscellaneous Distribution Plant	\$579,506	\$80,468	620%	11
<b>Distribution Total</b>		<b>\$34,594,178</b>	<b>\$22,579,111</b>		
<b>Penn Power Total</b>		<b>\$39,320,699</b>	<b>\$27,623,802</b>		

<b>Variance Explanations (Variances 10% or greater)</b>	
1	Over budget due to labor requirements being greater than planned.
2	Over budget due to telecommunication equipment and service expense being greater than planned.
3	Over budget due to labor requirements and utilities being greater than planned.
4	Over budget due to labor requirements and transportation expenses being greater than planned.
5	Over budget due to labor requirements and lease expense being greater than planned.
6	Under budget due to contractor costs being less than planned.
7	Over budget due to labor requirements and contractor costs being greater than planned.
8	Over budget due to contractor costs being greater than planned.
9	Over budget due to labor requirements, contractor costs, and transportation expenses being greater than planned.
10	Over budget due to labor requirements, materials, supplies, and contractor costs being greater than planned.
11	Over budget due to labor requirements, materials, supplies, utilities, and contractor costs being greater than planned.

West Penn T&D O&M - 2023 (\$)					
Transmission					
Category		2023 Actuals	2023 Budget	Variance %	Notes
560	Operation Supervision and Engineering	\$199,617	\$158,192	26%	1
561	Load Dispatching	\$1,138,240	\$1,116,432	2%	
562	Station Expenses	\$381,578	\$136,412	180%	2
563	Overhead Lines Expenses	\$589,562	\$81,000	628%	3
565	Transmission of Electricity by Others	\$64,689,192	\$74,161,837	-13%	4
566	Miscellaneous Transmission Expenses	\$1,316,028	\$409,958	221%	5
567	Rents	\$619,419	\$957,820	-35%	6
568	Maintenance Supervision and Engineering	\$5,232,587	\$790,538	562%	7
569	Maintenance of Structures	\$53,132	\$12,584	322%	8
570	Maintenance of Station Equipment	\$2,864,306	\$4,205,302	-32%	9
571	Maintenance of Overhead Lines	\$16,321,835	\$20,023,908	-18%	10
572	Transmission-Maintenance of Underground Lines	\$506	\$0	100%	
573	Maintenance of Miscellaneous Transmission Plant	\$775,997	\$373,340	108%	10
575	Market Administration, Monitoring & Compliance Services	\$2,935	\$0	100%	11
<b>Transmission Total</b>		<b>\$94,184,936</b>	<b>\$102,427,323</b>		
Distribution					
Category		2023 Actuals	2023 Budget	Variance %	Notes
580	Operation Supervision and Engineering	\$2,014,897	\$1,519,145	33%	12
581	Load Dispatching	\$246,374	\$660,155	-63%	13
582	Station Expenses	\$1,746,145	\$1,011,129	73%	14
583	Overhead Line Expenses	\$154,154	\$1,736,783	-91%	13
584	Underground Line Expenses	\$2,061,845	\$1,840,661	12%	10
586	Meter Expenses	\$1,248,288	\$982,204	27%	12
587	Customer Installations Expenses	\$0	\$0	100%	
588	Miscellaneous Distribution Expenses	\$13,492,506	\$15,811,039	-15%	15
589	Rents	\$0	\$0	100%	
590	Maintenance Supervision and Engineering	\$960,245	\$1,114,949	-14%	16
591	Maintenance of Structures	\$0	\$0	100%	
592	Maintenance of Station Equipment	\$4,353,842	\$9,093,098	-52%	17
593	Maintenance of Overhead Lines	\$59,807,838	\$50,033,494	20%	18
594	Maintenance of Underground Lines	\$1,114,515	\$968,323	15%	12
595	Maintenance of Line Transformer	\$196,095	\$0	100%	12
596	Maintenance of Street Lighting and Signal Systems	\$1,008,704	\$576,874	75%	2
597	Maintenance of Meters	\$1,722,887	\$2,267,471	-24%	19
598	Maintenance of Miscellaneous Distribution Plant	\$210,060	(\$319,022)	-166%	20
<b>Distribution Total</b>		<b>\$99,388,394</b>	<b>\$87,296,304</b>		
<b>West Penn Total</b>		<b>\$184,523,330</b>	<b>\$189,723,627</b>		

<b>Variance Explanations (Variances 10% or greater)</b>	
1	Over budget due to labor and Outside Services/Contractors, equipment, and employee expenses being greater than planned.
2	Over budget due to labor requirements and transportation expenses being greater than planned.
3	Over budget due to labor requirements and leases 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 the Springdale impairment settlement.
6	Under budget due to Building leases being less than planned.
7	Over budget due to labor costs being more than planned.
8	Over budget due to labor requirements and computer software maintenance being greater than planned.
9	Under budget due to Materials & Supplies being less than planned.
10	Over budget due to Outside Services/Contractors being greater than planned.
11	Over budget due to PJM Ancillary Service Market Administration, Monitoring & Compliance "Schedule 9&10" charges being greater than planned.
12	Over budget due to labor requirements being greater than planned.
13	Under budget due to labor requirements and Outside Services/Contractors being less than planned.
14	Over budget due to labor requirements, transportation requirements, and Outside Services/Contractors being greater than planned.
15	Under budget due to Outside Services/Contractors being less than planned.
16	Under budget due to labor requirements being less than planned.
17	Under budget due to Labor, Materials & Supplies, transportation requirements being less than planned.
18	Over budget due to labor requirements and Outside Services/Contractors being greater than planned.
19	Under budget due to labor and transportation requirements being less than planned.
20	Over budget due to Materials & Supplies being greater 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 Expenditures<sup>12</sup>*

<b>Met-Ed T&amp;D Capital – 2023 (\$)</b>					
<b>Category</b>	<b>2023 Actuals</b>	<b>2023 Budget</b>	<b>Annual Budget</b>	<b>Variance %</b>	<b>Notes</b>
Capacity	\$12,087,743	\$29,352,522	\$29,352,522	-59%	1
Condition	\$6,498,155	\$9,193,140	\$9,193,140	-29%	2
Facilities	\$5,441,728	\$9,900,249	\$9,900,249	-45%	3
Forced	\$55,315,467	\$54,319,046	\$54,319,046	2%	
Meter Related	\$1,202,270	\$1,712,865	\$1,712,865	-30%	4
New Business	\$20,678,940	\$19,775,682	\$19,775,682	5%	
Other	\$2,780,272	-\$20,011,088	-\$20,011,088	-114%	5
Reliability	\$42,956,030	\$35,896,141	\$35,896,141	20%	6
Street Light	\$1,291,037	\$1,242,634	\$1,242,634	4%	
Tools & Equip	\$4,069,786	\$3,559,487	\$3,559,487	14%	7
Vegetation Mgt.	\$1,115	\$0	\$0	100%	8
<b>Met-Ed Total</b>	<b>\$152,322,545</b>	<b>\$144,940,678</b>	<b>\$144,940,678</b>		

<b>Penelec T&amp;D Capital – 2023 (\$)</b>					
<b>Category</b>	<b>2023 Actuals</b>	<b>2023 Budget</b>	<b>Annual Budget</b>	<b>Variance %</b>	<b>Notes</b>
Capacity	\$259,050	\$223	\$223	116212%	9
Condition	\$10,910,197	\$10,090,039	\$10,090,039	8%	
Facilities	\$4,689,880	\$3,792,967	\$3,792,967	24%	10
Forced	\$59,534,196	\$59,638,275	\$59,638,275	0%	
Meter Related	\$1,291,867	\$718,851	\$718,851	80%	11
New Business	\$15,975,157	\$15,595,654	\$15,595,654	2%	
Other	\$6,543,814	\$174,706	\$174,706	3646%	12
Reliability	\$65,888,409	\$48,946,613	\$48,946,613	35%	13
Street Light	\$3,080,830	\$4,055,162	\$4,055,162	-24%	14
Tools & Equip	\$6,799,293	\$4,015,225	\$4,015,225	69%	15
Vegetation Mgt.	\$0	\$0	\$0	100%	
<b>Penelec Total</b>	<b>\$174,972,693</b>	<b>\$147,027,716</b>	<b>\$147,027,716</b>		

<sup>12</sup> Budget calculations reflects FE Forward budget placeholders.

<b>Penn Power T&amp;D Capital – 2023 (\$)</b>					
<b>Category</b>	<b>2023 Actuals</b>	<b>2023 Budget</b>	<b>Annual Budget</b>	<b>Variance %</b>	<b>Notes</b>
Capacity	\$367,181	\$156,911	\$156,911	134%	9
Condition	\$1,238,105	\$1,175,619	\$1,175,619	5%	
Facilities	\$1,507,017	\$949,477	\$949,477	59%	10
Forced	\$11,592,868	\$14,261,143	\$14,261,143	-19%	16
Meter Related	\$485,665	\$688,364	\$688,364	-29%	4
New Business	\$5,970,593	\$7,103,818	\$7,103,818	-16%	17
Other	\$2,483,731	\$1,863,323	\$1,863,323	33%	18
Reliability	\$14,489,866	\$11,830,203	\$11,830,203	22%	13
Street Light	\$555,208	\$659,144	\$659,144	-16%	19
Tools & Equip	\$1,379,768	\$1,087,606	\$1,087,606	27%	20
Vegetation Mgt.	\$0	\$20,206	\$20,206	-100%	21
<b>Penn Power Total</b>	<b>\$40,070,002</b>	<b>\$39,795,816</b>	<b>\$39,795,816</b>		

<b>West Penn T&amp;D Capital – 2023 (\$)</b>					
<b>Category</b>	<b>2023 Actuals</b>	<b>2023 Budget</b>	<b>Annual Budget</b>	<b>Variance %</b>	<b>Notes</b>
Capacity	\$9,286,786	\$11,276,358	\$11,276,358	-18%	22
Condition	\$59,098,498	\$38,424,156	\$38,424,156	54%	10
Facilities	\$14,425,242	\$19,799,540	\$19,799,540	-27%	10
Forced	\$58,121,549	\$57,720,238	\$57,720,238	1%	
Meter Related	\$1,081,193	\$1,811,368	\$1,811,368	-40%	4
New Business	\$24,600,885	\$26,787,097	\$26,787,097	-8%	
Other	\$2,550,259	-\$7,617,981	-\$7,617,981	-133%	23
Reliability	\$94,175,878	\$68,106,546	\$68,106,546	38%	24
Street Light	\$2,895,279	\$2,030,078	\$2,030,078	43%	25
Tools & Equip	\$5,570,216	\$4,115,807	\$4,115,807	35%	26
Vegetation Mgt.	-\$2,008	\$0	\$0	100%	21
<b>West Penn Total</b>	<b>\$271,803,778</b>	<b>\$222,453,207</b>	<b>\$222,453,207</b>		

<b>Variance Explanations (Variances 10% or greater)</b>	
1	Under budget due to Substation Projects being delayed due to material availability and Emergent Failures being less than planned.
2	Under budget due to Overhead and Underground Repairs, Substation, and Emergent Condition work being less than planned.
3	Under budget due to delays in regional facilities projects (Stroudsburg, Bethel, Reading).
4	Under budget due to meter and smart meter exchanges being less than planned.
5	Over budget due to FE Forward initiative budgetary placeholder.
6	Over budget due to LTIIP and IT projects being greater than planned.
7	Over budget due to Tool purchases and IT projects being greater than planned.
8	Over budget due to vegetation management costs.
9	Over budget due to labor costs being greater than planned.
10	Over budget due to timing differences in several construction projects.
11	Over budget due to meter and smart meter exchanges being greater than planned.
12	Over budget due to labor and other-than-labor assessments being greater than planned and FE Forward initiative budgetary placeholder.
13	Over budget due to timing differences in several LTIIP projects and OMS/GIS upgrade.
14	Under budget due to unscheduled repairs and LED conversion & new LED project being less than planned.
15	Over budget due to FE Forward initiatives and Vehicle and small tools purchases being greater than planned.
16	Under budget due to Lower capitalized storm expenditures and timing differences in several construction projects.
17	Under budget due to new commercial and residential business being less than planned.
18	Over budget due to Wood Pole Program being greater than planned.
19	Under budget due to unscheduled replacements being less than planned.
20	Over budget due to FE Forward initiatives and Mobile Data Terminal purchases being greater than planned.
21	Under budget due to vegetation management costs.
22	Under budget due to timing differences in several projects.
23	Over budget due to FE Forward initiative budgetary placeholder and labor costs.
24	Over budget due to timing differences in several projects including LTIIP and OMS/GIS upgrade.
25	Over budget due to unscheduled replacements and LED conversion project being greater than planned.
26	Over budget due to FE Forward initiatives and small tools purchases 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 – 2024 Goals / Objectives

<b>T&amp;D Inspection &amp; Maintenance Programs - 2024</b>				
<b>Program/Project</b>	<b>Met-Ed</b>	<b>Penelec</b>	<b>Penn Power</b>	<b>West Penn</b>
<b>Forestry</b>				
Transmission (Miles)	272	430	171	211
Distribution (Miles)	2,857	3,828	1,069	4,535
<b>Transmission</b>				
Aerial Patrols	2	2	2	2
Groundline (Poles)	1,652	2,485	975	424
<b>Substation</b>				
Substation Inspections Class A	420	776	150	936
Substation Inspections Class B	420	776	150	936
Substation Inspections Class C	1,680	3,104	600	3,744
Transformers	140	407	9	375
Breakers	65	323	12	362
Relay Schemes	275	358	27	203
<b>Distribution</b>				
Capacitors	4,822	8,583	945	3,823
Poles	38,000	41,509	10,743	46,650
Reclosers	3,531	3,926	1,239	4,470
Radio-Controlled Switches (2 / year)	1,800	2,666	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.

2023 T&D O&M Budget<sup>10</sup>

<b>Met-Ed T&amp;D O&amp;M - Annual 2024 (\$)</b>		
<b>Transmission</b>		
<b>Category</b>		<b>Annual Budget</b>
560	Operation Supervision & Engineering	\$0
561	Load Dispatching	\$19,142
562	Station Expenses	\$4,255
563	Overhead Line Expenses	\$43,581
565	Transmission of Electricity by Others	\$12,119,945
566	Miscellaneous Transmission Expenses	(\$504)
567	Rents	\$0
568	Maintenance Supervision and Engineering	\$0
569	Maintenance of Structures	\$0
570	Maintenance of Station Equipment	\$139,871
571	Maintenance of Overhead Lines	(\$23,289)
573	Maintenance of Miscellaneous Transmission Plant	\$0
575	Market Administration, Monitoring & Compliance Services	\$0
<b>Transmission Total</b>		<b>\$12,303,001</b>
<b>Distribution</b>		
<b>Category</b>		<b>Annual Budget</b>
580	Operation Supervision & Engineering	\$1,429,954
581	Load Dispatching	\$329,300
582	Station Expenses	\$679,766
583	Overhead Line Expenses	\$641,071
584	Underground Line Expenses	\$0
586	Meter Expenses	\$697,372
588	Miscellaneous Distribution Expenses	\$10,565,914
589	Rents	\$510,706
590	Maintenance Supervision and Engineering	\$511,272
591	Maintenance of Structures	\$2,566
592	Maintenance of Station Equipment	\$6,210,407
593	Maintenance of Overhead Lines	\$65,281,890
594	Maintenance of Underground Lines	\$4,037,767
595	Maintenance of Line Transformers	\$10,032
596	Maintenance of Street Lighting and Signal Systems	\$336,627
597	Maintenance of Meters	\$2,253,002
598	Maintenance of Miscellaneous Distribution Plant	\$1,277,074
<b>Distribution Total</b>		<b>\$94,774,719</b>
<b>Met-Ed Total</b>		<b>\$107,077,720</b>

<b>Penelec T&amp;D O&amp;M - Annual 2024 (\$)</b>		
<b>Transmission</b>		
<b>Category</b>		<b>Annual Budget</b>
560	Operation Supervision & Engineering	\$0
561	Load Dispatching	\$59,959
562	Station Expenses	(\$14,847)
563	Overhead Line Expenses	(\$14,472)
565	Transmission of Electricity by Others	\$48,406,396
566	Miscellaneous Transmission Expenses	\$33,339
567	Rents	\$0
568	Maintenance Supervision and Engineering	\$5,142
569	Maintenance of Structures	\$0
570	Maintenance of Station Equipment	\$0
571	Maintenance of Overhead Lines	(\$26,248)
573	Maintenance of Miscellaneous Transmission Plant	\$0
575	Market Administration, Monitoring & Compliance Services	\$0
<b>Transmission Total</b>		<b>\$48,449,269</b>
<b>Distribution</b>		
<b>Category</b>		<b>Annual Budget</b>
580	Operation Supervision & Engineering	\$2,049,663
581	Load Dispatching	\$407,060
583	Overhead Line Expenses	\$437,609
584	Underground Line Expenses	\$1,215,000
586	Meter Expenses	\$1,036,573
588	Miscellaneous Distribution Expenses	\$14,144,052
589	Rents	\$2,458,383
590	Maintenance Supervision and Engineering	\$575,253
592	Maintenance of Station Equipment	\$8,731,316
593	Maintenance of Overhead Lines	\$63,623,057
594	Maintenance of Underground Lines	\$1,691,914
596	Maintenance of Street Lighting and Signal Systems	\$1,217,610
597	Maintenance of Meters	\$3,157,309
598	Maintenance of Miscellaneous Distribution Plant	\$2,383,333
<b>Distribution Total</b>		<b>\$103,128,133</b>
<b>Penelec Total</b>		<b>\$151,577,402</b>

<b>Penn Power T&amp;D O&amp;M – Annual4 (\$)</b>		
<b>Transmission</b>		
<b>Category</b>		<b>Annual Budget</b>
560	Operation Supervision & Engineering	\$2,920
561	Load Dispatching	\$13,016
562	Station Expenses	\$0
563	Overhead Line Expenses	\$0
565	Transmission of Electricity by Others	\$4,710,852
566	Miscellaneous Transmission Expenses	-\$5,221
568	Maintenance Supervision and Engineering	\$39,366
569	Maintenance of Structures	\$16,302
570	Maintenance of Station Equipment	\$3,047
571	Maintenance of Overhead Lines	-\$7,267
575	Market Administration, Monitoring & Compliance Services	\$0
<b>Transmission Total</b>		<b>\$4,733,015</b>
<b>Distribution</b>		
<b>Category</b>		<b>Annual Budget</b>
580	Operation Supervision & Engineering	\$834,554
582	Station Expenses	\$61,800
583	Overhead Line Expenses	\$155,441
584	Underground Line Expenses	\$965,161
586	Meter Expenses	\$68,304
588	Miscellaneous Distribution Expenses	\$1,663,968
589	Rents	\$39,278
590	Maintenance Supervision and Engineering	\$132,863
592	Maintenance of Station Equipment	\$996,010
593	Maintenance of Overhead Lines	\$18,357,131
594	Maintenance of Underground Lines	\$290,269
596	Maintenance of Street Lighting and Signal Systems	\$54,038
597	Maintenance of Meters	\$567,946
598	Maintenance of Miscellaneous Distribution Plant	\$527,911
<b>Distribution Total</b>		<b>\$24,714,672</b>
<b>Penn Power Total</b>		<b>\$29,487,687</b>

<b>West Penn T&amp;D O&amp;M - Annual 2024 (\$)</b>		
<b>Transmission</b>		
<b>Category</b>		<b>Annual Budget</b>
560	Operation Supervision & Engineering	\$0
561	Load Dispatching	\$78,187
562	Station Expenses	\$0
563	Overhead Line Expenses	\$0
565	Transmission of Electricity by Others	\$66,696,010
566	Miscellaneous Transmission Expenses	\$244,016
567	Rents	\$0
568	Maintenance Supervision and Engineering	\$612,537
569	Maintenance of Structures	\$53,775
570	Maintenance of Station Equipment	\$321,361
571	Maintenance of Overhead Lines	\$6,669,868
573	Maintenance of Miscellaneous Transmission Plant	\$0
575	Market Administration, Monitoring & Compliance Services	\$0
<b>Transmission Total</b>		<b>\$74,675,753</b>
<b>Distribution</b>		
<b>Category</b>		<b>Annual Budget</b>
580	Operation Supervision & Engineering	\$1,594,298
581	Load Dispatching	\$508,030
582	Station Expenses	\$1,287,413
583	Overhead Line Expenses	\$339,369
584	Underground Line Expenses	\$1,895,881
586	Meter Expenses	\$1,068,935
588	Miscellaneous Distribution Expenses	\$10,574,920
590	Maintenance Supervision and Engineering	\$476,985
592	Maintenance of Station Equipment	\$8,693,576
593	Maintenance of Overhead Lines	\$58,167,261
594	Maintenance of Underground Lines	\$877,945
595	Maintenance of Line Transformers	\$0
596	Maintenance of Street Lighting and Signal Systems	\$626,597
597	Maintenance of Meters	\$2,378,393
598	Maintenance of Miscellaneous Distribution Plant	\$1,586,894
<b>Distribution Total</b>		<b>\$90,076,497</b>
<b>West Penn Total</b>		<b>\$164,752,251</b>

**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<sup>11</sup>

<b>Met-Ed T&amp;D Capital - Annual 2024 (\$)</b>	
<b>Category</b>	<b>Annual Budget</b>
Capacity	\$39,565,175
Condition	\$9,893,338
Facilities	\$7,810,234
Forced	\$51,686,510
Meter Related	\$1,427,390
New Business	\$23,160,787
Other	\$10,117,118
Reliability	\$40,015,069
Street Light	\$1,419,053
Tools & Equip	\$5,100,378
Vegetation Management	\$0
<b>Met-Ed Total</b>	<b>\$190,195,052</b>

<b>Penelec T&amp;D Capital - Annual 2024 (\$)</b>	
<b>Category</b>	<b>Annual Budget</b>
Capacity	\$328,081
Condition	\$9,597,795
Facilities	\$5,013,605
Forced	\$60,863,917
Meter Related	\$731,425
New Business	\$13,853,688
Other	\$5,024,360
Reliability	\$88,712,497
Streetlight	\$3,734,043
Tools & Equip	\$9,372,927
Vegetation Management	\$0
<b>Penelec Total</b>	<b>\$197,232,337</b>

<b>Penn Power T&amp;D Capital - Annual 2024 (\$)</b>	
<b>Category</b>	<b>Annual Budget</b>
Capacity	\$114,091
Condition	\$1,390,228
Facilities	\$235,726
Forced	\$13,631,463
Meter Related	\$693,295
New Business	\$9,220,463
Other	\$3,937,732
Reliability	\$17,241,365
Street Light	\$457,088
Tools & Equip	\$1,772,242
Vegetation Management	\$20,226
<b>Penn Power Total</b>	<b>\$48,713,918</b>

<b>West Penn Power T&amp;D Capital - Annual 2024 (\$)</b>	
<b>Category</b>	<b>Annual Budget</b>
Capacity	\$4,164,437
Condition	\$7,009,494
Facilities	\$14,100,399
Forced	\$54,651,269
Meter Related	\$1,021,014
New Business	\$26,575,695
Other	\$8,306,817
Reliability	\$56,023,242
Street Light	\$2,541,070
Tools & Equip	\$5,892,652
Vegetation Management	\$0
<b>West Penn Total</b>	<b>\$180,286,089</b>

**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

In 2023, the Predecessor Companies filed a revision to their 2023 and 2024 Biennial Inspection and Maintenance practices to include a pole treatment program.

ATTACHMENT A

Worst Performing Circuits – Remedial Actions

<b>Met-Ed</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Barto	00706-1	Boyertown	3,008	209
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	5.78	Trees Off Row-Tree	47%	1Q 2023
SAIDI	893.82	Equipment Failure	27%	2Q 2023
SAIFI	3.40	Unknown	17%	3Q 2023
CAIDI	328	All Other	9%	4Q 2023
Customer Minutes	3,356,289			
Customers Affected	10,226			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Targeted Mainline Circuit Rehabilitation LTIP Engineering Review			Complete	Feb-23
Circuit Improvement Project LTIP Engineering Review			Complete	Feb-23
Install Supervisory Control and Data Acquisition (SCADA) LTIP Engineering Review			Complete	Feb-23
Replace priority mainline poles (4 poles)			Complete	Sep-23
Targeted tree trimming and removals			Complete	Oct-23
Cycle tree trimming			To be completed 2024	0%
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
No Bangor	00826-3	Easton	3,329	138
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	5.12	Trees Off Row-Tree	57%	1Q 2023
SAIDI	1,332.41	Equipment Failure	17%	2Q 2023
SAIFI	3.57	Lightning	9%	3Q 2023
CAIDI	250		17%	4Q 2023
Customer Minutes	2,975,542			
Customers Affected	11,880			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Cycle tree trimming			Complete	Dec-22
Pole relocation project			Complete	Feb-23
Mainline Forestry Aerial Patrol			Complete	Jul-23
Replace/repair high priority item identified during overhead circuit patrol			Complete	Jul-23

<b>Met-Ed</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Angelica Sub	00129-1	Reading	708	30
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.88	Trees Off Row-Tree	50%	1Q 2023
SAIDI	2,363.96	Line Failure	31%	2Q 2023
SAIFI	4.21	Unknown	18%	3Q 2023
CAIDI	562	All Other	1%	4Q 2023
Customer Minutes	1,673,683			
Customers Affected	2,980			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Fuse relocation project			Complete	Apr-23
Mainline Forestry Aerial Patrol			Complete	Jul-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Walker Sub	00865-3	Stroudsburg	2,928	79
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.79	Trees Off Row-Tree	46%	1Q 2023
SAIDI	1,181.93	Equipment Failure	41%	2Q 2023
SAIFI	2.26	Trees Off Row-Limb	5%	3Q 2023
CAIDI	245	All Other	8%	4Q 2023
Customer Minutes	1,619,716			
Customers Affected	6,619			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Replaced priority pole			Complete	Feb-23
Replace/repair high priority items identified during overhead circuit patrol			Complete	Apr-23
Replaced priority one pole			Complete	May-23
Overhead circuit inspection			Complete	Oct-23
Cycle tree trimming			To be completed 2024	98%
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
S Hamb Sub	00740-1	Hamburg	1,281	79
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.61	Trees Off Row-Tree	61%	1Q 2023
SAIDI	1,597.64	Vehicle	15%	2Q 2023
SAIFI	3.68	Equipment Failure	7%	3Q 2023
CAIDI	321	All Other	17%	4Q 2023
Customer Minutes	1,514,051			
Customers Affected	4,714			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair/replace priority items from overhead circuit inspection			Complete	Dec-23
Cycle Tree Trimming			To be completed 2024	0%

<b>Met-Ed</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Ottsville Substation	00660-3	Easton	880	80
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.42	Trees Off Row-Tree	52%	1Q 2023
SAIDI	1,356.82	Trees Off Row-Limb	23%	2Q 2023
SAIFI	4.65	Equipment Failure	9%	3Q 2023
CAIDI	344	All Other	17%	4Q 2023
Customer Minutes	1,405,926			
Customers Affected	4,092			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Install bridge tie LTIP			Complete	Dec-23
Replace/repair high priority items identified during overhead circuit patrol			Complete	Aug=23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Mountain Substation	00743-4	Dillsburg	1,034	34
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.42	Trees Off Row-Tree	83%	1Q 2023
SAIDI	1,710.57	Trees Off Row-Limb	9%	2Q 2023
SAIFI	3.48	Line Failure	6%	3Q 2023
CAIDI	390	All Other	2%	4Q 2023
Customer Minutes	1,402,951			
Customers Affected	3,593			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Cycle tree trimming			Complete	Aug-22
Engineering circuit tie addition review			Complete	Jan-24
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Lynnville Sub	00737-1	Hamburg	1,087	82
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.24	Equipment Failure	46%	1Q 2023
SAIDI	663.42	Trees Off Row-Tree	23%	2Q 2023
SAIFI	3.02	Vehicle	11%	3Q 2023
CAIDI	397	All Other	20%	4Q 2023
Customer Minutes	1,299,836			
Customers Affected	3,277			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Cycle Tree Trimming			Complete	Dec-22
Upgrade mainline recloser			Complete	Oct-23
Replace priority mainline pole (3 poles)			Complete	Oct-23

<b>Met-Ed</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Lyons Sub	00729-1	Reading	1,354	104
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.89	Trees Off Row-Tree	49%	1Q 2023
SAIDI	1,328.91	Equipment Failure	22%	2Q 2023
SAIFI	2.21	Trees Off Row-Limb	11%	3Q 2023
CAIDI	368	All Other	17%	4Q 2023
Customer Minutes	1,099,609			
Customers Affected	2,992			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Install additional mainline disconnects LTIIIP			Complete	Feb-23
Targeted forestry inspection (Bick Rd)			Complete	Feb-23
Targeted tree trimming (Bick Rd)			Complete	May-23
Overhead circuit inspection			Complete	Aug-23
Targeted tree removals (Schweitz Rd)			Complete	Oct-23
Targeted tree trimming and removals			Complete	Oct-23
Cycle Tree Trimming			To be completed 2024	0%
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Carsonia Sub	00766-1	Reading	817	32
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.87	Trees Off Row-Tree	74%	1Q 2023
SAIDI	712.46	Trees Off Row-Limb	12%	2Q 2023
SAIFI	2.57	Fire	12%	3Q 2023
CAIDI	516	All Other	2%	4Q 2023
Customer Minutes	1,085,715			
Customers Affected	2,103			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Targeted tree trimming and removals			Complete	Jul-23
Install Supervisory Control and Data Acquisition (SCADA) (1 device)			Complete	Aug-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Huffs Church	00600-1	Boyertown	1,510	146
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.85	Trees Off Row-Tree	70%	1Q 2023
SAIDI	346.97	Equipment Failure	11%	2Q 2023
SAIFI	3.75	Trees Off Row-Limb	10%	3Q 2023
CAIDI	190	All Other	10%	4Q 2023
Customer Minutes	1,075,817			
Customers Affected	5,665			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Targeted tree trimming (Maryann Drive)			Complete	Jan-23
CEMI re-route project LTIIIP			Complete	Mar-23
Targeted tree trimming and removals			Complete	May-23
Targeted Circuit Rehabilitation LTIIIP			Complete	Nov-23

<b>Met-Ed</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Carsonia Sub	00764-1	Reading	2,905	58
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.74	Trees Off Row-Tree	53%	1Q 2023
SAIDI	649.29	Unknown	16%	2Q 2023
SAIFI	1.72	Trees Off Row-Limb	13%	3Q 2023
CAIDI	202	All Other	18%	4Q 2023
Customer Minutes	1,007,949			
Customers Affected	4,983			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Construct circuit tie LTIIP			Complete	Jan-23
Targeted Mainline Circuit Rehabilitation LTIIP Engineering Review			Complete	Feb-23
Targeted tree trimming and removals			Complete	Dec-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Barto Sub	00705-1	Boyertown	657	74
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.48	Trees Off Row-Tree	60%	1Q 2023
SAIDI	651.13	Trees Off Row-Limb	20%	2Q 2023
SAIFI	3.04	Unknown	10%	3Q 2023
CAIDI	431	All Other	10%	4Q 2023
Customer Minutes	860,908			
Customers Affected	1,998			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Targeted tree trimming and removals			Complete	Nov-23
Cycle tree trimming			To be completed 2024	0%
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Bath Sub	00873-3	Easton	2,149	55
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.33	Trees Off Row-Limb	43%	1Q 2023
SAIDI	200.30	Equipment Failure	23%	2Q 2023
SAIFI	2.47	Trees Off Row-Tree	15%	3Q 2023
CAIDI	146	All Other	19%	4Q 2023
Customer Minutes	773,508			
Customers Affected	5,311			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Cycle tree trimming			Complete	Sep-22
Targeted mainline patrol			Complete	Dec-23

<b>Met-Ed</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
No Bangor	00813-3	Easton	1,364	61
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.80	Trees Off Row-Tree	52%	1Q 2023
SAIDI	553.18	Vehicle	21%	2Q 2023
SAIFI	3.41	Forced Outage	20%	3Q 2023
CAIDI	350	All Other	7%	4Q 2023
Customer Minutes	1,625,180			
Customers Affected	4,646			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Fuse relocation project			Complete	Apr-23
Mainline Forestry Aerial Patrol			Complete	Jul-23

<b>Penelec</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Warren South	00220-41	Warren	2,831	102
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	6.04	Trees Off Row-Tree	66%	1Q 2023
SAIDI	1,248.64	Unknown	18%	2Q 2023
SAIFI	4.52	Equipment Failure	5%	3Q 2023
CAIDI	276.31	All Other	12%	4Q 2023
Customer Minutes	3,534,889			
Customers Affected	12,793			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by trees			Complete	Jul-22
Repair equipment failure (forced outage)			Complete	Nov-22
Repair damage caused by trees			Complete	Mar-23
Restore fuse operation of unknown cause			Complete	Mar-23
Repair damage caused by trees			Complete	Jul-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Salix	00070-11	Johnstown	2,230	33
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	4.64	Trees Off Row-Tree	50%	1Q 2023
SAIDI	1,217.14	Ice	44%	2Q 2023
SAIFI	2.47	Forced Outage	3%	3Q 2023
CAIDI	493.49	All Other	4%	4Q 2023
Customer Minutes	2,714,220			
Customers Affected	5,500			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by ice			Complete	Mar-23
Repair damage caused by trees			Complete	Mar-23

<b>Penelec</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Tiffany	00435-65	Montrose	1,285	26
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.50	Trees Off Row-Tree	76%	1Q 2023
SAIDI	1,139.28	Equipment Failure	14%	2Q 2023
SAIFI	3.27	Vehicle	10%	3Q 2023
CAIDI	348.90	All Other	1%	4Q 2023
Customer Minutes	1,463,975			
Customers Affected	4,196			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by lightning			Complete	Jul-22
Repair damage caused by trees			Complete	Aug-22
Repair equipment failure			Complete	Jul-23
Repair damage caused by trees			Complete	Sep-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Grover	00527-63	Towanda	1,081	92
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.35	Trees Off Row-Tree	59%	1Q 2023
SAIDI	1,270.02	Equipment Failure	30%	2Q 2023
SAIFI	3.15	Unknown	6%	3Q 2023
CAIDI	403.55	All Other	5%	4Q 2023
Customer Minutes	1,372,887			
Customers Affected	3,402			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by lightning			Complete	Jul-22
Repair damage caused by vehicle accident			Complete	Aug-22
Repair damage caused by trees during a storm			Complete	Mar-23
Repair equipment failure			Complete	Mar-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Tunkhannock	00533-65	Montrose	1,261	52
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.23	Trees Off Row-Tree	61%	1Q 2023
SAIDI	1,032.98	Equipment Failure	24%	2Q 2023
SAIFI	3.51	Unknown	9%	3Q 2023
CAIDI	294.04	All Other	5%	4Q 2023
Customer Minutes	1,302,590			
Customers Affected	4,430			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair equipment failure			Complete	Jul-22
Circuit inspection			Complete	Aug-22
Repair damage caused by trees			Complete	Sep-22
Repair damage caused by trees			Complete	Sep-23

<b>Penelec</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Natl Forge Sw Sta	00577-41	Warren	1,205	57
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.20	Trees Off Row-Tree	69%	1Q 2023
SAIDI	1,068.60	Trees Off Row-Limb	14%	2Q 2023
SAIFI	4.40	Equipment Failure	9%	3Q 2023
CAIDI	242.77	All Other	1%	4Q 2023
Customer Minutes	1,287,658			
Customers Affected	5,304			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by trees (Limb)			Complete	Aug-22
Repair damage caused by trees during a storm			Complete	Dec-22
Repair damage caused by trees			Complete	Jul-23
On cycle tree clearing			Complete	Dec-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Blairsville East	00080-13	Indiana	1,030	31
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.14	Trees Off Row-Limb	45%	1Q 2023
SAIDI	1,215.64	Trees Off Row-Tree	26%	2Q 2023
SAIFI	3.83	Equipment Failure	21%	3Q 2023
CAIDI	316.99	All Other	7%	
Customer Minutes	1,252,105			
Customers Affected	3,950			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by trees during a storm			Complete	Jul-22
Repair damage caused by trees during a storm (limb)			Complete	Mar-23
Repair equipment failure			Complete	Jul-23

<b>Penelec</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
N Meshoppen Tran	00534-65	Montrose	867	65
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.11	Trees Off Row-Tree	66%	1Q 2023
SAIDI	1,424.04	Equipment Failure	19%	2Q 2023
SAIFI	3.90	Line Failure	8%	3Q 2023
CAIDI	365.28	All Other	7%	4Q 2023
Customer Minutes	1,234,647			
Customers Affected	3,380			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair equipment failure			Complete	Oct-22
Repair equipment failure			Complete	Oct-22
On cycle tree clearing			Complete	Nov-22
Repair damage caused by trees during a storm			Complete	Dec-22
Circuit inspection			Complete	Mar-23
Repair damage caused by trees			Complete	Apr-23
Repair equipment failure			Complete	Jun-23
Targeted Circuit Rehab			Complete	Dec-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Revloc	00069-72	Altoona	561	13
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.11	Trees Off Row-Tree	70%	1Q 2023
SAIDI	2,196.05	Ice	26%	2Q 2023
SAIFI	2.14	Trees Off Row-Limb	4%	3Q 2023
CAIDI	1,025.80	All Other	1%	4Q 2023
Customer Minutes	1,231,983			
Customers Affected	1,201			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by trees on ROW			Complete	Dec-22
Repair damage caused by ice			Complete	Mar-23
Repair damage cause by trees			Complete	Mar-23

<b>Penelec</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Russell Hill	00282-65	Montrose	1,025	57
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.09	Animal	33%	1Q 2023
SAIDI	1,191.07	Trees Off Row-Tree	30%	2Q 2023
SAIFI	5.09	Equipment Failure	24%	3Q 2023
CAIDI	234.01	All Other	14%	4Q 2023
Customer Minutes	1,220,849			
Customers Affected	5,217			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by trees during a storm			Complete	Dec-22
Repair equipment failure (overload)			Complete	Dec-22
Repair equipment failure			Complete	Feb-23
Repair damage caused by trees			Complete	Sep-23
Repair damage caused by animal			Complete	Dec-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Seward	00075-11	Johnstown	928	41
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.89	Trees Off Row-Tree	94%	1Q 2023
SAIDI	1,189.42	Forced Outage	2%	2Q 2023
SAIFI	3.34	Line Failure	1%	3Q 2023
CAIDI	356.17	All Other	3%	4Q 2023
Customer Minutes	1,103,782			
Customers Affected	3,099			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair line failure			Complete	Nov-22
Repair damage caused by trees during a storm			Complete	Dec-22
Repair damage caused by trees during a storm			Complete	Mar-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Blairsville East	00082-13	Indiana	1,578	44
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.86	Trees Off Row-Limb	45%	1Q 2023
SAIDI	691.50	Trees Off Row-Tree	22%	2Q 2023
SAIFI	1.95	Unknown	18%	3Q 2023
CAIDI	353.82	All Other	15%	4Q 2023
Customer Minutes	1,091,189			
Customers Affected	3,084			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Restore recloser operation of unknown cause			Complete	Mar-23
Repair damage caused by trees during a storm (Limb)			Complete	Mar-23
Repair damage caused by trees during a storm			Complete	Mar-23

<b>Penelec</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Montrose	00457-65	Montrose	668	28
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.60	Trees Off Row-Tree	79%	1Q 2023
SAIDI	1,403.67	Line Failure	14%	2Q 2023
SAIFI	4.79	Trees Off Row-Limb	3%	3Q 2023
CAIDI	293.29	All Other	3%	4Q 2023
Customer Minutes	937,651			
Customers Affected	3,197			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair line failure			Complete	Feb-23
Repair damage caused by trees			Complete	Apr-23
On cycle tree clearing			Complete	May-23
Circuit inspection			Complete	Apr-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Dubois	00131-23	Dubois	584	34
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.33	Line Failure	76%	1Q 2023
SAIDI	1,330.83	Trees Off Row-Tree	17%	2Q 2023
SAIFI	6.35	Equipment Failure	5%	3Q 2023
CAIDI	209.43	All Other	2%	4Q 2023
Customer Minutes	777,205			
Customers Affected	3,711			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damaged caused by trees during a storm			Complete	Jan-23
Repair line failure			Complete	Feb-23
Repair equipment failure			Complete	Apr-23
Repair line failure			Complete	Sep-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Emlenton	00322-51	Oil City	462	31
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.25	Wind	65%	1Q 2023
SAIDI	1,580.81	Equipment Failure	19%	2Q 2023
SAIFI	4.78	Trees Off Row-Tree	10%	3Q 2023
CAIDI	330.47	All Other	6%	4Q 2023
Customer Minutes	730,332			
Customers Affected	2,210			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by trees			Complete	Jan-23
Repair damage caused by wind			Complete	Mar-23
Repair equipment failure			Complete	Mar-23

<b>Penelec</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Industrial Park	00796-65	Montrose	370	21
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.25	Trees Off Row-Tree	68%	1Q 2023
SAIDI	1,972.12	Vehicle	23%	2Q 2023
SAIFI	2.95	Equipment Failure	5%	3Q 2023
CAIDI	669.44	All Other	4%	4Q 2023
Customer Minutes	729,685			
Customers Affected	1,090			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by lightning			Complete	Jul-22
Repair equipment failure			Complete	Aug-22
Repair damage caused by vehicle accident			Complete	Feb-23
Repair damage caused by trees			Complete	Sep-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Grandview	00353-51	Oil City	869	27
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.23	Wind	52%	1Q 2023
SAIDI	828.48	Line Failure	35%	2Q 2023
SAIFI	2.31	Trees Off Row-Tree	10%	3Q 2023
CAIDI	359.26	All Other	2%	4Q 2023
Customer Minutes	719,949			
Customers Affected	2,004			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by trees during a storm			Complete	Sep-22
Repair line failure			Complete	Mar-23
Repair damage caused by wind			Complete	Mar-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
N Meshoppen Tran	00531-65	Montrose	425	44
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.16	Trees Off Row-Tree	32%	1Q 2023
SAIDI	1,597.72	Equipment Failure	30%	2Q 2023
SAIFI	10.65	Line Failure	24%	3Q 2023
CAIDI	149.96	All Other	13%	4Q 2023
Customer Minutes	679,033			
Customers Affected	4,528			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by trees			Complete	Sep-22
Repair line failure			Complete	Apr-23
Repair equipment failure			Complete	May-23
Circuit Inspection			Complete	Apr-23
Targeted Circuit Rehab			Complete	Oct-23

<b>Penelec</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Tionesta	00344-51	Oil City	520	15
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.14	Trees Off Row-Tree	39%	1Q 2023
SAIDI	1,282.83	Unknown	38%	2Q 2023
SAIFI	4.34	Vehicle	8%	3Q 2023
CAIDI	295.43	All Other	14%	4Q 2023
Customer Minutes	667,074			
Customers Affected	2,258			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Restore breaker operation of unknown cause			Complete	Mar-23
Repair damaged caused by trees during a storm			Complete	Mar-23
Repair damage caused by vehicle accident			Complete	Jun-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
East Towanda	00525-62	Towanda	676	45
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.13	Trees Off Row-Tree	50%	1Q 2023
SAIDI	980.80	Unknown	21%	2Q 2023
SAIFI	2.91	Equipment Failure	20%	3Q 2023
CAIDI	337.42	All Other	10%	4Q 2023
Customer Minutes	663,022			
Customers Affected	1,965			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair equipment failure			Complete	Jul-22
Repair damage caused by lightning			Complete	Jul-22
Repair damage caused by trees			Complete	Feb-23
Repair damage caused by trees (unknown)			Complete	Aug-23
Targeted Circuit Rehab			Complete	Dec-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Utica Junction	00511-51	Oil City	401	38
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	0.95	Trees Off Row-Tree	92%	1Q 2023
SAIDI	1,051.02	Vehicle	5%	2Q 2023
SAIFI	2.22	Forced Outage	1%	3Q 2023
CAIDI	472.38	All Other	2%	4Q 2023
Customer Minutes	555,992			
Customers Affected	1,177			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by trees			Complete	Aug-22
Repair damage caused by trees			Complete	Jan-23
Install advanced Dx protective devices			Complete	Jul-23
On cycle tree clearing			Complete	Aug-23

<b>Penelec</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Brookville	00125-23	Dubois	621	21
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	0.84	Trees Off Row-Tree	71%	1Q 2023
SAIDI	795.73	Line Failure	23%	2Q 2023
SAIFI	2.45	Lightning	3%	3Q 2023
CAIDI	324.88	All Other	3%	4Q 2023
Customer Minutes	494,149			
Customers Affected	1,521			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair equipment failure			Complete	Jul-22
Repair damage caused by trees			Complete	Mar-23
Circuit inspection			Complete	May-23
Repair line failure			Complete	Nov-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Union City	00239-43	Erie	818	37
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	0.81	Equipment Failure	77%	1Q 2023
SAIDI	578.80	Trees Off Row-Tree	8%	2Q 2023
SAIFI	3.23	Unknown	7%	3Q 2023
CAIDI	179.34	All Other	7%	4Q 2023
Customer Minutes	473,460			
Customers Affected	2,640			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by trees			Complete	Nov-22
Repair equipment failure			Complete	Dec-22
Repair damage caused by trees during a storm			Complete	Dec-22
Repair equipment failure			Complete	Mar-23
Circuit inspection			Complete	Mar-23
Repair equipment failure			Complete	Mar-23

<b>Penelec</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Madera	00166-22	Philipsburg	2,157	70
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.21	Trees Off Row-Tree	72%	1Q 2023
SAIDI	327.57	Line Failure	16%	2Q 2023
SAIFI	2.08	Trees Off Row-Limb	5%	3Q 2023
CAIDI	157.51	All Other	7%	4Q 2023
Customer Minutes	706,569			
Customers Affected	4,486			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by vehicle accident (forced outage)			Complete	Nov-22
Repair damage caused by trees during a storm			Complete	Dec-22
Repair damage caused by trees during a storm			Complete	Jan-23
Repair line failure			Complete	Jul-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Grandview	00354-51	Oil City	529	28
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	0.95	Trees Off Row-Tree	92%	1Q 2023
SAIDI	1,051.02	Vehicle	5%	2Q 2023
SAIFI	2.22	Forced Outage	1%	3Q 2023
CAIDI	472.38	All Other	2%	4Q 2023
Customer Minutes	555,992			
Customers Affected	1,177			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by trees			Complete	Aug-22
Repair damage caused by trees			Complete	Jan-23
Install advanced Dx protective devices			Complete	Jul-23
On cycle tree clearing			Complete	Aug-23

<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Mountain Substation	00744-4	Dillsburg	1,871	70
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	3.46	Trees Off Row-Tree	75%	1Q 2023
SAIDI	1,106.30	Wind	17%	2Q 2023
SAIFI	2.16	Unknown	3%	3Q 2023
CAIDI	498	All Other	6%	4Q 2023
Customer Minutes	2,010,028			
Customers Affected	4,033			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Circuit Rehabilitation LTIP Zone 2			Complete	Feb-23
Circuit Zone 2 Conversion LTIP			Complete	Nov-23

<b>Penn Power</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Camp Reynolds	W-134	Clark	1,800	65
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	4.11	Trees Off Row-Tree	55%	1Q 2023
SAIDI	391.49	Trees Off Row-Limb	20%	2Q 2023
SAIFI	1.51	Equipment Failure	15%	3Q 2023
CAIDI	260	All Other	11%	4Q 2023
Customer Minutes	704,684			
Customers Affected	2,713			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair Damage Caused by Tree			Complete	
Repair Damage Caused by Vehicle			Complete	
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Hartstown	W-126	Clark	2,243	62
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	3.27	Vehicle	63%	1Q 2023
SAIDI	249.61	Trees Off Row-Tree	16%	2Q 2023
SAIFI	2.00	Animal	5%	3Q 2023
CAIDI	125	All Other	16%	4Q 2023
Customer Minutes	559,873			
Customers Affected	4,494			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair Damage Caused by Vehicle			Complete	

<b>West Penn</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Donegal	Champion	Pleasant Valley	1,185	39
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	5.47	Trees Off Row-Tree	81%	Q1 2023
SAIDI	3,359.30	Wind	11%	Q2 2023
SAIFI	3.47	Line Failure	4%	Q3 2023
CAIDI	968	All Other	4%	Q4 2023
Customer Minutes	3,980,765			
Customers Affected	4,112			
<b>Remedial Action Planned or Taken</b>		<b>Status</b>	<b>Progress</b>	
Repair damage caused by a tree			Complete	Mar-23
Repair line failure			Complete	Jun-23
Repair damage caused by a tree			Complete	Aug-23
Restore unknown outage			Complete	Oct-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Rutan	Bristoria	Jefferson	1,074	63
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	3.29	Trees Off Row-Tree	79%	Q1 2023
SAIDI	2,230.56	Unknown	9%	Q2 2023
SAIFI	3.68	Forced Outage	4%	Q3 2023
CAIDI	606	All Other	8%	Q4 2023
Customer Minutes	2,395,622			
Customers Affected	3,953			
<b>Remedial Action Planned or Taken</b>		<b>Status</b>	<b>Progress</b>	
Repair damage caused by a tree			Complete	Feb-23
Repair equipment failure			Complete	May-23
Repair damage caused by a tree			Complete	Jul-23
Forced outage to repair damage			Complete	Oct-23
Hickory	Hickory	Washington Pa	951	58
Bethlen	Laurel Valley	Latrobe	1,420	66
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	3.04	Trees Off Row-Tree	94%	Q1 2023
SAIDI	1,559.07	Trees Off Row-Limb	4%	Q2 2023
SAIFI	2.49	Forced Outage	1%	Q3 2023
CAIDI	625	All Other	1%	Q4 2023
Customer Minutes	2,213,875			
Customers Affected	3,540			
<b>Remedial Action Planned or Taken</b>		<b>Status</b>	<b>Progress</b>	
Repair damage caused by a tree			Complete	Mar-23
Overhead Circuit Inspection (62259713)			Complete	Apr-23
Repair damage caused by a tree			Complete	May-23
Repair damage caused by a tree			Complete	Jul-23
Repair damage caused by a tree			Complete	Oct-23

<b>West Penn</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Karns City	Kaylor	Butler	1,150	34
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.72	Trees Off Row-Tree	87%	Q1 2023
SAIDI	1,723.76	Vehicle	6%	Q2 2023
SAIFI	3.44	Wind	3%	Q3 2023
CAIDI	501	All Other	4%	Q4 2023
Customer Minutes	1,982,321			
Customers Affected	3,955			
<b>Remedial Action Planned or Taken</b>		<b>Status</b>	<b>Progress</b>	
Repair damage caused by a tree			Complete	Mar-23
Repair damage caused by a tree			Complete	Jun-23
Forced outage to repair damage			Complete	Aug-23
Repair damage caused by a tree			Complete	Dec-23
Overhead Circuit Inspection (62914234)			To Be Completed 2024	0%
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Springfield Pike	Rock Ridge	Pleasant Valley	721	20
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	2.32	Trees Off Row-Tree	93%	Q1 2023
SAIDI	2,345.76	Vehicle	4%	Q2 2023
SAIFI	3.53	Line Failure	2%	Q3 2023
CAIDI	665	All Other	1%	Q4 2023
Customer Minutes	1,691,293			
Customers Affected	2,542			
<b>Remedial Action Planned or Taken</b>		<b>Status</b>	<b>Progress</b>	
Repair damage caused by a tree			Complete	Mar-23
Overhead Circuit Inspection (62259770)			Complete	Apr-23
Repair damage caused by a vehicle			Complete	May-23
Repair damage caused by a tree			Complete	Aug-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Laurelville	Laurelville	Pleasant Valley	661	33
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.85	Trees Off Row-Tree	75%	Q1 2023
SAIDI	2,031.29	Trees Off Row-Limb	21%	Q2 2023
SAIFI	2.22	Equipment Failure	3%	Q3 2023
CAIDI	915	All Other	1%	Q4 2023
Customer Minutes	1,342,685			
Customers Affected	1,468			
<b>Remedial Action Planned or Taken</b>		<b>Status</b>	<b>Progress</b>	
Repair damage caused by a tree			Complete	Mar-23
Repair equipment failure			Complete	Jun-23
Repair damage caused by a tree			Complete	Aug-23
Repair damage caused by a tree			Complete	Nov-23

<b>West Penn</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Vanceville	Vanceville	Charleroi	1,380	69
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.84	Trees Off Row-Tree	33%	Q1 2023
SAIDI	967.39	Unknown	26%	Q2 2023
SAIFI	2.92	Forced Outage	16%	Q3 2023
CAIDI	331	All Other	24%	Q4 2023
Customer Minutes	1,335,005			
Customers Affected	4,033			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair line failure			Complete	Mar-23
Repair damage caused by a tree			Complete	Jun-23
Repair damage caused by a tree			Complete	Jul-23
Restore unknown outage			Complete	Oct-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Ethel Springs	Railroad	Latrobe	717	15
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.83	Trees Off Row-Tree	99%	Q1 2023
SAIDI	1,861.22	Vehicle	1%	Q2 2023
SAIFI	2.35	Unknown	0%	Q3 2023
CAIDI	793	All Other	0%	Q4 2023
Customer Minutes	1,334,496			
Customers Affected	1,683			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by a tree			Complete	Mar-23
Repair damage caused by a vehicle			Complete	May-23
Repair damage caused by a tree			Complete	Jul-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Franklin (Wpp)	S. Waynesburg	Jefferson	2,056	54
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.74	Trees Off Row-Tree	87%	Q1 2023
SAIDI	617.37	Unknown	9%	Q2 2023
SAIFI	2.86	Animal	2%	Q3 2023
CAIDI	216	All Other	3%	Q4 2023
Customer Minutes	1,269,316			
Customers Affected	5,874			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by a tree			Complete	Mar-23
Repair damage caused by a tree			Complete	Apr-23
Repair damage caused by a tree			Complete	Jul-23
Repair damage caused by a tree			Complete	Dec-23
Overhead Circuit Inspection (62914280)			To Be Completed 2024	0%

<b>West Penn</b>				
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Stahlstown	Kreager	Latrobe	289	27
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.48	Equipment Failure	52%	Q1 2023
SAIDI	3,722.58	Trees Off Row-Tree	38%	Q2 2023
SAIFI	5.22	Wind	7%	Q3 2023
CAIDI	713	All Other	2%	Q4 2023
Customer Minutes	1,075,826			
Customers Affected	1,509			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by a tree			Complete	Mar-23
Repair equipment failure			Complete	Aug-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
South Union	Rte 119 North	Uniontown	1,733	22
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.48	Trees Off Row-Tree	72%	Q1 2023
SAIDI	620.78	Unknown	17%	Q2 2023
SAIFI	1.71	Vehicle	6%	Q3 2023
CAIDI	363	All Other	5%	Q4 2023
Customer Minutes	1,075,813			
Customers Affected	2,967			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by a tree			Complete	Mar-23
Forced outage to repair damage			Complete	Apr-23
Repair damage caused by a vehicle			Complete	Aug-23
<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
Connellsville	Trotter	Pleasant Valley	1,075	19
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
SAIDI Impact	1.69	Line Failure	55%	Q1 2023
SAIDI	1,142.46	Trees Off Row-Tree	28%	Q2 2023
SAIFI	2.19	Vehicle	13%	Q3 2023
CAIDI	522	All Other	4%	Q4 2023
Customer Minutes	1,228,149			
Customers Affected	2,353			
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by a vehicle			Complete	Jan-23
Repair line failure			Complete	Mar-23
Overhead Circuit Inspection (62259755)			Complete	Jul-23
Repair damage caused by a tree			Complete	Aug-23