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February 1, 2024

**VIA E-FILING**

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
Commonwealth Keystone Building  
400 North Street, 2<sup>nd</sup> Floor  
Harrisburg, PA 17120

**Re: Joint 4<sup>th</sup> Quarter 2023 Reliability Report – FirstEnergy Pennsylvania Electric Company on behalf of Metropolitan Edison Rate District, Pennsylvania Electric Rate District, Pennsylvania Power Rate District and West Penn Power Rate District - Public Version; Docket No. M-2023-3039027**

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Dear Secretary Chiavetta:

Pursuant to 52 Pa. Code § 57.195(d) and (e), enclosed for filing by FirstEnergy Pennsylvania Electric Company (“FE PA” or the “Company”) on behalf of Metropolitan Edison Rate District (“Met-Ed”), Pennsylvania Electric Rate District (“Penelec”), Pennsylvania Power Rate District (“Penn Power”), and West Penn Power Rate District (“West Penn”) is the Joint 4th Quarter 2023 Reliability Report – Public Version (“Joint Report”).

On December 22, 2004, the Company filed an Application for Protective Order at Docket No. L-00030161. The Application was granted, allowing the Company to file proprietary versions of the quarterly reliability reports. The Proprietary Version of this Joint Report is being filed under separate cover.

Please note that included within the Joint Report, pursuant to 52 Pa. Code § 57.198(l), is a request for revision to the approved Biennial Inspection, Maintenance, Repair and Replacement Plans (“Plan”) on a nunc pro tunc basis. Specifically, the Company requests leave to slightly revise its approved pole inspection process such that poles showing signs of decay or poles that are thirty-five years old or older can be manually bored or inspected by use of a Resistograph (“Requested Revision”). The currently approved language does not allow for the option to manually bore such poles and only references Resistograph usage. Further details on this request can be found within.

Rosemary Chiavetta  
February 1, 2024  
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Please feel free to contact me if you have any questions or need additional information regarding this matter.

Sincerely,



Darsh Singh

DS/dml

Enclosures

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



## Joint 2023 4th Quarter Reliability Report

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

Pursuant to 52 Pa. Code § 57.195(d) and (e)

**Joint 4th Quarter 2023 Reliability Report –  
FirstEnergy Pennsylvania Electric Company (“FE PA) on behalf of  
Metropolitan Edison Rate District (“Met-Ed”),  
Pennsylvania Electric Rate District (“Penelec”),  
Pennsylvania Power Rate District (“Penn Power”), and  
West Penn Power Rate District (“West Penn”)<sup>1</sup>**

Section 57.195(e)(1):

*A description of each major event that occurred during the preceding quarter, including the time and duration of the event, the number of customers affected, the cause of the event and any modified procedures adopted in order to avoid or minimize the impact of similar events in the future.<sup>2</sup>*

*Major Event(s)*

There were no major events for the 4<sup>th</sup> Quarter in 2023

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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 Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company, West Penn Power Company, 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).

<sup>2</sup> For purposes of this Joint Report, all reliability reporting is based upon the Pennsylvania Public Utility Commission’s definitions for momentary outages and major events pursuant to 52 Pa. Code § 57.192.

*Section 57.195(e)(2): Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available MAIFI) for the EDC’s service territory for the preceding quarter. The report shall include the data used in calculating the indices, namely the average number of customers served, the number of sustained customer interruptions, the number of customers affected, and the customer minutes of interruption. If MAIFI values are provided, the report shall also include the number of customer momentary interruptions.*

*Reliability Index Values*

4Q 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
SAIFI	1.15	1.38	1.27	1.26	1.52	1.60	1.12	1.34	.78	1.05	1.26	1.07
CAIDI	117	140	201.66	117	141	189.20	101	121	156.51	170	204	266.17
SAIDI	135	194	256.86	148	213	303.32	113	162	121.31	179	257	285.16
MAIFI <sup>3</sup>			0.301			0.488			0.018			
Customers Served <sup>4</sup>		580,873			585,139			171,259			727,499	
Number of Sustained Interruptions		13,335			15,467			3,052			13,571	
Customers Affected		739,898			938,093			132,740			779,396	
Customer Minutes		149,205,685			177,485,102			20,774,644			207,454,636	
Number of Customer Momentary Interruptions		174,579			285,311			3,152				

<sup>3</sup> MAIFI values are not available for West Penn.

<sup>4</sup> Represents the average number of customers served during the reporting period.

## **Unique Events Occurring in 4Q 2023:**

### **Met-Ed**

- On Wednesday, December 27, 2023, a weather system moved through Pennsylvania, reaching the Met-Ed service territory in the early evening. The system produced storms with heavy precipitation, and wind gusts of approximately 30 miles per hour. On Thursday, December 28, 2023, wind gusts continued at approximately 40 miles per hour. Damage as a result of the storms included downed trees and wires, damaged or broken poles and crossarms, and damaged transformers. Extensive flooding in creek beds and roadways restricted access for crews during restoration efforts. Approximately 57% of the total outages were tree related. The reliability impact of the storm was 6.3 minutes of SAIDI, 0.02 of SAIFI frequency, and an overall storm CAIDI of 295.2 minutes.

*Section 57.195(e)(3): Rolling 12-month reliability index values (SAIFI, CAIDI, SAIDI, and if available, MAIFI) and other pertinent information such as customers served, number of interruptions, customer minutes interrupted, number of lockouts, and so forth, for the worst performing 5% of the circuits in the system. An explanation of how the EDC defines its worst performing circuits shall be included.*

#### *Worst Performing Circuits – Reliability Indices*

The methodology used to identify worst performing circuits is based on both SAIFI and SAIDI. The methodology consists of the following steps:

1. For each circuit, calculate a circuit SAIFI using only distribution-caused outages.
2. Select the worst 20% of circuits based on the highest circuit SAIFI.
3. Rank the selected circuits based on SAIDI using only distribution-caused customer minutes.
4. Select 5% of the circuits based on the highest customer minutes. These circuits are then identified as the worst performing circuits.

Met-Ed, Penelec, Penn Power, and West Penn's rankings of the 5% Worst Performing Circuits are provided in Attachment A to this report.

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

*Section 57.195(e)(4): Specific remedial efforts taken and planned for the worst performing 5% of the circuits identified in paragraph (3).*

*Worst Performing Circuits – Remedial Actions*

Met-Ed, Penelec, Penn Power, and West Penn’s Remedial Actions for Worst Performing Circuits are provided in Attachment B to this report.

*Section 57.195(e)(5): A rolling 12-month breakdown and analysis of outage causes during the preceding quarter, including the number and percentage of service outages, the number of customers interrupted, and customer interruption minutes categorized by outage cause such as equipment failure, animal contact, tree related, and so forth. Proposed solutions to identified service problems shall be reported.*

### Outages by Cause – Met-Ed

<b>Outage by Cause</b>				
<b>4th Quarter 2023 12-Month Rolling</b>	<b>Met-Ed</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	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%
<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 and enhanced tree trimming in select locations. Enhanced tree trimming removes healthy limbs overhanging primary conductors. Met-Ed’s options under the law are strictly limited when it comes to all forms of off-right-of-way (“ROW”) tree management. However, Met-Ed 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. Met-Ed is very active in pursuing this option, where available. 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 (“I&M”) programs<sup>5</sup> 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.

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<sup>5</sup> Pursuant to 52 Pa. Code § 57.198, every two years an electric distribution company shall file, and receive approval from the Commission of, a biennial plan for the periodic inspection, maintenance, repair, and replacement of its facilities. The Companies submitted their Biennial Inspection, Maintenance, Repair and Replacement Plan for the period January 1, 2021 through December 31, 2022 on October 1, 2019, which was deemed approved pursuant to 52 Pa. Code § 57.198(i).

Outages by Cause – Penelec

<b>Outage by Cause</b>				
<b>4th Quarter 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 reduce 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 off-ROW priority trees. Penelec's options under the law are strictly limited when it comes to all forms of off-ROW tree management. However, Penelec 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. Penelec is very active in pursuing this option, where available. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to Penelec's customers. In response to damage caused by the Emerald Ash Borer, a program to proactively remove ash trees off rights-of-way was completed in 2019. Beyond 2019, any additional ash trees are addressed under Penelec's hazardous tree maintenance process.

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>4th Quarter 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%
<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 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. Penn Power's options under the law are strictly limited when it comes to all forms of off-ROW tree management. However, Penn Power 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. Penn Power is very active in pursuing this option, where available. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to Penn Power's customers. In addition, Penn Power performs enhanced trimming to circuits that experience high customer interruption minutes due to vegetation, which removes limbs overhanging primary conductors.

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>4th Quarter 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%
<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 reduce 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's options under the law are strictly limited when it comes to 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. West Penn is very active in pursuing this option, where available. 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.

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

*Section 57.195(e)(6): Quarterly and year-to-date information on progress toward meeting transmission and distribution inspection and maintenance goals/objectives (for first, second, and third quarter reports only).*

Information is not required for the 4<sup>th</sup> Quarter report.

Pursuant to 52 Pa. Code § 57.198(l), the Company respectfully requests that a revision to its approved Biennial Inspection, Maintenance, Repair and Replacement Plans (“Plan”) be approved on a *nunc pro tunc* basis and that this request be given expedited treatment to the extent possible to align the Plan to its current operations.

The Company requests leave to slightly revise its approved pole inspection process such that poles showing signs of decay or poles that are thirty-five years old or older can be manually bored *or* inspected by use of a Resistograph (“Requested Revision”). The currently approved language does not allow for the option to manually bore such poles and only references Resistograph usage. The use of full excavation and manual boring is more effective to inspect the poles and would render use of the Resistograph redundant. Additionally, the Company was previously approved to perform pole treatment for poles older than 10 years in an effort to improve and extend the life of distribution poles. This process enhancement brings the distribution wood pole inspection more in line with the typical guidelines used for transmission wood poles.

Lastly, from an administrative perspective, Requested Revision would align the 2023-2024 Plan with the Company’s 2025-2026 Plan. The Requested Revision language is identical to the pole inspection language that was found to be “generally compliant” with the Commission’s regulations.<sup>6</sup> As such, approval of the Requested Revision would simply allow the Company to adjust its 2023-2024 Plan such that it is in alignment with that which was already approved for 2025-2026.

A redlined excerpt of the Requested Revision is shown in redline below and in the attached. The attachments are redline and clean versions of page 10 for each of the Plans. The Requested Revision is limited to the below, seen on page 10 of each approved Plan.

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<sup>6</sup> On September 29, 2023, West Penn, Penelec, Penn Power and Met-Ed each submitted their Plans for 2025-2026 in the above-referenced docket. On December 28, 2023, a Secretarial Letter was issued finding that the majority of the Plans generally complied with 52 Pa. Code § 57.198 - including the pole inspection language at issue here - but asking that the inspection interval for overhead distribution transformer and overhead distribution line be changed from five years to one to two years. As such, FE PA will be submitting one Plan adjusting the overhead distribution transformer inspection interval on or before February 28, 2024.

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

In addition to the visual inspection, 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. In 2023, West Penn will continue with the use of the Resistograph. In 2024 and beyond, either manual boring or the Resistograph will be used at Met-Ed's discretion.

The Company is making this request on a *nunc pro tunc* basis because the Company's pole inspection program began implementing the above-described optionality as of January 1, 2024 of this year. After an informal discussion with Commission Staff on December 21, 2023, finding the Requested Revision to be generally accepted, the Company began performing its pole inspections earlier this year. As such, this filing will ensure that the Plan can be updated to reflect the Company's current practices. Given the fact that this request is being made after the January 1, 2024 implementation date of the Requested Revision, the Company is seeking approval on a *nunc pro tunc* basis pursuant to 52 Pa. Code § 1.15(a). To ensure that such alignment happen as quickly as possible, the Company respectfully requests expedited treatment of this request.

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

*Section 57.195(e)(7): Quarterly and year-to-date information on budgeted versus actual transmission and distribution operation and maintenance expenditures in total and detailed by the EDC's own functional account code as available. (For first, second, and third quarter reports only)  
Budgeted vs. Actual T&D Operation & Maintenance Expenditures<sup>7</sup>*

Information is not required for the 4<sup>th</sup> Quarter report.

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<sup>7</sup> Budgets are subject to change.

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

*Budgeted vs. Actual T&D Operation & Maintenance Expenditures<sup>8</sup>*

*Section 57.195(e)(8): Quarterly and year-to-date information on budgeted versus actual transmission and distribution capital expenditures in total and detailed by the EDC's own functional account code or FERC account code as available. (For first, second, and third quarter reports only).*

Information is not required for the 4<sup>th</sup> Quarter report.

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<sup>8</sup> Budgets are subject to change.

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

*Section 57.195(e)(9): Dedicated staffing levels for transmission and distribution operation and maintenance at the end of the quarter, in total and by specific category (for example, linemen, technician, and electrician).<sup>9</sup>  
Staffing Levels*

Met-Ed 2023																	
Department	Position	Staffing Level				Staff Added in Quarter				Staff Movement Quarter			Staff lost in Quarter			Plan to Hire in 2024 <sup>14</sup>	
		1Q	2Q	3Q <sup>10</sup>	4Q	New Hire – Experienced	New Hire – PSI Student	New Hire Apprentice	Other <sup>11</sup>	Movement within Position <sup>12</sup>	Retirement	Voluntary Separation	Other <sup>13</sup>				
Distribution	Line Leader	45	44	46	46				1							1	
	Line Troubleshooter	33	34	33	34				1								
	Lineman	146	158	164	166	3			1	22		1		1			
Substation	Substation Leader	14	14	14	15				1								
	Substation Employee	61	65	71	70				0	1						1	
Transmission	Line Leader	2	2	2	3				1								
	Lineman	10	10	10	9				0							1	

<sup>9</sup> As ordered on March 30, 2015 at Docket Nos. D-2014-2365991, D-2014-2365992, D-2014-2365993, and D-2014-2365994, *Implementation Plan of the Focused Management Audit of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company, and West Penn Power Company* (Appendix A) (5), the Companies are directed to provide additional detail as described below in the staff reporting section in the Quarterly Reliability Reports. Specifically, for each staff member added, the Companies provide information on whether they were a new hire, whether they were already at the journeyman level, or whether they had obtained some other experienced level of training. For each staff member lost, the Companies provide the reason for the loss (retirement, voluntary separation, etc.). Additionally, the Companies also disclose the number of staff in each category that each one is planning to hire in the next calendar year.

<sup>10</sup> The 3rd quarter staffing level includes active employees with an assignment status of active - payroll eligible, leave of absence - payroll eligible, or military leave - payroll eligible.

<sup>11</sup> Includes transfers and promotions.

<sup>12</sup> Includes transfers, promotions, and progression within a position.

<sup>13</sup> Includes transfers, voluntary separations, promotions, and assignment changes for extended disability and long-term disability.

<sup>14</sup> Hiring plan is not available due to the transition from hiring through PSI program to hiring apprentices.

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

**Penelec 2023**

Department	Position	Staffing Level				Staff Added in Quarter				Staff Movement Quarter	Staff Lost in Quarter			Plan to Hire in 2024 <sup>19</sup>
		1Q	2Q	3Q <sup>15</sup>	4Q	New Hire – Experienced	New Hire – PSI Student	New Hire Apprentice	Other <sup>16</sup>	Movement within Position <sup>17</sup>	Retirement	Voluntary Separation	Other <sup>18</sup>	
<b>Distribution</b>	Line Leader	58	57	59	61	0	0	0	4	0	0	0	0	
	Line Troubleshooter	78	78	77	80	0	0	0	10	0	0	0	7	
	Lineman	130	147	148	151	0	12	0	6	2	0	0	15	
<b>Substation</b>	Substation Leader	27	28	38	29	0	0	0	1	0	0	0	1	
	Substation Employee	47	50	53	56	0	3	0	1	0	0	0	1	
<b>Transmission</b>	Line Leader	5	5	6	6	0	0	0	0	0	0	0	0	
	Lineman	18	18	17	17	0	0	0	0	0	0	0	0	
<b>Total</b>		<b>363</b>	<b>383</b>	<b>398</b>	<b>400</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>22</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>24</b>	

<sup>15</sup> The 3rd quarter staffing level includes active employees with an assignment status of active - payroll eligible, leave of absence - payroll eligible, or military leave - payroll eligible.

<sup>16</sup> Includes transfers, promotions, and assignment changes for extended disability or long-term disability.

<sup>17</sup> Includes transfers, promotions, and progression within a position.

<sup>18</sup> Includes transfers, voluntary separations, and promotions.

<sup>19</sup> Hiring plan is not available due to the transition from hiring through PSI program to hiring apprentices.

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

Penn Power 2023																
Department	Position	Staffing Level				Staff Added in Quarter				Staff Movement Quarter			Staff Lost in Quarter			Plan to Hire in 2024 <sup>24</sup>
		1Q	2Q	3Q <sup>20</sup>	4Q	New Hire – Experienced	New Hire – PSI Student	New Hire Apprentice	Other <sup>21</sup>	Movement within Position <sup>22</sup>	Retirement	Voluntary Separation	Other <sup>23</sup>			
Distribution	Line Leader	23	23	24	24				3						3	
	Line Troubleshooter	12	13	13	15				4						2	
	Lineman	43	46	49	47				2						4	
Substation	Substation Leader	4	4	4	5				1						0	
	Substation Employee	17	16	18	17				0						1	
Transmission	Line Leader	1	1	1	1				0						0	
	Lineman	5	6	6	6				0						0	
<b>Total</b>		<b>105</b>	<b>109</b>	<b>115</b>	<b>115</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>10</b>

<sup>20</sup> The 3rd quarter staffing level includes active employees with an assignment status of active - payroll eligible, leave of absence - payroll eligible, or military leave - payroll eligible.

<sup>21</sup> Includes transfers, promotions, and assignment changes for extended disability or long-term disability.

<sup>22</sup> Includes transfers, promotions, and progression within a position.

<sup>23</sup> Includes transfers, voluntary separations, and assignments changes for extended disability and long-term disability.

<sup>24</sup> Hiring plan is not available due to the transition from hiring through PSI program to hiring apprentices.

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

West Penn 2023															
Department	Position	Staffing Level			Staff Added in Quarter				Staff Movement Quarter			Staff Lost in Quarter			Plan to Hire in 2024 <sup>29</sup>
		1Q	2Q	3Q <sup>25</sup>	4Q	New Hire – Experience	New Hire – PSI Student	New Hire Apprentice	Other <sup>26</sup>	Movement within Position <sup>27</sup>	Retirement	Voluntary Separation	Other <sup>28</sup>		
<b>Distribution</b>	Line Leader	64	66	70	79				11	0			2		
	Line Troubleshooter	56	55	55	52				1	0	1		3		
	Lineman	138	144	165	157				1	10			9		
<b>Substation</b>	Substation Leader	22	21	21	22				1	0			0		
	Substation Employee	70	76	79	78				0	7			1		
<b>Transmission</b>	Line Leader	1	1	1	2				1	0			0		
	Lineman	9	9	10	11				2	1			1		
<b>Total</b>		<b>360</b>	<b>372</b>	<b>401</b>	<b>401</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17</b>	<b>18</b>	<b>1</b>	<b>0</b>	<b>16</b>		

<sup>25</sup> The 3rd quarter staffing level includes active employees with an assignment status of active - payroll eligible, leave of absence - payroll eligible, or military leave - payroll eligible.

<sup>26</sup> Includes transfers, promotions, and assignment changes for extended disability or long term disability.

<sup>27</sup> Includes transfers, promotions, and progression within a position.

<sup>28</sup> Includes transfers, promotions, involuntary separations, and assignment changes for extended disability and long term disability

<sup>29</sup> Hiring plan is not available due to the transition from hiring through PSI program to hiring apprentices.

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

*Section 57.195(e)(10): Quarterly and year-to-date information on contractor hours and dollars for transmission and distribution operation and maintenance.*

*Contractor Expenditures*

Contractor expenses are billed on a lump-sum basis. As a result, hourly information is not available.

This portion of the report is confidential.

*Section 57.195(e)(11): Monthly call-out acceptance rate for transmission and distribution maintenance workers presented in terms of both the percentage of accepted calls-out and the amount of time it takes the EDC to obtain the necessary personnel. A brief description of the EDC's call-out procedure should be included when appropriate.*

*Call-out Acceptance Rate*

Call-out percentage is defined as the number of workers accepting to total call outs.

This portion of the report is confidential.

**Call-Out Procedure:**

When an event occurs, Met-Ed, Penelec, Penn Power, and West Penn dispatch a troubleman to find and assess the cause of the outage. If the troubleman is unable to repair the damage and a crew is required, the troubleman will inform the Distribution Control Center (“DCC”). The on-duty DCC person or Customer Operations Center person, or both, will then initiate the call-out process until desired staffing levels required to complete the restoration have been achieved.

The number of unique workers called for an outage event is recorded and represents the total calls, or opportunities, for an outage event. The number of unique workers who accept the opportunity is recorded and represents the workers accepting. The elapsed time is calculated by taking the date and time of the first employee called for an event minus the date and time of the last accepting employee for that event. The call-out results from all outages experienced during a particular month are added together to derive a total value for each field.

ATTACHMENT A

Worst Performing Circuits - Reliability Indices

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Barto Sub	00706-1	Boyertown	3,008	209	0	3,356,289	10,226	5.78	893.82	3.400	328.211	0.053
2	No Bangor	00826-3	Easton	3,329	138	0	2,975,542	11,880	5.12	1332.41	3.569	250.467	0.562
3	Shawnee Sub	00899-3	Stroudsburg	1,690	67	2	2,251,778	7,517	3.88	1349.66	4.448	299.558	3.253
4	Mc Knights Gap Sub	00774-1	Reading	1,594	54	0	2,151,365	4,432	3.70	4013.33	2.780	485.416	1.819
5	Richmond Subst	00104-3	Easton	517	23	2	2,074,891	1,411	3.57	1074.31	2.729	1470.511	0.000
6	Mountain Substation	00744-4	Dillsburg	1,871	70	0	2,010,028	4,033	3.46	1106.30	2.156	498.395	0.396
7	Painted Sky	00650-1	Reading	1,779	35	3	1,968,102	9,309	3.39	1219.34	5.233	211.419	0.000
8	Flying Hills Sub	00776-1	Reading	1,492	38	1	1,819,249	3,963	3.13	1825.75	2.656	459.059	0.013
9	Mohnton Sub Sta	00144-1	Reading	976	24	2	1,781,933	3,471	3.07	2363.96	3.556	513.377	0.000
10	Angelica Sub	00129-1	Reading	708	30	2	1,673,683	2,980	2.88	1191.48	4.209	561.639	0.000
11	No Bangor	00813-3	Easton	1,364	61	0	1,625,180	4,646	2.80	553.18	3.406	349.802	0.000
12	Walker Sub	00865-3	Stroudsburg	2,928	79	0	1,619,716	6,619	2.79	1181.93	2.261	244.707	0.494
13	S Hamb Sub	00740-1	Hamburg	1,281	79	0	1,514,051	4,714	2.61	1597.64	3.680	321.182	0.000
14	Ottsville Substation	00660-3	Easton	880	80	1	1,405,926	4,092	2.42	1356.82	4.650	343.579	1.981
15	Mountain Substation	00743-4	Dillsburg	1,034	34	0	1,402,951	3,593	2.42	1710.57	3.475	390.468	0.000
16	Fox Hill Subst	00852-3	Stroudsburg	793	44	0	1,356,479	2,901	2.34	661.67	3.658	467.59	0.000
17	Birdsboro	00757-1	Reading	2,000	75	2	1,323,335	5,263	2.28	1195.80	2.632	251.441	1.854
18	Lynnville Sub	00737-1	Hamburg	1,087	82	1	1,299,836	3,277	2.24	663.42	3.015	396.654	3.624
19	Flying Hills Sub	00777-1	Reading	1,798	100	0	1,192,827	2,872	2.05	2742.85	1.597	415.33	0.641
20	Ferndale Sub	00078-3	Easton	424	40	5	1,162,967	3,822	2.00	812.12	9.014	304.282	0.894
21	Lyons Sub	00729-1	Reading	1,354	104	0	1,099,609	2,992	1.89	1328.91	2.210	367.516	0.194
22	Carsonia Sub	00766-1	Reading	817	32	0	1,085,715	2,103	1.87	712.46	2.574	516.27	0.000
23	Huffis Church	00600-1	Boyertown	1,510	146	0	1,075,817	5,665	1.85	346.97	3.752	189.906	0.093
24	Carsonia Sub	00764-1	Reading	2,905	58	1	1,007,949	4,983	1.74	649.29	1.715	202.278	1.827
25	Windsor	00797-4	York	1,551	81	1	1,007,051	5,459	1.73	840.08	3.520	184.475	0.424
26	Lorane	00560-1	Reading	1,156	33	1	971,128	2,394	1.67	986.30	2.071	405.651	1.072

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
27	Baldy Sub	00736-1	Reading	951	42	0	937,967	2,528	1.61	525.12	2.658	371.031	1.433
28	No Bangor	00838-3	Easton	1,712	65	0	898,997	2,701	1.55	772.41	1.578	332.839	0.000
29	Crossroads Sub	00728-4	York	1,162	49	0	897,546	1,742	1.55	1310.36	1.499	515.239	0.000
30	Barto Sub	00705-1	Boyertown	657	74	1	860,908	1,998	1.48	651.13	3.041	430.885	1.234
31	South Reading	00508-1	Reading	1,217	45	1	792,422	3,594	1.36	506.31	2.953	220.485	0.000
32	Birdsboro	00756-1	Reading	1,535	91	0	777,182	3,308	1.34	1462.56	2.155	234.94	2.410
33	Raubsville St	00095-3	Easton	529	35	0	773,695	1,714	1.33	359.94	3.240	451.397	0.000
34	Bath Sub	00873-3	Easton	2,149	55	0	773,508	5,311	1.33	200.30	2.471	145.643	2.125
35	Shawnee Sub	00895-3	Stroudsburg	3,833	77	0	767,754	5,557	1.32	829.80	1.450	138.16	1.337
36	W Boyertown Sub	00484-1	Boyertown	915	37	0	759,269	1,664	1.31	819.70	1.819	456.292	0.000
37	Eisenhower	00621-4	Hanover	894	7	1	732,816	2,258	1.26	1617.90	2.526	324.542	0.000
38	Lorane	00564-1	Reading	446	35	0	721,584	1,056	1.24	361.22	2.368	683.318	0.816
39	W Boyertown Sub	00714-1	Boyertown	1,878	61	0	678,380	3,759	1.17	1190.57	2.002	180.468	0.000

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Springboro	00237-52	Meadville	2,812	86	0	3,565,151	6,503	6.09	1267.83	2.313	548,232	0.003
2	Warren South	00220-41	Warren	2,831	102	0	3,534,889	12,793	6.04	1248.64	4.519	276,314	4.325
3	Salix	00070-11	Johnstown	2,230	33	0	2,714,220	5,500	4.64	1217.14	2.466	493,495	1.049
4	Falls	00297-65	Montrose	827	41	0	1,966,650	2,797	3.36	2378.05	3.382	703,128	3.611
5	Union City	00208-43	Erie	1,579	64	0	1,846,865	5,469	3.16	1169.64	3.464	337,697	1.964
6	Union City	00206-43	Erie	2,507	97	0	1,729,299	4,833	2.96	689.788	1.928	357,811	0.018
7	Morgan Street	00476-52	Meadville	788	19	0	1,677,904	1,510	2.87	2129.32	1.916	1111.19	0.085
8	Mercer Pike	00473-52	Meadville	559	15	0	1,478,473	1,026	2.53	2644.85	1.835	1441.01	0.073
9	Tiffany	00435-65	Montrose	1,285	26	1	1,463,975	4,196	2.50	1139.28	3.265	348,898	0.000
10	North Warren	00207-41	Warren	1,385	66	1	1,455,051	4,153	2.49	1050.58	2.999	350,361	1.057
11	Grover	00527-63	Towanda	1,081	92	0	1,372,887	3,402	2.35	1270.02	3.147	403,553	1.250
12	Tunkhannock	00533-65	Montrose	1,261	52	1	1,302,590	4,430	2.23	1032.98	3.513	294,038	2.939
13	Natl Forge Sw Sta	00577-41	Warren	1,205	57	0	1,287,658	5,304	2.20	1068.6	4.402	242,771	1.424
14	Blairsville East	00080-13	Indiana	1,030	31	0	1,252,105	3,950	2.14	1215.64	3.835	316,989	1.200
15	N Meshoppen Tran	00534-65	Montrose	867	65	0	1,234,647	3,380	2.11	1424.04	3.899	365.28	0.459
16	Revloc	00069-72	Altoona	561	13	1	1,231,983	1,201	2.11	2196.05	2.141	1025.8	0.004
17	Russell Hill	00282-65	Montrose	1,025	57	1	1,220,849	5,217	2.09	1191.07	5.090	234,014	0.000
18	Turner Street	00488-52	Meadville	836	29	0	1,204,222	2,239	2.06	1440.46	2.678	537,839	0.000
19	Lewis Run	00409-42	Bradford	736	32	0	1,152,647	3,828	1.97	1566.1	5.201	301,109	1.050
20	Seward	00075-11	Johnstown	928	41	1	1,103,782	3,099	1.89	1189.42	3.339	356,174	1.953
21	Blairsville East	00082-13	Indiana	1,578	44	0	1,091,189	3,084	1.86	691.501	1.954	353,823	0.368
22	Montrose	00457-65	Montrose	668	28	2	937,651	3,197	1.60	1403.67	4.786	293,291	2.536
23	East Sayre	00518-61	Towanda	966	31	1	874,838	2,459	1.50	905.629	2.546	355.77	0.063
24	Rolling Meadows	00249-31	Erie	2,144	17	2	867,198	4,894	1.48	404.477	2.283	177,196	0.394
25	Dubois	00131-23	Dubois	584	34	0	777,205	3,711	1.33	1330.83	6.354	209,433	0.022
26	North Warren	00596-41	Warren	1,130	38	1	772,210	1,878	1.32	683.372	1.662	411,187	1.978
27	Brooklyn	00749-65	Montrose	516	32	0	762,667	1,264	1.30	1478.04	2.450	603,376	0.000
28	Edinboro	00420-34	Erie	1,617	32	1	742,219	6,524	1.27	459.01	4.035	113,767	1.198

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
29	Emlenton	00322-51	Oil City	462	31	0	730,332	2,210	1.25	1580.81	4.784	330,467	1.422
30	Industrial Park	00796-65	Montrose	370	21	0	729,685	1,090	1.25	1972.12	2.946	669,436	2.911
31	Grandview	00353-51	Oil City	869	27	0	719,949	2,004	1.23	828.48	2.306	359,256	0.058
32	Madera	00166-22	Phillipsburg	2,157	70	0	706,569	4,486	1.21	327.57	2.080	157,505	0.136
33	Meshoppen	00283-65	Montrose	394	25	0	703,136	1,745	1.20	1784.61	4.429	402,943	6.612
34	Ashville	00061-71	Altoona	493	16	0	683,948	1,329	1.17	1387.32	2.696	514,634	0.000
35	N Meshoppen Tran	00531-65	Montrose	425	44	2	679,033	4,528	1.16	1597.72	10.654	149,963	0.181
36	Tionesta	00344-51	Oil City	520	15	2	667,074	2,258	1.14	1282.83	4.342	295,427	3.960
37	East Towanda	00525-62	Towanda	676	45	0	663,022	1,965	1.13	980.802	2.907	337,416	0.225
38	Platea	00432-34	Erie	628	59	0	647,915	2,054	1.11	1031.71	3.271	315,441	1.955
39	Avery	00791-65	Montrose	380	18	1	615,689	858	1.05	1620.23	2.258	717,586	0.147
40	Scalp Level	00932-11	Johnstown	1,102	31	1	601,433	4,285	1.03	545.765	3.888	140,358	0.977
41	Ppl West	PL097-62	Towanda	103	16	8	575,442	1,371	0.98	5586.82	13.311	419,724	0.000
42	Ufica Junction	00511-51	Oil City	401	38	0	574,219	2,215	0.98	1431.97	5.524	259,241	0.875
43	Crown	00519-51	Oil City	648	35	0	567,769	2,207	0.97	876.187	3.406	257,258	0.000
44	Grandview	00354-51	Oil City	529	28	1	555,992	1,177	0.95	1051.02	2.225	472,381	0.457
45	Marienville	00327-51	Oil City	752	31	0	523,097	1,636	0.89	695.608	2.176	319,741	0.000
46	Madera	00147-22	Phillipsburg	1,079	22	0	518,122	1,844	0.89	480.187	1.709	280,977	0.219
47	Laurel Lake Sub Tran	00449-65	Montrose	530	31	2	516,191	2,378	0.88	973.945	4.487	217,069	0.108
48	Grandview	00524-51	Oil City	383	20	0	515,273	909	0.88	1345.36	2.373	566,857	0.000
49	Mount Union	00154-82	Lewistown	1,178	14	2	514,951	3,904	0.88	437.14	3.314	131,903	0.017
50	Shippensburg I	00630-83	Shippensburg	1,787	39	0	513,127	4,711	0.88	287.144	2.636	108,921	0.001
51	Northeast	00592-31	Erie	1,595	62	1	508,726	4,853	0.87	318.95	3.043	104,827	0.000
52	Bradford South	00106-42	Bradford	1,197	21	1	504,781	2,077	0.86	421.705	1.735	243,034	1.001
53	Covington	00727-63	Mansfield Pa	268	16	0	499,636	840	0.85	1864.31	3.134	594,805	0.000
54	Brookville	00125-23	Dubois	621	21	0	494,149	1,521	0.84	795.731	2.449	324,884	1.963
55	Division Street	00561-31	Erie	348	3	0	487,156	688	0.83	1399.87	1.977	708,076	0.000
56	Lenox	00755-65	Montrose	698	35	0	479,228	1,434	0.82	686.573	2.054	334,19	0.000

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
57	Union City	00239-43	Eric	818	37	1	473,460	2,640	0.81	578.802	3.227	179,341	1.417
58	Meyersdale North	00022-12	Somerset	1,557	40	0	463,675	4,395	0.79	297.8	2.823	105,501	0.843
59	Timblin	00103-23	Dubois	704	27	0	460,507	1,892	0.79	654.129	2.688	243,397	1.530
60	Polk	00330-51	Oil City	536	20	0	455,403	1,293	0.78	849.632	2.412	352,206	1.985
61	Athens	00511-61	Towanda	776	26	1	444,632	1,851	0.76	572.979	2.385	240,212	0.521
62	Cranberry	00350-51	Oil City	1,079	22	0	443,837	1,659	0.76	411.341	1.538	267,533	0.000

Joint 2022 Quarterly Reliability Report for period for period ending December 31, 2023.

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

Penn Power													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Sharpsville	W-219	Clark	1,881	15	0	887,978	1,679	5.19	472.08	0.893	528.8731	0.000
2	Sharpsville	W-218	Clark	1,370	25	1	837,500	2,966	4.89	611.31	2.165	282.3668	0.000
3	Camp Reynolds	W-134	Clark	1,800	65	0	704,684	2,713	4.11	391.49	1.507	259.7435	0.000
4	Conneaut	W-173	Clark	1,927	29	1	661,408	4,161	3.86	343.23	2.159	158.9541	0.000
5	Hartstown	W-126	Clark	2,243	62	1	559,873	4,494	3.27	249.61	2.004	124.5823	0.286
6	Mercer	W-128	Clark	1,224	56	0	449,842	1,070	2.63	367.52	0.874	420.4131	0.076
7	Koppel	D-531	New Castle	1,025	33	1	407,703	2,960	2.38	397.76	2.888	137.7375	0.002
8	Seneca	W700	Zelienople	912	38	0	351,412	1,733	2.05	385.32	1.900	202.7767	0.000
9	Richard	W745	Zelienople	662	10	1	314,541	1,369	1.84	475.14	2.068	229.7597	0.000
10	Ingomar	D620	Zelienople	1,221	5	0	295,937	1,450	1.73	242.37	1.188	204.0945	0.000

Joint 2022 Quarterly Reliability Report for period for period ending December 31, 2023.

West Penn												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
1	South Union	York Run	Uniontown	1,747	37	0	5,347,467	3,297	7.350	3060.943	1.887	1621.919
2	Donegal	Champion	Pleasant Valley	1,185	39	2	3,980,765	4,112	5.472	3359.295	3.470	968.0849
3	Rutan	Bristoria	Jefferson	1,074	63	0	2,395,622	3,953	3.293	2230.561	3.681	606.0263
4	Bethlen	Laurel Valley	Latrobe	1,420	66	1	2,213,875	3,540	3.043	1559.067	2.493	625.3884
5	Fort Palmer	Oakgrove	Latrobe	680	26	0	2,164,389	1,193	2.975	3182.925	1.754	1814.241
6	Karns City	Kaylor	Butler	1,150	34	1	1,982,321	3,955	2.725	1723.757	3.439	501.219
7	Bethlen	Laughlinton	Latrobe	1,096	68	0	1,891,963	2,543	2.601	1726.244	2.320	743.9886
8	Bethelboro	Coolspring	Uniontown	1,453	43	0	1,815,452	2,427	2.495	1249.451	1.670	748.0231
9	Normalville	Indianhead	Pleasant Valley	562	28	0	1,704,200	1,672	2.343	3032.384	2.975	1019.258
10	Normalville	Mill Run	Pleasant Valley	580	26	0	1,697,705	922	2.334	2927.078	1.590	1841.329
11	Springfield Pike	Rock Ridge	Pleasant Valley	721	20	0	1,691,293	2,542	2.325	2345.760	3.526	665.3395
12	Butler	Penn St	Butler	2,510	24	1	1,669,216	4,576	2.294	665.026	1.823	364.7762
13	North Union	Phillips	Uniontown	1,476	33	1	1,556,977	2,127	2.140	1054.862	1.441	732.0061
14	Amity	Amity	Washington Pa	533	26	0	1,540,193	2,230	2.117	2889.668	4.184	690.6695
15	South Union	Brownfield	Uniontown	1,819	36	1	1,508,242	5,004	2.073	829.160	2.751	301.4073
16	Frazier	Star Junction	Pleasant Valley	1,741	19	1	1,397,601	2,528	1.921	802.758	1.452	552.8485
17	Laurelville	Laurelville	Pleasant Valley	661	33	0	1,342,685	1,468	1.846	2031.293	2.221	914.6356
18	Vanceville	Vanceville	Charlertoi	1,380	69	0	1,335,005	4,033	1.835	967.395	2.922	331.0203
19	Ethel Springs	Railroad	Latrobe	717	15	1	1,334,496	1,683	1.834	1861.222	2.34728033	792.9269
20	Houston	Megovern	Washington Pa	2,103	43	0	1,334,248	5,774	1.834	634.450	2.74560152	231.0786
21	Franklin (Wpp)	South Waynesburg	Jefferson	2,056	54	2	1,269,316	5,874	1.745	617.372	2.85700389	216.0906
22	Piney Fork	Cochran Mill	Charlertoi	1,248	14	1	1,260,204	2,612	1.732	1009.779	2.09294872	482.4671
23	Connellsville	Trotter	Pleasant Valley	1,075	19	1	1,228,149	2,353	1.688	1142.464	2.18883721	521.9503
24	Waterville	Waterville	State College	361	20	1	1,218,027	2,454	1.674	3374.036	6.79778393	496.3435
25	Ethel Springs	Peach Hollow	Latrobe	2,407	36	1	1,169,544	3,698	1.608	485.893	1.536	316.264
26	Frazier	Perry	Pleasant Valley	734	30	1	1,160,218	3,219	1.595	1580.678	4.386	360.428
27	Pangburn Hill	Pangburn Hill	Charlertoi	742	25	0	1,117,390	1,397	1.536	1505.916	1.883	799.850
28	Dutch Fork	Claysville	Washington Pa	1,638	56	1	1,113,102	3,242	1.530	679.549	1.979	343.338

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

West Penn												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
29	Piney Fork	Knothole	Charleroi	1,676	17	0	1,099,226	2,037	1.565	655.863	1.456	450.318
30	Stahlstown	Kreager	Latrobe	289	27	1	1,075,826	2,134	1.551	3722.581	5.221	712.940
31	South Union	Rte 119 North	Uniontown	1,733	22	0	1,075,813	2,528	1.545	620.781	1.712	362.593
32	Footedale	Footedale	Uniontown	1,188	35	0	1,006,959	4,566	1.524	847.609	1.758	482.260
33	Roundhill	Roundhill	Charleroi	956	29	1	988,992	1,588	1.503	1034.510	2.450	422.285
34	Peters	McMurray	Boyce	1,495	34	1	987,157	3,965	1.441	660.306	3.960	166.749
35	Bethlen	Darlington	Latrobe	1,242	70	0	942,372	2,441	1.432	758.754	3.339	227.242
36	Amity	Banetown	Washington Pa	1,492	50	0	899,125	1,973	1.418	602.631	1.899	317.264
37	Buckeye No.3	Paisley	Jefferson	659	23	0	891,836	2,961	1.352	1353.317	2.134	634.307
38	Gordon	Wolfdale	Washington Pa	2,082	35	3	850,452	2,280	1.352	408.478	3.809	107.231
39	Shaffers Corner	Seventh St Rd	Arnold	2,058	25	1	844,789	1,856	1.334	410.490	1.728	237.500
40	Charleroi	Warner	Charleroi	1,217	26	0	840,391	2,818	1.286	690.543	1.776	388.710

Joint 2022 Quarterly Reliability Report for period for period ending December 31, 2023.

ATTACHMENT B

Worst Performing Circuits – Remedial Actions

As ordered on March 30, 2015 at Docket Nos. D-2014-2365991, D-2014-2365992, D-2014-2365993, and D-2014-2365994, *Implementation Plan of the Focused Management Audit of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company, and West Penn Power Company* (Appendix A)(1), the Companies were directed to provide additional detail in their Commission Quarterly Reliability Report of the 5% of worst performing circuits in the Commission Quarterly Reliability Reports to highlight those circuits that appear multiple times on Quarterly Reliability Reports, but not necessarily in four quarters in a calendar year. For each Quarterly Reliability Report filed pursuant to 52 Pa. Code § 57.195, this additional detail shall include highlighting those worst performing circuits that have appeared in two or more Quarterly Reliability Reports in the past four quarters.

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
1	Barto Sub	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 LTIIP Engineering Review				Complete	Feb-23
	Circuit Improvement Project LTIIP Engineering Review				Complete	Feb-23
	Install Supervisory Control and Data Acquisition (SCADA) LTIIP 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%
Rank	Substation	Circuit	District	Customers	Outages	
2	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

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
3	Shawnee Sub	00899-3	Stroudsburg	1,690	67
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	3.88	Unknown	57%	2Q 2023
	SAIDI	1,349.66	Trees Off Row-Tree	28%	3Q 2023
	SAIFI	4.45	Equipment Failure	13%	4Q 2023
	CAIDI	300	All Other	2%	
	Customer Minutes	2,251,778			
	Customers Affected	7,517			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Mainline 34.5 kV forestry aerial patrol			Complete	Aug-23
	Mainline Forestry Aerial Patrol			Complete	Jul-23
	Engineering circuit tie addition review			Complete	Jan-24
	Upgrade Supervisory Control and Data Acquisition (SCADA) devices (2 devices)			To be completed 2024	25%
	Cycle tree trimming			To be completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
4	Mc Knights Gap Sub	00774-1	Reading	1,594	54
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	3.70	Trees Off Row-Tree	68%	3Q 2023
	SAIDI	4,013.33	Human Error -Non-Company	23%	4Q 2023
	SAIFI	2.78	Trees Off Row-Limb	2%	
	CAIDI	485	All Other	7%	
	Customer Minutes	2,151,365			
	Customers Affected	4,432			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Upgrade mainline switch			Complete	Jan-23
	Cycle tree trimming			To be completed 2024	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
5	Richmond Subst	00104-3	Easton	517	23
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	3.57	Trees Off Row-Limb	57%	3Q 2023
	SAIDI	1,074.31	Trees Off Row-Tree	22%	4Q 2023
	SAIFI	2.73	Equipment Failure	18%	
	CAIDI	1,471	All Other	2%	
	Customer Minutes	2,074,891			
	Customers Affected	1,411			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Targeted forestry trimming			Complete	Oct-23
	Cycle tree trimming			To be completed 2024	0%
	Install switch			To be completed 2024	25%
Rank	Substation	Circuit	District	Customers	Outages
6	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
Rank	Substation	Circuit	District	Customers	Outages
7	Painted Sky	00650-1	Reading	1,779	35
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	3.16	Trees Off Row-Tree	96%	3Q 2023
	SAIDI	1,880.49	Line Failure	2%	
	SAIFI	3.58	Trees Off Row-Limb	1%	
	CAIDI	526	All Other	1%	
	Customer Minutes	1,833,481			
	Customers Affected	3,487			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Install additional line sectionalizing device			Complete	Nov-23
	Cycle tree trimming			To be completed 2024	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
8	Flying Hills Sub	00776-1	Reading	1,492	38
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	3.13	Equipment Failure	57%	3Q 2023
	SAIDI	1,825.75	Trees Off Row-Limb	28%	4Q 2023
	SAIFI	2.66	Trees Off Row-Tree	11%	
	CAIDI	459	All Other	4%	
	Customer Minutes	1,819,249			
	Customers Affected	3,963			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Cycle Tree Trimming			To be Completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
9	Mohnton Sub Sta	00144-1	Reading	976	24
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	3.07	Trees Off Row-Tree	98%	3Q 2023
	SAIDI	2,363.96	Trees On Row	1%	4Q 2023
	SAIFI	3.56	Trees Off Row-Limb	0%	
	CAIDI	513	All Other	1%	
	Customer Minutes	1,781,933			
	Customers Affected	3,471			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Cycle Tree Trimming			To be completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
10	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	1,191.48	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>
	Cycle tree trimming			Complete	Jun-23

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
11	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
Rank	Substation	Circuit	District	Customers	Outages
12	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%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
13	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%
Rank	Substation	Circuit	District	Customers	Outages
14	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	8/23/202

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
15	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
Rank	Substation	Circuit	District	Customers	Outages
16	Fox Hill Subst	00852-3	Stroudsburg	793	44
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.34	Trees Off Row-Tree	87%	3Q 2023
	SAIDI	661.67	Equipment Failure	7%	4Q 2023
	SAIFI	3.66	Trees Off Row-Limb	3%	
	CAIDI	468	All Other	3%	
	Customer Minutes	1,356,479			
	Customers Affected	2,901			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Replace/repair high priority items identified during overhead circuit patrol			Complete	Dec-23
Cycle tree trimming			To be completed 2024	0%	
Rank	Substation	Circuit	District	Customers	Outages
17	Birdsboro	00757-1	Reading	2,000	75
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.28	Trees Off Row-Tree	53%	2Q 2023
	SAIDI	1,195.80	Trees Off Row-Limb	29%	3Q 2023
	SAIFI	2.63	Unknown	8%	4Q 2023
	CAIDI	251	All Other	10%	
	Customer Minutes	1,323,335			
	Customers Affected	5,263			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Cycle tree trimming			Complete	Dec-22
	Install TripSaver LTIP			Complete	Jan-23
Replace priority mainline poles (2 poles)			Complete	Jul-23	
Overhead circuit inspection			Complete	Sep-23	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
18	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
Rank	Substation	Circuit	District	Customers	Outages
19	Flying Hills Sub	00777-1	Reading	1,798	100
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.05	Trees Off Row-Tree	64%	1Q 2023
	SAIDI	2,742.85	Trees Off Row-Limb	12%	3Q 2023
	SAIFI	1.60	Lightning	7%	4Q 2023
	CAIDI	415	All Other	17%	
	Customer Minutes	1,192,827			
	Customers Affected	2,872			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Targeted Mainline Circuit Rehabilitation Cutout Replacements LTIIP (3 units)			Complete	Apr-23
Targeted Mainline Circuit Rehabilitation LTIIP (2 rehabs)			Complete	Dec-23	
Rank	Substation	Circuit	District	Customers	Outages
20	Ferndale Sub	00078-3	Easton	424	40
	S Hamb Sub		00741-1		Hamburg
	SAIDI Impact	2.00	Trees Off Row-Tree	70%	3Q 2023
	SAIDI	812.12	Trees Off Row-Limb	11%	4Q 2023
	SAIFI	9.01	Equipment Failure	10%	
	CAIDI	304	All Other	8%	
	Customer Minutes	1,162,967			
	Customers Affected	3,822			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Cycle Tree Trimming			To be completed 2024	0%

Met-Ed					
21	Substation	Circuit	District	Customers	Outages
		Lyons Sub	00729-1	Reading	1,354
	Reliability		Outage by Cause		Previously Ranked
	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			
	Remedial Action Planned or Taken			Status	Progress
	Install additional mainline disconnects LTIIP			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%
Rank	Substation	Circuit	District	Customers	Outages
22	Carsonia Sub	00766-1	Reading	817	32
	Reliability		Outage by Cause		Previously Ranked
	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			
	Remedial Action Planned or Taken			Status	Progress
	Targeted tree trimming and removals			Complete	Jul-23
	Install Supervisory Control and Data Acquisition (SCADA) (1 device)			Complete	Aug-23

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
23	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 LTIP			Complete	Mar-23
	Targeted tree trimming and removals			Complete	May-23
	Targeted Circuit Rehabilitation LTIP			Complete	Nov-23
Rank	Substation	Circuit	District	Customers	Outages
24	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 LTIP			Complete	Jan-23
	Targeted Mainline Circuit Rehabilitation LTIP Engineering Review			Complete	Feb-23
	Targeted tree trimming and removals			Complete	Dec-23

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
25	Windsor	00797-4	York	1,551	81
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.73	Trees Off Row-Tree	52%	2Q 2023
	SAIDI	840.08	Vehicle	16%	3Q 2023
	SAIFI	3.52	Wind	9%	4Q 2023
	CAIDI	184	All Other	22%	
	Customer Minutes	1,007,051			
	Customers Affected	5,459			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection			Complete	Aug-23
	Replace priority poles (11 poles)			Complete	Oct-23
	Construct circuit tie LTIP			Complete	Dec-23
	Replace/repair high priority items identified during overhead circuit patrol			To be completed 2024	48%
Rank	Substation	Circuit	District	Customers	Outages
26	Lorane	00560-1	Reading	1,156	33
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.67	Trees Off Row-Tree	56%	3Q 2023
	SAIDI	986.30	Equipment Failure	34%	4Q 2023
	SAIFI	2.07	Trees Off Row-Limb	8%	
	CAIDI	406	All Other	2%	
	Customer Minutes	971,128			
	Customers Affected	2,394			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection			Complete	Nov-23
	Targeted Mainline Circuit Rehabilitation LTIP			Complete	Dec-23
	Create additional circuit tie LTIP			To be completed 2024	50%
Rank	Substation	Circuit	District	Customers	Outages
27	Baldy Sub	00736-1	Reading	951	42
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.61	Trees Off Row-Tree	87%	4Q 2023
	SAIDI	525.12	Forced Outage	3%	
	SAIFI	2.66	Equipment Failure	3%	
	CAIDI	371	All Other	7%	
	Customer Minutes	937,967			
	Customers Affected	2,528			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Install Additional Mainline Sectionalizing Devices			Complete	Feb-23
Install Additional Supervisory Control and Data Acquisition (SCADA) switches			Complete	Mar-23	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
28	No Bangor	00838-3	Easton	1,712	65
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.55	Trees Off Row-Tree	47%	4Q 2023
	SAIDI	772.41	Forced Outage	20%	
	SAIFI	1.58	Unknown	10%	
	CAIDI	333	All Other	22%	
	Customer Minutes	898,997			
	Customers Affected	2,701			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Cycle Tree Trimming			Complete	Dec-23
Rank	Substation	Circuit	District	Customers	Outages
29	Crossroads Sub	00728-4	York	1,162	49
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.55	Trees Off Row-Tree	66%	3Q 2023
	SAIDI	1,310.36	Vehicle	14%	4Q 2023
	SAIFI	1.50	Wind	6%	
	CAIDI	515	All Other	13%	
	Customer Minutes	897,546			
	Customers Affected	1,742			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Install Supervisory Control and Data Acquisition (SCADA) (2 devices)			Complete	Mar-23
	Cycle tree trimming			Complete	Oct-23
Rank	Substation	Circuit	District	Customers	Outages
30	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%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
31	South Reading	00508-1	Reading	1,217	45
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.36	Trees Off Row-Tree	42%	3Q 2023
	SAIDI	506.31	Equipment Failure	42%	4Q 2023
	SAIFI	2.95	Line Failure	9%	
	CAIDI	220	All Other	6%	
	Customer Minutes	792,422			
	Customers Affected	3,594			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Cycle tree trimming			Complete	Dec-22
	Replace priority mainline poles (2 poles)			Complete	Jul-23
Rank	Substation	Circuit	District	Customers	Outages
32	Birdsboro	00756-1	Reading	1,535	91
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.34	Trees Off Row-Tree	72%	2Q 2023
	SAIDI	1,462.56	Trees Off Row-Limb	18%	3Q 2023
	SAIFI	2.16	Equipment Failure	5%	4Q 2023
	CAIDI	235	All Other	5%	
	Customer Minutes	777,182			
	Customers Affected	3,308			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Replace priority mainline pole LTIIP			Complete	Mar-23
	Targeted Circuit Rehabilitation LTIIP			Complete	May-23
	Overhead circuit inspection			Complete	Nov-23
Rank	Substation	Circuit	District	Customers	Outages
33	Raubsville St	00095-3	Easton	529	35
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.33	Trees Off Row-Limb	62%	2Q 2023
	SAIDI	359.94	Vehicle	17%	3Q 2023
	SAIFI	3.24	Trees Off Row-Tree	9%	4Q 2023
	CAIDI	451	All Other	12%	
	Customer Minutes	773,695			
	Customers Affected	1,714			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
				1.05	Trees Off Row-Tree
	Targeted forestry inspection			Complete	Oct-23
	Cycle Tree Trimming			To be Completed 2024	0%



Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
37	Eisenhower	00621-4	Hanover	894	7
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.26	Trees Off Row-Limb	96%	4Q 2023
	SAIDI	1,617.90	Forced Outage	3%	
	SAIFI	2.53	Equipment Failure	0%	
	CAIDI	325	All Other	0%	
	Customer Minutes	732,816			
	Customers Affected	2,258			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Engineering circuit protection review			Complete	Jan-24
Rank	Substation	Circuit	District	Customers	Outages
38	Lorane	00564-1	Reading	446	35
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.24	Trees Off Row-Tree	72%	4Q 2023
	SAIDI	361.22	Trees Off Row-Limb	13%	
	SAIFI	2.37	Equipment Failure	6%	
	CAIDI	683	All Other	10%	
	Customer Minutes	721,584			
	Customers Affected	1,056			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection			Complete	Oct-23
	Create additional circuit tie LTIP			To be completed 2024	50%
Rank	Substation	Circuit	District	Customers	Outages
39	W Boyertown Sub	00714-1	Boyertown	1,878	61
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.17	Equipment Failure	39%	1Q 2023
	SAIDI	1,190.57	Trees Off Row-Limb	27%	2Q 2023
	SAIFI	2.00	Trees Off Row-Tree	20%	4Q 2023
	CAIDI	180	All Other	14%	
	Customer Minutes	678,380			
	Customers Affected	3,759			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Construct circuit tie LTIP			Complete	Feb-23
	Install Supervisory Control and Data Acquisition (SCADA) LTIP Engineering Review			Complete	Feb-23

<b>Met-Ed</b>					
<b>Unranked circuits appearing 2 or more quarters in the last 4 quarters</b>					
<b>Substation</b>	<b>Circuit</b>	<b>1Q 2023</b>	<b>2Q 2023</b>	<b>3Q 2023</b>	<b>4Q 2023</b>
Gilbert Sub – Met Ed	00029-3	x	x	x	
Wind Gap Sub	00600-3		x	x	
North Cornwall Sub	00610-2	x	x		
Snydersville Sub	00621-3	x	x		
Stroudsburg	00693-3	x	x		
Bushkill Falls	00698-3	x	x		
W Boyertown Sub	00715-1	x	x	x	
Gardners	00752-4	x	x		
Birdsboro	00759-1	x	x		
Mc Knights Gap Sub	00773-1	x	x		
Bernville Sub	00787-1	x	x	x	
River View Sub	00793-1	x	x		
Glendon	00818-3		x	x	

<b>Met-Ed</b>				
<b>Unranked circuits with remedial actions scheduled to be or recently completed</b>				
<b>Substation</b>	<b>Circuit</b>	<b>Remedial Action Planned or Taken</b>	<b>Status of Remedial Work</b>	<b>Progress of Remedial Work or Date Completed</b>
Bernville Sub	00787-1	Replace backlog pole LTIIP (1 pole)	Complete	Apr-24
Birdsboro	00759-1	Overhead circuit inspection	Complete	May-24
Birdsboro	00759-1	Install Supervisory Control and Data Acquisition (SCADA) LTIIP (4 devices)	Complete	Jul-24
Bushkill Falls	00698-3	Mainline Forestry Aerial Patrol	Complete	Jul-24
Gardners	00752-4	Replace priority poles (8 poles)	Complete	Feb-24
Gardners	00752-4	Install Supervisory Control and Data Acquisition (SCADA) device LTIIP	Complete	Mar-24
Gardners	00752-4	Cycle Tree Trimming	Complete	Oct-24
Gilbert Sub - Met-Ed	00029-3	Mainline Forestry Aerial Patrol	Complete	Jul-24
Gilbert Sub - Met-Ed	00029-3	Overhead circuit inspection	Complete	Nov-24
Glendon	00818-3	Overhead circuit inspection	Complete	Jul-24
Glendon	00818-3	Mainline Forestry Aerial Patrol	Complete	Jul-24
Mc Knights Gap Sub	00773-1	Upgrade mainline switch LTIIP	Complete	Jan-24
North Cornwall Sub	00610-2	Circuit rehab project LTIIP	Complete	Jun-24
North Cornwall Sub	00610-2	Install Supervisory Control and Data Acquisition (SCADA) LTIIP (1 device)	Complete	Jul-24
River View Sub	00793-1	Overhead circuit inspection	Complete	Jun-24
River View Sub	00793-1	Targeted tree trimming and removals	Complete	23-Jul
Snydersville Sub	00621-3	Replace 2022 priority poles (2 poles)	Complete	23-Oct
Stroudsburg	00693-3	Protective setting review on line device to adjust settings for current line configuration	Complete	Mar-24
W Boyertown Sub	00715-1	Targeted forestry inspections (Old State Rd & Long Lane)	Complete	Jan-24
W Boyertown Sub	00715-1	Repair/replace priority items from overhead circuit inspection	Complete	May-24
Wind Gap Sub	00600-3	Targeted mainline patrol	Complete	Aug-24
Bairs Sub	00571-4	Replace backlog poles (38 poles)	Complete	Mar-24
Bairs Sub	00571-4	Install Animal Guarding CEMI (2 locations)	Complete	Mar-24
Carsonia Sub	00767-1	Install TripSaver LTIIP	Complete	Jan-24
Carsonia Sub	00767-1	Install Supervisory Control and Data Acquisition (SCADA) LTIIP Engineering Review	Complete	23-Feb
Carsonia Sub	00767-1	Replace Priority One mainline pole	Complete	Mar-24
Carsonia Sub	00767-1	Cycle tree trimming	Complete	Apr-24
Hill Sub	00735-4	Overhead circuit inspection	Complete	Nov-24
Lynnville Sub	00735-1	Replace Priority One Mainline Poles (2 poles)	Complete	Feb-24
Pine Lane Sub	00713-1	Cycle Tree Trimming	Complete	Jun-24
Delabole Sub	00034-3	Overhead circuit inspection	Complete	Feb-24
Delabole Sub	00034-3	Mainline Forestry Aerial Patrol	Complete	Jul-24
Ferndale Sub	00077-3	Cycle tree trimming	To be completed 2024	85%

Submitted Pursuant to 52 Pa. Code § 57.195(d) and (e)

Ferndale Sub	00871-3	Mid cycle forestry inspection	Complete	23-May
Friedensburg Sub	00141-1	Targeted forester inspection (Forgedale Rd)	Complete	Mar-24
Friedensburg Sub	00141-1	Targeted tree removals (Forgedale Rd)	Complete	23-May
North Lebanon	00712-2	Install Supervisory Control and Data Acquisition (SCADA) switch LTIIIP (2 devices)	Complete	23-May
Shawnee Sub	00860-3	Targeted mainline patrol	Complete	Aug-24
S Hamb Sub	00741-1	Create additional circuit tie LTIIIP	Complete	Feb-24
S Hamb Sub	00741-1	Repair/Replace priority item from overhead inspection	Complete	Nov-24
S Hamb Sub	00741-1	Cycle tree trimming	To be completed 2024	83%
Ringing Rocks Sub	00708-1	Overhead circuit inspection	Complete	Jul-24
County Line Sub	00703-1	Cycle tree trimming	To be completed 2024	43%
Earlville	00126-1	Construct circuit tie LTIIIP	Complete	23-Feb
Earlville	00126-1	Cycle tree trimming	Complete	Aug-24
Gardners	00750-4	Install Supervisory Control and Data Acquisition (SCADA) LTIIIP (2 Devices)	Complete	Feb-24
Hokes Sub	00587-4	Install Supervisory Control and Data Acquisition (SCADA) recloser LTIIIP	Complete	Jan-24
Pine Lane Sub	00720-1	Circuit improvement project LTIIIP	Complete	Feb-24
Pine Lane Sub	00720-1	Cycle Tree Trimming	Complete	Aug-24
Violet Hill Sub	00527-4	Circuit Rehab from AEC Metering Point up to upstream recloser	Complete	Jan-24

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
1	Springboro	00237-52	Meadville	2,812	86	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	6.09	Wind	83%	1Q 2023	
	SAIDI	1,267.83	Trees Off Row-Tree	6%	3Q 2023	
	SAIFI	2.31	Bird	4%		
	CAIDI	548.23	All Other	7%		
	Customer Minutes	3,565,151				
	Customers Affected	6,503				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by wind				Complete	Mar-23
Rank	Substation	Circuit	District	Customers	Outages	
2	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%		
	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	

Penelec						
3	Rank	Union City	00239-43	Erie	783	38
		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%	
		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
4	Rank	Substation	Circuit	District	Customers	Outages
		Falls	00297-65	Montrose	827	41
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
		SAIDI Impact	3.36	Trees Off Row-Tree	89%	4Q 2022
		SAIDI	2,378.05	Unknown	6%	2Q 2023
		SAIFI	3.38	Line Failure	3%	3Q 2023
		CAIDI	703.13	All Other	2%	
		Customer Minutes	1,966,650			
		Customers Affected	2,797			
	<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 damage caused by trees				Complete	Sep-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
5	Union City	00208-43	Erie	1,579	64
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	3.16	Wind	59%	3Q 2023
	SAIDI	1,169.64	Trees Off Row-Tree	21%	
	SAIFI	3.46	Lightning	8%	
	CAIDI	337.70	All Other	12%	
	Customer Minutes	1,846,865			
	Customers Affected	5,469			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by wind			Complete	Jul-23
	Repair damage caused by trees			Complete	Jul-23
	Repair damage caused by lightning			Complete	Jul-23
Rank	Substation	Circuit	District	Customers	Outages
6	Union City	00206-43	Erie	2,507	97
	SAIDI Impact		2.96		Trees Off Row-Tree
	SAIDI	689.79	Lightning	27%	1Q 2023
	SAIFI	1.93	Equipment Failure	12%	3Q 2023
	CAIDI	357.81	All Other	9%	
	Customer Minutes	1,729,299			
	Customers Affected	4,833			
	SAIDI Impact	2.96	Trees Off Row-Tree	52%	4Q 2022
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure (forced outage)			Complete	Jul-22
	Repair equipment failure			Complete	Feb-23
	Repair damage caused by trees during a storm			Complete	Mar-23
	Repair damage caused by lightning			Complete	Jul-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
7	Morgan Street	00476-52	Meadville	788	19
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.87	Wind	92%	Q3 2023
	SAIDI	2,129.32	Trees Off Row-Tree	6%	
	SAIFI	1.92	Line Failure	1%	
	CAIDI	1,111.19	All Other	1%	
	Customer Minutes	1,677,904			
	Customers Affected	1,510			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by wind			Complete	Mar-23
Rank	Substation	Circuit	District	Customers	Outages
8	Mercer Pike	00473-52	Meadville	559	15
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.53	Wind	95%	3Q 2023
	SAIDI	2,644.85	Trees Off Row-Tree	3%	
	SAIFI	1.84	Lightning	1%	
	CAIDI	1,441.01	All Other	0%	
	Customer Minutes	1,478,473			
	Customers Affected	1,026			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by wind			Complete	Mar-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
9	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%	4Q 2022
	SAIDI	1,139.28	Equipment Failure	14%	1Q 2023
	SAIFI	3.27	Vehicle	10%	2Q 2023
	CAIDI	348.90	All Other	1%	3Q 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
Rank	Substation	Circuit	District	Customers	Outages
10	North Warren	00207-41	Warren	1,385	66
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.49	Trees Off Row-Tree	54%	3Q 2023
	SAIDI	1,050.58	Unknown	21%	
	SAIFI	3.00	Trees Off Row-Limb	17%	
	CAIDI	350.36	All Other	8%	
	Customer Minutes	1,455,051			
	Customers Affected	4,153			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees (Limb)			Complete	Mar-23
	Repair damage caused by trees			Complete	Aug-23
	Restore breaker operation of unknown cause			Complete	Aug-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
11	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%	4Q 2022
	SAIDI	1,270.02	Equipment Failure	30%	1Q2023
	SAIFI	3.15	Unknown	6%	2Q 2023
	CAIDI	403.55	All Other	5%	3Q 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
Rank	Substation	Circuit	District	Customers	Outages
12	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%	4Q 2022
	SAIDI	1,032.98	Equipment Failure	24%	1Q2023
	SAIFI	3.51	Unknown	9%	2Q 2023
	CAIDI	294.04	All Other	5%	3Q 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

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
13	Natl Forge Sw Sta	00577-41	Warren	1,205	57
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.20	Trees Off Row-Tree	69%	4Q 2022
	SAIDI	1,068.60	Trees Off Row-Limb	14%	1Q2023
	SAIFI	4.40	Equipment Failure	9%	2Q 2023
	CAIDI	242.77	All Other	1%	3Q 2023
	Customer Minutes	1,287,658			
	Customers Affected	5,304			
	Remedial Action Planned or Taken			Status	Progress
	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
Rank	Substation	Circuit	District	Customers	Outages
14	Blairsville East	00080-13	Indiana	1,030	31
	Reliability		Outage by Cause		Previously Ranked
	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			
	Remedial Action Planned or Taken			Status	Progress
	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

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
15	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%	4Q 2022
	SAIDI	1,424.04	Equipment Failure	19%	1Q 2023
	SAIFI	3.90	Line Failure	8%	2Q 2023
	CAIDI	365.28	All Other	7%	3Q 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	
Rank	Substation	Circuit	District	Customers	Outages
16	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%	
	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

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
17	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%	4Q 2022
	SAIDI	1,191.07	Trees Off Row-Tree	30%	1Q 2023
	SAIFI	5.09	Equipment Failure	24%	2Q 2023
	CAIDI	234.01	All Other	14%	3Q 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
Rank	Substation	Circuit	District	Customers	Outages
18	Turner Street	00488-52	Meadville	836	29
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.06	Trees Off Row-Tree	87%	3Q 2023
	SAIDI	1,440.46	Trees Off Row-Limb	7%	
	SAIFI	2.68	Line Failure	3%	
	CAIDI	537.84	All Other	2%	
	Customer Minutes	1,204,222			
	Customers Affected	2,239			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees			Complete	Mar-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
19	Lewis Run	00409-42	Bradford	736	32
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.97	Trees Off Row-Tree	39%	2Q 2023
	SAIDI	1,566.10	Forced Outage	36%	3Q 2023
	SAIFI	5.20	Equipment Failure	14%	
	CAIDI	301.11	All Other	11%	
	Customer Minutes	1,152,647			
	Customers Affected	3,828			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Feb-23
	Repair damage caused by trees during a storm			Complete	Mar-23
	Restore recloser operation of unknown cause			Complete	Mar-23
	Repair damage caused by trees (forced)			Complete	Jul-23
Rank	Substation	Circuit	District	Customers	Outages
20	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%	
	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

Penelec					
Rank	Substation		District	Customers	Outages
21	Blairsville East	00082-13	Indiana	1,578	44
	Reliability		Outage by Cause		Previously Ranked
	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%	
	Customer Minutes	1,091,189			
	Customers Affected	3,084			
	Remedial Action Planned or Taken			Status	Progress
	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
Rank	Substation	Circuit	District	Customers	Outages
22	Montrose	00457-65	Montrose	668	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.60	Trees Off Row-Tree	79%	4Q 2022
	SAIDI	1,403.67	Line Failure	14%	1Q 2023
	SAIFI	4.79	Trees Off Row-Limb	3%	2Q 2023
	CAIDI	293.29	All Other	3%	3Q 2023
	Customer Minutes	937,651			
	Customers Affected	3,197			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Feb-23
	Repair damage caused by trees			Complete	Apr-23
	On Cycle tree cleaning			Complete	May-23
	Circuit Inspection			Complete	Apr-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
23	East Sayre	00518-61	Towanda	966	31
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.50	Trees Off Row-Tree	74%	3Q 2023
	SAIDI	905.63	Unknown	11%	
	SAIFI	2.55	Bird	10%	
	CAIDI	355.77	All Other	4%	
	Customer Minutes	874,838			
	Customers Affected	2,459			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Restore fuse operation of unknown cause			Complete	Feb-23
	Repair damage caused by trees			Complete	Feb-23
	Repair damage caused by trees			Complete	Aug-23
Rank	Substation	Circuit	District	Customers	Outages
24	Rolling Meadows	00249-31	Erie	2,144	17
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.48	Vehicle	54%	
	SAIDI	404.48	Trees Off Row-Tree	31%	
	SAIFI	2.28	Equipment Failure	11%	
	CAIDI	177.20	All Other	4%	
	Customer Minutes	867,198			
	Customers Affected	4,894			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by vehicle accident			Complete	Jul-23
	Repair damage caused by trees			Complete	Nov-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
25	Dubois	00131-23	Dubois	584	34
	Reliability		Outage by Cause		Previously Ranked
	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%	
	Customer Minutes	777,205			
	Customers Affected	3,711			
	Remedial Action Planned or Taken			Status	Progress
	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
Rank	Substation	Circuit	District	Customers	Outages
26	North Warren	00596-41	Warren	1,130	38
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.32	Trees Off Row-Tree	83%	4Q 2022
	SAIDI	683.37	Trees Off Row-Limb	7%	2Q 2023
	SAIFI	1.66	Lightning	4%	3Q 2023
	CAIDI	411.19	All Other	7%	
	Customer Minutes	772,210			
	Customers Affected	1,878			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jun-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
27	Brooklyn	00749-65	Montrose	516	32
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.30	Trees Off Row-Tree	92%	4Q 2022
	SAIDI	1,478.04	Unknown	4%	1Q 2023
	SAIFI	2.45	Line Failure	2%	
	CAIDI	603.38	All Other	3%	
	Customer Minutes	762,667			
	Customers Affected	1,264			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair line failure			Complete	Aug-22
	Repair damage caused by trees			Complete	Nov-23
	On cycle tree clearing			Complete	Nov-23
Rank	Substation	Circuit	District	Customers	Outages
28	Edinboro	00420-34	Erie	1,617	32
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.27	Forced Outage	56%	2Q 2023
	SAIDI	459.01	Equipment Failure	26%	3Q 2023
	SAIFI	4.03	Trees Off Row-Tree	12%	
	CAIDI	113.77	All Other	6%	
	Customer Minutes	742,219			
	Customers Affected	6,524			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees (forced)			Complete	Mar-23
	Repair equipment failure			Complete	Aug-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
29	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%	
	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
	Rank	Substation	Circuit	District	Customers
30	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%	4Q 2022
	SAIDI	1,972.12	Vehicle	23%	1Q 2023
	SAIFI	2.95	Equipment Failure	5%	2Q 2023
	CAIDI	669.44	All Other	4%	3Q 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
Rank	Substation	Circuit	District	Customers	Outages
31	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%	
	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

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
32	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%	4Q 2022
	SAIDI	327.57	Line Failure	16%	1Q 2023
	SAIFI	2.08	Trees Off Row-Limb	5%	2Q 2023
	CAIDI	157.51	All Other	7%	3Q 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
	Rank	Substation	Circuit	District	Customers
33	Meshoppen	00283-65	Montrose	394	25
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.20	Trees Off Row-Tree	36%	3Q 2023
	SAIDI	1,784.61	Forced Outage	21%	
	SAIFI	4.43	Unknown	21%	
	CAIDI	402.94	All Other	22%	
	Customer Minutes	703,136			
	Customers Affected	1,745			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Restore fuse operation of unknown cause			Complete	May-23
	Repair damage caused by trees (forced)			Complete	Aug-23
	Repair damage caused by trees			Complete	Sep-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
34	Ashville	00061-71	Altoona	493	16
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.17	Lightning	43%	1Q 2023
	SAIDI	1,387.32	Ice	24%	3Q 2023
	SAIFI	2.70	Forced Outage	18%	
	CAIDI	514.63	All Other	15%	
	Customer Minutes	683,948			
	Customers Affected	1,329			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by wind			Complete	Dec-22
	Repair damage caused by ice			Complete	Mar-23
	Repair damage caused by trees during a storm (forced outage)			Complete	Mar-23
	Repair damage caused by lightning			Complete	Aug-23
Rank	Substation	Circuit	District	Customers	Outages
35	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%	4Q 2022
	SAIDI	1,597.72	Equipment Failure	30%	1Q 2023
	SAIFI	10.65	Line Failure	24%	2Q 2023
	CAIDI	149.96	All Other	13%	3Q 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

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
36	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%	
	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
	Rank	Substation	Circuit	District	Customers
37	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%	4Q 2022
	SAIDI	980.80	Unknown	21%	1Q 2023
	SAIFI	2.91	Equipment Failure	20%	2Q 2023
	CAIDI	337.42	All Other	10%	3Q 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 inspection			Complete	Dec-23	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
38	Platea	00432-34	Erie	628	59
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.11	Trees Off Row-Tree	57%	3Q 2023
	SAIDI	1,031.71	Equipment Failure	22%	
	SAIFI	3.27	Line Failure	15%	
	CAIDI	315.44	All Other	6%	
	Customer Minutes	647,915			
	Customers Affected	2,054			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees			Complete	Jul-23
	Repair equipment failure			Complete	Jul-23
Repair line failure			Complete	Nov-23	
Rank	Substation	Circuit	District	Customers	Outages
39	Avery	00791-65	Montrose	380	18
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.05	Lightning	67%	3Q 2023
	SAIDI	1,620.23	Vehicle	26%	
	SAIFI	2.26	Trees Off Row-Limb	3%	
	CAIDI	717.59	All Other	4%	
	Customer Minutes	615,689			
	Customers Affected	858			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a vehicle accident			Complete	Sep-23
	Repair damage caused by lightning			Complete	Sep-23
Rank	Substation	Circuit	District	Customers	Outages
40	Scalp Level	00932-11	Johnstown	1,102	31
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.03	Trees Off Row-Tree	43%	2Q 2023
	SAIDI	545.76	Equipment Failure	34%	3Q 2023
	SAIFI	3.89	Vehicle	19%	
	CAIDI	140.36	All Other	4%	
	Customer Minutes	601,433			
	Customers Affected	4,285			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees			Complete	Jul-22
	Repair line failure			Complete	Aug-22
Repair damage caused by trees (Limb)			Complete	Mar-23	
Repair equipment failure			Complete	Mar-23	
Repair damage caused by vehicle accident			Complete	Sep-23	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
41	Ppl West	PL097-62	Towanda	103	16
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.98	Other Electric Utility	60%	3Q 2023
	SAIDI	5,586.82	Unknown	16%	
	SAIFI	13.31	Trees Off Row-Limb	8%	
	CAIDI	419.72	All Other	17%	
	Customer Minutes	575,442			
	Customers Affected	1,371			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Restore fuse operation of unknown cause			Complete	Apr-23
	Restore operation due to other electric utility			Complete	Sep-23
Rank	Substation	Circuit	District	Customers	Outages
42	Utica Junction	00511-51	Oil City	401	38
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.98	Trees Off Row-Tree	71%	1Q 2023
	SAIDI	1,431.97	Trees Off Row-Limb	13%	2Q 2023
	SAIFI	5.52	Wind	7%	3Q 2023
	CAIDI	259.24	All Other	9%	
	Customer Minutes	574,219			
	Customers Affected	2,215			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Nov-22
	Repair damage caused by trees			Complete	Jan-23
	Repair damage caused by trees (limb)			Complete	Feb-23
Rank	Substation	Circuit	District	Customers	Outages
43	Crown	00519-51	Oil City	648	35
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.97	Trees Off Row-Tree	63%	2Q 2023
	SAIDI	876.19	Forced Outage	13%	3Q 2023
	SAIFI	3.41	Trees Off Row-Limb	11%	
	CAIDI	257.26	All Other	13%	
	Customer Minutes	567,769			
	Customers Affected	2,207			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure (forced outage)			Complete	Mar-23
	Repair equipment failure			Complete	Apr-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
44	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%	4Q 2022
	SAIDI	1,051.02	Vehicle	5%	1Q 2023
	SAIFI	2.22	Forced Outage	1%	2Q 2023
	CAIDI	472.38	All Other	2%	3Q 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
Rank	Substation	Circuit	District	Customers	Outages
45	Marienville	00327-51	Oil City	752	31
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.89	Trees Off Row-Tree	48%	3Q 2023
	SAIDI	695.61	Line Failure	26%	
	SAIFI	2.18	Unknown	17%	
	CAIDI	319.74	All Other	9%	
	Customer Minutes	523,097			
	Customers Affected	1,636			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair line failure			Complete	Mar-23
	Repair damage caused by trees			Complete	Jul-23
	Restore recloser operation of unknown cause			Complete	Aug-23
	Rank	Substation	Circuit	District	Customers
46	Madera	00147-22	Philipsburg	1,079	22
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.89	Equipment Failure	70%	3Q 2023
	SAIDI	480.19	Trees Off Row-Tree	27%	
	SAIFI	1.71	Unknown	2%	
	CAIDI	280.98	All Other	1%	
	Customer Minutes	518,122			
	Customers Affected	1,844			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees			Complete	Mar-23
	Repair equipment failure			Complete	Jul-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
47	Laurel Lake Sub Tran	00449-65	Montrose	530	31
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.88	Trees Off Row-Tree	82%	4Q 2022
	SAIDI	973.95	Unknown	8%	1Q 2023
	SAIFI	4.49	Line Failure	6%	2Q 2023
	CAIDI	217.07	All Other	3%	
	Customer Minutes	516,191			
	Customers Affected	2,378			
	<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 line failure			Complete	Mar-23
	Restore fuse operation of unknown cause			Complete	Apr-23
	Repair damage caused by trees			Complete	Nov-23
Rank	Substation	Circuit	District	Customers	Outages
48	Grandview	00524-51	Oil City	383	20
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.88	Trees Off Row-Tree	69%	2Q 2023
	SAIDI	1,345.36	Unknown	21%	3Q 2023
	SAIFI	2.37	Vehicle	6%	
	CAIDI	566.86	All Other	4%	
	Customer Minutes	515,273			
	Customers Affected	909			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees (unknown)			Complete	Mar-23
	Repair damage caused by trees			Complete	Mar-23
Rank	Substation	Circuit	District	Customers	Outages
49	Mount Union	00154-82	Lewistown	1,178	14
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.88	Line Failure	34%	
	SAIDI	437.14	Human Error -Non-Company	31%	
	SAIFI	3.31	Vehicle	24%	
	CAIDI	131.90	All Other	11%	
	Customer Minutes	514,951			
	Customers Affected	3,904			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by vehicle			Complete	Feb-23
	Repair damage caused by human error-non company			Complete	Aug-23
	Repair line failure			Complete	Nov-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
50	Shippensburg 1	00630-83	Shippensburg	1,787	39
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.88	Line Failure	36%	3Q 2023
	SAIDI	287.14	Trees Off Row-Tree	28%	
	SAIFI	2.64	Equipment Failure	24%	
	CAIDI	108.92	All Other	12%	
	Customer Minutes	513,127			
	Customers Affected	4,711			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Jul-23
	Repair damage caused by trees			Complete	Jul-23
	Repair line failure			Complete	Jul-23
Rank	Substation	Circuit	District	Customers	Outages
51	Northeast	00592-31	Erie	1,595	62
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.87	Trees Off Row-Tree	39%	
	SAIDI	318.95	Human Error - Company	29%	
	SAIFI	3.04	Line Failure	22%	
	CAIDI	104.83	All Other	10%	
	Customer Minutes	508,726			
	Customers Affected	4,853			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by human error-non company			Complete	Feb-23
	Repair damage caused by trees			Complete	Jun-23
	Repair line failure			Complete	Jul-23
Rank	Substation	Circuit	District	Customers	Outages
52	Bradford South	00106-42	Bradford	1,197	21
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.86	Trees Off Row-Tree	56%	4Q 2022
	SAIDI	421.71	Forced Outage	24%	3Q 2023
	SAIFI	1.74	Equipment Failure	13%	
	CAIDI	243.03	All Other	8%	
	Customer Minutes	504,781			
	Customers Affected	2,077			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees			Complete	Dec-22
	Repair damage caused by trees (forced)			Complete	May-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
53	Covington	00727-63	Mansfield Pa	268	16
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.85	Trees Off Row-Tree	92%	1Q 2023
	SAIDI	1,864.31	Lightning	5%	2Q 2023
	SAIFI	3.13	Equipment Failure	1%	
	CAIDI	594.80	All Other	1%	
	Customer Minutes	499,636			
	Customers Affected	840			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Feb-23
Rank	Substation	Circuit	District	Customers	Outages
54	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%	4Q 2022
	SAIDI	795.73	Line Failure	23%	1Q 2023
	SAIFI	2.45	Lightning	3%	2Q 2023
	CAIDI	324.88	All Other	3%	3Q 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	
Rank	Substation	Circuit	District	Customers	Outages
55	Division Street	00561-31	Erie	348	3
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.83	Wind	93%	2Q 2023
	SAIDI	1,399.87	Unknown	7%	3Q 2023
	SAIFI	1.98	Line Failure	0%	
	CAIDI	708.08	All Other	0%	
	Customer Minutes	487,156			
	Customers Affected	688			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by wind			Complete	Mar-23
Repair line failure			Complete	May-23	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
56	Lenox	00755-65	Montrose	698	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.82	Trees Off Row-Tree	45%	4Q 2022
	SAIDI	686.57	Unknown	36%	1Q 2023
	SAIFI	2.05	Human Error -Non-Company	11%	2Q 2023
	CAIDI	334.19	All Other	8%	
	Customer Minutes	479,228			
	Customers Affected	1,434			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-22
	Repair damage caused by trees			Complete	Sep-23
	Restore sectionalizer operation of unknown cause			Complete	Nov-23
	On cycle tree clearing			To Be Completed	0%
	Rank	Substation	Circuit	District	Customers
57	Union City	00239-43	Erie	818	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.81	Equipment Failure	77%	4Q 2022
	SAIDI	578.80	Trees Off Row-Tree	8%	1Q 2023
	SAIFI	3.23	Unknown	7%	2Q 2023
	CAIDI	179.34	All Other	7%	3Q 2023
	Customer Minutes	473,460			
	Customers Affected	2,640			
	Remedial Action Planned or Taken			Status	Progress
	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	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
58	Meysersdale North	00022-12	Somerset	1,557	40
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.79	Trees Off Row-Tree	36%	3Q 2023
	SAIDI	297.80	Vehicle	32%	
	SAIFI	2.82	Forced Outage	15%	
	CAIDI	105.50	All Other	18%	
	Customer Minutes	463,675			
	Customers Affected	4,395			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees			Complete	Dec-22
	Repair damage caused by a vehicle accident (forced)			Complete	Apr-23
	Repair damage caused by a vehicle accident			Complete	Aug-23
	Repair damage caused by trees			Complete	Aug-23
Rank	Substation	Circuit	District	Customers	Outages
59	Timblin	00103-23	Dubois	704	27
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.79	Trees Off Row-Tree	75%	3Q 2023
	SAIDI	654.13	Unknown	16%	
	SAIFI	2.69	Equipment Failure	9%	
	CAIDI	243.40	All Other	1%	
	Customer Minutes	460,507			
	Customers Affected	1,892			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Restore breaker operation of unknown cause			Complete	Jun-23
	Repair damage caused by trees			Complete	Jul-23
	Rank	Substation	Circuit	District	Customers
60	Polk	00330-51	Oil City	536	20
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.78	Equipment Failure	40%	
	SAIDI	849.63	Trees Off Row-Tree	23%	
	SAIFI	2.41	Trees Off Row-Limb	17%	
	CAIDI	352.21	All Other	20%	
	Customer Minutes	455,403			
	Customers Affected	1,293			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees (Limb)			Complete	Jan-23
	Repair equipment failure			Complete	Mar-23
	Repair damage caused by trees			Complete	Mar-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
61	Athens	00511-61	Towanda	776	26
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.76	Equipment Failure	95%	2Q 2023
	SAIDI	572.98	Trees Off Row-Tree	1%	
	SAIFI	2.39	Bird	1%	
	CAIDI	240.21	All Other	2%	
	Customer Minutes	444,632			
	Customers Affected	1,851			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees			Complete	Jul-22
	Repair damage caused by lightning			Complete	Jul-22
	Repair equipment failure			Complete	Apr-23
	Rank	Substation	Circuit	District	Customers
62	Cranberry	00350-51	Oil City	1,079	22
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.76	Wind	34%	4Q 2022
	SAIDI	411.34	Trees Off Row-Tree	27%	1Q 2023
	SAIFI	1.54	Line Failure	25%	
	CAIDI	267.53	All Other	13%	
	Customer Minutes	443,837			
	Customers Affected	1,659			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees			Complete	Mar-23
	Repair damage caused by wind			Complete	Mar-23
	Repair line failure			Complete	Apr-23

<b>Penelec</b>					
<b>Unranked circuits appearing 2 or more quarters in the last 4 quarters</b>					
<b>Substation</b>	<b>Circuit</b>	<b>1Q 2023</b>	<b>2Q 2023</b>	<b>3Q 2023</b>	<b>4Q 2023</b>
Scalp Level	00031-11		X	x	
Salix	00071-11	x	X	x	
Madera	00165-22	x	X	x	
Warren South	00219-41	x	X		
Warren South	00255-41	x	X		
Youngsville	00257-41	x	X	x	
Erie West	00267-34		X	x	
Franklin	00307-51	x	X		
Marienville	00328-51	x		x	
Utica Junction	00331-51	x	X		
Titusville	00387-51	x	X		
Thompson	00442-65	x	X		
Laurel Lake Sub Tran	00448-65	x	X		
Wyalusing	00532-62	x	X		
Oxbow	00555-65	x	X		
Elk Run	00622-23	x	X		
Saxton	00625-73	x	X	x	

<b>Penelec</b>				
<b>Unranked circuits with remedial actions scheduled to be or recently completed</b>				
<b>Substation</b>	<b>Circuit</b>	<b>Remedial Action Planned or Taken</b>	<b>Status of Remedial Work Completed</b>	<b>Progress of Remedial Work or Date Completed</b>
Tiffany	00440-65	On cycle tree clearing	4th Qtr 2022	21% Complete
National Forge Switching Station	00577-41	On cycle tree clearing	4th Qtr 2022	12/25/2023
Lenox	00755-65	On cycle tree clearing	4th Qtr 2022	15% Complete
Montrose	00457-65	On cycle tree clearing	4th Qtr 2022	5/9/2023
Brooklyn	00749-65	On cycle tree clearing	4th Qtr 2022	11/20/2023
Lenox	00434-65	On cycle tree clearing	4th Qtr 2022	11/20/2023
Grandview	00354-51	On cycle tree clearing	4th Qtr 2022	8/9/2023
East Pike	00095-13	On cycle tree clearing	4th Qtr 2022	11/21/2023
Canton	00608-63	On cycle tree clearing	4th Qtr 2022	9/27/2023
Logan	00700-81	On cycle tree clearing	4th Qtr 2022	4/27/2023
Lenox	00757-65	On cycle tree clearing	4th Qtr 2022	7/3/2023
N Meshoppen Tran	00534-65	Circuit inspection	4th Qtr 2022	3/6/2023
Tiffany	00440-65	Circuit inspection	4th Qtr 2022	4/17/2023
N Meshoppen Tran	00531-65	Circuit inspection	4th Qtr 2022	4/17/2023
Montrose	00457-65	Circuit inspection	4th Qtr 2022	4/11/2023
Laurel Lake Sub Tran	00769-65	Circuit inspection	4th Qtr 2022	4/17/2023
Madera	00165-22	Circuit inspection	4th Qtr 2022	3/15/2023
Knox	00323-51	Circuit inspection	4th Qtr 2022	4/14/2023
Russell Hill	00765-65	Circuit inspection	4th Qtr 2022	4/12/2023
Union City	00239-43	Circuit inspection	4th Qtr 2022	3/14/2023
Laurel Lake Sub Tran	00448-65	Circuit inspection	4th Qtr 2022	4/17/2023
Brookville	00125-23	Circuit inspection	4th Qtr 2022	5/1/2023
North Towanda	00521-62	Circuit inspection	4th Qtr 2022	3/10/2023
Warren South	00219-41	Circuit inspection	4th Qtr 2022	4/29/2023
Grandview	00354-51	Install advanced Dx protective devices	4th Qtr 2022	7/31/2023
East Pike	00095-13	Install advanced Dx protective devices	4th Qtr 2022	8/8/2023
Reeder Street	00041-11	Install advanced Dx protective devices	4th Qtr 2022	5/15/2023
Somerset	00031-12	Install advanced Dx protective devices	4th Qtr 2022	7/5/2023
Somerset	00031-12	Install advanced Dx protective devices	4th Qtr 2022	7/5/2023
East Pike	00096-13	Install advanced Dx protective devices	4th Qtr 2022	8/10/2023
East Pike	00096-13	Install advanced Dx protective devices	4th Qtr 2022	8/10/2023
N Meshoppen Tran	00534-65	Targeted Circuit Rehab	4th Qtr 2022	12/31/2023
N Meshoppen Tran	00531-65	Targeted Circuit Rehab	4th Qtr 2022	10/28/2023
East Towanda	00525-62	Targeted Circuit Rehab	4th Qtr 2022	12/27/2023

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
1	Sharpsville	W-219	Clark	1,881	15	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	5.19	Trees Off Row-Tree	94%	3Q 2023	
	SAIDI	472.08	Lightning	5%	4Q 2023	
	SAIFI	0.89	Animal	1%		
	CAIDI	529	All Other	1%		
	Customer Minutes	887,978				
	Customers Affected	1,679				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair Damage Caused By Trees				Complete	Aug-23
	Repair Damage Caused By Trees				Complete	Aug-23
Rank	Substation	Circuit	District	Customers	Outages	
2	Sharpsville	W-218	Clark	1,370	25	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	4.89	Trees Off Row-Tree	82%	1Q 2023	
	SAIDI	611.31	Unknown	12%	3Q 2023	
	SAIFI	2.16	Vehicle	3%	4Q 2023	
	CAIDI	282	All Other	3%		
	Customer Minutes	837,500				
	Customers Affected	2,966				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by tree				Complete	Aug-23
	Repair damage caused by tree				Complete	Aug-23
Rank	Substation	Circuit	District	Customers	Outages	
3	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	Aug-23
	Repair damage caused by tree				Complete	Mar-23

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
4	Conneaut	W-173	Clark	1,927	29	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	3.86	Trees Off Row-Limb	53%	2Q 2023	
	SAIDI	343.23	Vehicle	37%	3Q 2023	
	SAIFI	2.16	Trees Off Row-Tree	4%	4Q 2023	
	CAIDI	159	All Other	6%		
	Customer Minutes	661,408				
	Customers Affected	4,161				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees				Complete	Jul-23
	Repair damage caused by vehicle				Complete	Feb-23
Rank	Substation	Circuit	District	Customers	Outages	
5	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	Jun-23
	Rank	Substation	Circuit	District	Customers	Outages
6	Mercer	W-128	Clark	1,224	56	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.63	Trees Off Row-Tree	46%	1Q 2023	
	SAIDI	367.52	Trees Off Row-Limb	22%	3Q 2023	
	SAIFI	0.87	Line Failure	22%	4Q 2023	
	CAIDI	420	All Other	10%		
	Customer Minutes	449,842				
	Customers Affected	1,070				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees				Complete	Aug-23
	Repair damage caused by trees				Complete	Aug-23

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
7	Koppel	D-531	New Castle	1,025	33	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.38	Trees Off Row-Tree	79%	3Q 2023	
	SAIDI	397.76	Trees Off Row-Limb	13%	4Q 2023	
	SAIFI	2.89	Equipment Failure	2%		
	CAIDI	138	All Other	5%		
	Customer Minutes	407,703				
	Customers Affected	2,960				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees				Complete	Jul-23
Rank	Substation	Circuit	District	Customers	Outages	
8	Seneca	W700	Zelienople	912	38	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.05	Trees Off Row-Tree	38%	4Q 2023	
	SAIDI	385.32	Trees Off Row-Limb	23%		
	SAIFI	1.90	Line Failure	14%		
	CAIDI	203	All Other	25%		
	Customer Minutes	351,412				
	Customers Affected	1,733				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees				Complete	Sept-23
Rank	Substation	Circuit	District	Customers	Outages	
9	Richard	W745	Zelienople	662	10	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.84	Trees Off Row-Tree	91%	4Q 2023	
	SAIDI	475.14	Animal	5%		
	SAIFI	2.07	Trees Off Row-Limb	4%		
	CAIDI	230	All Other	0%		
	Customer Minutes	314,541				
	Customers Affected	1,369				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees				Complete	Sept-23

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
10	Ingomar	D620	Zelienople	1,221	5	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.73	Trees Off Row-Tree	78%	2Q 2023	
	SAIDI	242.37	Forced Outage	17%	3Q 2023	
	SAIFI	1.19	Line Failure	2%	4Q 2023	
	CAIDI	204	All Other	3%		
	Customer Minutes	295,937				
	Customers Affected	1,450				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees				Complete	Mar-23

Penn Power					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	1Q 2023	2Q 2023	3Q 2023	4Q 2023
Stoneboro	W-131	x	x		
Mercer	W-167	x	x	x	

Penn Power				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned	Status of Remedial Work	Progress of Remedial Work
Penn Power has no unranked circuits with remedial actions scheduled to be or recently completed.				

<b>West Penn</b>						
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>	
1	South Union	York Run	Uniontown	1,747	37	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	7.35	Tree OFF Row- Tree	97%	Q4 2023	
	SAIDI	3,060.94	Equipment Failure	2%		
	SAIFI	1.89	Line Failure	0%		
	CAIDI	1,622	All Other	1%		
	Customer Minutes	5,347,467				
	Customers Affected	3,297				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair equipment failure				Complete	Oct-23
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>	
2	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	

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
3	Rutan	Bristoria	Jefferson	1,074	63
	Reliability		Outage by Cause		Previously Ranked
	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			
	Remedial Action Planned or Taken			Status	Progress
	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
	Rank	Substation	Circuit	District	Customers
4	Bethlen	Laurel Valley	Latrobe	1,420	66
	Reliability		Outage by Cause		Previously Ranked
	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			
	Remedial Action Planned or Taken			Status	Progress
	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

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
5	Fort Palmer	Oakgrove	Latrobe	680	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.98	Trees Off Row-Tree	99%	Q2 2023
	SAIDI	3,182.93	Forced Outage	1%	Q3 2023
	SAIFI	1.75	Equipment Failure	0%	Q4 2023
	CAIDI	1,814	All Other	0%	
	Customer Minutes	2,164,389			
	Customers Affected	1,193			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Apr-23
	Overhead Circuit Inspection (62256770)			Complete	May-23
	Repair damage caused by a tree			Complete	Sep-23
	Repair damage caused by a tree			Complete	Nov-23
Rank	Substation	Circuit	District	Customers	Outages
6	Karns City	Kaylor	Butler	1,150	34
	Reliability		Outage by Cause		Previously Ranked
	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			
	Remedial Action Planned or Taken			Status	Progress
	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%

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
7	Bethlen	Laughlintown	Latrobe	1,096	68
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.60	Trees Off Row-Tree	79%	Q2 2023
	SAIDI	1,726.24	Trees Off Row-Limb	14%	Q3 2023
	SAIFI	2.32	Line Failure	4%	Q4 2023
	CAIDI	744	All Other	3%	
	Customer Minutes	1,891,963			
	Customers Affected	2,543			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jun-23
	Repair damage caused by a tree			Complete	Aug-23
	Repair damage caused by a tree			Complete	Nov-23
Rank	Substation	Circuit	District	Customers	Outages
8	Bethelboro	Coolspring	Uniontown	1,453	43
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.50	Trees Off Row-Tree	84%	Q2 2023
	SAIDI	1,249.45	Equipment Failure	4%	Q3 2023
	SAIFI	1.67	Vehicle	4%	Q4 2023
	CAIDI	748	All Other	8%	
	Customer Minutes	1,815,452			
	Customers Affected	2,427			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a vehicle			Complete	Jun-23
	Repair damage caused by a tree			Complete	Aug-23
	Repair damage caused by a tree			Complete	Nov-23
Rank	Substation	Circuit	District	Customers	Outages
9	Normalville	Indianhead	Pleasant Valley	562	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.34	Trees Off Row-Tree	54%	Q3 2023
	SAIDI	3,032.38	Trees Off Row-Limb	20%	Q4 2023
	SAIFI	2.98	Wind	17%	
	CAIDI	1,019	All Other	9%	
	Customer Minutes	1,704,200			
	Customers Affected	1,672			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Aug-23
	Forced outage to repair damage			Complete	Dec-23

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
10	Normalville	Mill Run	Pleasant Valley	580	26	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.33	Trees Off Row-Tree	98%	Q3 2023	
	SAIDI	2,927.08	Wind	1%	Q4 2023	
	SAIFI	1.59	Trees Off Row-Limb	1%		
	CAIDI	1,841	All Other	0%		
	Customer Minutes	1,697,705				
	Customers Affected	922				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a tree				Complete	Aug-23
Rank	Substation	Circuit	District	Customers	Outages	
11	Springfield Pike	Rock Ridge	Pleasant Valley	721	20	
	Reliability		Outage by Cause		Previously Ranked	
	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				
	Remedial Action Planned or Taken				Status	Progress
	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	
Rank	Substation	Circuit	District	Customers	Outages	
12	Butler	Penn St	Butler	2,510	24	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.29	Unknown	86%	Q1 2023	
	SAIDI	665.03	Forced Outage	11%	Q2 2023	
	SAIFI	1.82	Trees Off Row-Tree	2%	Q4 2023	
	CAIDI	365	All Other	1%		
	Customer Minutes	1,669,216				
	Customers Affected	4,576				
	Remedial Action Planned or Taken				Status	Progress
	Overhead Circuit Inspection (62256716)				Complete	Feb-23
Restore unknown outage				Complete	Mar-23	
Forced outage to repair damage				Complete	Nov-23	

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
13	North Union	Phillips	Uniontown	1,476	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.14	Trees Off Row-Tree	92%	Q2 2023
	SAIDI	1,054.86	Trees Off Row-Limb	4%	Q3 2023
	SAIFI	1.44	Forced Outage	2%	Q4 2023
	CAIDI	732	All Other	2%	
	Customer Minutes	1,556,977			
	Customers Affected	2,127			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Mar-23
	Repair damage caused by a tree			Complete	Aug-23
	Overhead Circuit Inspection (62914381)			To Be Completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
14	Amity	Amity	Washington Pa	533	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.12	Trees Off Row-Tree	74%	Q3 2023
	SAIDI	2,889.67	Wind	12%	Q4 2023
	SAIFI	4.18	Line Failure	8%	
	CAIDI	691	All Other	6%	
	Customer Minutes	1,540,193			
	Customers Affected	2,230			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by tree			Complete	Aug-23
	Rank	Substation	Circuit	District	Customers
15	South Union	Brownfield	Uniontown	1,819	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.07	Trees Off Row-Tree	73%	Q2 2023
	SAIDI	829.16	Vehicle	13%	Q3 2023
	SAIFI	2.75	Unknown	11%	Q4 2023
	CAIDI	301	All Other	2%	
	Customer Minutes	1,508,242			
	Customers Affected	5,004			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a vehicle			Complete	Apr-23
	Repair equipment failure			Complete	Jul-23
	Repair damage caused by a tree			Complete	Nov-23

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
16	Frazier	Star Junction	Pleasant Valley	1,741	19	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.92	Trees Off Row-Tree	68%	Q3 2023	
	SAIDI	802.76	Forced Outage	11%	Q4 2023	
	SAIFI	1.45	Animal	10%		
	CAIDI	553	All Other	11%		
	Customer Minutes	1,397,601				
	Customers Affected	2,528				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Overhead Circuit Inspection (62259756)				Complete	Jul-23
	Repair damage caused by a tree				Complete	Aug-23
	Rank	Substation	Circuit	District	Customers	Outages
17	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	
Rank	Substation	Circuit	District	Customers	Outages	
18	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	

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
19	Ethel Springs	Railroad	Latrobe	717	15
	Reliability		Outage by Cause		Previously Ranked
	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			
	Remedial Action Planned or Taken			Status	Progress
	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
	Rank	Substation	Circuit	District	Customers
20	Houston	McGovern	Washington Pa	2,103	43
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.83	Trees Off Row-Tree	65%	Q1 2023
	SAIDI	634.45	Line Failure	15%	Q3 2023
	SAIFI	2.75	Forced Outage	8%	Q4 2023
	CAIDI	231	All Other	11%	
	Customer Minutes	1,334,248			
	Customers Affected	5,774			
	Remedial Action Planned or Taken			Status	Progress
	Restore unknown outage			Complete	Mar-23
	Repair damage caused by a tree			Complete	Aug-23
	Forced outage to repair damage			Complete	Nov-23
	Overhead Circuit Inspection (62914415)			To Be Completed 2024	0%

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
21	Franklin (Wpp)	South Waynesburg	Jefferson	2,056	54	
	Reliability		Outage by Cause		Previously Ranked	
	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				
	Remedial Action Planned or Taken				Status	Progress
	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%
Rank	Substation	Circuit	District	Customers	Outages	
22	Piney Fork	Cochran Mill	Charleroi	1,248	14	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.73	Trees Off Row-Tree	65%	Q3 2023	
	SAIDI	1,009.78	Vehicle	32%	Q4 2023	
	SAIFI	2.09	Equipment Failure	1%		
	CAIDI	482	All Other	2%		
	Customer Minutes	1,260,204				
	Customers Affected	2,612				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a tree				Complete	Aug-23
Rank	Substation	Circuit	District	Customers	Outages	
23	Connellsville	Trotter	Pleasant Valley	1,075	19	
	Reliability		Outage by Cause		Previously Ranked	
	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				
	Remedial Action Planned or Taken				Status	Progress
	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	

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
24	Waterville	Waterville	State College	361	20
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.67	Other Electric Utility	62%	Q3 2023
	SAIDI	3,374.04	Unknown	23%	Q4 2023
	SAIFI	6.80	Trees Off Row-Tree	15%	
	CAIDI	496	All Other	0%	
	Customer Minutes	1,218,027			
	Customers Affected	2,454			
	Remedial Action Planned or Taken			Status	Progress
	Restore outage caused by other electric utility			Complete	Aug-23
Rank	Substation	Circuit	District	Customers	Outages
25	Ethel Springs	Peach Hollow	Latrobe	2,407	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.61	Trees Off Row-Tree	79%	Q1 2023
	SAIDI	485.89	Unknown	14%	Q2 2023
	SAIFI	1.54	Wind	7%	Q4 2023
	CAIDI	316	All Other	1%	
	Customer Minutes	1,169,544			
	Customers Affected	3,698			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Feb-23
	Repair damage caused by a tree			Complete	Nov-23
Rank	Substation	Circuit	District	Customers	Outages
26	Frazier	Perry	Pleasant Valley	734	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.59	Trees Off Row-Tree	76%	Q3 2023
	SAIDI	1,580.68	Vehicle	16%	Q4 2023
	SAIFI	4.39	Human Error -Non-Company	3%	
	CAIDI	360	All Other	5%	
	Customer Minutes	1,160,218			
	Customers Affected	3,219			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Aug-23

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
27	Pangburn Hill	Pangburn Hill	Charleroi	742	25	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.54	Trees Off Row-Tree	73%	Q3 2023	
	SAIDI	1,505.92	Wind	23%	Q4 2023	
	SAIFI	1.88	Unknown	3%		
	CAIDI	800	All Other	1%		
	Customer Minutes	1,117,390				
	Customers Affected	1,397				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a tree				Complete	Aug-23
	Repair damage caused by a tree				Complete	Oct-23
Rank	Substation	Circuit	District	Customers	Outages	
28	Dutch Fork	Claysville	Washington Pa	1,638	56	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.53	Trees Off Row-Tree	70%	Q3 2023	
	SAIDI	679.55	Unknown	16%	Q4 2023	
	SAIFI	1.98	Wind	10%		
	CAIDI	343	All Other	4%		
	Customer Minutes	1,113,102				
	Customers Affected	3,242				
	Remedial Action Planned or Taken				Status	Progress
	Overhead Circuit Inspection (62260059)				Complete	Jan-23
	Repair damage caused by a tree				Complete	Aug-23
	Restore unknown outage				Complete	Nov-23
Rank	Substation	Circuit	District	Customers	Outages	
29	Piney Fork	Knothole	Charleroi	1,676	17	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.51	Trees Off Row-Tree	85%	Q3 2023	
	SAIDI	655.86	Line Failure	10%	Q4 2023	
	SAIFI	1.46	Trees On Row	3%		
	CAIDI	450	All Other	2%		
	Customer Minutes	1,099,226				
	Customers Affected	2,441				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a tree				Complete	Aug-23
	Overhead Circuit Inspection (62914267)				To Be Completed 2024	0%

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
30	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
	Rank	Substation	Circuit	District	Customers
31	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
Rank	Substation	Circuit	District	Customers	Outages
32	Footedale	Footedale	Uniontown	1,188	35
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.38	Trees Off Row-Tree	69%	Q3 2023
	SAIDI	847.61	Line Failure	24%	Q4 2023
	SAIFI	1.76	Vehicle	5%	
	CAIDI	482	All Other	2%	
	Customer Minutes	1,006,959			
	Customers Affected	2,088			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree			Complete	Aug-23
	Repair damage caused by a vehicle			Complete	Oct-23

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
33	Roundhill	Roundhill	Charleroi	956	29	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.36	Trees Off Row-Tree	80%	Q1 2023	
	SAIDI	1,034.51	Line Failure	6%	Q3 2023	
	SAIFI	2.45	Unknown	6%	Q4 2023	
	CAIDI	422	All Other	8%		
	Customer Minutes	988,992				
	Customers Affected	2,342				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a tree				Complete	Mar-23
	Overhead Circuit Inspection (62259364)				Complete	Jul-23
	Repair damage caused by a tree				Complete	Aug-23
	Rank	Substation	Circuit	District	Customers	Outages
34	Peters	Mcmurray	Boyce	1,495	34	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.36	Line Failure	47%	Q1 2023	
	SAIDI	660.31	Trees Off Row-Tree	39%	Q4 2023	
	SAIFI	3.96	Unknown	10%		
	CAIDI	167	All Other	4%		
	Customer Minutes	987,157				
	Customers Affected	5,920				
	Remedial Action Planned or Taken				Status	Progress
	Repair line failure				Complete	Jan-23
	Restore unknown outage				Complete	Dec-23
	Overhead Circuit Inspection (62914249)				To Be Completed 2024	0%
	Rank	Substation	Circuit	District	Customers	Outages
35	Bethlen	Darlington	Latrobe	1,242	70	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.30	Trees Off Row-Tree	92%	Q2 2023	
	SAIDI	758.75	Line Failure	3%	Q3 2023	
	SAIFI	3.34	Trees Off Row-Limb	2%	Q4 2023	
	CAIDI	227	All Other	3%		
	Customer Minutes	942,372				
	Customers Affected	4,147				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a tree				Complete	Jun-23
	Repair damage caused by a tree				Complete	Jul-23
	Repair damage caused by a tree				Complete	Dec-23
	Overhead Circuit Inspection (62914310)				To Be Completed 2024	0%

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
36	Amity	Banetown	Washington Pa	1,492	50
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.24	Trees Off Row-Tree	66%	Q3 2023
	SAIDI	602.63	Unknown	14%	Q4 2023
	SAIFI	1.90	Line Failure	10%	
	CAIDI	317	All Other	11%	
	Customer Minutes	899,125			
	Customers Affected	2,834			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Aug-23
	Rank	Substation	Circuit	District	Customers
37	Buckeye No.3	Paisley	Jefferson	659	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.23	Line Failure	50%	Q2 2023
	SAIDI	1,353.32	Unknown	15%	Q4 2023
	SAIFI	2.13	Human Error -Non-Company	14%	
	CAIDI	634	All Other	21%	
	Customer Minutes	891,836			
	Customers Affected	1,406			
	Remedial Action Planned or Taken			Status	Progress
	Restore outage caused by Human Error (Non-Company)			Complete	Nov-23
	Rank	Substation	Circuit	District	Customers
38	Gordon	Wolfdale	Washington Pa	2,082	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.17	Trees Off Row-Tree	71%	Q1 2023
	SAIDI	408.48	Unknown	17%	Q4 2023
	SAIFI	3.81	Forced Outage	7%	
	CAIDI	107	All Other	5%	
	Customer Minutes	850,452			
	Customers Affected	7,931			
	Remedial Action Planned or Taken			Status	Progress
	Overhead Circuit Inspection (61646198)			Complete	Aug-23
	Repair damage caused by a tree			Complete	Mar-23
	Restore unknown outage			Complete	Oct-23

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
39	Shaffers Corner	Seventh St Rd	Arnold	2,058	25	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.16	Trees Off Row-Tree	60%	Q4 2023	
	SAIDI	410.49	Equipment Failure	21%		
	SAIFI	1.73	Bird	12%		
	CAIDI	238	All Other	7%		
	Customer Minutes	844,789				
	Customers Affected	3,557				
	Remedial Action Planned or Taken				Status	Progress
	Repair line failure				Complete	Oct-23
	Overhead Circuit Inspection (62914227)				To Be Completed 2024	0%
	Rank	Substation	Circuit	District	Customers	Outages
40	Charleroi	Warner	Charleroi	1,217	26	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.16	Trees Off Row-Tree	84%	Q4 2023	
	SAIDI	690.54	Unknown	6%		
	SAIFI	1.78	Vehicle	5%		
	CAIDI	389	All Other	5%		
	Customer Minutes	840,391				
	Customers Affected	2,162				
	Remedial Action Planned or Taken				Status	Progress
	Overhead Circuit Inspection (62914257)				To Be Completed 2024	0%

<b>West Penn</b>					
<b>Unranked circuits appearing 2 or more quarters in the last 4 quarters</b>					
<b>Substation</b>	<b>Circuit</b>	<b>1Q 2023</b>	<b>2Q 2023</b>	<b>3Q 2023</b>	<b>4Q 2023</b>
Port Matilda	Port Matilda		X	X	
Nittany No. 2	Clintondale		X	X	
Blue Ridge Summit	Sabillasville	X	X	X	
Kittanning	Cadogan	X	X		
Franklin (Wpp)	Rogersville	X	X	X	
Rutan	Windridge	X	X		
Bentleyville	Ellsworth	X	X		
Piney Fork	Gillhall	X		X	
Lagonda	Lagonda	X	X		
Linden-Wash	Wylandville	X	X	X	
Hilliards	Hilliards	X	X		
St. Clair	Fort Couch	X	X		
Whitney	Youngstown	X	X		
Saltsburg	Bell Township	X	X		
Whitney	Pleasant Unity	X	X		

<b>West Penn</b>				
<b>Unranked circuits with remedial actions scheduled to be or recently completed</b>				
<b>Substation</b>	<b>Circuit</b>	<b>Remedial Action Planned</b>	<b>Status of Remedial Work</b>	<b>Progress of Remedial Work</b>
West Penn has no unranked circuits with remedial actions scheduled to be or recently completed				

*Pursuant to Docket Nos. D-2014-2365991, D-2014-2365992, D-2014-2365993, and D-2014-2365994, (Appendix A)(3): The Company is directed to track and measure line hit incidents, causes of line hits, and damage recovery amounts for all third-party line hit incidents for each Rate District.*

<b>Met-Ed –Third Party Line Hit Incidents</b>			
<b>4th Quarter 2023 12-Month Rolling</b>			
<b>Cause of Line Hit</b>	<b>Number of Incidents</b>	<b>Invoice Amount (\$)</b>	<b>Recovery Amount (\$)</b>
Dig In - Other	20	\$7,582.56	\$0.00
Excavated in Tolerance	20	\$38,006.05	\$0.00
Excavation Inconsistent with Ticket Scope			
Excavation Prior to Lawful Start Date			
Expired Ticket			
Hand Digging			
Marked Improperly	7	\$9,713.86	\$0.00
No Ticket	7	\$10,728.22	\$2,344.58
<b>Total</b>	<b>54</b>	<b>\$66,030.69</b>	<b>\$2,344.58</b>

<b>Penelec – Third Party Line Hit Incidents</b>			
<b>4th Quarter 2023 12-Month Rolling</b>			
<b>Cause of Line Hit</b>	<b>Number of Incidents</b>	<b>Invoice Amount (\$)</b>	<b>Recovery Amount (\$)</b>
Dig In - Other	43	\$129,093.81	\$351.24
Excavated in Tolerance	4	\$10,825.79	\$0.00
Excavation Inconsistent with Ticket Scope			
Excavation Prior to Lawful Start Date			
Expired Ticket			
Hand Digging	1	\$5,162.77	\$0.00
Marked Improperly	4	\$23,643.32	\$0.00
No Ticket	18	\$45,705.92	\$3,865.04
<b>Total</b>	<b>70</b>	<b>\$214,431.61</b>	<b>\$4,216.28</b>

<b>Penn Power – Third Party Line Hit Incidents</b>			
<b>4th Quarter 2023 12-Month Rolling</b>			
<b>Cause of Line Hit</b>	<b>Number of Incidents</b>	<b>Invoice Amount (\$)</b>	<b>Recovery Amount (\$)</b>
Dig In - Other	19	\$24,614.51	\$329.25
Excavated in Tolerance	4	\$6,737.48	\$0.00
Excavation Inconsistent with Ticket Scope			
Excavation Prior to Lawful Start Date	2	\$3,809.91	\$0.00
Expired Ticket	2	\$12,510.63	\$1,100.00
Hand Digging			
Marked Improperly	1	\$460.36	\$0.00
No Ticket	5	\$8,783.06	\$0.00
<b>Total</b>	<b>33</b>	<b>\$56,915.95</b>	<b>\$1,429.25</b>

<b>West Penn – Third Party Line Hit Incidents</b>			
<b>4th Quarter 2023 12-Month Rolling</b>			
<b>Cause of Line Hit</b>	<b>Number of Incidents</b>	<b>Invoice Amount (\$)</b>	<b>Recovery Amount (\$)</b>
Dig In - Other	43	\$53,187.45	\$0.00
Excavated in Tolerance	10	\$6,116.57	\$0.00
Excavation Inconsistent with Ticket Scope			
Excavation Prior to Lawful Start Date			
Expired Ticket	2	\$4,566.36	\$0.00
Hand Digging			
Marked Improperly	11	\$32,665.90	\$0.00
No Ticket	24	\$51,758.60	\$0.00
<b>Total</b>	<b>90</b>	<b>\$148,294.88</b>	<b>\$0.00</b>

<b>Cause of Line Hit</b>	<b>Definition</b>
Dig In - Other	Still under investigation
Excavated in Tolerance	Excavator didn't use prudent digging techniques within the Tolerance Zone
Excavation Inconsistent with Ticket Scope	Excavation outside dig box and/or scope of ticket
Excavation Prior to Lawful Start Date	Three business days prior to start of excavation from when the ticket was called in to mark
Expired Ticket	After ten business days have passed, the ticket is considered expired
Hand Digging	Excavator was hand digging within the Tolerance Zone, however the facility was still hit
Marked Improperly	Ticket called in, facility and/or equipment was not marked properly
No Ticket	No contact was made to create a dig-request ticket

## **Distribution Pole Inspections**

**Section 57.198(n)(2). Pole Inspections.** *Distribution poles shall be inspected at least as often as every 10 – 12 years except for the new southern yellow pine creosoted utility poles which shall be initially inspected within 25 years, then within 12 years annually after the initial inspection. Pole inspections must include:*

- i. Drill tests at and below ground level*
- ii. A shell test*
- iii. Visual inspection for holes or evidence of insect infestation*
- iv. Visual inspection for evidence of unauthorized backfilling or excavation near the pole*
- v. Visual inspection for signs of lightning strikes*
- vi. A load calculation*

### **Program Description**

Met-Ed shall visually inspect distribution wood poles on a twelve-year cycle. The purpose for inspecting distribution wood poles is to identify and repair unsafe conditions or conditions that may adversely affect service reliability or system performance, and to comply with the state regulatory agencies and the NESC.

This preventative maintenance inspection for wood poles will include a visual inspection as well as hammer-sounding as needed. The inspection consists of the recording of abnormal conditions from the groundline to the top of the pole including but not limited to the following:

- Damage – broken or leaning
- Equipment – crossarms, insulators, conductors, oil leaking
- Testing for decayed internal wood

In addition to the visual inspection, 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. In 2023, Met-Ed will continue with the use of the Resistograph. In 2024 and beyond, either manual boring or the Resistograph will be used at Met-Ed's discretion.

Serviceable poles that pass the visual and sounding testing may be treated for life extension, protection against fungal decay and insects and to interrupt degradation. Serviceable and reinforced poles shall also be treated. The internal preventative pole treatment product is the Cobra™ Rods, a diffusible rod composed of copper and boron. The internal void pole treatment product is the Genics™ CuB, a preservative solution containing copper

## Distribution Pole Inspections

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- i. *Drill tests at and below ground level*
- ii. *A shell test*
- iii. *Visual inspection for holes or evidence of insect infestation*
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## **Distribution Pole Inspections**

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- Testing for decayed internal wood

In addition to the visual inspection, 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. In 2023, Penn Power will continue with the use of the Resistograph. In 2024 and beyond, either manual boring or the Resistograph will be used at Penn Power’s discretion.

Serviceable poles that pass the visual and sounding testing may be treated for life extension, protection against fungal decay and insects and to interrupt degradation. Serviceable and reinforced poles shall also be treated. The internal preventative pole treatment product is

## **Distribution Pole Inspections**

**Section 57.198(n)(2). Pole Inspections.** *Distribution poles shall be inspected at least as often as every 10 – 12 years except for the new southern yellow pine creosoted utility poles which shall be initially inspected within 25 years, then within 12 years annually after the initial inspection. Pole inspections must include:*

- i. Drill tests at and below ground level*
- ii. A shell test*
- iii. Visual inspection for holes or evidence of insect infestation*
- iv. Visual inspection for evidence of unauthorized backfilling or excavation near the pole*
- v. Visual inspection for signs of lightning strikes*
- vi. A load calculation*

### **Program Description**

Penn Power shall visually inspect distribution wood poles on a twelve-year cycle. The purpose for inspecting distribution wood poles is to identify and repair unsafe conditions or conditions that may adversely affect service reliability or system performance, and to comply with the state regulatory agencies and the NESC.

This preventative maintenance inspection for wood poles will include a visual inspection as well as hammer-sounding as needed. The inspection consists of the recording of abnormal conditions from the groundline to the top of the pole including but not limited to the following:

- Damage – broken or leaning
- Equipment – crossarms, insulators, conductors, oil leaking
- Testing for decayed internal wood

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Serviceable poles that pass the visual and sounding testing may be treated for life extension, protection against fungal decay and insects and to interrupt degradation. Serviceable and reinforced poles shall also be treated. The internal preventative pole treatment product is the Cobra™ Rods, a diffusible rod composed of copper and boron. The internal void pole treatment product is the Genics™ CuB, a preservative solution containing copper

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**BEFORE THE  
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

**Joint 4<sup>th</sup> Quarter 2023 Reliability Report –** :  
**FirstEnergy Pennsylvania Electric** :  
**Company on behalf of Metropolitan Edison** :  
**Rate District, Pennsylvania Electric Rate** : **Docket No. M-2023-3039027**  
**District, Pennsylvania Power Rate District** :  
**and West Penn Power Rate District –** :  
**Public Version** :

**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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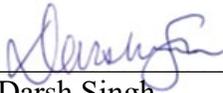
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Dated: February 1, 2024



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