

May 1, 2024

VIA ELECTRONIC FILING

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

**Re: 1st Quarter 2024 Reliability Report – FirstEnergy Pennsylvania
Electric Company on behalf of Met-Ed Rate District, Penelec Rate District,
Penn Power Rate District and West Penn Rate District;
Public Version; Docket No. M-2023-3039027**

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 Met-Ed Rate District (“Met-Ed”), Penelec Rate District (“Penelec”), Penn Power Rate District (“Penn Power”), and West Penn Rate District (“West Penn”) is the 1st Quarter 2024 Reliability Report – Public Version (“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 Report is being filed under separate cover.

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)

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

1st Quarter 2024 Reliability Report – :
FirstEnergy Pennsylvania Electric :
Company on behalf of Met-Ed Rate :
District, Penelec Rate District, Penn Power : **Docket No. M-2023-3039027**
Rate District and West Penn 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).

Service by electronic mail, as follows:

NazAarah Sabree
Office of Small Business Advocate
Suite 1102, Commerce Building
300 North Second Street
Harrisburg, PA 17101
ra-sba@pa.gov

Allison Kaster
Bureau of Investigation and Enforcement
Pennsylvania Public Utility Commission
400 North Street 2nd Floor West
Harrisburg, PA 17105-3265
akaster@pa.gov

Patrick M. Cicero, Esquire
Office of Consumer Advocate
555 Walnut Street – 5th Floor
Harrisburg, PA 17101-1923
pcicero@paoca.org

Byron Farnsworth, Jr., Chief Operating Officer
Tyler Mead, Director of Operations
Wellsboro Electric Company
33 Austin Street
Wellsboro, PA 16901
barneyf@ctenterprises.org
tylerm@ctenterprises.org

Patrick F. Anderson, Senior Director
Citizens' Electric Company of Lewisburg, PA
1775 Industrial Boulevard
Lewisburg, PA 17837
andersonp@citizenselectric.com

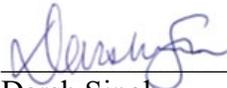
Kimberly A. Klock, Esquire
PPL Services Corp.
2 North 9th Street
Allentown, PA 18101
kklock@pplweb.com

Lindsay Baxter
Analyst
Duquesne Light Company
411 Seventh Avenue
Pittsburgh, PA 15219
lbaxter@duqlight.com

Thomas J. Sniscak, Esquire
Whitney E. Snyder, Esquire
Hawke McKeon and Sniscak LLP
100 N. Tenth Street
Harrisburg, PA 17101
tjsniscak@hmslegal.com
wesnyder@hmslegal.com

Richard G. Webster, Jr.
Director of Rates
Peco Energy Company
2301 Market Street, S15
Philadelphia, PA 19103
Dick.webster@peco-energy.com

Dated: May 1, 2024



Darsh Singh
Attorney No. 330971
FirstEnergy Service Company
76 South Main Street
Akron, OH 44308
(610) 212-8331
singhd@firstenergycorp.com

Counsel for:
FirstEnergy Pennsylvania Electric Company on
behalf of Met-Ed Rate District, Penelec Rate
District, Penn Power Rate District and West Penn
Rate District



2024 1st Quarter Reliability Report

FirstEnergy Pennsylvania Electric Company on behalf of
Met-Ed Rate District,
Penelec Rate District,
Penn Power Rate District, and
West Penn Rate District

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

**1st Quarter 2024 Reliability Report –
FirstEnergy Pennsylvania Electric Company (“FE PA) on behalf of
Met-Ed Rate District (“Met-Ed”),
Penelec Rate District (“Penelec”),
Penn Power Rate District (“Penn Power”), and
West Penn Rate District (“West Penn”)¹**

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.²

Major Event(s)

Company	Customers Affected	Time and Duration of the Event		Cause of the Event	Commission Approval Status
Penelec	112,452	Duration	108 hours 25 minutes	Winter Storm Finn	March 27, 2024
		Start Date/Time	01/09/24 0745		
		End Date/Time	01/13/2024 2010		

¹ By Order entered on December 7, 2023, the Pennsylvania Public Utility Commission (the “Commission”) granted certain approvals and certificates of public convenience for the unification of the four Companies into one company, FirstEnergy Pennsylvania Electric Company, or “FE PA”. *Joint Application of 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).

² For purposes of this 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

1Q 2024 (12-Mo Rolling)	Met-Ed			Penelec			Penn Power			West Penn		
	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual	Benchmark	12-Month Standard	12-Month Actual
SAIFI	1.15	1.38	1.56	1.26	1.52	1.54	1.12	1.34	.84	1.05	1.26	1.06
CAIDI	117	140	244.72	117	141	150.91	101	121	150.48	170	204	210.18
SAIDI	135	194	382.61	148	213	232.64	113	162	127.04	179	257	223.69
MAIFI ³			0.371			0.596			0.019			
Customers Served ⁴		581,266			588,850			173,230			727,759	
Number of Sustained Interruptions		16,331			15,181			3,144			13,388	
Customers Affected		908,782			907,782			146,246			774,543	
Customer Minutes		222,395,659			136,991,053			22,007,006			162,793,849	
Number of Customer Momentary Interruptions		216,158			354,004			3,358				

³ MAIFI values are not available for West Penn.

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

Unique Events Occurring in 1Q 2024:

Met-Ed

- Beginning Tuesday morning, January 9, 2024, a weather system moved through Pennsylvania, including the Met-Ed service territory. The system produced heavy precipitation and wind gusts of approximately 47 miles per hour. Wind gusts of approximately 39 miles per hour continued Wednesday, January 10, 2024. Damage as a result of the weather system included downed trees and wires, damaged or broken poles and crossarms, and damaged transformers. Approximately 69.4% of the total outages that occurred were tree related. Preliminary data indicates the reliability impact of the storm was 21.6 minutes of SAIDI, 0.0491 of SAIFI frequency, and an overall storm CAIDI of 439.5 minutes.
- Beginning Friday afternoon, January 12, 2024, a weather system moved through Pennsylvania, including the Met-Ed service territory. The system produced heavy precipitation through the early hours of Saturday, January 13, 2024. The wind gusts associated with the system were approximately 41 miles per hour on Friday and approximately 54 miles per hour on Saturday and Sunday, January 14 and 15, 2024. Damage as a result of the weather system included downed trees and wires, damaged or broken poles and crossarms, and damaged transformers. Approximately 68.6% of the total outages that occurred were tree related. Data indicates the reliability impact of the storm was 27.2 minutes of SAIDI, 0.0746 of SAIFI frequency, and an overall storm CAIDI of 365.2 minutes.
- Beginning Tuesday morning, February 13, 2024, a weather system moved through Pennsylvania, including the Met-Ed service territory. The system produced heavy, wet snow through the morning hours of Tuesday, February 13, 2024. The wind gusts associated with the system were approximately 26 miles per hour with some areas experiencing winds of up to 31 miles per hour on Tuesday; snow totals were from six to twelve inches throughout the service territory. Damage as a result of the weather system included downed trees and wires, damaged or broken poles and crossarms, and damaged transformers. Crews experienced unsafe road conditions due to heavy wet snow accumulations during the initial onset of the storm. Approximately 60% of the total outages that occurred were tree related. Data indicates the reliability impact of the storm was 43.6 minutes of SAIDI, 0.08 of SAIFI frequency, and an overall storm CAIDI of 524.3 minutes.
- On Wednesday, February 28, 2024, 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 44 miles per hour. On Thursday, February 29, 2024, wind gusts continued at approximately 43 miles per hour. Damage as a result of the storms included downed trees and wires, damaged or broken poles and crossarms, and damaged transformers. Approximately 68% of the total outages were tree related. Data indicates the reliability impact of the storm was 21.3 minutes of SAIDI, 0.0441 of SAIFI frequency, and an overall storm CAIDI of 484.0 minutes.
- On Saturday, March 9, 2024, a weather system moved through Pennsylvania, reaching the Met-Ed service territory in the early afternoon. The system produced storms with heavy

precipitation and wind gusts of over 50 miles per hour on March 10th and 11th. Damage as a result of the storms included downed trees and wires, damaged or broken poles and crossarms, and damaged transformers. Approximately 64% of the total outages were tree related. Data indicates the reliability impact of the storm was 21.3 minutes of SAIDI, 0.0782 of SAIFI frequency, and an overall storm CAIDI of 272.7 minutes.

- Beginning in the early afternoon of Saturday, March 23, a weather system moved through Pennsylvania, reaching the Met-Ed service territory. The system produced storms with heavy precipitation with rain totals at 2.5 inches and maximum wind gusts of approximately 61 miles per hour. On Sunday, March 24, 2024, wind gusts continued reaching a maximum of approximately 57 miles per hour. Damage as a result of the storms included downed trees and wires, damaged or broken poles and crossarms, and damaged transformers. High winds affected restoration efforts as crews cannot safely handle materials if winds exceed 30 mph or operate bucket trucks if winds exceed 40 mph. The Stroudsburg district was the hardest hit area. Approximately 68% of the total outages were tree related. Data indicates the reliability impact of the storm was 4.8 minutes of SAIDI, 0.0135 of SAIFI frequency, and an overall storm CAIDI of 359.8 minutes.

Penelec

- Beginning in the afternoon hours of Tuesday, January 9, 2024, a weather system producing rain and heavy winds moved through Pennsylvania including the Penelec service territory. The system produced storms with heavy precipitation and high winds of approximately 54 miles per hour. Damage as a result of the high winds included downed wires, and damaged and broken poles, trees, and branches. Approximately 27.0% of the total outages that occurred were tree and an additional 18.5% were wind related. Preliminary data indicates the reliability impact of the storm was 73.3 minutes of SAIDI, 0.19 of SAIFI, and an overall storm CAIDI of 381.55 minutes.
- Reason for the interruption or outages: Beginning in the afternoon hours of Tuesday, January 12, 2024, a weather system producing rain and heavy winds moved through Pennsylvania including the Penelec service territory. The system produced storms with heavy precipitation and high winds of approximately 53 miles per hour. Damage as a result of the high winds included downed wires, and damaged and broken poles, trees, and branches. Approximately 42.9% of the total outages that occurred were tree related and an additional 23.0% were wind related. Data indicates the reliability impact of the storm was 22.4 minutes of SAIDI, 0.09 of SAIFI, and an overall storm CAIDI of 250.27 minutes.
- Reason for the interruption or outages: Beginning in the early morning hours of Wednesday, February 28, 2024, a winter storm system moved through Pennsylvania including the Penelec service territory. The system produced heavy precipitation and high winds with wind gusts of approximately 58 miles per hour. Windy conditions continued on Thursday, February 29, 2024 with wind gusts of approximately 45 miles per hour. Damage as a result of the high winds included downed trees and wires, damaged or broken poles and crossarms, and damaged transformers. Approximately 63.4% of the total outages that occurred were tree, wind, and lightning related. Preliminary data indicates the reliability impact of the storm was 8.5 minutes of SAIDI, 0.05 of SAIFI, and an overall storm CAIDI of 166.9 minutes.

West Penn

- Beginning the morning of Tuesday, January 9, 2024, through Thursday, January 11, 2024, Winter Storm Finn moved across Pennsylvania, including the West Penn service territory. The system produced heavy precipitation and wind gusts of over 60 miles per hour on January 9, 2024 and 45 miles per hour on January 10, 2024. Damage as a result of the high winds and snow accumulation included downed trees/power lines, damaged and broken poles/crossarms, and damaged equipment. Approximately 58% of the total outages that occurred were tree related. Data indicate the reliability impact of the storm was 23.5 minutes of SAIDI, 0.06 of SAIFI, and an overall storm CAIDI of 416.1 minutes.
- Beginning the evening of Friday, January 12, 2024, through Saturday, January 13, 2024, Winter Storm Gerri moved across Pennsylvania, including the West Penn service territory. The storm produced heavy precipitation and wind gusts of over 50 miles per hour on January 12, 2024 and 40 miles per hour on January 13, 2024. Damage as a result of the high winds and snow accumulation included downed trees/power lines, damaged and broken poles/crossarms, and damaged equipment. Approximately 55% of the total outages that occurred were tree related. Preliminary data indicate the reliability impact of the storm was 11.1 minutes of SAIDI, 0.05 of SAIFI, and an overall storm CAIDI of 209.3 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

Outage by Cause				
1st Quarter 2024 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees Off Row-Tree	105,103,815	3,980	272,926	47.26%
Equipment Failure	26,010,264	2,651	124,785	11.70%
Trees Off Row-Limb	21,900,994	1,508	64,193	9.85%
Unknown	20,072,834	2,001	108,761	9.03%
Forced Outage	13,283,043	913	143,362	5.97%
Vehicle	8,433,360	469	60,258	3.79%
Line Failure	5,389,235	647	21,522	2.42%
Trees On Row	4,824,990	242	10,715	2.17%
Lightning	3,383,367	262	12,856	1.52%
Wind	3,228,475	162	9,007	1.45%
Animal	3,002,520	1,921	33,926	1.35%
Ice	1,676,944	18	3,097	0.75%
Trees - Sec/Service	1,467,384	609	2,207	0.66%
Object Contact With Line	1,188,735	49	8,116	0.53%
Human Error - Company	882,288	31	9,886	0.40%
Human Error -Non-Company	723,824	73	3,475	0.33%
Fire	457,387	12	1,200	0.21%
Bird	441,073	636	7,213	0.20%
Overload	322,734	49	1,938	0.15%
Ug Dig-Up	185,093	34	537	0.08%
Previous Lightning	160,342	14	566	0.07%
Switching Error	80,867	10	3,822	0.04%
Customer Equipment	71,832	28	4,031	0.03%
Other Electric Utility	54,508	6	133	0.02%
Other Utility-Non Elec	49,751	6	250	0.02%
Vandalism	0	0	0	0.00%
Contamination	0	0	0	0.00%
Call Error	0	0	0	0.00%
Total	222,395,659	16,331	908,782	100%

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 March 31, 2024 and associated actions designed to address these outage causes.

To address outages caused by trees, Met-Ed performs cycle-based tree trimming which removes selected incompatible trees within the clearing zone corridor, removes certain defective limbs that are overhanging primary conductors, controls selected incompatible brush, and removes off-ROW priority trees. Met-Ed is limited in its ability to legally address 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. 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”) programs⁵ 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.

⁵ Pursuant to 52 Pa. Code § 57.198(a), every two years an electric distribution company shall file with the Commission a biennial plan for the periodic inspection, maintenance, repair, and replacement of its facilities. The Company submitted their Biennial Inspection, Maintenance, Repair and Replacement Plan for the period January 1, 2023 through December 31, 2024 on April 28, 2023 which was deemed approved on July 17, 2023 pursuant to 52 Pa. Code § 57.198(i).

Outages by Cause – Penelec

Outage by Cause				
1st Quarter 2024 12-Month Rolling	Penelec			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	51,837,151	2,573	213,454	37.84%
Equipment Failure	27,648,691	2,543	197,423	20.18%
Line Failure	14,005,545	1,778	114,208	10.22%
Forced Outage	7,992,830	1,247	82,814	5.83%
Unknown	7,295,741	2,017	88,511	5.33%
Vehicle	5,344,113	420	50,368	3.90%
Lightning	5,277,381	544	36,672	3.85%
Animal	4,496,276	1,607	41,921	3.28%
Trees Off Row-Limb	4,385,978	483	25,251	3.20%
Wind	3,205,937	208	11,780	2.34%
Bird	1,272,425	442	12,874	0.93%
Human Error -Non-Company	904,848	79	6,772	0.66%
Other Electric Utility	729,443	104	2,114	0.53%
Trees - Sec/Service	684,413	696	2,279	0.50%
Overload	460,344	20	2,175	0.34%
Ice	333,026	57	1,877	0.24%
Trees On Row	271,179	60	1,121	0.20%
Human Error - Company	226,674	70	10,295	0.17%
Ug Dig-Up	176,692	64	742	0.13%
Fire	140,033	14	912	0.10%
Object Contact With Line	121,180	48	585	0.09%
Switching Error	58,466	8	2,363	0.04%
Customer Equipment	39,889	14	404	0.03%
Other Utility-Non Elec	36,478	5	112	0.03%
Vandalism	20,473	19	504	0.01%
Contamination	16,372	38	179	0.01%
Previous Lightning	9,354	22	71	0.01%
Call Error	121	1	1	0.00%
Total	136,991,053	15,181	907,782	100%

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 March 31, 2024 and the associated actions designed to address these outage causes.

To address outages caused by trees, Penelec performs cycle-based tree trimming which removes selected incompatible trees within the clearing zone corridor, removes certain defective limbs that are overhanging primary conductors, controls selected incompatible brush, and removes off-ROW priority trees. Penelec is limited in its ability to legally address 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. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to Penelec's customers. Penelec continues its program to mitigate trees subject to damage from the Emerald Ash Borer.

To reduce the likelihood of outages caused by equipment and line failure, Penelec follows I&M programs that set forth schedules for regular inspections of distribution and substation facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, radio-controlled switches, substations, and reclosers. Equipment identified is repaired or replaced as appropriate.

Outages by Cause – Penn Power

Outage by Cause				
4th Quarter 2023 12-Month Rolling	Penn Power			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	10,049,566	664	29,793	45.67%
Equipment Failure	2,808,757	308	27,956	12.76%
Trees Off Row-Limb	2,216,796	270	9,906	10.07%
Line Failure	1,490,722	357	8,321	6.77%
Unknown	1,401,737	192	29,712	6.37%
Vehicle	1,176,805	116	9,754	5.35%
Lightning	824,567	152	5,131	3.75%
Animal	610,973	375	8,285	2.78%
Forced Outage	517,739	93	11,408	2.35%
Bird	317,672	432	3,348	1.44%
Trees - Sec/Service	182,176	95	302	0.83%
Call Error	100,289	2	371	0.46%
Trees On Row	82,607	7	171	0.38%
Wind	80,795	6	55	0.37%
Ug Dig-Up	60,100	38	673	0.27%
Overload	34,762	4	515	0.16%
Human Error -Non-Company	22,660	13	98	0.10%
Object Contact With Line	21,809	6	346	0.10%
Fire	4,483	4	28	0.02%
Human Error - Company	1,019	2	65	0.00%
Previous Lightning	545	4	4	0.00%
Customer Equipment	427	4	4	0.00%
Other Electric Utility	0	0	0	0.00%
Ice	0	0	0	0.00%
Switching Error	0	0	0	0.00%
Other Utility Non-Elec	0	0	0	0.00%
Vandalism	0	0	0	0.00%
Contamination	0	0	0	0.00%
Total	22,007,006	3,144	146,246	100%

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 March 31, 2024 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 is limited in its ability to legally address 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. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to Penn Power's customers. Penn Power continues its program to mitigate trees subject to damage from the Emerald Ash Borer.

To reduce the likelihood of outages caused by equipment and line failure outages, Penn Power follows I&M programs that set forth schedules for regular inspections of distribution facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, and reclosers. Equipment identified is repaired or replaced as appropriate.

Outages by Cause – West Penn

Outage by Cause				
4th Quarter 2023 12-Month Rolling	West Penn			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees Off Row-Tree	79,767,625	3,525	207,130	49.00%
Line Failure	16,761,777	1,692	83,359	10.30%
Unknown	14,763,987	1,425	122,556	9.07%
Equipment Failure	12,637,356	1,772	82,392	7.76%
Vehicle	10,160,254	511	54,039	6.24%
Trees Off Row-Limb	7,900,653	518	34,694	4.85%
Forced Outage	7,301,229	1,006	105,628	4.48%
Wind	3,420,201	186	12,695	2.10%
Animal	2,921,554	1,419	23,692	1.79%
Lightning	2,055,175	171	13,532	1.26%
Bird	1,101,706	437	10,286	0.68%
Human Error -Non-Company	843,761	65	5,963	0.52%
Trees On Row	788,419	133	2,550	0.48%
Other Electric Utility	777,846	10	1,502	0.48%
Object Contact With Line	742,520	36	4,154	0.46%
Trees - Sec/Service	269,888	335	775	0.17%
Ug Dig-Up	214,146	68	719	0.13%
Human Error - Company	134,867	28	7,779	0.08%
Fire	124,342	16	813	0.08%
Overload	62,803	11	165	0.04%
Ice	23,798	6	57	0.01%
Other Utility-Non Elec	10,434	5	30	0.01%
Vandalism	5,430	5	13	0.00%
Customer Equipment	3,040	6	20	0.00%
Previous Lightning	1,038	2	4	0.00%
Switching Error	0	0	0	0.00%
Contamination	0	0	0	0.00%
Call Error	0	0	0	0.00%
Total	162,793,849	13,388	774,543	100%

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 March 31, 2024, and the associated actions designed to address these outage causes.

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

To reduce the likelihood of equipment and line failures, West Penn follows I&M programs that set forth schedules for regular inspections of distribution and substation facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, substations, and reclosers. Equipment identified is repaired or replaced as appropriate.

Section 57.195(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).

Inspection and Maintenance		Met-Ed			Penelec			Penn Power			West Penn		
		Planned Annual	Completed IQ	Completed YTD	Planned Annual	Completed IQ	Completed YTD	Planned Annual	Completed IQ	Completed YTD	Planned Annual	Completed IQ	Completed YTD
Forestry	2024												
	Transmission (Miles)	272	63	23.10%	430	178.1	41.40%	171	66.8	39.00%	211	158.7	75.10%
Transmission	Distribution (Miles)	2,857	295	10.30%	3,828	444	11.60%	1,069	76	7.10%	4,535	850	18.70%
	Aerial Patrols	2	0	0.00%	2	0	0.00%	2	0	0.00%	2	0	0.00%
	Groundline	1,652	0	0.00%	2,485	0	0.00%	975	0	0.00%	424	0	0.00%
Substation	Substation Inspections Class A	420	420	100.00%	776	338	43.60%	150	75	50.00%	936	468	50.00%
	Substation Inspections Class B	420	0	0.00%	776	0	0.00%	150	0	0.00%	936	0	0.00%
	Substation Inspections Class C	1,680	420	25.00%	3,104	776	25.00%	600	150	25.00%	3,744	947	25.30%
	Transformers	140	49	35.00%	407	266	65.40%	9	0	0.00%	375	156	41.60%
	Breakers	65	9	13.80%	323	70	21.70%	12	0	0.00%	362	46	12.70%
Distribution	Relay Schemes	275	35	12.70%	358	139	38.80%	24	2	8.30%	203	7	3.40%
	Capacitors	4,822	4,831	100.00%	8,583	8,583	100.00%	945	945	100.00%	3,823	3,823	100.00%
	Poles	38,000	0	0.00%	41,509	0	0.00%	10,743	0	0.00%	46,650	0	0.00%
	Reclosers	3,531	2,525	71.50%	3,926	1,232	31.40%	1,239	0	0.00%	4,470	2,056	46.00%
	Radio-Controlled Switches	1,800	371	20.60%	2,666	222	8.30%	Penn Power has no radio-controlled switches			West Penn has no radio-controlled switches		

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

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 Expenditures⁶*

This portion of the report is confidential.

⁶ Budgets are subject to change.

Budgeted vs. Actual T&D Operation & Maintenance Expenditures⁷
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).

This portion of the report is confidential.

⁷ 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).⁸
Staffing Levels*

Met-Ed 2024																
Department	Position	Staffing Level				Staff Added in Quarter				Staff Movement Quarter			Staff lost in Quarter			Plan to Hire in 2024 ¹²
		1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	New Hire Apprentice	Other ⁹	Movement within Position ¹⁰	Retirement	Voluntary Separation	Other ¹¹			
Distribution	Line Leader	43							1				1	0	3	
	Line Troubleshooter	38							4							
	Lineman	160							1					1	6	
Substation	Substation Leader	15							1				1			
	Substation Employee	69							1	1					2	
Transmission	Line Leader	3							0						0	
	Lineman	10							1						0	
	Total	338				0	0	0	9	1	1	2	1	11		

⁸ 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.

⁹ Includes transfers and promotions.

¹⁰ Includes transfers, promotions, and progression within a position.

¹¹ Includes transfers, voluntary separations, promotions, and assignment changes for extended disability and long-term disability.

¹² 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 2024														
Department	Position	Staffing Level				Staff Added in Quarter				Staff Movement Quarter	Staff Lost in Quarter			Plan to Hire in 2024 ¹⁶
		1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	New Hire – Apprentice	Other ¹³	Movement within Position ¹⁴	Retirement	Voluntary Separation	Other ¹⁵	
Distribution	Line Leader	55				0	0	0	1	1	3	0	4	
	Line Troubleshooter	81				0	0	0	8	0	2	0	5	
	Lineman	154				1	1	0	4	0	0	1	2	
Substation	Substation Leader	32				0	0	0	3	0	0	0	0	
	Substation Employee	58				0	0	0	1	0	0	0	5	
Transmission	Line Leader	6				0	0	0	0	0	0	0	0	
	Lineman	17				0	0	0	0	0	0	0	2	
Total		403				1	1	0	17	1	5	1	18	

¹³ Includes transfers, promotions, and assignment changes for extended disability or long-term disability.

¹⁴ Includes transfers, promotions, and progression within a position.

¹⁵ Includes transfers, voluntary separations, and promotions.

¹⁶ 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 2024														
Department	Position	Staffing Level				Staff Added in Quarter				Staff Movement Quarter	Staff Lost in Quarter			Plan to Hire in 2024 ²⁰
		1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	New Hire Apprentice	Other ¹⁷	Movement within Position ¹⁸	Retirement	Voluntary Separation	Other ¹⁹	
Distribution	Line Leader	24				0	0	0	2	0	1	0	1	
	Line Troubleshooter	15				0	0	0	3	0	0	0	0	3
	Lineman	46				0	0	0	2	0	0	0	0	3
Substation	Substation Leader	5				0	0	0	0	0	0	0	0	0
	Substation Employee	17				0	0	0	0	0	0	0	0	0
Transmission	Line Leader	1				0	0	0	0	0	0	0	0	0
	Lineman	6				0	0	0	0	0	0	0	0	0
Total		114				0	0	0	7	0	1	0	7	0

¹⁷ Includes transfers, promotions, and assignment changes for extended disability or long-term disability.

¹⁸ Includes transfers, promotions, and progression within a position.

¹⁹ Includes transfers, voluntary separations, and assignments changes for extended disability and long-term disability.

²⁰ 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 2024														
Department	Position	Staffing Level				Staff Added in Quarter				Staff Lost in Quarter			Plan to Hire in 2024 ²⁴	
		1Q	2Q	3Q	4Q	New Hire – Experience	New Hire – PSI Student	New Hire Apprentice	Other ²¹	Movement within Position ²²	Retirement	Voluntary Separation		Other ²³
Distribution	Line Leader	78				0	0	0	4	0	2	0	3	
	Line Troubleshooter	50				0	0	0	3	0	0	0	5	
	Lineman	158				3	0	0	1	0	0	0	3	
Substation	Substation Leader	23				0	0	0	1	0	0	0	0	
	Substation Employee	85				0	0	0	0	2	0	0	1	
Transmission	Line Leader	2				0	0	0	0	0	0	0	0	
	Lineman	11				0	0	0	0	0	0	0	0	
Total		407				3	0	0	9	2	2	0	12	

²¹ Includes transfers, promotions, and assignment changes for extended disability or long term disability.

²² Includes transfers, promotions, and progression within a position.

²³ Includes transfers, promotions, involuntary separations, and assignment changes for extended disability and long term disability

²⁴ 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

Certain 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.

Call-out Response

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	Mountain Substation	00744-4	Dillsburg	1,874	100	0	4,721,976	7,582	8.12	2,519.731	4.046	622.788	0.007
2	Barto Sub	00706-1	Boyletown	3,014	258	0	4,062,291	11,026	6.99	1,347.807	3.658	368.428	0.000
3	Shawnee Sub	00899-3	Stroudsburg	1,697	82	4	3,314,444	11,112	5.70	1,953.120	6.548	298.276	3.204
4	No Bangor	00826-3	Easton	3,335	162	0	3,239,334	10,357	5.57	971.315	3.106	312.768	0.560
5	No Bangor	00813-3	Easton	1,368	87	0	3,111,814	7,614	5.35	2,274.718	5.566	408.696	0.000
6	Ottsville Substation	00660-3	Easton	885	89	1	2,723,856	6,583	4.69	3,077.803	7.438	413.771	1.956
7	Richmond Subst	00104-3	Easton	520	36	3	2,698,753	2,456	4.64	5,189.910	4.723	1,098.841	0.000
8	Lynnville Sub	00737-1	Hamburg	1,089	103	1	2,675,829	5,040	4.60	2,457.143	4.628	530.918	4.003
9	S Hamb Sub	00740-1	Hamburg	1,283	94	0	2,653,652	5,792	4.57	2,068.318	4.514	458.158	0.331
10	Ottsville Substation	00661-3	Easton	610	102	1	2,305,696	3,830	3.97	3,779.830	6.279	602.009	4.085
11	Mc Knights Gap Sub	00774-1	Reading	1,596	72	0	2,246,473	3,469	3.86	1,407.565	2.174	647.585	1.815
12	Glendon	00818-3	Easton	1,638	29	0	2,208,961	3,269	3.80	1,348.572	1.996	675.730	0.140
13	Painted Sky	00650-1	Reading	1,776	40	3	2,090,876	10,100	3.60	1,177.295	5.687	207.017	0.000
14	Lorane	00560-1	Reading	1,157	45	1	2,079,969	2,950	3.58	1,797.726	2.550	705.074	1.068
15	Fox Hill Subst	00816-3	Stroudsburg	3,393	63	0	2,022,783	8,380	3.48	596.164	2.470	241.382	1.168
16	Mountain Substation	00743-4	Dillsburg	1,035	46	0	1,960,032	5,934	3.37	1,893.751	5.733	330.305	0.000
17	Flying Hills Sub	00776-1	Reading	1,492	43	1	1,959,451	4,459	3.37	1,313.305	2.989	439.437	0.013
18	Bern Church Sub	00789-1	Reading	1,464	104	0	1,926,049	3,722	3.31	1,315.607	2.542	517.477	0.010
19	Ringling Rocks Sub	00708-1	Boyletown	2,507	75	0	1,895,173	4,863	3.26	755.953	1.940	389.713	0.006
20	Flying Hills Sub	00777-1	Reading	1,802	115	0	1,853,374	4,761	3.19	1,028.509	2.642	389.283	0.638
21	Mohnton Sub Sta	00144-1	Reading	977	30	2	1,838,029	3,556	3.16	1,881.299	3.640	516.881	0.000
22	Carsonia Sub	00764-1	Reading	2,909	66	2	1,818,646	7,367	3.13	625.179	2.532	246.864	2.832
23	Bridgeton Sub	00117-3	Easton	298	24	0	1,772,182	1,452	3.05	5,946.919	4.872	1,220.511	1.003
24	Birdsboro	00757-1	Reading	2,004	105	2	1,701,787	5,615	2.93	849.195	2.802	303.079	1.847
25	Lyons Sub	00729-1	Reading	1,358	124	0	1,699,791	5,493	2.92	1,251.687	4.045	309.447	0.258

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

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
26	Fox Hill Subst	00852-3	Stroudsburg	794	49	0	1,673,734	4,185	2.88	2,107,977	5.271	399.936	0.000
27	Raubsville St	00079-3	Easton	803	33	0	1,644,587	1,869	2.83	2,048,054	2.328	879.929	0.000
28	Angelia Sub	00129-1	Reading	710	34	1	1,625,602	1,914	2.80	2,289,580	2.696	849.322	0.996
29	W Boyertown Sub	00714-1	Boyertown	1,881	83	1	1,612,836	7,092	2.77	857,435	3.770	227.416	0.000
30	Birdsboro	00756-1	Reading	1,538	119	0	1,604,727	7,574	2.76	1,043,386	4.925	211.873	3.299
31	W Boyertown Sub	00715-1	Boyertown	1,713	64	0	1,549,319	4,230	2.67	904,448	2.469	366.269	0.000
32	Round Top	00582-4	Dillsburg	727	54	1	1,483,938	3,110	2.55	2,041,180	4.278	477.150	0.033
33	Raubsville St	00095-3	Easton	531	42	1	1,458,676	2,814	2.51	2,747,036	5.299	518.364	0.000
34	North Cornwall Sub	00610-2	Lebanon	2,328	77	1	1,394,604	9,288	2.40	599,057	3.990	150.151	0.972
35	S Hamb Sub	00743-1	Hamburg	1,178	68	0	1,372,480	2,381	2.36	1,165,093	2.021	576.430	0.000
36	Huffs Church	00600-1	Boyertown	1,514	175	0	1,360,977	6,045	2.34	898,928	3.993	225.141	0.092
37	Lickdale Substation	00625-2	Lebanon	1,019	96	2	1,251,853	3,149	2.15	1,228,511	3.090	397.540	0.623
38	Ferndale Sub	00078-3	Easton	425	47	4	1,236,435	3,561	2.13	2,909,259	8.379	347.216	0.886
39	Stroudsburg	00610-3	Stroudsburg	904	26	0	1,194,964	4,877	2.06	1,321,863	5.395	245.020	1.844

2024 Quarterly Reliability Report
for period ending March 31, 2024.

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Warren South	00220-41	Warren	2,839	92	0	2,951,828	9,971	5.01	1039.742	3.512	296.041	3.987
2	Union City	00208-43	Erie	1,595	72	0	2,072,981	7,065	3.52	1299.675	4.429	293.416	1.920
3	Falls	00297-65	Montrose	835	40	0	1,958,487	2,516	3.33	2345.493	3.013	778.413	4.830
4	Tiffany	00435-65	Montrose	1,295	27	1	1,560,184	4,575	2.65	1204.775	3.533	341.024	0.055
5	Natl Forge Sw Sta	00577-41	Warren	1,212	47	0	1,396,895	6,725	2.37	1152.554	5.549	207.717	3.342
6	Russell Hill	00282-65	Montrose	1,038	56	1	1,385,581	5,309	2.35	1334.856	5.115	260.987	0.355
7	Grover	00527-63	Towanda	1,094	81	0	1,381,405	3,383	2.35	1262.710	3.092	408.337	0.401
8	Union City	00206-43	Erie	2,535	92	0	1,379,973	5,948	2.34	544.368	2.346	232.006	0.134
9	N Meshoppen Tran	00534-65	Montrose	883	67	1	1,362,681	4,174	2.31	1543.240	4.727	326.469	0.600
10	Tunkhannock	00533-65	Montrose	1,270	60	1	1,263,279	4,156	2.15	994.708	3.272	303.965	4.431
11	Lake Como	00788-65	Montrose	652	23	1	1,255,188	2,589	2.13	1925.135	3.971	484.816	0.288
12	North Warren	00207-41	Warren	1,394	54	1	1,207,620	3,430	2.05	866.298	2.461	352.076	2.029
13	Rockwood	00023-12	Somerset	233	10	0	992,106	923	1.68	4257.966	3.961	1074.871	3.406
14	Rolling Meadows	00249-31	Erie	2,147	23	2	958,606	5,080	1.63	446.486	2.366	188.702	0.392
15	Springboro	00237-52	Meadville	2,827	88	0	951,974	4,514	1.62	336.744	1.597	210.894	0.002
16	Thompson	00436-65	Montrose	1,370	70	0	939,166	2,635	1.59	685.523	1.923	356.420	1.906
17	Brooklyn	00749-65	Montrose	525	35	0	852,893	1,452	1.45	1624.558	2.766	587.392	0.000
18	Lewis Run	00409-42	Bradford	743	22	0	808,311	2,599	1.37	1087.902	3.498	311.008	0.895
19	Platea	00432-34	Erie	636	61	1	764,705	3,478	1.30	1202.366	5.469	219.869	0.090
20	East Sayre	00518-61	Towanda	973	27	1	682,330	2,139	1.16	701.264	2.198	318.995	0.514
21	Meshoppen	00283-65	Montrose	400	23	0	677,985	1,644	1.15	1694.963	4.110	412.400	7.466
22	Marienville	00328-51	Oil City	1,230	44	0	677,040	1,987	1.15	550.439	1.615	340.735	1.084
23	North Warren	00596-41	Warren	1,135	29	1	647,800	1,527	1.10	570.749	1.345	424.231	2.939
24	Athens	00514-61	Towanda	784	21	2	634,150	1,925	1.08	808.865	2.455	329.429	0.042
25	Avery	00791-65	Montrose	384	20	1	626,666	908	1.06	1631.943	2.365	690.161	0.146
26	N Meshoppen Tran	00531-65	Montrose	431	41	2	599,281	3,599	1.02	1390.443	8.350	166.513	0.176
27	Thompson	00446-65	Montrose	1,281	78	0	583,019	2,818	0.99	455.128	2.200	206.891	0.000
28	Ppl West	PL097-62	Towanda	103	14	8	569,092	1,254	0.97	5525.165	12.175	453.821	0.000

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
29	Lenox	00755-65	Montrose	707	47	0	561,598	1,705	0.95	794.339	2.412	329.383	0.000
30	Shippensburg 1	00630-83	Shippensburg	1,795	48	0	561,556	4,933	0.95	312.845	2.748	113.837	0.001
31	Piney	00523-51	Oil City	1,532	58	1	559,697	2,143	0.95	365.337	1.399	261.175	0.199
32	Rockton Mountain	00138-21	Clearfield	504	24	0	558,136	1,332	0.95	1107.413	2.643	419.021	0.704
33	Timblin	00103-23	Dubois	708	30	1	555,740	3,120	0.94	784.944	4.407	178.122	1.504
34	East Towanda	00525-62	Towanda	682	42	0	547,609	1,878	0.93	802.946	2.754	291.592	0.991
35	Lake Como	00786-65	Montrose	329	16	2	536,317	978	0.91	1630.143	2.973	548.381	0.000
36	Meyersdale North	00022-12	Somerset	1,570	47	0	527,490	5,592	0.90	335.981	3.562	94.329	1.791
37	Laurel Lake Sub Tran	00449-65	Montrose	535	32	3	522,212	3,671	0.89	976.097	6.862	142.253	2.912
38	Lowell Avenue	00518-31	Erie	878	20	1	518,619	7,286	0.88	590.682	8.298	71.180	3.466
39	Industrial Park	00796-65	Montrose	375	14	0	505,890	556	0.86	1349.040	1.483	909.874	0.000
40	Crown	00519-51	Oil City	651	35	0	472,448	1,577	0.80	725.727	2.422	299.587	0.000
41	Grandview	00354-51	Oil City	535	24	1	458,309	1,132	0.78	856.652	2.116	404.867	0.447
42	Athens	00511-61	Towanda	781	23	1	455,747	1,869	0.77	583.543	2.393	243.845	0.801
43	Port Allegany	00151-42	Bradford	498	28	0	448,594	810	0.76	900.791	1.627	553.820	0.000
44	N Meshoppen Tran	00437-65	Montrose	501	46	0	422,777	982	0.72	843.866	1.960	430.526	1.306
45	Dubois	00124-23	Dubois	2,088	24	1	422,243	5,171	0.72	202.224	2.477	81.656	0.779
46	Snakespring	00634-73	Altoona	1,179	6	0	422,022	2,629	0.72	357.949	2.230	160.526	0.000
47	Fairview East	00218-34	Erie	1,035	24	0	420,684	2,429	0.71	406.458	2.347	173.192	0.130
48	Hooversville	00019-12	Somerset	1,636	37	0	419,779	2,450	0.71	256.589	1.498	171.338	0.568
49	Two Mile	00127-42	Bradford	1,304	30	0	418,471	2,515	0.71	320.913	1.929	166.390	0.371
50	Mount Union	00154-82	Lewistown	1,180	18	1	410,534	2,751	0.70	347.910	2.331	149.231	0.017
51	Oxbow	00555-65	Montrose	746	37	0	404,119	1,975	0.69	541.714	2.647	204.617	0.904
52	Rachel Hill	00049-11	Johnstown	2,350	18	0	397,061	6,031	0.67	168.962	2.566	65.837	0.005
53	Vail	00647-22	Philipsburg	586	18	2	393,243	1,832	0.67	671.063	3.126	214.652	0.074
54	Madera	00166-22	Philipsburg	2,167	76	0	392,901	4,516	0.67	181.311	2.084	87.002	0.135
55	Bradford South	00106-42	Bradford	1,206	18	1	371,119	1,829	0.63	307.727	1.517	202.908	0.985

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
56	Edinboro	00420-34	Erie	1,623	32	1	363,652	3,479	0.62	224,062	2.144	104,528	1.076
57	Laurel Pipeline	00036-71	Altoona	925	23	0	362,949	1,586	0.62	392,377	1.715	228,846	0.000
58	Blairsville East	00080-13	Indiana	1,034	20	0	362,328	2,806	0.62	350,414	2.714	129,126	1.090
59	Marienville	00327-51	Oil City	756	28	0	361,956	1,432	0.61	478,778	1.894	252,763	0.986
60	Wellsboro	00324-63	Mansfield Pa	267	19	4	357,039	1,018	0.61	1337,225	3.813	350,726	0.026
61	Northeast	00592-31	Erie	1,601	65	0	355,689	3,266	0.60	222,167	2.040	108,907	0.000
62	Saxton	00631-73	Altoona	837	9	2	353,231	1,698	0.60	422,020	2.029	208,028	0.954

2024 Quarterly Reliability Report
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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	1,884	16	0	891,630	1,681	5.15	473,264	0.892	530,416	0.000
2	Hartstown	W-126	Clark	2,261	69	1	849,421	6,310	4.90	375,684	2.791	134,615	0.000
3	Sharpsville	W-218	Clark	1,385	24	1	835,223	2,918	4.82	603,049	2.107	286,231	0.000
4	Camp Reynolds	W-134	Clark	1,843	71	0	662,085	2,459	3.82	359,243	1.334	269,250	0.000
5	Conneaut	W-173	Clark	1,927	32	0	475,097	2,391	2.74	246,547	1.241	198,702	0.000
6	Darlington	D-536	Zelienople	1,152	42	1	462,047	1,822	2.67	401,082	1.582	253,593	0.000
7	Mercer	W-128	Clark	1,239	59	0	461,244	1,087	2.66	372,271	0.877	424,328	0.074
8	Mars	D616	Zelienople	1,529	28	1	400,366	2,220	2.31	261,848	1.452	180,345	0.000
9	Koppel	D-531	New Castle	1,050	31	1	395,135	2,896	2.28	376,319	2.758	136,442	0.002
10	Seneca	W700	Zelienople	923	38	0	363,876	1,817	2.10	394,232	1.969	200,262	0.000

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West Penn												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
1	Normalville	Mill Run	Pleasant Valley	579	31	1	2,731,148	1,996	3.754	4717.009	3.447	1368.311
2	Iron Bridge	Bridgeport	Pleasant Valley	1,273	22	3	2,610,948	4,295	3.589	2051.020	3.374	607.904
3	Normalville	Indianhead	Pleasant Valley	562	33	0	1,779,177	1,766	2.446	3165.795	3.142	1007.461
4	Rutan	Bristoria	Jefferson	899	47	0	1,723,464	3,472	2.369	1917.090	3.862	496.389
5	Waterville	Waterville	State College	362	20	3	1,511,598	2,953	2.078	4175.685	8.157	511.886
6	Frazier	Star Junction	Pleasant Valley	1,741	18	1	1,417,391	2,386	1.948	814.125	1.370	594.045
7	Franklin Wpp	South Waynesburg	Jefferson	2,056	51	3	1,372,328	7,340	1.886	667.475	3.570	186.966
8	Houston	Mcgovern	Washington Pa	2,105	41	0	1,344,961	6,061	1.849	638.936	2.879	221.904
9	Dutch Fork	Claysville	Washington Pa	1,639	62	2	1,223,608	4,607	1.682	746.558	2.811	265.598
10	Amity	Amity	Washington Pa	534	20	0	1,146,325	1,613	1.576	2146.676	3.021	710.679
11	Vanceville	Vanceville	Charleroi	1,379	63	0	1,121,786	4,047	1.542	813.478	2.935	277.190
12	Piney Fork	Knothole	Charleroi	1,677	15	0	1,095,192	2,424	1.505	653.066	1.445	451.812
13	Pangburn Hill	Pangburn Hill	Charleroi	741	26	0	1,089,120	1,228	1.497	1469.798	1.657	886.906
14	Smith	Francis Mine	Washington Pa	1,433	27	1	1,026,543	1,981	1.411	716.359	1.382	518.194
15	Bethlen	Laughlinton	Latrobe	1,096	51	0	1,020,801	2,102	1.403	931.388	1.918	485.633
16	Footedale	Footedale	Uniontown	1,186	32	0	964,522	3,384	1.326	813.256	2.853	285.024
17	Peters	McMurray	Boyce	1,496	30	1	945,118	5,703	1.299	631.763	3.812	165.723
18	Iron Bridge	Mt Pleasant	Pleasant Valley	1,110	11	2	944,147	2,279	1.298	850.583	2.053	414.281
19	Iron Bridge	Alverton	Pleasant Valley	693	14	1	905,234	1,550	1.244	1306.254	2.237	584.022
20	Smith	Florence	Washington Pa	810	29	0	882,058	2,004	1.212	1088.960	2.474	440.149
21	Kane	Russell City	St Marys	710	16	0	876,022	1,273	1.204	1233.834	1.793	688.156
22	Connellsville	West Side	Pleasant Valley	556	8	4	855,247	2,313	1.176	1538.214	4.160	369.757
23	Frazier	Perry	Pleasant Valley	733	25	1	850,271	2,521	1.169	1159.988	3.439	337.275
24	Bethelboro	Coolspring	Uniontown	1,453	43	1	793,814	2,873	1.091	546.328	1.977	276.301
25	Fort Palmer	Oakgrove	Latrobe	680	25	0	786,404	962	1.081	1156.476	1.415	817.468
26	Treveskyn	Treveskyn	Boyce	1,411	20	2	766,085	1,957	1.053	542.938	1.387	391.459
27	Murryerest	Sardis Road	Jeannette	1,487	25	1	758,610	3,136	1.043	510.161	2.109	241.904
28	Emporium	Emporium Jct	St Marys	597	23	1	757,687	2,085	1.041	1269.157	3.492	363.399

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	Gordon	Wolfdale	Washington Pa	2,080	40	2	753,300	5,988	1.035	362.163	2.879	125.802
30	Brave	Spragg	Jefferson	368	32	0	751,246	1,304	1.033	2041.429	3.543	576.109
31	Tri Town	Vanderbilt	Pleasant Valley	910	19	0	749,075	1,312	1.030	823.159	1.442	570.941
32	Amity	Banetown	Washington Pa	1,489	40	0	744,368	2,479	1.023	499.911	1.665	300.269
33	Driftwood	Driftwood	St Marys	769	27	0	707,918	1,924	0.973	920.570	2.502	367.941
34	Bethlen	Darlington	Latrobe	1,242	68	0	704,211	3,547	0.968	566.998	2.856	198.537
35	Normalville	Normalville	Pleasant Valley	465	25	0	703,459	773	0.967	1512.815	1.662	910.038
36	Charleroi	Warner	Charleroi	1,217	18	0	681,488	1,775	0.937	559.974	1.459	383.937
37	Patterson Street	South Residential	State College	2,164	27	1	676,530	5,091	0.930	312.629	2.353	132.887
38	Port Matilda	Port Matilda	State College	1,439	42	2	668,383	3,052	0.919	464.477	2.121	218.998
39	Craven	Fisher Heights	Charleroi	862	11	1	656,711	1,532	0.903	761.846	1.777	428.663
40	Ethel Springs	Pandora	Latrobe	1,980	29	2	644,737	4,171	0.886	325.625	2.107	154.576
41	Crossgates	Peters Twp	Boyce	1,099	18	0	643,620	3,478	0.885	585.641	3.165	185.055

2024 Quarterly Reliability Report
for period ending March 31, 2024.

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	Mountain Substation	00744-4	Dillsburg	1,874	100	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	8.12	Trees Off Row-Tree	86%	2Q 2023	
	SAIDI	2,519.73	Wind	7%	3Q 2023	
	SAIFI	4.05	Trees On Row	3%	4Q 2023	
	CAIDI	623	All Other	4%	1Q 2024	
	Customer Minutes	4,721,976				
	Customers Affected	7,582				
	Remedial Action Planned or Taken				Status	Progress
	Circuit Zone 2 Conversion LTIP				Complete	Nov-23
	Overhead circuit inspection				To be completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages	
2	Barto Sub	00706-1	Boyetown	3,014	258	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	6.99	Trees Off Row-Tree	52%	2Q 2023	
	SAIDI	1,347.81	Equipment Failure	18%	3Q 2023	
	SAIFI	3.66	Unknown	15%	4Q 2023	
	CAIDI	368		15%	1Q 2024	
	Customer Minutes	4,062,291				
	Customers Affected	11,026				
	Remedial Action Planned or Taken				Status	Progress
	Replace priority mainline poles (4 poles)				Complete	Sep-23
	Targeted tree trimming and removals				Complete	Oct-23
	Install Supervisory Control and Data Acquisition (SCADA) devices (3 devices)				Complete	Mar-24
	Cycle tree trimming				To be completed 2024	40%

Met-Ed					
3	Shawnee Sub	00899-3	Stroudsburg	1,697	82
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.70	Trees Off Row-Tree	51%	2Q 2023
	SAIDI	1,953.12	Unknown	38%	3Q 2023
	SAIFI	6.55	Equipment Failure	8%	4Q 2023
	CAIDI	298	All Other	2%	1Q 2024
	Customer Minutes	3,314,444			
	Customers Affected	11,112			
	Remedial Action Planned or Taken			Status	Progress
	Mainline Forestry Aerial Patrol			Complete	Jul-23
	Engineering circuit tie addition review			Complete	Jan-24
	Targeted Mainline Circuit Rehabilitation LTIP Engineering Review			Complete	Feb-24
	Upgrade Supervisory Control and Data Acquisition (SCADA) devices (2 devices)			To be completed 2024	50%
	Rank	Substation	Circuit	District	Customers
4	No Bangor	00826-3	Easton	3,335	162
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.57	Trees Off Row-Tree	57%	2Q 2023
	SAIDI	971.31	Equipment Failure	17%	3Q 2023
	SAIFI	3.11	Lightning	8%	4Q 2023
	CAIDI	313	All Other	18%	1Q 2024
	Customer Minutes	3,239,334			
	Customers Affected	10,357			
	Remedial Action Planned or Taken			Status	Progress
	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
	Engineering circuit tie addition review			Complete	Feb-24

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
5	No Bangor	00813-3	Easton	1,368	87
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.35	Trees Off Row-Tree	76%	2Q 2023
	SAIDI	2,274.72	Forced Outage	12%	3Q 2023
	SAIFI	5.57	Trees Off Row-Limb	6%	4Q 2023
	CAIDI	409	All Other	6%	1Q 2024
	Customer Minutes	3,111,814			
	Customers Affected	7,614			
	Remedial Action Planned or Taken			Status	Progress
	Fuse relocation project			Complete	Apr-23
	Mainline Forestry Aerial Patrol			Complete	Jul-23
	Circuit conversion project			Complete	Dec-23
	LTIP Engineering Review			Complete	Feb-24
Rank	Substation	Circuit	District	Customers	Outages
6	Ottsville Substation	00660-3	Easton	885	89
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.69	Trees Off Row-Tree	32%	2Q 2023
	SAIDI	3,077.80	Unknown	32%	3Q 2023
	SAIFI	7.44	Trees Off Row-Limb	17%	4Q 2023
	CAIDI	414	All Other	19%	1Q 2024
	Customer Minutes	2,723,856			
	Customers Affected	6,583			
	Remedial Action Planned or Taken			Status	Progress
	Replace/repair high priority items identified during overhead circuit patrol			Complete	Aug-23
	Construct Circuit Tie LTIP			Complete	Dec-23

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
7	Richmond Subst	00104-3	Easton	520	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.64	Trees Off Row-Limb	45%	3Q 2023
	SAIDI	5,189.91	Trees Off Row-Tree	18%	4Q 2023
	SAIFI	4.72	Equipment Failure	14%	1Q 2024
	CAIDI	1,099	All Other	23%	
	Customer Minutes	2,698,753			
	Customers Affected	2,456			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry trimming			Complete	Oct-23
	Overhead circuit inspection			Complete	Jun-23
	Install switch			Complete	Feb-24
	Mainline relocation LTIIP Engineering Review			Complete	Feb-24
	Cycle tree trimming			To be completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
8	Lynnville Sub	00737-1	Hamburg	1,089	103
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.60	Trees Off Row-Tree	26%	2Q 2023
	SAIDI	2,457.14	Equipment Failure	23%	3Q 2023
	SAIFI	4.63	Ice	17%	4Q 2023
	CAIDI	531	All Other	34%	1Q 2024
	Customer Minutes	2,675,829			
	Customers Affected	5,040			
	Remedial Action Planned or Taken			Status	Progress
	Cycle Tree Trimming			Complete	Dec-22
	Upgrade mainline recloser			Complete	Oct-23
	Replace priority mainline pole (3 poles)			Complete	Oct-23
	Overhead circuit inspection			To be completed 2024	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
9	S Hamb Sub	00740-1	Hamburg	1,283	94
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.57	Trees Off Row-Tree	54%	2Q 2023
	SAIDI	2,068.32	Equipment Failure	16%	3Q 2023
	SAIFI	4.51	Vehicle	9%	4Q 2023
	CAIDI	458	All Other	22%	1Q 2024
	Customer Minutes	2,653,652			
	Customers Affected	5,792			
	Remedial Action Planned or Taken			Status	Progress
	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
10	Ottsville Substation	00661-3	Easton	610	102
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.97	Trees Off Row-Tree	75%	1Q 2024
	SAIDI	3,779.83	Trees On Row	13%	
	SAIFI	6.28	Unknown	6%	
	CAIDI	602	All Other	6%	
	Customer Minutes	2,305,696			
	Customers Affected	3,830			
	Remedial Action Planned or Taken			Status	Progress
	Upgrade Supervisory Control and Data Acquisition (SCADA) device			Complete	May-23
	LTIIP Engineering Review			Complete	Feb-24
Rank	Substation	Circuit	District	Customers	Outages
11	Mc Knights Gap Sub	00774-1	Reading	1,596	72
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.86	Trees Off Row-Tree	66%	3Q 2023
	SAIDI	1,407.56	Human Error -Non-Company	22%	4Q 2023
	SAIFI	2.17	Trees Off Row-Limb	4%	1Q 2024
	CAIDI	648	All Other	8%	
	Customer Minutes	2,246,473			
	Customers Affected	3,469			
	Remedial Action Planned or Taken			Status	Progress
	Upgrade mainline switch			Complete	Jan-23
	Cycle tree trimming			To be completed 2024	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
12	Glendon	00818-3	Easton	1,638	29
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.80	Trees Off Row-Limb	33%	2Q 2023
	SAIDI	1,348.57	Lightning	26%	3Q 2023
	SAIFI	2.00	Trees Off Row-Tree	20%	1Q 2024
	CAIDI	676	All Other	21%	
	Customer Minutes	2,208,961			
	Customers Affected	3,269			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Jul-23
	Mainline Forestry Aerial Patrol			Complete	Jul-23
	Replace/replace priority poles identified during annual pole inspection			Complete	May-23
	Circuit rehab project LTIP			Complete	Apr-23
	Cycle tree trimming			To be completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
13	Painted Sky	00650-1	Reading	1,776	40
	Painted Sky	00650-1	Reading	1,776	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.60	Trees Off Row-Tree	45%	2Q 2023
	SAIDI	1,177.30	Equipment Failure	37%	3Q 2023
	SAIFI	5.69	Trees Off Row-Limb	10%	4Q 2023
	CAIDI	207	All Other	8%	1Q 2024
	Customer Minutes	2,090,876			
	Customers Affected	10,100			
	Remedial Action Planned or Taken			Status	Progress
Cycle Tree Trimming			Complete	Mar-24	
Rank	Substation	Circuit	District	Customers	Outages
14	Lorane	00560-1	Reading	1,157	45
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.58	Trees Off Row-Tree	77%	3Q 2023
	SAIDI	1,797.73	Equipment Failure	15%	4Q 2023
	SAIFI	2.55	Trees Off Row-Limb	6%	1Q 2024
	CAIDI	705	All Other	1%	
	Customer Minutes	2,079,969			
	Customers Affected	2,950			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Nov-23
	Targeted Mainline Circuit Rehabilitation LTIP			Complete	Dec-23
Create additional circuit tie LTIP			To be completed 2024	50%	
Install Supervisory Control and Data Acquisition (SCADA) recloser			To be completed 2024	50%	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
15	Fox Hill Subst	00816-3	Stroudsburg	3,393	63	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.48	Unknown	46%	1Q 2024	
	SAIDI	596.16	Trees Off Row-Tree	42%		
	SAIFI	2.47	Equipment Failure	5%		
	CAIDI	241	All Other	6%		
	Customer Minutes	2,022,783				
	Customers Affected	8,380				
	Remedial Action Planned or Taken				Status	Progress
	Replace/replace priority poles identified during annual pole inspection				Complete	May-23
	Replace Mainline bypass switch				Complete	Jan-24
	Cycle tree trimming				To be completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages	
16	Mountain Substation	00743-4	Dillsburg	1,035	46	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.37	Trees Off Row-Tree	76%	2Q 2023	
	SAIDI	1,893.75	Trees Off Row-Limb	11%	3Q 2023	
	SAIFI	5.73	Vehicle	4%	4Q 2023	
	CAIDI	330	All Other	9%	1Q 2024	
	Customer Minutes	1,960,032				
	Customers Affected	5,934				
	Remedial Action Planned or Taken				Status	Progress
	Engineering circuit tie addition review				Complete	Jan-24
Overhead circuit inspection				To be completed 2024	0%	
Rank	Substation	Circuit	District	Customers	Outages	
17	Flying Hills Sub	00776-1	Reading	1,492	43	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.37	Equipment Failure	52%	3Q 2023	
	SAIDI	1,313.30	Trees Off Row-Limb	26%	4Q 2023	
	SAIFI	2.99	Trees Off Row-Tree	18%	1Q 2024	
	CAIDI	439	All Other	4%		
	Customer Minutes	1,959,451				
	Customers Affected	4,459				
	Remedial Action Planned or Taken				Status	Progress
	Cycle tree trimming				To be Completed 2024	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
18	Bern Church Sub	00789-1	Reading	1,464	104
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.31	Trees Off Row-Tree	52%	2Q 2023
	SAIDI	1,315.61	Unknown	16%	1Q 2024
	SAIFI	2.54	Trees Off Row-Limb	14%	
	CAIDI	517	All Other	18%	
	Customer Minutes	1,926,049			
	Customers Affected	3,722			
	Remedial Action Planned or Taken			Status	Progress
	Replace priority mainline pole from annual pole inspection			Complete	Dec-23
Rank	Substation	Circuit	District	Customers	Outages
19	Ringing Rocks Sub	00708-1	Boyetown	2,507	75
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.26	Trees Off Row-Tree	88%	1Q 2024
	SAIDI	755.95	Trees Off Row-Limb	7%	
	SAIFI	1.94	Unknown	2%	
	CAIDI	390	All Other	3%	
	Customer Minutes	1,895,173			
	Customers Affected	4,863			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Jul-23
	Install TripSaver			Complete	Jan-24
Rank	Substation	Circuit	District	Customers	Outages
20	Flying Hills Sub	00777-1	Reading	1,802	115
	S Hamb Sub		00741-1		Hamburg
	SAIDI Impact	3.19	Trees Off Row-Tree	73%	3Q 2023
	SAIDI	1,028.51	Trees On Row	7%	4Q 2023
	SAIFI	2.64	Trees Off Row-Limb	6%	1Q 2024
	CAIDI	389	All Other	14%	
	Customer Minutes	1,853,374			
	Customers Affected	4,761			
	Remedial Action Planned or Taken			Status	Progress
	Targeted Mainline Circuit Rehabilitation Cutout Replacements LTIP (3 units)			Complete	Apr-23
	Targeted Mainline Circuit Rehabilitation LTIP (2 rehabs)			Complete	Dec-23
Cycle Tree Trimming			To be completed 2024	0%	

Met-Ed					
21	Substation	Circuit	District	Customers	Outages
	Mohnton Sub Sta	00144-1	Reading	977	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.16	Trees Off Row-Tree	98%	3Q 2023
	SAIDI	1,881.30	Trees On Row	1%	4Q 2023
	SAIFI	3.64	Unknown	1%	1Q 2024
	CAIDI	517	All Other	1%	
	Customer Minutes	1,838,029			
	Customers Affected	3,556			
	Remedial Action Planned or Taken			Status	Progress
	Cycle Tree Trimming			Complete	Jun-23
	Targeted forestry inspection (Bick Rd)			Complete	Feb-23
Rank	Substation	Circuit	District	Customers	Outages
22	Carsonia Sub	00764-1	Reading	2,909	66
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.13	Trees Off Row-Tree	46%	2Q 2023
	SAIDI	625.18	Trees On Row	21%	3Q 2023
	SAIFI	2.53	Unknown	11%	4Q 2023
	CAIDI	247	All Other	23%	1Q 2024
	Customer Minutes	1,818,646			
	Customers Affected	7,367			
	Remedial Action Planned or Taken			Status	Progress
	Targeted tree trimming and removals			Complete	Dec-23
	Overhead circuit inspection			To be completed 2024	0%
	Rank	Substation	Circuit	District	Customers
23	Bridgeton Sub	00117-3	Easton	298	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.05	Trees Off Row-Tree	49%	1Q 2024
	SAIDI	5,946.92	Forced Outage	46%	
	SAIFI	4.87	Unknown	3%	
	CAIDI	1,221	All Other	2%	
	Customer Minutes	1,772,182			
	Customers Affected	1,452			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			To be completed 2024	98%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
24	Birdsboro	00757-1	Reading	2,004	105
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.93	Trees Off Row-Tree	49%	2Q 2023
	SAIDI	849.20	Trees Off Row-Limb	32%	3Q 2023
	SAIFI	2.80	Unknown	8%	4Q 2023
	CAIDI	303	All Other	11%	1Q 2024
	Customer Minutes	1,701,787			
	Customers Affected	5,615			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Dec-22
	Install TripSaver LTIIP			Complete	Jan-23
	Replace priority mainline poles (2 poles)			Complete	Jul-23
	Overhead circuit inspection			Complete	Sep-23
	Rank	Substation	Circuit	District	Customers
25	Lyons Sub	00729-1	Reading	1,358	124
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.92	Trees Off Row-Tree	58%	2Q 2023
	SAIDI	1,251.69	Unknown	19%	3Q 2023
	SAIFI	4.04	Equipment Failure	10%	4Q 2023
	CAIDI	309	All Other	14%	1Q 2024
	Customer Minutes	1,699,791			
	Customers Affected	5,493			
	Remedial Action Planned or Taken			Status	Progress
	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	10%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
26	Fox Hill Subst	00852-3	Stroudsburg	794	49
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.88	Trees Off Row-Tree	83%	3Q 2023
	SAIDI	2,107.98	Trees Off Row-Limb	8%	4Q 2023
	SAIFI	5.27	Equipment Failure	7%	1Q 2024
	CAIDI	400	All Other	2%	
	Customer Minutes	1,673,734			
	Customers Affected	4,185			
	Remedial Action Planned or Taken			Status	Progress
	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
27	Raubsville St	00079-3	Easton	803	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.83	Trees Off Row-Tree	64%	1Q 2024
	SAIDI	2,048.05	Trees On Row	20%	
	SAIFI	2.33	Unknown	6%	
	CAIDI	880	All Other	10%	
	Customer Minutes	1,644,587			
	Customers Affected	1,869			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Jul-23
	Replace/repair high priority items identified during overhead circuit patrol			Complete	Apr-24
	Cycle Tree Trimming			To be Completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
28	Angelica Sub	00129-1	Reading	710	34
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.80	Trees Off Row-Tree	48%	2Q 2023
	SAIDI	2,289.58	Line Failure	32%	3Q 2023
	SAIFI	2.70	Unknown	18%	4Q 2023
	CAIDI	849	All Other	1%	1Q 2024
	Customer Minutes	1,625,602			
	Customers Affected	1,914			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Jun-23
	Overhead circuit inspection			To be completed 2024	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
32	Round Top	00582-4	Dillsburg	727	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.55	Trees Off Row-Tree	73%	1Q 2024
	SAIDI	2,041.18	Trees Off Row-Limb	10%	
	SAIFI	4.28	Forced Outage	5%	
	CAIDI	477	All Other	12%	
	Customer Minutes	1,483,938			
	Customers Affected	3,110			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) (2 devices)			Complete	Aug-23
	Cycle Tree Trimming			To be Completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
33	Raubsville St	00095-3	Easton	531	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.51	Trees Off Row-Tree	39%	2Q 2023
	SAIDI	2,747.04	Trees Off Row-Limb	33%	3Q 2023
	SAIFI	5.30	Equipment Failure	10%	4Q 2023
	CAIDI	518	All Other	19%	1Q 2024
	Customer Minutes	1,458,676			
	Customers Affected	2,814			
	Remedial Action Planned or Taken			1.05	Trees Off Row-Tree
	Overhead circuit inspection			Complete	Apr-23
	Targeted forestry inspection			Complete	Oct-23
Cycle Tree Trimming			To be Completed 2024	0%	
Rank	Substation	Circuit	District	Customers	Outages
34	North Cornwall Sub	00610-2	Lebanon	2,328	77
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.40	Trees Off Row-Tree	51%	2Q 2023
	SAIDI	599.06	Forced Outage	16%	1Q 2024
	SAIFI	3.99	Trees Off Row-Limb	14%	
	CAIDI	150	All Other	19%	
	Customer Minutes	1,394,604			
	Customers Affected	9,288			
	Remedial Action Planned or Taken			Status	Progress
	Circuit rehab project LTIIP			Complete	Jun-23
	Install Supervisory Control and Data Acquisition (SCADA) LTIIP (1 device)			Complete	Jul-23
Cycle tree trimming			To be Completed 2024	59%	
Overhead circuit inspection			To be Completed 2024	0%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
35	S Hamb Sub	00743-1	Hamburg	1,178	68
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.36	Trees Off Row-Tree	82%	1Q 2024
	SAIDI	1,165.09	Equipment Failure	9%	
	SAIFI	2.02	Trees Off Row-Limb	5%	
	CAIDI	576	All Other	3%	
	Customer Minutes	1,372,480			
	Customers Affected	2,381			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			To be completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
36	Huffs Church	00600-1	Boyertown	1,514	175
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.34	Trees Off Row-Tree	52%	2Q 2023
	SAIDI	898.93	Trees Off Row-Limb	20%	3Q 2023
	SAIFI	3.99	Equipment Failure	13%	4Q 2023
	CAIDI	225	All Other	15%	1Q 2024
	Customer Minutes	1,360,977			
	Customers Affected	6,045			
	Remedial Action Planned or Taken			Status	Progress
	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
	Install TripSaver			Complete	Feb-24
Cycle tree trimming			To be complete 2024	0%	
Rank	Substation	Circuit	District	Customers	Outages
37	Lickdale Substation	00625-2	Lebanon	1,019	96
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.15	Trees Off Row-Tree	65%	1Q 2024
	SAIDI	1,228.51	Unknown	19%	
	SAIFI	3.09	Equipment Failure	6%	
	CAIDI	398	All Other	11%	
	Customer Minutes	1,251,853			
	Customers Affected	3,149			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Dec-22
Replace priority mainline poles LTIP (4 poles)			Complete	Jun-23	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
38	Ferndale Sub	00078-3	Easton	425	47
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.13	Trees Off Row-Tree	74%	3Q 2023
	SAIDI	2,909.26	Equipment Failure	9%	4Q 2023
	SAIFI	8.38	Trees Off Row-Limb	7%	1Q 2024
	CAIDI	347	All Other	9%	
	Customer Minutes	1,236,435			
	Customers Affected	3,561			
	Remedial Action Planned or Taken			Status	Progress
	Cycle Tree Trimming			Complete	Feb-24
	Replace/Repair Priority Poles Identified during annual pole inspection			Complete	Apr-23
	Replace Mainline Pole Identified during annual pole inspection			Complete	Mar-24
Rank	Substation	Circuit	District	Customers	Outages
39	Stroudsburg	00610-3	Stroudsburg	904	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.06	Trees Off Row-Tree	37%	1Q 2024
	SAIDI	1,321.86	Vehicle	30%	
	SAIFI	5.39	Unknown	21%	
	CAIDI	245	All Other	12%	
	Customer Minutes	1,194,964			
	Customers Affected	4,877			
	Remedial Action Planned or Taken			Status	Progress
	Replace/Repair priority poles Identified during annual pole inspection			Complete	Oct-23

Met-Ed					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	2Q 2023	3Q 2023	4Q 2023	1Q 2024
Barto Sub	00705-1	X	X	X	
Bath Sub	00873-3	X	X	X	
Carsonia Sub	00766-1	X	X	X	
W Boyertown Sub	00484-1	X	X	X	
Walker Sub	00865-3	X	X	X	
Windsor	00797-4	X	X	X	
Crossroads Sub	00728-4		X	X	
Shawnee Sub	00895-3		X	X	
South Reading	00508-1		X	X	
Bernville Sub	00787-1	X	X		
Gilbert Sub - Met-Ed	00029-3	X	X		
Wind Gap Sub	00600-3	X	X		

Met-Ed				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Progress of Remedial Work or Date Completed
Barto Sub	00705-1	Targeted tree trimming and removals	Complete	Nov-23
Barto Sub	00705-1	Cycle tree trimming	To be completed 2024	0%
Bath Sub	00873-3	Cycle tree trimming	Complete	Sep-22
Bath Sub	00873-3	Targeted mainline patrol	Complete	Dec-23
Bernville Sub	00787-1	Replace backlog pole LTIP (1 pole)	Complete	Apr-23
Carsonia Sub	00766-1	Targeted tree trimming and removals	Complete	Jul-23
Carsonia Sub	00766-1	Install Supervisory Control and Data Acquisition (SCADA) (1 device)	Complete	Aug-23
Crossroads Sub	00728-4	Install Supervisory Control and Data Acquisition (SCADA) (2 devices)	Complete	Mar-23
Crossroads Sub	00728-4	Cycle tree trimming	Complete	Oct-23
Gilbert Sub - Met-Ed	00029-3	Mainline Forestry Aerial Patrol	Complete	Jul-23
Gilbert Sub - Met-Ed	00029-3	Overhead circuit inspection	Complete	Nov-23
Shawnee Sub	00895-3	Replace recloser	Complete	Jun-23
Shawnee Sub	00895-3	Reconductor mainline	To be completed 2024	50%
Shawnee Sub	00895-3	Cycle tree trimming	To be completed 2024	12%
South Reading	00508-1	Cycle tree trimming	Complete	Dec-22
South Reading	00508-1	Replace priority mainline poles (2 poles)	Complete	Jul-23
W Boyertown Sub	00484-1	Targeted tree trimming and removals (Willow & Locust Road)	Complete	May-23
W Boyertown Sub	00484-1	Targeted tree trimming and removals	Complete	Sep-23
Walker Sub	00865-3	Replace/repair high priority items identified during overhead circuit patrol	Complete	Apr-23
Walker Sub	00865-3	Replaced priority one pole	Complete	May-23
Walker Sub	00865-3	Overhead circuit inspection	Complete	Oct-23
Walker Sub	00865-3	Cycle tree trimming	Complete	Feb-24
Wind Gap Sub	00600-3	Targeted mainline patrol	Complete	Aug-23
Windsor	00797-4	Overhead circuit inspection	Complete	Aug-23
Windsor	00797-4	Replace priority poles (11 poles)	Complete	Oct-23
Windsor	00797-4	Construct circuit tie LTIP	Complete	Dec-23
Windsor	00797-4	Replace/repair high priority items identified during overhead circuit patrol	To be completed 2024	72%
Lorane	00564-1	Create additional circuit tie LTIP	To be completed 2024	50%
Ferndale Sub	00077-3	Cycle tree trimming	Complete	Feb-24
S Hamb Sub	00741-1	Cycle tree trimming	Complete	Sep-23
County Line Sub	00703-1	Cycle tree trimming	Complete	Feb-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
1	Warren South	00220-41	Warren	2,839	92
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.01	Trees Off Row-Tree	78%	Q2 2023
	SAIDI	1,039.74	Unknown	6%	Q3 2023
	SAIFI	3.51	Equipment Failure	6%	Q4 2023
	CAIDI	296.04	All Other	11%	Q1 2024
	Customer Minutes	2,951,828			
	Customers Affected	9,971			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jul-23
	On cycle tree trimming			In Progress	4%
	Install advanced Dx protective devices			In Progress	25%
Rank	Substation	Circuit	District	Customers	Outages
2	Union City	00208-43	Erie	1,595	72
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.52	Wind	52%	Q3 2023
	SAIDI	1,299.67	Trees Off Row-Tree	19%	Q4 2023
	SAIFI	4.43	Line Failure	10%	Q1 2024
	CAIDI	293.42	All Other	18%	
	Customer Minutes	2,072,981			
	Customers Affected	7,065			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by wind			Complete	Jul-23
	Repair damage caused by trees			Complete	Jul-23
	Repair damage caused by lightning			Complete	Jul-23
	Repair line failure			Complete	Jan-24

Penelec					
Rank	Union City	00239-43	Erie	783	38
3	Falls	00297-65	Montrose	835	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.33	Trees Off Row-Tree	92%	Q2 2023
	SAIDI	2,345.49	Unknown	3%	Q3 2023
	SAIFI	3.01	Equipment Failure	2%	Q4 2023
	CAIDI	778.41	All Other	2%	Q1 2024
	Customer Minutes	1,958,487			
	Customers Affected	2,516			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Sep-23
Rank	Substation	Circuit	District	Customers	Outages
4	Tiffany	00435-65	Montrose	1,295	27
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.65	Trees Off Row-Tree	71%	Q2 2023
	SAIDI	1,204.78	Equipment Failure	13%	Q3 2023
	SAIFI	3.53	Vehicle	9%	Q4 2023
	CAIDI	341.02	All Other	7%	Q1 2024
	Customer Minutes	1,560,184			
	Customers Affected	4,575			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jul-23
Repair damage caused by trees			Complete	Sep-23	
Repair damage caused by storm			Complete	Jan-24	
Rank	Substation	Circuit	District	Customers	Outages
5	Natl Forge Sw Sta	00577-41	Warren	1,212	47
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.37	Trees Off Row-Tree	60%	Q2 2023
	SAIDI	1,152.55	Equipment Failure	20%	Q3 2023
	SAIFI	5.55	Trees Off Row-Limb	13%	Q4 2023
	CAIDI	207.72	All Other	7%	Q1 2024
	Customer Minutes	1,396,895			
	Customers Affected	6,725			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jul-23
On cycle tree clearing			Complete	Dec-23	
Repair equipment failure			Complete	Jan-24	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
6	Russell Hill	00282-65	Montrose	1,038	56	
	SAIDI Impact		2.96		Trees Off Row-Tree	
	SAIDI Impact	2.35	Animal	29%	Q2 2023	
	SAIDI	1,334.86	Trees Off Row-Tree	27%	Q3 2023	
	SAIFI	5.11	Vehicle	18%	Q4 2023	
	CAIDI	260.99	All Other	26%	Q1 2024	
	Customer Minutes	1,385,581				
	Customers Affected	5,309				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees				Complete	Sep-23
	Repair damage caused by animal				Complete	Dec-23
	Repair damage caused by vehicle				Complete	Mar-24
Rank	Substation	Circuit	District	Customers	Outages	
7	Grover	00527-63	Towanda	1,094	81	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.35	Trees Off Row-Tree	69%	Q2 2023	
	SAIDI	1,262.71	Vehicle	10%	Q3 2023	
	SAIFI	3.09	Wind	9%	Q4 2023	
	CAIDI	408.34	All Other	12%	Q1 2024	
	Customer Minutes	1,381,405				
	Customers Affected	3,383				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees				Complete	Mar-23
Rank	Substation	Circuit	District	Customers	Outages	
8	Union City	00206-43	Erie	2,535	92	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.34	Lightning	34%	Q3 2023	
	SAIDI	544.37	Trees Off Row-Tree	27%	Q4 2023	
	SAIFI	2.35	Equipment Failure	24%	Q1 2024	
	CAIDI	232.01	All Other	14%		
	Customer Minutes	1,379,973				
	Customers Affected	5,948				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by lightning				Complete	Jul-23
On cycle tree trimming				To Be Completed	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
9	N Meshoppen Tran	00534-65	Montrose	883	67
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.31	Trees Off Row-Tree	69%	Q2 2023
	SAIDI	1,543.24	Equipment Failure	20%	Q3 2023
	SAIFI	4.73	Line Failure	7%	Q4 2023
	CAIDI	326.47	All Other	4%	Q1 2024
	Customer Minutes	1,362,681			
	Customers Affected	4,174			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Apr-23
	Repair equipment failure			Complete	Jun-23
	Targeted Circuit Rehab			Complete	Dec-23
	On cycle tree trimming			Complete	Dec-23
	Repair damage caused by trees			Complete	Jan-24
Rank	Substation	Circuit	District	Customers	Outages
10	Tunkhannock	00533-65	Montrose	1,270	60
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.15	Trees Off Row-Tree	60%	Q2 2023
	SAIDI	994.71	Equipment Failure	25%	Q3 2023
	SAIFI	3.27	Unknown	7%	Q4 2023
	CAIDI	303.97	All Other	7%	Q1 2024
	Customer Minutes	1,263,279			
	Customers Affected	4,156			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Sep-23
	On cycle tree trimming			In Progress	8%
Rank	Substation	Circuit	District	Customers	Outages
11	Lake Como	00788-65	Montrose	652	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.13	Trees Off Row-Tree	90%	Q1 2024
	SAIDI	1,925.13	Wind	7%	
	SAIFI	3.97	Equipment Failure	3%	
	CAIDI	484.82	All Other	1%	
	Customer Minutes	1,255,188			
	Customers Affected	2,589			
	Remedial Action Planned or Taken			Status	Progress
Repair damage caused by trees			Complete	Mar-24	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
12	North Warren	00207-41	Warren	1,394	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.05	Trees Off Row-Tree	73%	Q3 2023
	SAIDI	866.30	Unknown	24%	Q4 2023
	SAIFI	2.46	Equipment Failure	2%	Q1 2024
	CAIDI	352.08	All Other	1%	3Q 2023
	Customer Minutes	1,207,620			
	Customers Affected	3,430			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Aug-23
	Restore breaker operation of unknown cause			Complete	Aug-23
	Repair damage caused by trees			Complete	Feb-24
	Cap pole replacement deployed at one site			Complete	Mar-24
Rank	Substation	Circuit	District	Customers	Outages
13	Rockwood	00023-12	Somerset	233	10
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.68	Trees Off Row-Tree	94%	Q1 2024
	SAIDI	4,257.97	Trees Off Row-Limb	5%	
	SAIFI	3.96	Equipment Failure	1%	
	CAIDI	1,074.87	All Other	1%	
	Customer Minutes	992,106			
	Customers Affected	923			
	Remedial Action Planned or Taken			Status	Progress
	Hot line clamp remediation			Complete	Aug-23
	3-phase overhead inspection			Complete	Mar-23
	Remote sectionalizing (LTIP)			Complete	Mar-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
14	Rolling Meadows	00249-31	Erie	2,147	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.63	Vehicle	49%	Q4 2023
	SAIDI	446.49	Trees Off Row-Tree	33%	Q1 2024
	SAIFI	2.37	Equipment Failure	10%	
	CAIDI	188.70	All Other	8%	
	Customer Minutes	958,606			
	Customers Affected	5,080			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by vehicle accident			Complete	Jul-23
	Repair damage caused by trees			Complete	Nov-23
	On cycle tree trimming			Complete	Dec-23
	Install advanced Dx protective devices			To Be Completed 2024	25%
	Install advanced Dx protective devices			To Be Completed 2024	25%
Rank	Substation	Circuit	District	Customers	Outages
15	Springboro	00237-52	Meadville	2,827	88
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.62	Wind	38%	Q3 2023
	SAIDI	336.74	Trees Off Row-Tree	16%	Q4 2023
	SAIFI	1.60	Bird	15%	Q1 2024
	CAIDI	210.89	All Other	31%	3Q 2023
	Customer Minutes	951,974			
	Customers Affected	4,514			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Jan-24
Rank	Substation	Circuit	District	Customers	Outages
16	Thompson	00436-65	Montrose	1,370	70
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.59	Trees Off Row-Tree	53%	Q1 2024
	SAIDI	685.52	Overload	17%	
	SAIFI	1.92	Equipment Failure	12%	
	CAIDI	356.42	All Other	19%	
	Customer Minutes	939,166			
	Customers Affected	2,635			
	Remedial Action Planned or Taken			Status	Progress
Circuit inspection			To Be Completed 2024	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
17	Brooklyn	00749-65	Montrose	525	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.45	Trees Off Row-Tree	85%	Q4 2023
	SAIDI	1,624.56	Equipment Failure	6%	Q1 2024
	SAIFI	2.77	Unknown	4%	
	CAIDI	587.39	All Other	6%	
	Customer Minutes	852,893			
	Customers Affected	1,452			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Nov-23
	On cycle tree trimming			Complete	Nov-23
Rank	Substation	Circuit	District	Customers	Outages
18	Lewis Run	00409-42	Bradford	743	22
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.37	Forced Outage	52%	Q2 2023
	SAIDI	1,087.90	Trees Off Row-Tree	33%	Q3 2023
	SAIFI	3.50	Equipment Failure	14%	Q4 2023
	CAIDI	311.01	All Other	1%	Q1 2024
	Customer Minutes	808,311			
	Customers Affected	2,599			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees (forced)			Complete	Jul-23
	Repair damage caused by trees			Complete	Jul-24
On cycle tree trimming			To Be Completed 2024	30%	
Rank	Substation	Circuit	District	Customers	Outages
19	Platea	00432-34	Erie	636	61
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.30	Trees Off Row-Tree	50%	Q3 2023
	SAIDI	1,202.37	Equipment Failure	20%	Q4 2023
	SAIFI	5.47	Line Failure	14%	Q1 2024
	CAIDI	219.87	All Other	16%	
	Customer Minutes	764,705			
	Customers Affected	3,478			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jul-23
	Repair equipment failure			Complete	Jul-23
Repair line failure			Complete	Nov-23	
On cycle tree trimming			Complete	Dec-23	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
20	East Sayre	00518-61	Towanda	973	27
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.16	Trees Off Row-Tree	80%	Q3 2023
	SAIDI	701.26	Bird	13%	Q4 2023
	SAIFI	2.20	Wind	3%	Q1 2024
	CAIDI	318.99	All Other	4%	
	Customer Minutes	682,330			
	Customers Affected	2,139			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Aug-23
Rank	Substation	Circuit	District	Customers	Outages
21	Meshoppen	00283-65	Montrose	400	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.15	Trees Off Row-Tree	38%	Q3 2023
	SAIDI	1,694.96	Forced Outage	21%	Q4 2023
	SAIFI	4.11	Trees Off Row-Limb	17%	Q1 2024
	CAIDI	412.40	All Other	24%	
	Customer Minutes	677,985			
	Customers Affected	1,644			
	Remedial Action Planned or Taken			Status	Progress
	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	
Targeted circuit rehab			To Be Completed 2024	0%	
Rank	Substation	Circuit	District	Customers	Outages
22	Marienville	00328-51	Oil City	1,230	44
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.15	Trees Off Row-Tree	43%	Q3 2023
	SAIDI	550.44	Equipment Failure	32%	Q1 2024
	SAIFI	1.62	Human Error -Non-Company	13%	
	CAIDI	340.73	All Other	12%	
	Customer Minutes	677,040			
	Customers Affected	1,987			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jan-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
23	North Warren	00596-41	Warren	1,135	29
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.10	Trees Off Row-Tree	89%	Q2 2023
	SAIDI	570.75	Lightning	4%	Q3 2023
	SAIFI	1.35	Equipment Failure	2%	Q4 2023
	CAIDI	424.23	All Other	5%	Q1 2024
	Customer Minutes	647,800			
	Customers Affected	1,527			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jun-23
Rank	Substation	Circuit	District	Customers	Outages
24	Athens	00514-61	Towanda	784	21
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.08	Trees Off Row-Tree	86%	Q1 2024
	SAIDI	808.86	Equipment Failure	12%	
	SAIFI	2.46	Line Failure	1%	
	CAIDI	329.43	All Other	1%	
	Customer Minutes	634,150			
	Customers Affected	1,925			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Mar-24
Rank	Substation	Circuit	District	Customers	Outages
25	Avery	00791-65	Montrose	384	20
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.06	Lightning	66%	Q3 2023
	SAIDI	1,631.94	Vehicle	25%	Q4 2023
	SAIFI	2.36	Line Failure	3%	Q1 2024
	CAIDI	690.16	All Other	6%	
	Customer Minutes	626,666			
	Customers Affected	908			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a vehicle accident			Complete	Sep-23
Repair damage caused by lightning			Complete	Sep-23	
Circuit inspection			To Be Completed 2024	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
26	N Meshoppen Tran	00531-65	Montrose	431	41
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.02	Trees Off Row-Tree	33%	Q2 2023
	SAIDI	1,390.44	Equipment Failure	32%	Q3 2023
	SAIFI	8.35	Line Failure	27%	Q4 2023
	CAIDI	166.51	All Other	8%	Q1 2024
	Customer Minutes	599,281			
	Customers Affected	3,599			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Apr-23
	Repair equipment failure			Complete	May-23
	Circuit inspection			Complete	Apr-23
	Targeted Circuit Rehab			Complete	Oct-23
	Repair damage caused by trees			Complete	Jan-24
Rank	Substation	Circuit	District	Customers	Outages
27	Thompson	00446-65	Montrose	1,281	78
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.99	Trees Off Row-Tree	42%	Q1 2024
	SAIDI	455.13	Equipment Failure	16%	
	SAIFI	2.20	Unknown	13%	
	CAIDI	206.89	All Other	29%	
	Customer Minutes	583,019			
	Customers Affected	2,818			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To Be Completed 2024	0%
Circuit inspection			To Be Completed 2024	0%	
Rank	Substation	Circuit	District	Customers	Outages
28	Ppl West	PL097-62	Towanda	103	14
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.97	Other Electric Utility	78%	Q3 2023
	SAIDI	5,525.17	Unknown	13%	Q4 2023
	SAIFI	12.17	Other Utility-Non Elec	6%	Q1 2024
	CAIDI	453.82	All Other	4%	
	Customer Minutes	569,092			
	Customers Affected	1,254			
	Remedial Action Planned or Taken			Status	Progress
	Restore fuse operation of unknown cause			Complete	Apr-23
	Restore operation due to other electric utility			Complete	Sep-23
Restore operation due to other electric utility			Complete	Mar-24	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
29	Lenox	00755-65	Montrose	707	47
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.95	Trees Off Row-Tree	52%	Q2 2023
	SAIDI	794.34	Unknown	30%	Q4 2023
	SAIFI	2.41	Human Error -Non-Company	10%	Q1 2024
	CAIDI	329.38	All Other	8%	
	Customer Minutes	561,598			
	Customers Affected	1,705			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Sep-23
	Restore sectionalizer operation of unknown cause			Complete	Nov-23
	On cycle tree clearing			Complete	Jan-24
Rank	Substation	Circuit	District	Customers	Outages
30	Shippensburg 1	00630-83	Shippensburg	1,795	48
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.95	Line Failure	33%	Q3 2023
	SAIDI	312.84	Trees Off Row-Tree	25%	Q4 2023
	SAIFI	2.75	Equipment Failure	22%	Q1 2024
	CAIDI	113.84	All Other	20%	
	Customer Minutes	561,556			
	Customers Affected	4,933			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jul-23
	Repair damage caused by trees			Complete	Jul-23
	Repair line failure			Complete	Jul-23
	3-phase overhead inspection			Complete	Mar-23
Underground conductor improvement (LTIP)			Complete	Aug-23	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
31	Piney	00523-51	Oil City	1,532	58
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.95	Trees Off Row-Tree	44%	Q1 2024
	SAIDI	365.34	Trees Off Row-Limb	24%	
	SAIFI	1.40	Vehicle	10%	
	CAIDI	261.17	All Other	22%	
	Customer Minutes	559,697			
	Customers Affected	2,143			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Feb-24
	Remote sectionalizing project deployed at one site			To Be Completed 2024	0%
	Tripsaver deployment at one site			To Be Completed 2024	0%
	Overhead circuit inspection			To Be Completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
32	Rockton Mountain	00138-21	Clearfield	504	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.95	Trees Off Row-Tree	92%	Q1 2024
	SAIDI	1,107.41	Vehicle	5%	
	SAIFI	2.64	Unknown	1%	
	CAIDI	419.02	All Other	2%	
	Customer Minutes	558,136			
	Customers Affected	1,332			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To Be Completed 2024	0%
	Overhead circuit rehab (LTIIP)			Complete	Oct-23

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
33	Timblin	00103-23	Dubois	708	30	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.94	Trees Off Row-Tree	61%	Q3 2023	
	SAIDI	784.94	Unknown	17%	Q4 2023	
	SAIFI	4.41	Forced Outage	15%	Q1 2024	
	CAIDI	178.12	All Other	8%		
	Customer Minutes	555,740				
	Customers Affected	3,120				
	Remedial Action Planned or Taken			Status	Progress	
	Restore breaker operation of unknown cause			Complete	Jun-23	
	Repair damage caused by trees			Complete	Jul-23	
	3-phase overhead inspection			Complete	Apr-23	
	On cycle tree trimming			Complete	Dec-23	
	Rank	Substation	Circuit	District	Customers	Outages
34	East Towanda	00525-62	Towanda	682	42	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.93	Trees Off Row-Tree	53%	Q2 2023	
	SAIDI	802.95	Unknown	20%	Q3 2023	
	SAIFI	2.75	Equipment Failure	14%	Q4 2023	
	CAIDI	291.59	All Other	12%	Q1 2024	
	Customer Minutes	547,609				
	Customers Affected	1,878				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by trees (unknown)			Complete	Aug-23	
	Targeted Circuit Rehab			Complete	Dec-23	
	Repair damage caused by trees			Complete	Feb-24	
	Rank	Substation	Circuit	District	Customers	Outages
	35	Lake Como	00786-65	Montrose	329	16
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		0.91	Trees Off Row-Tree	94%	Q1 2024	
SAIDI		1,630.14	Forced Outage	5%		
SAIFI		2.97	Animal	0%		
CAIDI		548.38	All Other	0%		
Customer Minutes		536,317				
Customers Affected		978				
Remedial Action Planned or Taken			Status	Progress		
Repair damage caused by trees			Complete	Mar-24		

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
36	Meysersdale North	00022-12	Somerset	1,570	47
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.90	Trees Off Row-Tree	32%	Q3 2023
	SAIDI	335.98	Vehicle	28%	Q4 2023
	SAIFI	3.56	Equipment Failure	18%	Q1 2024
	CAIDI	94.33	All Other	22%	
	Customer Minutes	527,490			
	Customers Affected	5,592			
	Remedial Action Planned or Taken			Status	Progress
	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
	Install advanced Dx protective devices			To Be Completed 2024	25%
	Install advanced Dx protective devices			To Be Completed 2024	25%
	Cap pole replacement			Complete	Nov-23
Distribution sectionalizing (LTIP)			Complete	Oct-23	
Rank	Substation	Circuit	District	Customers	Outages
37	Laurel Lake Sub Tran	00449-65	Montrose	535	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.89	Trees Off Row-Tree	70%	Q2 2023
	SAIDI	976.10	Equipment Failure	13%	Q4 2023
	SAIFI	6.86	Vehicle	11%	Q1 2024
	CAIDI	142.25	All Other	6%	
	Customer Minutes	522,212			
	Customers Affected	3,671			
	Remedial Action Planned or Taken			Status	Progress
	Restore fuse operation of unknown cause			Complete	Apr-23
	Repair damage caused by trees			Complete	Nov-23
	Circuit inspection			In Progress	0%
	Targeted Circuit Rehab			In Progress	50%
	Repair damaged equipment			Complete	Mar-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
38	Lowell Avenue	00518-31	Erie	878	20
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.88	Line Failure	47%	Q2 2023
	SAIDI	590.68	Bird	20%	Q1 2024
	SAIFI	8.30	Wind	19%	
	CAIDI	71.18	All Other	15%	
	Customer Minutes	518,619			
	Customers Affected	7,286			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by bird			Complete	Apr-23
	Repair line failure			Complete	Nov-23
	On cycle tree trimming			Complete	Dec-23
Rank	Substation	Circuit	District	Customers	Outages
39	Industrial Park	00796-65	Montrose	375	14
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.86	Trees Off Row-Tree	96%	Q2 2023
	SAIDI	1,349.04	Forced Outage	2%	Q3 2023
	SAIFI	1.48	Lightning	1%	Q4 2023
	CAIDI	909.87	All Other	1%	Q1 2024
	Customer Minutes	505,890			
	Customers Affected	556			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Sep-23
	On cycle tree trimming			To Be Completed 2024	0%
	Circuit inspection			To Be Completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
40	Crown	00519-51	Oil City	651	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.80	Trees Off Row-Tree	66%	Q2 2023
	SAIDI	725.73	Trees Off Row-Limb	11%	Q3 2023
	SAIFI	2.42	Equipment Failure	10%	Q4 2023
	CAIDI	299.59	All Other	12%	Q1 2024
	Customer Minutes	472,448			
	Customers Affected	1,577			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Apr-23
	Repair damage caused by trees			Complete	Apr-23
	Repair damage caused by trees			Complete	Jan-24
Circuit inspection			To Be Completed 2024	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
41	Grandview	00354-51	Oil City	535	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.78	Trees Off Row-Tree	92%	Q2 2023
	SAIDI	856.65	Vehicle	6%	Q3 2023
	SAIFI	2.12	Equipment Failure	1%	Q4 2023
	CAIDI	404.87	All Other	1%	Q1 2024
	Customer Minutes	458,309			
	Customers Affected	1,132			
	Remedial Action Planned or Taken			Status	Progress
	Install advanced Dx protective devices			Complete	Jul-23
	On cycle tree trimming			Complete	Aug-23
	Repair damage caused by trees			Complete	Feb-24
	Grandview forestry work			Complete	Mar-24
	Replace substation recloser batter			Complete	Mar-24
Rank	Substation	Circuit	District	Customers	Outages
42	Athens	00511-61	Towanda	781	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.77	Equipment Failure	96%	Q2 2023
	SAIDI	583.54	Trees Off Row-Tree	1%	Q4 2023
	SAIFI	2.39	Bird	1%	Q1 2024
	CAIDI	243.85	All Other	2%	
	Customer Minutes	455,747			
	Customers Affected	1,869			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Apr-23
	Targeted Circuit Rehab			To Be Completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
43	Port Allegany	00151-42	Bradford	498	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.76	Trees Off Row-Tree	89%	Q1 2024
	SAIDI	900.79	Line Failure	7%	
	SAIFI	1.63	Forced Outage	1%	
	CAIDI	553.82	All Other	3%	
	Customer Minutes	448,594			
	Customers Affected	810			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Feb-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
44	N Meshoppen Tran	00437-65	Montrose	501	46
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.72	Trees Off Row-Tree	64%	Q1 2024
	SAIDI	843.87	Trees Off Row-Limb	20%	
	SAIFI	1.96	Unknown	6%	
	CAIDI	430.53	All Other	9%	
	Customer Minutes	422,777			
	Customers Affected	982			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by lightning			Complete	Apr-23
Rank	Substation	Circuit	District	Customers	Outages
45	Dubois	00124-23	Dubois	2,088	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.72	Equipment Failure	69%	
	SAIDI	202.22	Animal	26%	
	SAIFI	2.48	Trees Off Row-Tree	1%	
	CAIDI	81.66	All Other	3%	
	Customer Minutes	422,243			
	Customers Affected	5,171			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by an animal			Complete	Dec-23
Rank	Substation	Circuit	District	Customers	Outages
46	Snakespring	00634-73	Altoona	1,179	6
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.72	Line Failure	61%	Q2 2023
	SAIDI	357.95	Unknown	38%	Q3 2023
	SAIFI	2.23	Equipment Failure	1%	Q1 2024
	CAIDI	160.53	All Other	0%	
	Customer Minutes	422,022			
	Customers Affected	2,629			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Jun-23
	Restore recloser operation of unknown cause			Complete	Jun-23

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
47	Fairview East	00218-34	Erie	1,035	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.71	Trees Off Row-Limb	55%	Q1 2024
	SAIDI	406.46	Forced Outage	29%	
	SAIFI	2.35	Trees On Row	5%	
	CAIDI	173.19	All Other	10%	
	Customer Minutes	420,684			
	Customers Affected	2,429			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To Be Completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
48	Hooversville	00019-12	Somerset	1,636	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.71	Trees Off Row-Tree	56%	Q1 2024
	SAIDI	256.59	Equipment Failure	18%	
	SAIFI	1.50	Forced Outage	13%	
	CAIDI	171.34	All Other	12%	
	Customer Minutes	419,779			
	Customers Affected	2,450			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jan-24
Rank	Substation	Circuit	District	Customers	Outages
49	Two Mile	00127-42	Bradford	1,304	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.71	Equipment Failure	73%	Q1 2024
	SAIDI	320.91	Vehicle	9%	
	SAIFI	1.93	Forced Outage	6%	
	CAIDI	166.39	All Other	11%	
	Customer Minutes	418,471			
	Customers Affected	2,515			
	Remedial Action Planned or Taken			Status	Progress
	Capacitor inspection			To Be Completed 2024	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
50	Mount Union	00154-82	Lewistown	1,180	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.70	Line Failure	42%	Q4 2023
	SAIDI	347.91	Human Error -Non-Company	39%	Q1 2024
	SAIFI	2.33	Trees Off Row-Tree	17%	
	CAIDI	149.23	All Other	1%	
	Customer Minutes	410,534			
	Customers Affected	2,751			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by human error-non company			Complete	Aug-23
	Repair line failure			Complete	Nov-23
	3-phase overhead inspection			Complete	May-23
Rank	Substation	Circuit	District	Customers	Outages
51	Oxbow	00555-65	Montrose	746	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.69	Line Failure	29%	Q2 2023
	SAIDI	541.71	Trees On Row	25%	Q1 2024
	SAIFI	2.65	Trees Off Row-Tree	23%	
	CAIDI	204.62	All Other	22%	
	Customer Minutes	404,119			
	Customers Affected	1,975			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Feb-24
	On cycle tree trimming			To Be Completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
52	Rachel Hill	00049-11	Johnstown	2,350	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.67	Equipment Failure	91%	Q1 2024
	SAIDI	168.96	Trees Off Row-Tree	4%	
	SAIFI	2.57	Unknown	3%	
	CAIDI	65.84	All Other	3%	
	Customer Minutes	397,061			
	Customers Affected	6,031			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To Be Completed 2024	0%
	Underground conductor improvement (LTIIP)			To Be Completed 2024	50%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
53	Vail	00647-22	Philipsburg	586	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.67	Trees Off Row-Tree	35%	Q1 2024
	SAIDI	671.06	Equipment Failure	33%	
	SAIFI	3.13	Line Failure	24%	
	CAIDI	214.65	All Other	8%	
	Customer Minutes	393,243			
	Customers Affected	1,832			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Sep-23
Rank	Substation	Circuit	District	Customers	Outages
54	Madera	00166-22	Philipsburg	2,167	76
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.67	Trees Off Row-Tree	50%	Q2 2023
	SAIDI	181.31	Line Failure	28%	Q3 2023
	SAIFI	2.08	Animal	6%	Q4 2023
	CAIDI	87.00	All Other	15%	Q1 2024
	Customer Minutes	392,901			
	Customers Affected	4,516			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Jul-23
On cycle tree trimming			To Be Completed	10%	
Rank	Substation	Circuit	District	Customers	Outages
55	Bradford South	00106-42	Bradford	1,206	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.63	Trees Off Row-Tree	51%	Q3 2023
	SAIDI	307.73	Forced Outage	23%	Q4 2023
	SAIFI	1.52	Equipment Failure	17%	Q1 2024
	CAIDI	202.91	All Other	9%	
	Customer Minutes	371,119			
	Customers Affected	1,829			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees (forced)			Complete	May-23
Repair damage caused by trees			Complete	Mar-24	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
56	Edinboro	00420-34	Erie	1,623	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.62	Equipment Failure	53%	Q2 2023
	SAIDI	224.06	Trees Off Row-Tree	22%	Q3 2023
	SAIFI	2.14	Forced Outage	16%	Q4 2023
	CAIDI	104.53	All Other	9%	Q1 2024
	Customer Minutes	363,652			
	Customers Affected	3,479			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Aug-23
	On cycle tree trimming			To Be Completed 2024	16%
Rank	Substation	Circuit	District	Customers	Outages
57	Laurel Pipeline	00036-71	Altoona	925	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.62	Unknown	51%	Q1 2024
	SAIDI	392.38	Lightning	20%	
	SAIFI	1.71	Equipment Failure	18%	
	CAIDI	228.85	All Other	12%	
	Customer Minutes	362,949			
	Customers Affected	1,586			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To Be Completed 2024	79%
	Distribution sectionalizing (LTIIP)			To Be Completed 2024	50%
Rank	Substation	Circuit	District	Customers	Outages
58	Blairsville East	00080-13	Indiana	1,034	20
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.62	Equipment Failure	74%	Q2 2023
	SAIDI	350.41	Forced Outage	23%	Q3 2023
	SAIFI	2.71	Trees Off Row-Tree	2%	Q4 2023
	CAIDI	129.13	All Other	1%	Q1 2024
	Customer Minutes	362,328			
	Customers Affected	2,806			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jul-23
	Remote sectionalizing (LTIIP)			To Be Completed 2024	50%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
59	Marienville	00327-51	Oil City	756	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.61	Trees Off Row-Tree	51%	Q3 2023
	SAIDI	478.78	Unknown	20%	Q4 2023
	SAIFI	1.89	Line Failure	13%	Q1 2024
	CAIDI	252.76	All Other	16%	
	Customer Minutes	361,956			
	Customers Affected	1,432			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jul-23
	Restore recloser operation of unknown cause			Complete	Aug-23
Rank	Substation	Circuit	District	Customers	Outages
60	Wellsboro	00324-63	Mansfield Pa	267	19
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.61	Line Failure	71%	Q1 2024
	SAIDI	1,337.22	Trees Off Row-Tree	18%	
	SAIFI	3.81	Unknown	5%	
	CAIDI	350.73	All Other	6%	
	Customer Minutes	357,039			
	Customers Affected	1,018			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Jul-23
Rank	Substation	Circuit	District	Customers	Outages
61	Northeast	00592-31	Erie	1,601	65
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.60	Trees Off Row-Tree	55%	Q4 2023
	SAIDI	222.17	Line Failure	32%	Q1 2024
	SAIFI	2.04	Animal	5%	
	CAIDI	108.91	All Other	8%	
	Customer Minutes	355,689			
	Customers Affected	3,266			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jun-23
	Repair line failure			Complete	Jul-23
	On cycle tree trimming			To Be Completed	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
62	Saxton	00631-73	Altoona	837	9
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.60	Animal	49%	Q1 2024
	SAIDI	422.02	Lightning	34%	
	SAIFI	2.03	Forced Outage	15%	
	CAIDI	208.03	All Other	2%	
	Customer Minutes	353,231			
	Customers Affected	1,698			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by lightning			Complete	Feb-24

Penelec					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	2Q 2023	3Q 2023	4Q 2023	1Q 2024
Ashville	00061-71		X	X	
Blairsville East	00082-13	X	X	X	
Brookville	00125-23	X	X	X	
Covington	00727-63	X		X	
Division Street	00561-31	X	X	X	
Dubois	00131-23	X	X	X	
Emlenton	00322-51	X	X	X	
Erie West	00267-34	X	X		
Grandview	00353-51	X	X	X	
Grandview	00524-51	X	X	X	
Logan	00700-81	X	X		
Madera	00147-22		X	X	
Madera	00165-22	X	X		
Mercer Pike	00473-52		X	X	
Montrose	00457-65	X	X	X	
Morgan Street	00476-52		X	X	
Revloc	00069-72	X	X	X	
Salix	00070-11	X	X	X	
Salix	00071-11	X	X		
Saxton	00625-73	X	X		
Scalp Level	00031-11	X	X		
Scalp Level	00932-11	X	X	X	
Seward	00075-11	X	X	X	
Tionesta	00344-51	X	X	X	
Turner Street	00488-52		X	X	
Union City	00239-43	X	X	X	
Utica Junction	00511-51	X	X	X	
Youngsville	00257-41	X	X		

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

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
1	Sharpsville	W-219	Clark	1,884	16	
	Sharpsville		W-219		Clark	
	SAIDI Impact	5.15	Trees Off Row-Tree	94%	Q3 2023	
	SAIDI	473.26	Lightning	5%	Q4 2023	
	SAIFI	0.89	Animal	1%	Q1 2023	
	CAIDI	530	All Other	1%		
	Customer Minutes	891,630				
	Customers Affected	1,681				
	Remedial Action Planned or Taken				Status	Progress
	Repair Damage Caused By Trees				Complete	Aug-23
	Repair Damage Caused By Trees				Complete	Aug-23
	Replace poles identified during pole inspection				To Be Completed 2024	25%
Rank	Substation	Circuit	District	Customers	Outages	
2	Hartstown	W-126	Clark	2,261	69	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.90	Trees Off Row-Tree	45%	Q2 2023	
	SAIDI	375.68	Vehicle	41%	Q3 2023	
	SAIFI	2.79	Animal	4%	Q4 2023	
	CAIDI	135	All Other	10%	Q1 2023	
	Customer Minutes	849,421				
	Customers Affected	6,310				
	Remedial Action Planned or Taken				Status	Progress
	Replace/repair high priority items identified during circuit patrol				To Be Completed 2024	50%
Rank	Substation	Circuit	District	Customers	Outages	
3	Sharpsville	W-218	Clark	1,385	24	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.82	Trees Off Row-Tree	82%	Q3 2023	
	SAIDI	603.05	Unknown	12%	Q4 2023	
	SAIFI	2.11	Vehicle	3%	Q1 2023	
	CAIDI	286	All Other	2%		
	Customer Minutes	835,223				
	Customers Affected	2,918				
	Remedial Action Planned or Taken				Status	Progress
	Repair Damage Caused By Trees				Complete	Aug-23
	Repair Damage Caused By Trees				Complete	Aug-23
	On cycle tree trimming				Complete	Jul-23
Replace/repair high priority items identified during circuit patrol				To Be Completed 2024	0%	

Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
4	Camp Reynolds	W-134	Clark	1,843	71
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.82	Trees Off Row-Tree	49%	Q2 2023
	SAIDI	359.24	Trees Off Row-Limb	23%	Q3 2023
	SAIFI	1.33	Equipment Failure	16%	Q4 2023
	CAIDI	269	All Other	12%	Q1 2023
	Customer Minutes	662,085			
	Customers Affected	2,459			
	Remedial Action Planned or Taken			Status	Progress
	Repair Damage Caused By Trees			Complete	Aug-23
	Replace poles identified during pole inspection			Complete	Feb-24
	Overhead circuit inspection			To Be Completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
5	Conneaut	W-173	Clark	1,927	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.74	Trees Off Row-Limb	74%	Q2 2023
	SAIDI	246.55	Vehicle	7%	Q3 2023
	SAIFI	1.24	Trees Off Row-Tree	6%	Q4 2023
	CAIDI	199	All Other	13%	Q1 2023
	Customer Minutes	475,097			
	Customers Affected	2,391			
	Remedial Action Planned or Taken			Status	Progress
	Repair Damage Caused By Trees			Complete	Jul-23
	Replace poles identified during pole inspection			Complete	Mar-24
	Rank	Substation	Circuit	District	Customers
6	Darlington	D-536	Zelienople	1,152	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.67	Trees Off Row-Tree	94%	Q1 2023
	SAIDI	401.08	Trees Off Row-Limb	3%	
	SAIFI	1.58	Line Failure	2%	
	CAIDI	254	All Other	2%	
	Customer Minutes	462,047			
	Customers Affected	1,822			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Feb-24
	Overhead circuit inspection			To Be Completed 2024	0%

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
7	Mercer	W-128	Clark	1,239	59	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.66	Trees Off Row-Tree	43%	Q3 2023	
	SAIDI	372.27	Trees Off Row-Limb	25%	Q4 2023	
	SAIFI	0.88	Line Failure	22%	Q1 2023	
	CAIDI	424	All Other	11%		
	Customer Minutes	461,244				
	Customers Affected	1,087				
	Remedial Action Planned or Taken				Status	Progress
	Repair Damage Caused By Trees				Complete	Aug-23
	Repair Damage Caused By Trees				Complete	Aug-23
	On cycle tree trimming				Complete	Jan-24
	Install additional main line recloser				To Be Completed 2024	50%
	Rank	Substation	Circuit	District	Customers	Outages
8	Mars	D616	Zelienople	1,529	28	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.31	Trees Off Row-Tree	73%	Q1 2023	
	SAIDI	261.85	Forced Outage	21%		
	SAIFI	1.45	Object Contact With Line	4%		
	CAIDI	180	All Other	2%		
	Customer Minutes	400,366				
	Customers Affected	2,220				
	Remedial Action Planned or Taken				Status	Progress
	Replace poles identified during pole inspection				Complete	Feb-24
	Replace/repair high priority items identified during circuit patrol				To Be Completed 2024	50%
	Rank	Substation	Circuit	District	Customers	Outages
	9	Koppel	D-531	New Castle	1,050	31
		Reliability		Outage by Cause		Previously Ranked
SAIDI Impact		2.28	Trees Off Row-Tree	82%	Q3 2023	
SAIDI		376.32	Trees Off Row-Limb	10%	Q4 2023	
SAIFI		2.76	Equipment Failure	3%	Q1 2023	
CAIDI		136	All Other	5%		
Customer Minutes		395,135				
Customers Affected		2,896				
Remedial Action Planned or Taken				Status	Progress	
Repair Damage Caused By Trees				Complete	Jul-23	
On cycle tree trimming				To Be Completed 2024	0%	
Overhead circuit inspection				To Be Completed 2024	0%	

Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
10	Seneca	W700	Zelienople	923	38
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.10	Trees Off Row-Tree	37%	Q4 2023
	SAIDI	394.23	Trees Off Row-Limb	22%	Q1 2023
	SAIFI	1.97	Line Failure	15%	
	CAIDI	200	All Other	25%	
	Customer Minutes	363,876			
	Customers Affected	1,817			
	Remedial Action Planned or Taken			Status	Progress
	Repair Damage Caused By Trees			Complete	Sep-23
	Install additional main line recloser			Complete	Oct-23

Penn Power					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	2Q 2023	3Q 2023	4Q 2023	1Q 2024
Ingomar	D620	x	x	x	
Mercer	W-167	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.				

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
1	Normalville	Mill Run	Pleasant Valley	579	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.75	Tree OFF Row- Tree	97%	Q3 2023
	SAIDI	4,717.01	Equipment Failure	2%	Q4 2023
	SAIFI	3.45	Line Failure	0%	Q1 2024
	CAIDI	1,368	All Other	1%	
	Customer Minutes	2,731,148			
	Customers Affected	1,996			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Aug-23
	Post storm circuit patrol			Complete	Jan-24
Rank	Substation	Circuit	District	Customers	Outages
2	Iron Bridge	Bridgeport	Pleasant Valley	1,273	22
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.59	Trees Off Row-Tree	96%	Q1 2024
	SAIDI	2,051.02	Equipment Failure	2%	
	SAIFI	3.37	Forced Outage	2%	
	CAIDI	608	All Other	0%	
	Customer Minutes	2,610,948			
	Customers Affected	4,295			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Jul-23
	Underground inspection			Complete	Dec-23

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
3	Normalville	Indianhead	Pleasant Valley	562	33	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.45	Trees Off Row-Tree	57%	Q3 2023	
	SAIDI	3,165.80	Trees Off Row-Limb	19%	Q4 2023	
	SAIFI	3.14	Wind	17%	Q1 2024	
	CAIDI	1,007	All Other	7%		
	Customer Minutes	1,779,177				
	Customers Affected	1,766				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a tree				Complete	Aug-23
	Forced outage to repair damage				Complete	Dec-23
	On cycle tree trimming				Complete	Oct-23
	Phase balancing performed for better voltage				Complete	Nov-23
	Voltage regulators installed and capacitor bank opened				Complete	Feb-24
Rank	Substation	Circuit	District	Customers	Outages	
4	Rutan	Bristoria	Jefferson	899	47	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.37	Trees Off Row-Tree	83%	Q2 2023	
	SAIDI	1,917.09	Forced Outage	5%	Q3 2023	
	SAIFI	3.86	Trees Off Row-Limb	4%	Q4 2023	
	CAIDI	496	All Other	8%	Q1 2024	
	Customer Minutes	1,723,464				
	Customers Affected	3,472				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	May-23
	Repair damage caused by a tree				Complete	Jul-23
	Forced outage to repair damage				Complete	Oct-23
	Line Rehab (LTIP)				Complete	Jul-23
	ESSS work requests				Complete	Dec-23

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
5	Waterville	Waterville	State College	362	20	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.08	Other Electric Utility	50%	Q3 2023	
	SAIDI	4,175.69	Wind	24%	Q4 2023	
	SAIFI	8.16	Unknown	19%	Q1 2024	
	CAIDI	512	All Other	7%		
	Customer Minutes	1,511,598				
	Customers Affected	2,953				
	Remedial Action Planned or Taken				Status	Progress
	Restore outage caused by other electric utility				Complete	Aug-23
	Underground inspection				Complete	Feb-24
Rank	Substation	Circuit	District	Customers	Outages	
6	Frazier	Star Junction	Pleasant Valley	1,741	18	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.95	Trees Off Row-Tree	58%	Q3 2023	
	SAIDI	814.12	Trees Off Row-Limb	20%	Q4 2023	
	SAIFI	1.37	Forced Outage	11%	Q1 2024	
	CAIDI	594	All Other	11%		
	Customer Minutes	1,417,391				
	Customers Affected	2,386				
	Remedial Action Planned or Taken				Status	Progress
	Overhead Circuit Inspection				Complete	Jul-23
	Repair damage caused by a tree				Complete	Aug-23
	Underground inspection				Complete	Dec-23
	ESSS work requests				To Be Completed 2024	0%
Circuit protection review				Complete	Nov-23	

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
7	Franklin Wpp	S Waynesburg	Jefferson	2,056	51
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.89	Trees Off Row-Tree	56%	Q2 2023
	SAIDI	667.47	Object Contact With Line	40%	Q3 2023
	SAIFI	3.57	Animal	2%	Q4 2023
	CAIDI	187	All Other	2%	Q1 2024
	Customer Minutes	1,372,328			
	Customers Affected	7,340			
	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
	Underground inspection			Complete	Dec-23
	Distribution circuit protection and sectionalizing (LTIIP)			Complete	Nov-23
ESSS work requests			Complete	Nov-23	
Overhead Circuit Inspection			To Be Completed 2024	0%	
Rank	Substation	Circuit	District	Customers	Outages
8	Houston	McGovern	Washington Pa	2,105	41
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.85	Trees Off Row-Tree	64%	Q3 2023
	SAIDI	638.94	Line Failure	15%	Q4 2023
	SAIFI	2.88	Forced Outage	11%	Q1 2024
	CAIDI	222	All Other	9%	
	Customer Minutes	1,344,961			
	Customers Affected	6,061			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Aug-23
	Forced outage to repair damage			Complete	Nov-23
	Overhead Circuit Inspection			Complete	Mar-24
	Underground inspection			Complete	Dec-23
	ESSS work requests			Complete	Dec-23
	On cycle tree trimming			To Be Completed 2024	0%

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
9	Dutch Fork	Claysville	Washington Pa	1,639	62
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.68	Trees Off Row-Tree	74%	Q3 2023
	SAIDI	746.56	Unknown	23%	Q4 2023
	SAIFI	2.81	Equipment Failure	1%	Q1 2024
	CAIDI	266	All Other	2%	
	Customer Minutes	1,223,608			
	Customers Affected	4,607			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Aug-23
	Restore unknown outage			Complete	Nov-23
	Overhead Circuit Inspection			Complete	Dec-23
	ESSS work requests			Complete	Dec-23
Rank	Substation	Circuit	District	Customers	Outages
10	Amity	Amity	Washington Pa	534	20
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.58	Trees Off Row-Tree	85%	Q2 2023
	SAIDI	2,146.68	Line Failure	10%	Q3 2023
	SAIFI	3.02	Equipment Failure	3%	Q4 2023
	CAIDI	711	All Other	1%	Q1 2024
	Customer Minutes	1,146,325			
	Customers Affected	1,613			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Aug-23
	ESSS work requests			Complete	Dec-23
	On cycle tree trimming			To Be Completed 2024	0%

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
11	Vanceville	Vanceville	Charleroi	1,379	63
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.54	Trees Off Row-Tree	37%	Q2 2023
	SAIDI	813.48	Unknown	32%	Q3 2023
	SAIFI	2.93	Forced Outage	18%	Q4 2023
	CAIDI	277	All Other	13%	Q1 2024
	Customer Minutes	1,121,786			
	Customers Affected	4,047			
	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
	Restore unknown outage			Complete	Oct-23
	ESSS work requests			Complete	Dec-23
	On cycle tree trimming			Complete	Dec-23
Rank	Substation	Circuit	District	Customers	Outages
12	Piney Fork	Knothole	Charleroi	1,677	15
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.51	Trees Off Row-Tree	85%	Q4 2023
	SAIDI	653.07	Line Failure	10%	Q1 2024
	SAIFI	1.45	Trees On Row	3%	
	CAIDI	452	All Other	1%	
	Customer Minutes	1,095,192			
	Customers Affected	2,424			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Aug-23
	Overhead Circuit Inspection			To Be Completed 2024	0%

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
13	Pangburn Hill	Pangburn Hill	Charleroi	741	26	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.50	Trees Off Row-Tree	75%	Q3 2023	
	SAIDI	1,469.80	Wind	23%	Q4 2023	
	SAIFI	1.66	Unknown	1%	Q1 2024	
	CAIDI	887	All Other	0%		
	Customer Minutes	1,089,120				
	Customers Affected	1,228				
	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
	On cycle tree trimming				Complete	Dec-23
	Rank	Substation	Circuit	District	Customers	Outages
14	Smith	Francis Mine	Washington Pa	1,433	27	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.41	Trees Off Row-Tree	85%	Q1 2024	
	SAIDI	716.36	Line Failure	8%		
	SAIFI	1.38	Lightning	6%		
	CAIDI	518	All Other	2%		
	Customer Minutes	1,026,543				
	Customers Affected	1,981				
	Remedial Action Planned or Taken				Status	Progress
	Repair line failure				Complete	Jan-24
Rank	Substation	Circuit	District	Customers	Outages	
15	Bethlen	Laughlintown	Latrobe	1,096	51	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.40	Trees Off Row-Tree	88%	Q2 2023	
	SAIDI	931.39	Line Failure	8%	Q3 2023	
	SAIFI	1.92	Unknown	2%	Q4 2023	
	CAIDI	486	All Other	3%	Q1 2024	
	Customer Minutes	1,020,801				
	Customers Affected	2,102				
	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
	ESSS work requests				Complete	Jan-24
Forestry work				Complete	Mar-24	
Line Rehab (LTIIP)				Complete	Feb-24	

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
16	Footedale	Footedale	Uniontown	1,186	32	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.33	Trees Off Row-Tree	53%	Q3 2023	
	SAIDI	813.26	Line Failure	26%	Q4 2023	
	SAIFI	2.85	Animal	13%	Q1 2024	
	CAIDI	285	All Other	8%		
	Customer Minutes	964,522				
	Customers Affected	3,384				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a tree				Complete	Aug-23
	Repair damage caused by a vehicle				Complete	Oct-23
	Patrolled a portion of the circuit				Complete	Feb-24
Rank	Substation	Circuit	District	Customers	Outages	
17	Peters	Mcmurray	Boyce	1,496	30	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.30	Line Failure	46%	Q4 2023	
	SAIDI	631.76	Trees Off Row-Tree	41%	Q1 2024	
	SAIFI	3.81	Unknown	11%		
	CAIDI	166	All Other	2%		
	Customer Minutes	945,118				
	Customers Affected	5,703				
	Remedial Action Planned or Taken				Status	Progress
	Restore unknown outage				Complete	Dec-23
	Overhead Circuit Inspection				Complete	Mar-24
Rank	Substation	Circuit	District	Customers	Outages	
18	Iron Bridge	Mt Pleasant	Pleasant Valley	1,110	11	
	SAIDI Impact		1.30		Trees Off Row-Tree	
	SAIDI	850.58	Unknown	9%		
	SAIFI	2.05	Animal	0%		
	CAIDI	414	All Other	0%		
	Customer Minutes	944,147				
	Customers Affected	2,279				
	SAIDI Impact	1.30	Trees Off Row-Tree	90%	Q1 2024	
	Remedial Action Planned or Taken				Status	Progress
	Post storm circuit patrol				Complete	Jan-24
	On cycle tree trimming				To Be Completed 2024	0%

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
19	Iron Bridge	Alverton	Pleasant Valley	693	14
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.24	Equipment Failure	43%	Q1 2024
	SAIDI	1,306.25	Trees Off Row-Tree	23%	
	SAIFI	2.24	Line Failure	22%	
	CAIDI	584	All Other	12%	
	Customer Minutes	905,234			
	Customers Affected	1,550			
	Remedial Action Planned or Taken			Status	Progress
	Underground inspection			Complete	Dec-23
	On cycle tree trimming			To Be Completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages
20	Smith	Florence	Washington Pa	810	29
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.21	Trees Off Row-Tree	96%	Q1 2024
	SAIDI	1,088.96	Wind	2%	
	SAIFI	2.47	Unknown	1%	
	CAIDI	440	All Other	1%	
	Customer Minutes	882,058			
	Customers Affected	2,004			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Jan-24
Rank	Substation	Circuit	District	Customers	Outages
21	Kane	Russell City	St Marys	710	16
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.20	Trees Off Row-Tree	86%	Q1 2024
	SAIDI	1,233.83	Line Failure	10%	
	SAIFI	1.79	Wind	3%	
	CAIDI	688	All Other	0%	
	Customer Minutes	876,022			
	Customers Affected	1,273			
	Remedial Action Planned or Taken			Status	Progress
	Overhead Circuit Inspection			Complete	Feb-24

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
22	Connellsville	West Side	Pleasant Valley	556	8
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.18	Trees Off Row-Limb	66%	Q1 2024
	SAIDI	1,538.21	Unknown	19%	
	SAIFI	4.16	Wind	7%	
	CAIDI	370	All Other	8%	
	Customer Minutes	855,247			
	Customers Affected	2,313			
	Remedial Action Planned or Taken			Status	Progress
	Circuit protection review (LTIIP)			Complete	Nov-23
	WR to replace fuse			Complete	Nov-23
Rank	Substation	Circuit	District	Customers	Outages
23	Frazier	Perry	Pleasant Valley	733	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.17	Trees Off Row-Tree	60%	Q3 2023
	SAIDI	1,159.99	Vehicle	22%	Q4 2023
	SAIFI	3.44	Forced Outage	14%	Q1 2024
	CAIDI	337	All Other	4%	
	Customer Minutes	850,271			
	Customers Affected	2,521			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Aug-23
	Circuit protection review (LTIIP)			Complete	Nov-23
	On cycle tree trimming			To Be Completed 2024	0%

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
24	Bethelboro	Coolspring	Uniontown	1,453	43
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.09	Trees Off Row-Tree	40%	Q2 2023
	SAIDI	546.33	Wind	31%	Q3 2023
	SAIFI	1.98	Vehicle	9%	Q4 2023
	CAIDI	276	All Other	20%	Q1 2024
	Customer Minutes	793,814			
	Customers Affected	2,873			
	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
	Underground inspection			Complete	Dec-23
	ESSS work requests			Complete	Feb-24
	Circuit protection review (LTIIP)			Complete	Nov-23
	WR for fuse changes			Complete	Jun-23
Rank	Substation	Circuit	District	Customers	Outages
25	Fort Palmer	Oakgrove	Latrobe	680	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.08	Trees Off Row-Tree	96%	Q2 2023
	SAIDI	1,156.48	Equipment Failure	3%	Q3 2023
	SAIFI	1.41	Unknown	0%	Q4 2023
	CAIDI	817	All Other	1%	Q1 2024
	Customer Minutes	786,404			
	Customers Affected	962			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Apr-23
	Overhead Circuit Inspection			Complete	May-23
	Repair damage caused by a tree			Complete	Sep-23
	Repair damage caused by a tree			Complete	Nov-23
	On cycle tree trimming			Complete	Nov-23
	Underground inspection			Complete	Dec-23

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
26	Treveskyn	Treveskyn	Boyce	1,411	20
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.05	Trees Off Row-Limb	71%	Q1 2024
	SAIDI	542.94	Trees Off Row-Tree	16%	
	SAIFI	1.39	Wind	7%	
	CAIDI	391	All Other	6%	
	Customer Minutes	766,085			
	Customers Affected	1,957			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Dec-23
	Underground inspection			Complete	Dec-23
	Rank	Substation	Circuit	District	Customers
27	Murrycrest	Sardis Road	Jeannette	1,487	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.04	Trees Off Row-Tree	75%	Q1 2024
	SAIDI	510.16	Line Failure	21%	
	SAIFI	2.11	Trees Off Row-Limb	4%	
	CAIDI	242	All Other	0%	
	Customer Minutes	758,610			
	Customers Affected	3,136			
	Remedial Action Planned or Taken			Status	Progress
	Replaced transformer arrestor			Complete	Nov-23
	Overhead circuit inspection			Complete	Mar-24
	Rank	Substation	Circuit	District	Customers
28	Emporium	Emporium Jct	St Marys	597	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.04	Trees Off Row-Tree	71%	Q1 2024
	SAIDI	1,269.16	Line Failure	25%	
	SAIFI	3.49	Forced Outage	4%	
	CAIDI	363	All Other	0%	
	Customer Minutes	757,687			
	Customers Affected	2,085			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Mar-24

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
29	Gordon	Wolfdale	Washington Pa	2,080	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.04	Trees Off Row-Tree	66%	Q4 2023
	SAIDI	362.16	Unknown	24%	Q1 2024
	SAIFI	2.88	Wind	3%	
	CAIDI	126	All Other	6%	
	Customer Minutes	753,300			
	Customers Affected	5,988			
	Remedial Action Planned or Taken			Status	Progress
	Overhead Circuit Inspection			Complete	Aug-23
	Repair damage caused by a tree			Complete	Mar-23
	Restore unknown outage			Complete	Oct-23
	Circuit protection review (LTIIP)			Complete	Jul-23
Rank	Substation	Circuit	District	Customers	Outages
30	Brave	Spragg	Jefferson	368	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.03	Trees Off Row-Tree	86%	Q1 2024
	SAIDI	2,041.43	Line Failure	7%	
	SAIFI	3.54	Unknown	5%	
	CAIDI	576	All Other	2%	
	Customer Minutes	751,246			
	Customers Affected	1,304			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To Be Completed 2024	0%
	Rank	Substation	Circuit	District	Customers
31	Tri Town	Vanderbilt	Pleasant Valley	910	19
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.03	Trees Off Row-Tree	97%	Q1 2024
	SAIDI	823.16	Forced Outage	1%	
	SAIFI	1.44	Trees On Row	1%	
	CAIDI	571	All Other	1%	
	Customer Minutes	749,075			
	Customers Affected	1,312			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Dec-23
	On cycle tree trimming			To Be Completed 2024	0%

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
32	Amity	Banetown	Washington Pa	1,489	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.02	Trees Off Row-Tree	62%	Q3 2023
	SAIDI	499.91	Trees Off Row-Limb	16%	Q4 2023
	SAIFI	1.66	Equipment Failure	10%	Q1 2024
	CAIDI	300	All Other	12%	
	Customer Minutes	744,368			
	Customers Affected	2,479			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Aug-23
Rank	Substation	Circuit	District	Customers	Outages
33	Driftwood	Driftwood	St Marys	769	27
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.97	Trees Off Row-Tree	79%	Q1 2024
	SAIDI	920.57	Trees Off Row-Limb	16%	
	SAIFI	2.50	Unknown	2%	
	CAIDI	368	All Other	3%	
	Customer Minutes	707,918			
	Customers Affected	1,924			
	Remedial Action Planned or Taken			Status	Progress
	Circuit Rehab (LTIIP)			To Be Completed 2024	50%
Rank	Substation	Circuit	District	Customers	Outages
34	Bethlen	Darlington	Latrobe	1,242	68
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.97	Trees Off Row-Tree	63%	Q2 2023
	SAIDI	567.00	Line Failure	10%	Q3 2023
	SAIFI	2.86	Trees Off Row-Limb	10%	Q4 2023
	CAIDI	199	All Other	17%	Q1 2024
	Customer Minutes	704,211			
	Customers Affected	3,547			
	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			Complete	Mar-24
	Circuit protection review (LTIIP)			Complete	Nov-23
Forestry work			Complete	Feb-24	

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
35	Normalville	Normalville	Pleasant Valley	465	25	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.97	Trees Off Row-Tree	67%	Q1 2024	
	SAIDI	1,512.82	Trees Off Row-Limb	26%		
	SAIFI	1.66	Wind	4%		
	CAIDI	910	All Other	2%		
	Customer Minutes	703,459				
	Customers Affected	773				
	Remedial Action Planned or Taken				Status	Progress
	Normalville substation inspection				To Be Completed 2024	0%
Rank	Substation	Circuit	District	Customers	Outages	
36	Charleroi	Warner	Charleroi	1,217	18	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.94	Trees Off Row-Tree	52%	Q3 2023	
	SAIDI	559.97	Unknown	27%	Q4 2023	
	SAIFI	1.46	Vehicle	11%	Q1 2024	
	CAIDI	384	All Other	10%		
	Customer Minutes	681,488				
	Customers Affected	1,775				
	Remedial Action Planned or Taken				Status	Progress
	Overhead Circuit Inspection (62914257)				To Be Completed 2024	0%
On cycle tree trimming				To Be Completed 2024	0%	
Rank	Substation	Circuit	District	Customers	Outages	
37	Patterson Street	South Residential	State College	2,164	27	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.93	Trees Off Row-Tree	55%	Q1 2024	
	SAIDI	312.63	Line Failure	35%		
	SAIFI	2.35	Trees Off Row-Limb	4%		
	CAIDI	133	All Other	5%		
	Customer Minutes	676,530				
	SAIDI Impact	0.93	Trees Off Row-Tree	55%	Q1 2024	
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a tree				Complete	Jan-24

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
38	Port Matilda	Port Matilda	State College	1,439	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.92	Trees Off Row-Tree	53%	Q2 2023
	SAIDI	464.48	Equipment Failure	42%	Q3 2023
	SAIFI	2.12	Trees Off Row-Limb	2%	Q1 2024
	CAIDI	219	All Other	2%	
	Customer Minutes	668,383			
	Customers Affected	3,052			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jun-23
	Repair damage caused by a tree			Complete	Jul-23
	Overhead circuit inspection			Complete	Feb-24
	Rank	Substation	Circuit	District	Customers
39	Craven	Fisher Heights	Charleroi	862	11
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.90	Trees Off Row-Tree	81%	Q1 2024
	SAIDI	761.85	Line Failure	18%	
	SAIFI	1.78	Animal	0%	
	CAIDI	429	All Other	0%	
	Customer Minutes	656,711			
	SAIDI Impact	0.90	Trees Off Row-Tree	81%	Q1 2024
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Dec-23
Rank	Substation	Circuit	District	Customers	Outages
40	Ethel Springs	Pandora	Latrobe	1,980	29
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.89	Trees Off Row-Tree	94%	Q1 2024
	SAIDI	325.62	Equipment Failure	2%	
	SAIFI	2.11	Line Failure	2%	
	CAIDI	155	All Other	1%	
	Customer Minutes	644,737			
	Customers Affected	4,171			
	Remedial Action Planned or Taken			Status	Progress
	Circuit protection review (LTIIP)			Complete	Jun-23
	ESSS work requests			Complete	Apr-23
On cycle tree trimming			To Be Completed 2024	0%	

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
41	Crossgates	Peters Twp	Boyce	1,099	18	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.88	Trees Off Row-Tree	67%	Q1 2024	
	SAIDI	585.64	Forced Outage	16%		
	SAIFI	3.16	Ug Dig-Up	12%		
	CAIDI	185	All Other	5%		
	Customer Minutes	643,620				
	Customers Affected	3,478				
	Remedial Action Planned or Taken				Status	Progress
	Underground inspection				To Be Completed 2024	25%
	Install circuit tie (LTIP)				To Be Completed 2024	25%

West Penn					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	2Q 2023	3Q 2023	4Q 2023	1Q 2024
Donegal	Champion	X	X	X	
Bethlen	Laurel Valley	X	X	X	
Karns City	Kaylor	X	X	X	
Butler	Penn St	X		X	
Springfield Pike	Rock Ridge	X	X	X	
Ethel Springs	Railroad	X	X	X	
Ethel Springs	Peach Hollow	X		X	
North Union	Phillips	X	X	X	
South Union	Brownfield	X	X	X	
South Union	Rte. 119 North	X	X		
Blue Ridge Summit	Sabillasville	X	X		
Laurelville	Laurelville	X	X	X	
Peters	Boxer	X	X		
Connellsville	Trotter	X	X	X	
Stahlstown	Kreager	X	X	X	
Nittany No. 2	Clintondale	X	X		
Linden-Wash	Wylandville	X	X		
Piney Fork	Cochran Mill		X	X	
Roundhill	Roundhill		X	X	
Franklin (Wpp)	South Waynesburg	X		X	
Buckeye No.3	Paisley	X		X	

West Penn				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Progress of Remedial Work or Date Completed
Karns City	Kaylor	Overhead circuit inspection	Complete	Mar-24
North Union	Phillips	Overhead circuit inspection	Complete	Mar-24
Shaffers Corner	Seventh St Rd	Overhead circuit inspection	Complete	Mar-24

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.

Met-Ed –Third Party Line Hit Incidents			
1st Quarter 2024 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	33	\$2,276	\$890.52
Excavated in Tolerance	19	\$89,964	\$20,608.36
Excavation Inconsistent with Ticket Scope			
Excavation Prior to Lawful Start Date	2	\$1,100	\$1,100.08
Expired Ticket			
Hand Digging			
Marked Improperly	11	\$30,418	\$24,572
No Ticket	9	\$11,251	\$2,345
Total	74	\$135,009.03	\$49,515.86

Penelec – Third Party Line Hit Incidents			
1st Quarter 2024 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	71	\$171,210	\$67,667
Excavated in Tolerance	5	\$7,826	\$0
Excavation Inconsistent with Ticket Scope	1	\$200.11	\$0.00
Excavation Prior to Lawful Start Date			
Expired Ticket	3	\$1,847	\$1,847.36
Hand Digging			
Marked Improperly	10	\$14,495	\$14,261
No Ticket	21	\$65,998	\$35,127
Total	111	\$261,576.94	\$118,902.63

Penn Power – Third Party Line Hit Incidents			
1st Quarter 2024 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	35	\$64,786	\$18,476.00
Excavated in Tolerance	4	\$10,837	\$1,162.00
Excavation Inconsistent with Ticket Scope			
Excavation Prior to Lawful Start Date	2	\$3,810	\$0.00
Expired Ticket	3	\$12,511.00	\$3,100
Hand Digging			
Marked Improperly	4	\$23,903	\$7,527
No Ticket	8	\$4,527	\$0.00
Total	56	\$120,374.00	\$30,265.00

West Penn – Third Party Line Hit Incidents			
1st Quarter 2024 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	54	\$71,216	\$27,359
Excavated in Tolerance	10	\$15,043	\$2,923
Excavation Inconsistent with Ticket Scope	1	\$2,582	\$0.00
Excavation Prior to Lawful Start Date			
Expired Ticket	1	\$1,296	\$0.00
Hand Digging	1	\$1,090	\$0.00
Marked Improperly	15	\$48,408	\$25,045
No Ticket	31	\$109,291	\$16,407
Total	113	\$248,926.00	\$71,734.00

Cause of Line Hit	Definition
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