

October 31, 2024

VIA ELECTRONIC FILING

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

**Re: 3rd 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 3rd 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)

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

3rd 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).

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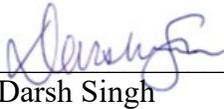
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Dated: October 31, 2024



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behalf of Met-Ed Rate District, Penelec Rate
District, Penn Power Rate District and West Penn
Rate District



2024 3rd 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)

**3rd 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”)**

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.^{1. 666}

Major Event(s)

Company	Customers Affected	Time and Duration of the Event		Cause of the Event	Commission Approval Status
Penn Power	23,951	Duration	95 hours and 56 minutes	Thunderstorm and Wind Event	October 4, 2024
		Start Date/Time	08/06/2024 0938		
		End Date/Time	08/10/2024 0934		

¹ 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.

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

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

3Q 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	1.89	1.26	1.52	1.60	1.12	1.34	0.92	1.05	1.26	1.19
CAIDI	117	140	252.38	117	141	151.08	101	121	121.56	170	204	193.10
SAIDI	135	194	477.59	148	213	241.27	113	162	111.80	179	257	229.24
MAIFI²			0.393			0.667			0.032			
Customers Served³	581,347			592,535			175,429			727,467		
Number of Sustained Interruptions	17,795			17,553			3,400			15,102		
Customers Affected	1,100,131			946,252			161,345			863,617		
Customer Minutes	277,648,026			142,963,030			19,613,241			166,764,362		
Number of Customer Momentary Interruptions	228,677			395,270			5,548					

² MAIFI values are not available for West Penn.

³ Represents the average number of customers served during the reporting period.

Unique Events Occurring in Q3 2024:

Met-Ed

- Beginning on Tuesday July 16, 2024, a weather system producing strong thunderstorms moved through the Met-Ed service territory. In addition to the thunderstorms, the National Weather Service confirmed that a series of downbursts and a microburst occurred in the Met-Ed service territory the evening of July 16, 2024. The maximum estimated wind speeds associated with the downbursts were between 80 and 90 mph. Damage as a result of the weather system included downed trees and wires, damaged or broken poles and crossarms, and tree damage. Challenges during the restoration efforts included difficulty accessing the hardest hit areas due to the large-scale damage as well as daytime temperatures of 95 to 100 degrees on July 16 and July 17, 2024. The Easton, Hanover and York districts were the hardest hit areas. Approximately 65% of the total outages that occurred were tree related with an additional 12% related to line and equipment failure. Data indicates the reliability impact of the storm was 55 minutes of SAIDI, 0.09 of SAIFI frequency, and an overall storm CAIDI of 625.81 minutes.
- Beginning on Saturday, August 3, 2024, a weather system moved through the Met-Ed service territory. The thunderstorm system produced lightning, winds, and precipitation with rain totals of approximately 2 inches. The maximum wind gusts associated with the system were approximately 35 miles per hour on Saturday, August 3, 2024. Damage as a result of the weather system included downed trees and wires, damaged or broken poles and crossarms, and tree damage. Downed trees led to restoration challenges as it was sometimes difficult for crews to reach damaged equipment. The Reading and East Stroudsburg districts were the hardest hit areas. Approximately 54% of the total outages that occurred were tree related. Data indicates the reliability impact of the storm was 7.4 minutes of SAIDI, 0.02 of SAIFI frequency, and an overall storm CAIDI of 397.5 minutes.
- Beginning the afternoon of Tuesday, August 6, 2024, a weather system producing strong thunderstorms moved through the Met-Ed service territory. The storms produced heavy precipitation and wind gusts of approximately 41 miles per hour. Damage as a result of the thunderstorms included downed trees and wires, damaged or broken poles and crossarms, and tree damage. The Easton, Lebanon, Reading, and York districts were the hardest hit areas. Approximately 51% of the total outages that occurred were tree related with an additional 20% related to equipment failure. Data indicates the reliability impact of the storm was 12 minutes of SAIDI, 0.04 of SAIFI frequency, and an overall storm CAIDI of 312.09 minutes.
- Beginning the evening of Friday, August 9, 2024, a weather system moved through the Met-Ed service territory as a result of Tropical Storm Debby. The system produced storms with heavy precipitation and wind gusts of approximately 52 miles per hour. Damage as a result of the thunderstorms included downed trees and wires, damaged or broken poles and crossarms, and tree damage. The Easton, Reading, Stroudsburg, and York districts

were the hardest hit areas. Approximately 69% of the total outages that occurred were tree related with an additional 12.7% related to line and equipment failure. Data indicates the reliability impact of the storm was 16.3 minutes of SAIDI, 0.06 of SAIFI frequency, and an overall storm CAIDI of 273.35 minutes.

- Beginning the evening of Saturday, September 21, 2024, a weather system moved through the Met-Ed service territory. The system produced storms with heavy precipitation and wind gusts of approximately 35 miles per hour. Damage as a result of the thunderstorms included downed trees and wires, damaged or broken poles, and crossarms. Special equipment was required to replace several 90-foot poles. The York and Lebanon districts were the hardest hit areas. Approximately 51.9% of the total outages that occurred were tree related with an additional 18.4% related to line and equipment failure. Data indicates the reliability impact of the storm was 10.1 minutes of SAIDI, 0.04 of SAIFI frequency, and an overall storm CAIDI of 250.23 minutes.

Penelec

- Beginning in the afternoon hours of July 15, 2024, a weather system moved through Pennsylvania including the Penelec Rate District. The system produced precipitation and high winds with wind gusts of approximately 70 miles per hour. Windy conditions continued on Tuesday, July 16, 2024 with wind gusts of approximately 44 miles per hour. Damage as a result of the high winds included downed trees and wires, and damaged or broken poles and crossarms. 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 hardest hit areas were Towanda, Mansfield, Montrose, and Dubois districts. There were challenges during the restoration efforts as crews worked in excessive heat with temperatures above 90 degrees. Approximately 54% of the total outages that occurred were tree, wind, and lightning related. Data indicates the reliability impact of the storm was 28.1 minutes of SAIDI, 0.07 of SAIFI, and an overall storm CAIDI of 377.8 minutes.
- Beginning the morning of Friday, August 9, 2024, a weather system moved through the Penelec service territory as a result of the remnants of Hurricane Debby. The system produced storms with heavy precipitation and wind gusts of approximately 47 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, and cutouts. Localized flooding resulted in delayed restoration in the towns of Westfield and Trout Run as crews were unable to access these areas until the flood waters receded and clean-up took place. Flooding in localized areas slowed restoration efforts. Approximately 49% of the total outages that occurred were tree related with an additional 19% related to line and equipment failure. Towanda, Altoona, Lewistown, and Oil City were the hardest hit areas. Data indicates the reliability impact of the storm was 13.1 minutes of SAIDI, 0.04 of SAIFI, and an overall storm CAIDI of 347.76 minutes.

Penn Power

- Beginning in the evening hours of Tuesday, August 6, 2024, a storm system moved through Pennsylvania, including the Penn Power service territory. The storm system produced heavy rain, lightning, and wind gusts of over 50 miles per hour. The storm also produced a landspout tornado in Mercer. Damage as a result of the high winds included tree damage resulting in downed wires, damaged or broken poles, and damaged transformers and crossarms. Mercer, Lawrence, Butler, and Crawford counties were the hardest hit areas. Approximately 70.2% of the total outages that occurred were tree related. Restoration activities were affected by the terrain, high winds, rain, and downed trees. Data indicates the reliability impact of the storm was 77.2 minutes of SAIDI, 0.14 of SAIFI, and an overall storm CAIDI of 565.23 minutes.

West Penn

- Beginning the morning of Wednesday, July 10, 2024, a weather system producing wind gusts of approximately 49 miles per hour and precipitation moved through Pennsylvania including the West Penn service territory. Damage as a result of the wind included downed wires, damaged and broken poles, and tree damage. The Jeannette, PA region was the hardest hit area. Approximately 59.4% of the total outages that occurred were tree related and an additional 18.4% were related to line and equipment failure. Data indicates the reliability impact of the storm was 7.2 minutes of SAIDI, 0.04 of SAIFI, and an overall storm CAIDI of 185.28 minutes.
- Beginning in the afternoon hours of Monday, July 15, 2024, a weather system producing lightning and heavy winds moved through Pennsylvania including the West Penn service territory. The system produced storms with heavy precipitation and high winds of approximately 50 miles per hour. Damage as a result of lightning and high winds included downed wires, and damaged and broken poles, trees, and branches. The Butler, Clarion, and St. Mary's regions were the hardest hit areas. Approximately 55.6% of the total outages that occurred were tree related and an additional 2.4% were wind related. Data indicates the reliability impact of the storm was 8.7 minutes of SAIDI, 0.022 of SAIFI, and an overall storm CAIDI of 388.4 minutes.
- Beginning the afternoon of Tuesday August 6, 2024, a weather system producing thunderstorms moved through Pennsylvania including the West Penn service territory. The system produced storms with heavy precipitation and high winds of approximately 40 miles per hour. Damage as a result of the storms included downed wires, and damaged and broken poles, trees, and branches. The Arnold, Butler, and State College regions were the hardest hit areas. Approximately 57.6% of the total outages that occurred were tree related and an additional 20.6% were equipment and line failure related. Data indicates the reliability impact of the storm was 6.8 minutes of SAIDI, 0.03 of SAIFI, and an overall storm CAIDI of 257.66 minutes.
- Beginning the afternoon of Saturday, September 21, 2024, scattered storms moved through Pennsylvania including the West Penn service territory. The storms produced precipitation and high winds of approximately 40 miles per hour. Damage as a result of

the storms included downed wires, and damaged and broken poles, trees, and branches. The Uniontown region was the hardest hit area. Approximately 52.9% of the total outages that occurred were tree related and an additional 24.4% were equipment and line failure related. Data indicates the reliability impact of the storm was 4.4 minutes of SAIDI, 0.01 of SAIFI, and an overall storm CAIDI of 530.95 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.

The Outage by Cause tables included below identify only the causes that occurred during the current timeframe and are not an exhaustive list of all possible outage causes.

Outages by Cause – Met-Ed

Outage by Cause				
3rd Quarter 2024 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees Off Row-Tree	134,358,397	4,165	295,849	48.39%
Unknown	31,621,639	2,317	159,305	11.39%
Equipment Failure	29,764,470	2,753	185,924	10.72%
Trees Off Row-Limb	22,494,464	1,581	68,482	8.10%
Forced Outage	12,916,782	896	161,213	4.65%
Trees On Row	10,233,129	436	22,974	3.69%
Vehicle	8,905,283	444	55,723	3.21%
Line Failure	6,699,302	614	27,592	2.41%
Wind	5,010,927	179	9,918	1.80%
Animal	4,657,435	2,473	46,152	1.68%
Trees - Sec/Service	2,058,852	648	2,662	0.74%
Object Contact With Line	1,677,325	57	10,288	0.60%
Ice	1,676,944	18	3,097	0.60%
Human Error - Company	1,331,619	45	14,754	0.48%
Overload	1,127,734	69	7,179	0.41%
Lightning	1,059,125	140	4,021	0.38%
Bird	644,354	760	8,389	0.23%
Fire	547,696	16	1,526	0.20%
Human Error -Non-Company	492,320	83	10,449	0.18%
Ug Dig-Up	79,714	19	336	0.03%
Other Electric Utility	67,601	10	158	0.02%
Switching Error	62,586	7	2,895	0.02%
Customer Equipment	54,148	34	169	0.02%
Other Utility-Non Elec	52,850	6	760	0.02%
Previous Lightning	52,306	22	312	0.02%
Contamination	1,024	3	4	0.00%
Total	277,648,026	17,795	1,100,131	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 September 30, 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”) programs⁴ 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.

⁴ Pursuant to Pa. Code § 57.198(a), every two years an electric distribution company shall file with the Commission a biennial plan for the periodic inspection, maintenance, repair, and replacement of its facilities. The Company submitted their Biennial Inspection, Maintenance, Repair and Replacement Plan for the period January 1, 2023 through December 31, 2024 on April 28, 2023 which was deemed approved on July 17, 2023 pursuant to 52 Pa. Code § 57.198(i). On February 5, 2024, revised FE PA Rate District I&M plans related to pole inspections were approved by the Commission at Docket No. M-2009-2094773 and M-2023-3039027.

Outages by Cause – Penelec

Outage by Cause				
3rd Quarter 2024 12-Month Rolling	Penelec			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees Off Row-Tree	56,655,740	2,919	240,060	39.63%
Equipment Failure	24,119,722	2,876	198,582	16.87%
Line Failure	14,187,310	1,833	121,448	9.92%
Forced Outage	9,730,375	1,405	92,323	6.81%
Unknown	7,595,635	2,585	99,918	5.31%
Lightning	6,709,220	513	33,318	4.69%
Trees Off Row-Limb	5,052,173	554	32,797	3.53%
Animal	4,626,848	1,999	40,896	3.24%
Vehicle	3,946,188	402	26,505	2.76%
Wind	3,495,210	289	16,934	2.44%
Other Electric Utility	1,203,153	135	4,130	0.84%
Bird	1,186,703	709	7,113	0.83%
Human Error -Non-Company	1,051,279	84	4,216	0.74%
Trees - Sec/Service	787,687	762	2,561	0.55%
Object Contact With Line	685,700	76	3,396	0.48%
Overload	560,801	47	3,491	0.39%
Trees On Row	389,384	74	1,609	0.27%
Ice	333,026	57	1,877	0.23%
Human Error - Company	281,982	65	11,239	0.20%
Call Error	120,436	2	618	0.08%
Ug Dig-Up	114,092	60	707	0.08%
Customer Equipment	55,665	19	853	0.04%
Contamination	28,796	48	172	0.02%
Switching Error	24,895	6	1,376	0.02%
Fire	10,792	9	55	0.01%
Previous Lightning	7,144	13	43	0.00%
Vandalism	1,719	10	11	0.00%
Other Utility-Non Elec	1,355	2	4	0.00%
Total	142,963,030	17,553	946,252	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 September 30, 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				
3rd Quarter 2024 12-Month Rolling	Penn Power			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	7,281,230	664	34,970	37.12%
Equipment Failure	2,777,161	319	26,640	14.16%
Line Failure	2,456,444	462	18,746	12.52%
Vehicle	1,609,969	128	9,280	8.21%
Trees Off Row-Limb	1,308,571	246	9,831	6.67%
Unknown	1,235,469	235	26,357	6.30%
Bird	797,157	463	8,179	4.06%
Animal	723,107	475	8,405	3.69%
Forced Outage	523,948	93	8,715	2.67%
Lightning	355,943	106	5,120	1.81%
Object Contact With Line	186,217	16	1,815	0.95%
Trees - Sec/Service	109,661	105	314	0.56%
Ug Dig-Up	68,246	38	675	0.35%
Wind	57,158	2	47	0.29%
Trees On Row	51,857	5	61	0.26%
Human Error -Non-Company	40,434	19	207	0.21%
Human Error - Company	17,602	9	1,803	0.09%
Overload	6,954	4	117	0.04%
Previous Lightning	3,346	2	40	0.02%
Customer Equipment	1,402	6	14	0.01%
Fire	1,365	3	9	0.01%
Total	19,613,241	3,400	161,345	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 September 30, 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				
3rd Quarter 2024 12-Month Rolling	West Penn			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees Off Row-Tree	79,506,246	3,888	236,393	47.68%
Unknown	17,767,459	1,679	168,096	10.65%
Line Failure	15,213,957	1,895	80,538	9.12%
Equipment Failure	14,669,127	1,870	90,328	8.80%
Vehicle	10,635,685	577	60,594	6.38%
Forced Outage	8,363,443	1,151	114,375	5.02%
Trees Off Row-Limb	5,350,624	559	29,449	3.21%
Animal	4,919,976	1,776	31,580	2.95%
Wind	3,121,096	201	10,645	1.87%
Lightning	2,753,472	155	13,808	1.65%
Trees On Row	1,524,994	123	5,030	0.91%
Object Contact With Line	799,679	33	4,022	0.48%
Overload	512,898	16	1,413	0.31%
Human Error -Non-Company	486,056	57	3,400	0.29%
Trees - Sec/Service	359,737	390	1,043	0.22%
Bird	273,198	612	2,824	0.16%
Human Error - Company	164,829	26	7,187	0.10%
Ug Dig-Up	99,603	54	670	0.06%
Other Electric Utility	74,957	7	425	0.04%
Previous Lightning	64,210	4	761	0.04%
Switching Error	54,495	1	865	0.03%
Ice	23,798	6	57	0.01%
Fire	19,184	8	80	0.01%
Customer Equipment	3,826	12	18	0.00%
Vandalism	1,207	2	2	0.00%
Other Utility-Non Elec	606	3	14	0.00%
Total	166,764,362	15,105	863,617	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 September 30, 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		
2024		Planned	Completed		Planned	Completed		Planned	Completed		Planned	Completed	
		Annual	3Q	YTD	Annual	3Q	YTD	Annual	3Q	YTD	Annual	3Q	YTD
Forestry	Transmission (Miles)	272	212	77.7%	430	410	95.4%	171	111.0	64.8%	211	202	95.8%
	Distribution (Miles)	2,857	1,884	65.9%	3,828	2,416	63.1%	1,069	595	55.7%	4,535	3,207	70.7%
Transmission	Aerial Patrols	2	2	100.0%	2	2	100.0%	2	2	100.0%	2	2	100.0%
	Groundline	1,652	2,296	100.0%	2,485	2,239	90.1%	975	1,151	100.0%	424	597	100.0%
Substation	Substation Inspections Class A	420	420	100.0%	776	776	100.0%	150	150	100.0%	936	936	100.0%
	Substation Inspections Class B	420	420	100.0%	776	388	50.0%	150	75	50.0%	936	468	50.0%
	Substation Inspections Class C	1,680	1,260	75.0%	3,104	2,328	75.0%	600	450	75.0%	3,744	2,813	75.1%
	Transformers	140	134	95.7%	407	391	96.1%	9	9	100.0%	375	367	97.9%
	Breakers	65	48	73.8%	323	311	96.3%	12	11	91.7%	362	323	89.2%
	Relay Schemes	267	165	61.8%	322	301	93.5%	24	23	95.8%	203	21	10.3%
Distribution	Capacitors	4,822	4,828	100.0%	8,583	8,583	100.0%	945	942	99.7%	3,823	3,823	100.0%
	Poles	38,000	38,279	100.0%	41,509	15,251	36.7%	10,743	10,767	100.0%	46,650	14,117	30.3%
	Reclosers	3,531	2,957	83.7%	3,926	3,883	98.9%	1,239	1,219	98.4%	4,470	4,010	89.7%
	Radio-Controlled Switches	1,800	1,591	88.4%	2,666	1,931	72.4%	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 Expenditures⁵*

This portion of the report is confidential

⁵ Budgets are subject to change.

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

Budgeted vs. Actual T&D Operation & Maintenance Expenditures⁶
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

⁶ Budgets are subject to change.

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).⁷

Staffing Levels

Met-Ed 2024												
		Staffing Level ⁸				Staff Added in Quarter		Staff Movement Quarter	Staff lost in Quarter			Plan to Hire in 2024 ⁹
Department	Position	1Q ¹⁰	2Q	3Q	4Q	New Hire	Other ¹¹	Movement within Position ¹²	Retirement	Voluntary Separation	Other ¹³	
Distribution	Line Leader	45	45	43					1	1	2	
	Line Troubleshooter	38	35	35								
	Lineman	159	155	146		3		42		3	6	19
Substation	Substation Leader	15	15	15								
	Substation Employee	69	66	64				18			2	
Transmission	Line Leader	3	2	3								
	Lineman	10	10	10							1	
Total		339	328	316		3		60	1	4	11	19

⁷ 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.

⁸ Staffing level includes active employees with an assignment status of active - payroll eligible, leave of absence - payroll eligible, or military leave - payroll eligible.

⁹ PA transmission hiring plan is not available as the information is not separated by state.

¹⁰ Staffing for Q1 Distribution Line Leader changed from 43 employees to reflect 45 employees and Distribution Lineman from 160 employees to reflect 159 employees.

¹¹ Includes transfers and promotions.

¹² Includes transfers, promotions, and progression within a position.

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

Penelec 2024												
		Staffing Level ¹⁴				Staff Added in Quarter		Staff Movement Quarter	Staff Lost in Quarter			Plan to Hire in 2024 ¹⁵
Department	Position	1Q ¹⁶	2Q	3Q	4Q	New Hire	Other ¹⁷	Movement within Position ¹⁸	Retirement	Voluntary Separation	Other ¹⁹	
Distribution	Line Leader	55	55	58			3					
	Line Troubleshooter	81	79	75			2				6	
	Lineman	154	151	151		2	5				7	28
Substation	Substation Leader	32	33	33								
	Substation Employee	58	58	57							1	3
Transmission	Line Leader	8	7	8			1					
	Lineman	17	18	18			1				1	
Total		405	401	400		2	12				15	31

¹⁴ Staffing level includes active employees with an assignment status of active - payroll eligible, leave of absence - payroll eligible, or military leave - payroll eligible.

¹⁵ PA transmission hiring plan is not available as the information is not separated by state.

¹⁶ Staffing for Q1 Transmission Line Leader changed from 7 employees to reflect 8 employees.

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 promotions.

Penn Power 2024												
		Staffing Level ²⁰				Staff Added in Quarter		Staff Movement Quarter	Staff Lost in Quarter			Plan to Hire in 2024 ²¹
Department	Position	1Q ²²	2Q	3Q	4Q	New Hire	Other ²³	Movement within Position ²⁴	Retirement	Voluntary Separation	Other ²⁵	
Distribution	Line Leader	24	25	25								
	Line Troubleshooter	15	15	14							1	
	Lineman	46	47	49		2	1			1		3
Substation	Substation Leader	5	5	5								
	Substation Employee	19	19	19								
Transmission	Line Leader	1	1	1								
	Lineman	6	6	6								
Total		116	118	119		2				1	1	3

²⁰ Staffing level includes active employees with an assignment status of active - payroll eligible, leave of absence - payroll eligible, or military leave - payroll eligible.

²¹ PA transmission hiring plan is not available as the information is not separated by state.

²² Staffing for Q1 Substation Employee changed from 17 employees to reflect 19 employees.

²³ Includes transfers, promotions, and assignment changes for extended disability or long-term disability.

²⁴ Includes transfers, promotions, and progression within a position.

²⁵ Includes transfers, voluntary separations, and assignments changes for extended disability and long-term disability.

West Penn 2024												
		Staffing Level ²⁶				Staff Added in Quarter		Staff Movement Quarter	Staff Lost in Quarter			
Department	Position	1Q	2Q	3Q	4Q	New Hire	Other ²⁷	Movement within Position ²⁸	Retirement	Voluntary Separation	Other ²⁹	Plan to Hire in 2024 ³⁰
Distribution	Line Leader	78	77	72			2			1	5	
	Line Troubleshooter	50	52	51			4		1		3	
	Lineman	158	156	161		4	6			2	4	16
Substation	Substation Leader	23	26	24							1	
	Substation Employee	85	81	83			1				1	4
Transmission	Line Leader	2	2	2								
	Lineman	11	11	10							1	
Total		407	405	403		4	13		1	3	15	20

²⁶ Staffing level includes active employees with an assignment status of active - payroll eligible, leave of absence - payroll eligible, or military leave - payroll eligible.

²⁷ Includes transfers, promotions, and assignment changes for extended disability or long term disability.

²⁸ Includes transfers, promotions, and progression within a position.

²⁹ Includes transfers, promotions, involuntary separations, and assignment changes for extended disability and long-term disability.

³⁰ PA transmission hiring plan is not available as the information is not separated by state.

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.

This portion of the report is confidential

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	Ottsville Substation	00661-3	Easton	611	116	1	5,013,617	8,427	8.62	8205.592	13.792	594.947	1.586
2	No Bangor	00813-3	Easton	1,370	101	0	4,945,410	12,474	8.51	3609.788	9.105	396.457	0.000
3	No Bangor	00826-3	Easton	3,340	166	0	4,675,924	11,963	8.04	1399.977	3.582	390.866	0.248
4	Ottsville Substation	00660-3	Easton	888	97	1	4,180,718	5,860	7.19	4708.016	6.599	713.433	0.000
5	Mountain Substation	00744-4	Dillsburg	1,878	124	0	3,975,719	6,553	6.84	2116.996	3.489	606.702	0.007
6	Glendon	00818-3	Easton	1,638	34	2	3,265,944	6,940	5.62	1993.861	4.237	470.597	0.000
7	Ferndale Sub	00076-3	Easton	644	108	0	2,984,585	2,377	5.13	4634.449	3.691	1255.610	0.986
8	Barto Sub	00706-1	Boyertown	3,025	256	0	2,961,668	7,089	5.09	979.064	2.343	417.784	1.347
9	Huffs Church	00600-1	Boyertown	1,518	227	0	2,871,938	7,170	4.94	1891.922	4.723	400.549	0.535
10	Bridgeton Sub	00117-3	Easton	298	33	4	2,741,299	3,006	4.72	9198.990	10.087	911.942	0.000
11	Ferndale Sub	00871-3	Easton	496	81	1	2,695,610	2,166	4.64	5434.698	4.367	1244.511	0.984
12	Shawnee Sub	00822-3	Stroudsburg	2,919	60	1	2,635,585	9,034	4.53	902.907	3.095	291.741	1.816
13	Shawnee Sub	00895-3	Stroudsburg	3,852	117	1	2,462,093	11,136	4.24	639.173	2.891	221.093	1.528
14	Lynnville Sub	00737-1	Hamburg	1,091	96	1	2,368,357	4,075	4.07	2170.813	3.735	581.192	2.890
15	S Hamb Sub	00740-1	Hamburg	1,285	79	0	2,344,488	3,981	4.03	1824.504	3.098	588.919	0.654
16	Shawnee Sub	00837-3	Stroudsburg	1,280	71	2	2,226,391	5,660	3.83	1739.368	4.422	393.355	7.797
17	Fox Hill Subst	00816-3	Stroudsburg	3,346	54	1	2,038,245	13,099	3.51	609.159	3.915	155.603	1.224
18	Glendon	00820-3	Easton	299	34	2	2,013,784	2,131	3.46	6735.064	7.127	944.995	0.000
19	North Cornwall Sub	00610-2	Lebanon	2,342	78	0	1,948,975	11,415	3.35	832.184	4.874	170.738	1.304
20	Glendon	00805-3	Easton	1,004	25	1	1,900,186	2,235	3.27	1892.616	2.226	850.195	0.000
21	Lickdale Substation	00625-2	Lebanon	1,022	131	3	1,828,971	6,154	3.15	1789.600	6.022	297.200	0.926
22	Walker Sub	00865-3	Stroudsburg	2,950	79	1	1,801,863	6,497	3.10	610.801	2.202	277.338	1.187
23	Raubsville St	00079-3	Easton	800	44	0	1,790,873	1,680	3.08	2238.591	2.100	1065.996	0.000
24	Stroudsburg	00610-3	Stroudsburg	909	21	0	1,770,517	5,820	3.05	1947.763	6.403	304.213	0.866
25	S Hamb Sub	00743-1	Hamburg	1,181	74	0	1,763,760	2,922	3.03	1493.446	2.474	603.614	0.393
26	Round Top	00582-4	Dillsburg	730	69	1	1,756,740	3,706	3.02	2406.493	5.077	474.026	0.486

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
27	Mountain Substation	00743-4	Dillsburg	1,038	60	0	1,747,865	7,446	3.01	1683.878	7.173	234.739	1.438
28	Birdsboro	00756-1	Reading	1,537	137	0	1,747,384	7,738	3.01	1136.880	5.034	225.819	3.586
29	Richmond Subst	00104-3	Easton	521	30	2	1,745,286	2,009	3.00	3349.877	3.856	868.734	0.977
30	Fleetwood Sub	00161-1	Reading	686	33	1	1,690,369	2,764	2.91	2464.095	4.029	611.566	0.000
31	Shawnee Sub	00899-3	Stroudsburg	1,703	63	3	1,652,881	6,528	2.84	970.570	3.833	253.199	1.950
32	S Nazareth	00809-3	Easton	3,207	78	2	1,641,465	8,841	2.82	511.838	2.757	185.665	1.352
33	Shawnee Sub	00860-3	Stroudsburg	3,266	52	2	1,638,506	8,240	2.82	501.686	2.523	198.848	1.550
34	Lyons Sub	00729-1	Reading	1,364	111	0	1,628,771	4,534	2.80	1194.114	3.324	359.235	0.300
35	W Boyertown Sub	00715-1	Boyertown	1,719	79	1	1,601,342	5,210	2.75	931.554	3.031	307.359	0.000
36	Flying Hills Sub	00777-1	Reading	1,803	135	0	1,599,732	9,009	2.75	887.261	4.997	177.570	1.699
37	Northwood Sub	00802-3	Easton	539	14	1	1,518,391	1,166	2.61	2817.052	2.163	1302.222	1.421
38	W Boyertown Sub	00714-1	Boyertown	1,887	84	1	1,505,208	6,262	2.59	797.672	3.318	240.372	0.934
39	Chestnut Hill Sub	00182-3	Easton	570	25	1	1,481,051	2,659	2.55	2598.335	4.665	556.995	0.000

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Grover	00527-63	Towanda	1,108	84	0	3,470,535	4,040	5.857	3132.252	3.646	859.043	0.403
2	Thompson	00436-65	Montrose	1,390	84	1	1,858,562	4,531	3.137	1337.095	3.260	410.188	0.000
3	Thompson	00446-65	Montrose	1,290	114	0	1,690,121	5,545	2.852	1310.171	4.298	304.801	0.001
4	Lake Como	00788-65	Montrose	662	40	1	1,623,751	2,974	2.740	2452.796	4.492	545.982	0.287
5	Madera	00166-22	Philipsburg	2,182	97	0	1,604,369	8,264	2.708	735.275	3.787	194.140	0.192
6	Lake Como	00787-65	Montrose	961	46	0	1,519,419	3,592	2.564	1581.081	3.738	423.001	1.736
7	Russell Hill	00282-65	Montrose	1,053	58	1	1,510,944	4,421	2.550	1434.895	4.198	341.765	0.355
8	Thompson	00442-65	Montrose	677	40	1	1,346,627	4,587	2.273	1989.109	6.775	293.575	1.213
9	Tiffany	00435-65	Montrose	1,304	41	2	1,290,838	4,197	2.179	989.906	3.219	307.562	0.392
10	Falls	00297-65	Montrose	843	41	0	1,278,026	2,917	2.157	1516.045	3.460	438.130	5.132
11	Warren South	00220-41	Warren	2,844	88	0	1,255,642	5,269	2.119	441.506	1.853	238.307	0.347
12	Springboro	00237-52	Meadville	2,836	95	0	1,158,379	6,619	1.955	408.455	2.334	175.008	0.002
13	Laurel Lake Sub Tran	00449-65	Montrose	542	50	3	1,147,333	4,668	1.936	2116.851	8.613	245.787	2.817
14	N Meshoppen Tran	00534-65	Montrose	899	55	1	1,143,077	6,069	1.929	1271.498	6.751	188.347	1.718
15	Rockwood	00023-12	Somerset	233	11	0	1,067,842	1,061	1.802	4583.013	4.554	1006.449	3.421
16	Hooversville	00019-12	Somerset	1,651	53	0	1,020,848	6,755	1.723	618.321	4.091	151.125	0.078
17	Brooklyn	00749-65	Montrose	535	33	0	1,006,903	1,668	1.699	1882.062	3.118	603.659	0.000
18	Dubois	00124-23	Dubois	2,103	49	0	977,408	4,505	1.650	464.768	2.142	216.961	3.693
19	Lenox	00755-65	Montrose	715	54	1	959,185	1,949	1.619	1341.517	2.726	492.142	0.000
20	Lake Como	00786-65	Montrose	335	14	1	936,548	699	1.581	2795.666	2.087	1339.840	0.000
21	Buckeye Blaine	00136-83	Shippensburg	916	62	1	932,593	3,695	1.574	1018.115	4.034	252.393	0.002
22	Brookville	00125-23	Dubois	630	34	2	887,263	2,159	1.497	1408.354	3.427	410.960	1.613
23	East Pike	00094-13	Indiana	1,580	18	4	878,156	12,565	1.482	555.795	7.953	69.889	3.098
24	Natl Forge Sw Sta	00577-41	Warren	1,223	39	1	865,384	7,335	1.460	707.591	5.998	117.980	2.555
25	Ansonia	00740-63	Mansfield Pa	178	22	0	855,005	1,196	1.443	4803.399	6.719	714.887	0.938
26	Osceola	00318-63	Mansfield Pa	1,079	14	2	798,250	4,382	1.347	739.805	4.061	182.166	0.112
27	Oxbow	00555-65	Montrose	752	47	0	785,090	3,312	1.325	1044.003	4.404	237.044	0.904
28	Tunkhannock	00533-65	Montrose	1,281	61	0	777,838	2,626	1.313	607.212	2.050	296.206	4.381

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
29	Philipsburg	00162-22	Philipsburg	2,794	66	1	758,601	11,982	1.280	271.511	4.288	63.312	2.791
30	Osceola	00562-63	Mansfield Pa	338	19	0	741,290	978	1.251	2193.166	2.893	757.965	0.355
31	Walnut Street	00522-31	Erie	2,092	20	1	735,500	4,235	1.241	351.577	2.024	173.672	0.000
32	Piney	00523-51	Oil City	1,545	59	0	702,083	2,920	1.185	454.423	1.890	240.439	0.237
33	Shippensburg 1	00630-83	Shippensburg	1,806	49	2	678,330	4,520	1.145	375.598	2.503	150.073	0.051
34	Lowell Avenue	00518-31	Erie	900	19	1	665,943	7,815	1.124	739.937	8.683	85.213	4.060
35	Union City	00208-43	Erie	1,615	76	1	656,893	4,334	1.109	406.745	2.684	151.567	0.493
36	Green Garden	00531-31	Erie	881	7	0	653,645	1,653	1.103	741.935	1.876	395.430	0.403
37	Tiffany	00440-65	Montrose	1,234	6	0	633,392	2,206	1.069	513.284	1.788	287.122	0.000
38	Erie South	00259-31	Erie	2,717	82	0	601,570	6,004	1.015	221.410	2.210	100.195	1.189
39	French Road	00219-31	Erie	1,493	18	0	593,522	3,035	1.002	397.537	2.033	195.559	0.132
40	Ppl West	PL097-62	Towanda	102	16	6	589,141	1,483	0.994	5775.892	14.539	397.263	0.000
41	Eagles Mere	00686-62	Towanda	322	31	1	587,221	790	0.991	1823.668	2.453	743.318	2.935
42	North Towanda	00521-62	Towanda	1,034	58	1	551,799	2,436	0.931	533.655	2.356	226.518	0.066
43	Saxton	00625-73	Altoona	1,332	36	0	547,380	2,473	0.924	410.946	1.857	221.342	0.756
44	Brookville West	00121-23	Dubois	803	34	0	506,275	1,785	0.854	630.479	2.223	283.627	2.731
45	Logan	00700-81	Lewistown	1,019	35	0	479,547	2,141	0.809	470.605	2.101	223.983	0.737
46	N Meshoppen Tran	00530-65	Montrose	624	28	0	460,112	2,022	0.777	737.359	3.240	227.553	1.436
47	Platea	00432-34	Erie	644	67	1	439,495	3,222	0.742	682.446	5.003	136.404	2.927
48	Edgewood	00089-13	Indiana	908	29	2	417,721	3,093	0.705	460.045	3.406	135.054	2.590
49	Dushore	00641-62	Towanda	94	16	0	417,377	1,410	0.704	4440.181	15.000	296.012	1.894
50	Rockton Mountain	00138-21	Clearfield	506	32	0	410,281	1,458	0.692	810.832	2.881	281.400	1.531
51	Spangler	00052-72	Altoona	1,509	23	1	408,714	3,149	0.690	270.851	2.087	129.792	0.001
52	Timblin	00103-23	Dubois	712	40	1	401,716	3,495	0.678	564.208	4.909	114.940	0.503
53	Cooper	00069-11	Johnstown	697	26	1	394,433	2,297	0.666	565.901	3.296	171.717	1.765
54	Tower Hill	00581-63	Mansfield Pa	487	26	0	394,211	1,677	0.665	809.468	3.444	235.069	0.275
55	Laurel Lake Sub Tran	00769-65	Montrose	497	23	1	394,157	1,907	0.665	793.072	3.837	206.690	0.000
56	Front Street	00233-31	Erie	677	6	1	387,518	2,097	0.654	572.405	3.097	184.796	0.080

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
57	Hammett	00502-31	Erie	1,542	66	1	380,466	4,327	0.642	246.735	2.806	87.928	0.965
58	Fairview East	00218-34	Erie	1,040	19	0	377,502	2,113	0.637	362.983	2.032	178.657	0.164
59	Roxbury Trans Sub	00618-83	Shippensburg	379	32	0	377,205	1,179	0.637	995.264	3.111	319.936	0.373
60	N Meshoppen Tran	00531-65	Montrose	438	56	0	362,974	1,167	0.613	828.708	2.664	311.032	0.025
61	Vail	00647-22	Philipsburg	590	16	3	362,740	1,723	0.612	614.814	2.920	210.528	0.000
62	Bellwood North	00934-22	Philipsburg	865	26	0	359,775	2,110	0.607	415.925	2.439	170.509	0.000

Penn Power													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Chippewa	D-557	Zelienople	1,323	50	0	671,425	1,638	3.83	507.502	1.238	409.90537	1.242
2	Sharpsville	W-218	Clark	1,459	28	2	632,379	3,609	3.60	433.433	2.474	175.22278	0.428
3	Hartstown	W-126	Clark	2,282	85	0	598,752	4,636	3.41	262.380	2.032	129.15272	0.000
4	Castlewood	D-325	New Castle	1,139	28	0	530,813	1,365	3.03	466.034	1.198	388.87399	0.000
5	Mercer	W-167	Clark	1,164	39	1	461,852	1,745	2.63	396.780	1.499	264.67163	0.111
6	Richard	W742	Zelienople	1,548	22	1	402,804	3,765	2.30	260.209	2.432	106.98645	0.110
7	Stoneboro	W-131	Clark	1,576	83	1	398,134	2,798	2.27	252.623	1.775	142.29235	0.130
8	Wheatland	W-150	Clark	1,524	15	1	393,674	2,041	2.24	258.316	1.339	192.8829	0.000
9	Mercer	W-129	Clark	1,173	39	0	343,662	1,577	1.96	292.977	1.344	217.92137	0.225
10	Darlington	D-536	Zelienople	1,181	47	1	341,108	1,742	1.94	288.830	1.475	195.81401	0.000

West Penn												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
1	Iron Bridge	Bridgeport	Pleasant Valley	1,280	24	3	2,566,106	3,965	3.527	2004.770	3.098	647.189
2	Weedville	Weedville	St Marys	1,501	36	1	1,672,825	3,047	2.300	1114.474	2.030	549.007
3	White Valley	Borlands Rd	Jeannette	1,390	46	3	1,384,962	5,935	1.904	996.376	4.270	233.355
4	Franklin (Wpp)	South Waynesburg	Jefferson	2,057	54	2	1,327,885	5,837	1.825	645.544	2.838	227.494
5	Finleyville	Gastonville	Charleroi	1,649	37	2	1,311,739	6,118	1.803	795.475	3.710	214.407
6	Normalville	Mill Run	Pleasant Valley	577	23	1	1,222,854	2,115	1.681	2119.331	3.666	578.182
7	Buena Vista	Chicora	Butler	1,148	28	1	1,178,030	3,633	1.619	1026.159	3.165	324.258
8	Ethel Springs	Pandora	Latrobe	1,984	33	1	1,177,194	3,334	1.618	593.344	1.680	353.088
9	Saltsburg	Bell Township	Arnold	755	39	1	1,136,824	2,907	1.563	1505.727	3.850	391.064
10	Lake Lynn-Unio	Fancy Hill	Uniontown	923	38	0	1,097,967	2,427	1.509	1189.563	2.629	452.397
11	Dry Run	Town	Charleroi	1,808	12	3	1,075,493	5,815	1.478	594.852	3.216	184.952
12	Piney Fork	Stoltz	Charleroi	2,117	20	1	1,037,192	3,296	1.426	489.935	1.557	314.682
13	Bethelboro	Coolspring	Uniontown	1,451	38	2	1,016,404	3,740	1.397	700.485	2.578	271.766
14	Bentleyville	Ellsworth	Charleroi	1,212	22	0	1,012,384	2,135	1.392	835.300	1.762	474.185
15	Levelgreen	Levelgreen	Jeannette	1,555	32	2	1,003,606	3,671	1.380	645.406	2.361	273.388
16	Penn Trafford	Pleasant Valley	Jeannette	868	20	2	994,337	2,964	1.367	1145.550	3.415	335.471
17	Parker	Parker	Butler	928	33	0	967,692	2,781	1.330	1042.772	2.997	347.965
18	Hickory	Fort Cherry	Washington Pa	1,059	33	0	960,482	4,020	1.320	906.971	3.796	238.926
19	Bethlen	Laughlintown	Latrobe	1,094	66	1	954,134	3,026	1.312	872.152	2.766	315.312
20	Iron Bridge	Mt Pleasant	Pleasant Valley	1,109	17	2	954,016	2,354	1.311	860.249	2.123	405.274
21	North Washington	Poke Run	Arnold	1,223	56	1	951,519	2,987	1.308	778.020	2.442	318.553
22	White Valley	Congruity	Jeannette	1,725	63	1	936,049	3,717	1.287	542.637	2.155	251.829
23	Murrycrest	Sardis Road	Jeannette	1,489	35	2	910,907	4,338	1.252	611.758	2.913	209.983
24	North Fayette	Oakdale	Boyce	1,384	14	0	888,122	2,994	1.221	641.707	2.163	296.634
25	Lardin	Grays Landing	Uniontown	1,036	49	0	879,147	1,707	1.209	848.597	1.648	515.025
26	Vanceville	Vanceville	Charleroi	1,380	50	0	877,831	2,664	1.207	636.109	1.930	329.516
27	Mackeyville	Salona	State College	766	12	2	831,608	1,495	1.143	1085.650	1.952	556.260

West Penn												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
28	Rutan	New Freeport	Jefferson	656	29	0	826,411	2,332	1.136	1259.773	3.555	354.379
29	Iron Bridge	Alverton	Pleasant Valley	697	21	1	823,657	1,577	1.132	1181.717	2.263	522.294
30	Houston	McGovern	Washington Pa	2,109	35	1	789,376	5,842	1.085	374.289	2.770	135.121
31	Emporium	Emporium Jct	St Marys	598	29	1	786,707	2,800	1.081	1315.564	4.682	280.967
32	Smithton	Smithton	Charleroi	982	24	0	781,039	2,240	1.074	795.355	2.281	348.678
33	Butler	Center Ave	Butler	1,638	13	1	774,495	2,483	1.065	472.830	1.516	311.919
34	Waterville	Waterville	State College	363	22	2	757,626	2,074	1.041	2087.124	5.713	365.297
35	Saxony Farms	Main St	Butler	936	18	0	751,580	2,976	1.033	802.970	3.179	252.547
36	Houston	Weavertown	Washington Pa	2,323	25	1	740,091	6,413	1.017	318.593	2.761	115.405
37	South Union	Continental	Uniontown	658	22	1	734,640	1,267	1.010	1116.474	1.926	579.826
38	Rutan	Bristoria	Jefferson	550	25	0	724,535	1,900	0.996	1317.336	3.455	381.334
39	Charleroi	Commercial	Charleroi	1,454	15	2	684,879	3,466	0.941	471.031	2.384	197.599
40	Buckeye No.3	Paisley	Jefferson	653	23	0	671,690	1,797	0.923	1028.622	2.752	373.784

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	Ottsville Substation	00661-3	Easton	611	116
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	8.62	Trees Off Row-Tree	80%	Q1 2024
	SAIDI	8,205.59	Unknown	7%	Q2 2024
	SAIFI	13.79	Trees On Row	6%	Q3 2024
	CAIDI	595	All Other	6%	
	Customer Minutes	5,013,617			
	Customers Affected	8,427			
	Remedial Action Planned or Taken			Status	Progress
	LTIP Engineering Review			Complete	Feb-24
	Replace priority mainline poles identified during annual pole inspection			Complete	Mar-24
	Additional LTIP Engineering Review			Complete	Sep-24
	Targeted Overhead Circuit Inspection			Complete	Oct-24
Rank	Substation	Circuit	District	Customers	Outages
2	No Bangor	00813-3	Easton	1,370	101
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	8.51	Trees Off Row-Tree	68%	Q4 2023
	SAIDI	3,609.79	Trees Off Row-Limb	16%	Q1 2024
	SAIFI	9.11	Vehicle	10%	Q2 2024
	CAIDI	396	All Other	7%	Q3 2024
	Customer Minutes	4,945,410			
	Customers Affected	12,474			
	Remedial Action Planned or Taken			Status	Progress
	Mainline Forestry Aerial Patrol			Complete	Jul-23
	Circuit conversion project			Complete	Dec-23
	LTIP Engineering Review			Complete	Feb-24
	Forestry Aerial Patrol			Complete	Jul-24

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
3	No Bangor	00826-3	Easton	3,340	166
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	8.04	Trees Off Row-Tree	77%	Q4 2023
	SAIDI	1,399.98	Trees Off Row-Limb	8%	Q1 2024
	SAIFI	3.58	Unknown	5%	Q3 2024
	CAIDI	391	All Other	11%	
	Customer Minutes	4,675,924			
	Customers Affected	11,963			
	Remedial Action Planned or Taken			Status	Progress
	Mainline Forestry Aerial Patrol			Complete	Jul-23
	Engineering circuit tie addition review			Complete	Feb-24
	Forestry Aerial Patrol			Complete	Jul-24
	3 Phase Extension Engineering Review			Complete	Aug-24
	Rank	Substation	Circuit	District	Customers
4	Ottsville Substation	00660-3	Easton	888	97
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	7.19	Trees Off Row-Tree	62%	Q4 2023
	SAIDI	4,708.02	Unknown	20%	Q1 2024
	SAIFI	6.60	Trees On Row	7%	Q2 2024
	CAIDI	713	All Other	11%	Q3 2024
	Customer Minutes	4,180,718			
	Customers Affected	5,860			
	Remedial Action Planned or Taken			Status	Progress
	Construct Circuit Tie LTIP			Complete	Dec-23
	Mid cycle forestry inspection			Complete	May-24
	Repair/replace high priority items identified during overhead circuit inspection			Complete	Apr-24
	Post Storm Forestry Circuit Patrol			Complete	Jul-24

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
8	Barto Sub	00706-1	Boyertown	3,025	256
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.09	Trees Off Row-Tree	62%	Q4 2023
	SAIDI	979.06	Trees Off Row-Limb	17%	Q1 2024
	SAIFI	2.34	Unknown	7%	Q2 2024
	CAIDI	418	All Other	14%	Q3 2024
	Customer Minutes	2,961,668			
	Customers Affected	7,089			
	Remedial Action Planned or Taken			Status	Progress
	Targeted tree trimming and removals			Complete	Oct-23
	Install Supervisory Control and Data Acquisition (SCADA) devices (3 devices)			Complete	Mar-24
	Cycle tree trimming			To be completed 2024	99%
Rank	Substation	Circuit	District	Customers	Outages
9	Huffs Church	00600-1	Boyertown	1,518	227
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.94	Trees Off Row-Tree	73%	Q4 2023
	SAIDI	1,891.92	Trees Off Row-Limb	10%	Q1 2024
	SAIFI	4.72	Equipment Failure	5%	Q2 2024
	CAIDI	401	All Other	12%	Q3 2024
	Customer Minutes	2,871,938			
	Customers Affected	7,170			
	Remedial Action Planned or Taken			Status	Progress
	Targeted Circuit Rehabilitation LTIP			Complete	Nov-23
	Install TripSaver			Complete	Feb-24
	Cycle tree trimming			To be completed 2024	84%
	Upgrade Recloser to Viper			To be completed 2024	75%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
10	Bridgeton Sub	00117-3	Easton	298	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.72	Trees Off Row-Tree	51%	Q1 2024
	SAIDI	9,198.99	Forced Outage	30%	Q2 2024
	SAIFI	10.09	Unknown	11%	Q3 2024
	CAIDI	912	All Other	7%	
	Customer Minutes	2,741,299			
	Customers Affected	3,006			
	Remedial Action Planned or Taken			Status	Progress
	Replace/repair high priority items identified during overhead circuit patrol			Complete	Jun-24
	Overhead circuit inspection			To be completed 2024	99%
	Targeted Forestry Inspection			Complete	Aug-24
	Post Storm Forestry Circuit Patrol			Complete	Jul-24
Rank	Substation	Circuit	District	Customers	Outages
11	Ferndale Sub	00871-3	Easton	496	81
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.64	Trees Off Row-Tree	53%	Q3 2024
	SAIDI	5,434.70	Unknown	16%	
	SAIFI	4.37	Trees Off Row-Limb	14%	
	CAIDI	1,245	All Other	17%	
	Customer Minutes	2,695,610			
	Customers Affected	2,166			
	Remedial Action Planned or Taken			Status	Progress
	Post Storm Forestry Circuit Patrol			Complete	Jul-24
	Cycle tree trimming			Complete	Aug-24
	Replace priority mainline poles identified during annual pole inspection			Complete	Sep-24

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
12	Shawnee Sub	00822-3	Stroudsburg	2,919	60
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.53	Trees Off Row-Limb	48%	Q2 2024
	SAIDI	902.91	Trees Off Row-Tree	36%	Q3 2024
	SAIFI	3.09	Unknown	13%	
	CAIDI	292	All Other	2%	
	Customer Minutes	2,635,585			
	Customers Affected	9,034			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	May-23
	LTIP Engineering Review			Complete	Feb-24
	Replace priority mainline poles identified during annual pole inspection			Complete	May-24
	Forestry Aerial Patrol			Complete	Jul-24
Rank	Substation	Circuit	District	Customers	Outages
13	Shawnee Sub	00895-3	Stroudsburg	3,852	117
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.24	Trees Off Row-Tree	45%	Q1 2024
	SAIDI	639.17	Unknown	18%	Q2 2024
	SAIFI	2.89	Forced Outage	9%	Q3 2024
	CAIDI	221	All Other	28%	
	Customer Minutes	2,462,093			
	Customers Affected	11,136			
	Remedial Action Planned or Taken			Status	Progress
	Reconductor mainline			Complete	May-24
	LTIP Pole Replacements			Complete	Jul-24
	Cycle tree trimming			To be completed 2024	97%
	Rank	Substation	Circuit	District	Customers
14	Lynnville Sub	00737-1	Hamburg	1,091	96
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.07	Trees Off Row-Tree	39%	Q4 2023
	SAIDI	2,170.81	Ice	19%	Q1 2024
	SAIFI	3.74	Line Failure	12%	Q2 2024
	CAIDI	581	All Other	29%	Q3 2024
	Customer Minutes	2,368,357			
	Customers Affected	4,075			
	Remedial Action Planned or Taken			Status	Progress
	Upgrade mainline recloser			Complete	Oct-23
	Replace priority mainline pole (3 poles)			Complete	Oct-23
Overhead circuit inspection			To be completed 2024	99%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
15	S Hamb Sub	00740-1	Hamburg	1,285	79
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.03	Trees Off Row-Tree	57%	Q4 2023
	SAIDI	1,824.50	Equipment Failure	15%	Q1 2024
	SAIFI	3.10	Trees Off Row-Limb	14%	Q2 2024
	CAIDI	589	All Other	14%	Q3 2024
	Customer Minutes	2,344,488			
	Customers Affected	3,981			
	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	99%
Rank	Substation	Circuit	District	Customers	Outages
16	Shawnee Sub	00837-3	Stroudsburg	1,280	71
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.83	Trees Off Row-Tree	81%	Q3 2024
	SAIDI	1,739.37	Equipment Failure	9%	
	SAIFI	4.42	Vehicle	4%	
	CAIDI	393	All Other	6%	
	Customer Minutes	2,226,391			
	Customers Affected	5,660			
	Remedial Action Planned or Taken			Status	Progress
	Targeted Forestry Inspection			Complete	Sep-24
	LTIP Engineering Review			Complete	Sep-24
Rank	Substation	Circuit	District	Customers	Outages
17	Fox Hill Subst	00816-3	Stroudsburg	3,346	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.51	Unknown	45%	Q1 2024
	SAIDI	609.16	Trees Off Row-Tree	43%	Q2 2024
	SAIFI	3.91	Trees Off Row-Limb	6%	Q3 2024
	CAIDI	156	All Other	6%	
	Customer Minutes	2,038,245			
	Customers Affected	13,099			
	Remedial Action Planned or Taken			Status	Progress
	Replace Mainline bypass switch			Complete	Jan-24
	Overhead circuit inspection			Complete	Apr-24
PAIR Pole Replacements			Complete	May-24	
Cycle tree trimming			Complete	Jun-24	
Repair/replace high priority items identified during overhead circuit inspection			Complete	Sep-24	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
18	Glendon	00820-3	Easton	299	34	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.46	Trees Off Row-Tree	64%	Q2 2024	
	SAIDI	6,735.06	Trees Off Row-Limb	24%	Q3 2024	
	SAIFI	7.13	Unknown	8%		
	CAIDI	945	All Other	4%		
	Customer Minutes	2,013,784				
	Customers Affected	2,131				
	Remedial Action Planned or Taken				Status	Progress
	LTIIP Engineering Review				Complete	Feb-24
	Replace/repair high priority items identified during overhead circuit patrol				Complete	Feb-24
	Post Storm Forestry Circuit Patrol				Complete	Jul-24
	Forestry Aerial Patrol				Complete	Jul-24
Rank	Substation	Circuit	District	Customers	Outages	
19	North Cornwall Sub	00610-2	Lebanon	2,342	78	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.35	Trees Off Row-Tree	40%	Q1 2024	
	SAIDI	832.18	Trees Off Row-Limb	27%	Q2 2024	
	SAIFI	4.87	Forced Outage	21%	Q3 2024	
	CAIDI	171	All Other	12%		
	Customer Minutes	1,948,975				
	Customers Affected	11,415				
	Remedial Action Planned or Taken				Status	Progress
	Cycle tree trimming				To be completed 2024	92%
	Overhead circuit inspection				To be completed 2024	59%
	Rank	Substation	Circuit	District	Customers	Outages
	20	Glendon	00805-3	Easton	1,004	25
S Hamb Sub		00741-1		Hamburg		
SAIDI Impact		3.27	Trees Off Row-Tree	83%	Q2 2024	
SAIDI		1,892.62	Trees Off Row-Limb	10%	Q3 2024	
SAIFI		2.23	Unknown	4%		
CAIDI		850	All Other	3%		
Customer Minutes		1,900,186				
Customers Affected		2,235				
Remedial Action Planned or Taken				Status	Progress	
LTIIP Engineering Review				Complete	Feb-24	
Forestry Aerial Patrol				Complete	Jul-24	
Repair/Replace high priority items identified during circuit inspection				Complete	Sep-24	
Cycle Tree Trimming				To be completed 2024	0%	

Met-Ed					
21	Substation	Circuit	District	Customers	Outages
	Lickdale Substation	00625-2	Lebanon	1,022	131
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.15	Trees Off Row-Tree	68%	Q1 2024
	SAIDI	1,789.60	Unknown	14%	Q3 2024
	SAIFI	6.02	Trees Off Row-Limb	8%	
	CAIDI	297	All Other	10%	
	Customer Minutes	1,828,971			
	Customers Affected	6,154			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Aug-24
Rank	Substation	Circuit	District	Customers	Outages
22	Walker Sub	00865-3	Stroudsburg	2,950	79
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.10	Trees Off Row-Tree	89%	Q4 2023
	SAIDI	610.80	Unknown	4%	Q3 2024
	SAIFI	2.20	Vehicle	2%	
	CAIDI	277	All Other	4%	
	Customer Minutes	1,801,863			
	Customers Affected	6,497			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Oct-23
	Cycle tree trimming			Complete	Feb-24
	Engineering Circuit Rehab Project Review			Complete	Feb-24
Repair/Replace high priority items identified during circuit inspection			Complete	Jul-24	
Rank	Substation	Circuit	District	Customers	Outages
23	Raubsville St	00079-3	Easton	800	44
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.08	Trees Off Row-Tree	57%	Q1 2024
	SAIDI	2,238.59	Trees On Row	20%	Q2 2024
	SAIFI	2.10	Wind	11%	Q3 2024
	CAIDI	1,066	All Other	13%	
	Customer Minutes	1,790,873			
	Customers Affected	1,680			
	Remedial Action Planned or Taken			Status	Progress
	Replace/repair high priority items identified during overhead circuit patrol			Complete	Apr-24
	Replace priority mainline poles identified during annual pole inspection			Complete	May-24
	Cycle Tree Trimming			Complete	Sep-24

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
24	Stroudsburg	00610-3	Stroudsburg	909	21
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.05	Trees Off Row-Tree	35%	Q1 2024
	SAIDI	1,947.76	Vehicle	20%	Q2 2024
	SAIFI	6.40	Unknown	14%	Q3 2024
	CAIDI	304	All Other	31%	
	Customer Minutes	1,770,517			
	Customers Affected	5,820			
	Remedial Action Planned or Taken			Status	Progress
	Replace/Repair priority poles identified during annual pole inspection			Complete	Oct-23
25	S Hamb Sub	00743-1	Hamburg	1,181	74
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.03	Trees Off Row-Tree	74%	Q1 2024
	SAIDI	1,493.45	Equipment Failure	20%	Q2 2024
	SAIFI	2.47	Trees Off Row-Limb	4%	Q3 2024
	CAIDI	604	All Other	2%	
	Customer Minutes	1,763,760			
	Customers Affected	2,922			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			To be completed 2024	95%
26	Round Top	00582-4	Dillsburg	730	69
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.02	Trees Off Row-Tree	81%	Q1 2024
	SAIDI	2,406.49	Forced Outage	5%	Q2 2024
	SAIFI	5.08	Unknown	5%	Q3 2024
	CAIDI	474	All Other	9%	
	Customer Minutes	1,756,740			
	Customers Affected	3,706			
	Remedial Action Planned or Taken			Status	Progress
	Cycle Tree Trimming			Complete	Aug-24

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
27	Mountain Substation	00743-4	Dillsburg	1,038	60
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.01	Trees Off Row-Tree	68%	Q4 2023
	SAIDI	1,683.88	Equipment Failure	9%	Q1 2024
	SAIFI	7.17	Trees Off Row-Limb	5%	Q2 2024
	CAIDI	235	All Other	18%	Q3 2024
	Customer Minutes	1,747,865			
	Customers Affected	7,446			
	Remedial Action Planned or Taken			Status	Progress
	Engineering circuit tie addition review			Complete	Jan-24
	Overhead circuit inspection			Complete	Sep-24
Rank	Substation	Circuit	District	Customers	Outages
28	Birdsboro	00756-1	Reading	1,537	137
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.01	Trees Off Row-Tree	57%	Q4 2023
	SAIDI	1,136.88	Trees Off Row-Limb	28%	Q1 2024
	SAIFI	5.03	Unknown	6%	Q2 2024
	CAIDI	226	All Other	9%	Q3 2024
	Customer Minutes	1,747,384			
	Customers Affected	7,738			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Nov-23
	Targeted tree trimming and removals			Complete	Sep-24
Rank	Substation	Circuit	District	Customers	Outages
29	Richmond Subst	00104-3	Easton	521	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.00	Trees Off Row-Tree	40%	Q4 2023
	SAIDI	3,349.88	Line Failure	18%	Q1 2024
	SAIFI	3.86	Trees On Row	14%	Q2 2024
	CAIDI	869	All Other	27%	Q3 2024
	Customer Minutes	1,745,286			
	Customers Affected	2,009			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry trimming			Complete	Oct-23
	Install switch			Complete	Feb-24
Mainline relocation LTIP Engineering Review			Complete	Feb-24	
Replace/repair high priority items identified during overhead circuit patrol			Complete	Jun-24	
Cycle tree trimming			To be completed 2024	80%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
30	Fleetwood Sub	00161-1	Reading	686	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.91	Trees Off Row-Tree	76%	Q3 2024
	SAIDI	2,464.09	Trees Off Row-Limb	9%	
	SAIFI	4.03	Unknown	8%	
	CAIDI	612	All Other	7%	
	Customer Minutes	1,690,369			
	Customers Affected	2,764			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Dec-23
Rank	Substation	Circuit	District	Customers	Outages
31	Shawnee Sub	00899-3	Stroudsburg	1,703	63
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.84	Trees Off Row-Tree	82%	Q4 2023
	SAIDI	970.57	Trees Off Row-Limb	8%	Q1 2024
	SAIFI	3.83	Animal	4%	Q2 2024
	CAIDI	253	All Other	6%	Q3 2024
	Customer Minutes	1,652,881			
	Customers Affected	6,528			
	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
	Replace priority mainline poles identified during annual pole inspection			Complete	Jun-24
	Forestry Aerial Patrol			Complete	Jul-24
Upgrade Supervisory Control and Data Acquisition (SCADA) devices (2 devices)			Complete	Sep-24	
Rank	Substation	Circuit	District	Customers	Outages
32	S Nazareth	00809-3	Easton	3,207	78
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.82	Trees Off Row-Tree	47%	Q2 2024
	SAIDI	511.84	Line Failure	24%	Q3 2024
	SAIFI	2.76	Unknown	9%	
	CAIDI	186	All Other	20%	
	Customer Minutes	1,641,465			
	Customers Affected	8,841			
	Remedial Action Planned or Taken			Status	Progress
	Repair/Replace high priority items identified during circuit inspection			Complete	Dec-23
Cycle tree trimming			Complete	Sep-24	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
33	Shawnee Sub	00860-3	Stroudsburg	3,266	52
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.82	Trees Off Row-Tree	43%	2Q 2023
	SAIDI	501.69	Trees Off Row-Limb	24%	3Q 2023
	SAIFI	2.52	Unknown	20%	4Q 2023
	CAIDI	199	All Other	12%	1Q 2024
	Customer Minutes	1,638,506			
	Customers Affected	8,240			
	Remedial Action Planned or Taken			Status	Progress
	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	Lyons Sub	00729-1	Reading	1,364	111
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.80	Trees Off Row-Tree	58%	Q4 2023
	SAIDI	1,194.11	Unknown	18%	Q1 2024
	SAIFI	3.32	Equipment Failure	9%	Q2 2024
	CAIDI	359	All Other	15%	Q3 2024
	Customer Minutes	1,628,771			
	Customers Affected	4,534			
	Remedial Action Planned or Taken			Status	Progress
	Targeted tree removals (Schweitz Rd)			Complete	Oct-23
	Targeted tree trimming and removals			Complete	Oct-23
	Cycle Tree Trimming			Complete	Sep-24
Rank	Substation	Circuit	District	Customers	Outages
35	W Boyertown Sub	00715-1	Boyertown	1,719	79
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.75	Unknown	58%	1Q 2024
	SAIDI	931.55	Trees Off Row-Tree	24%	
	SAIFI	3.03	Forced Outage	11%	
	CAIDI	307	All Other	6%	
	Customer Minutes	1,601,342			
	Customers Affected	5,210			
	Remedial Action Planned or Taken			Status	Progress
	Install TripSaver			Complete	Aug-24

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
36	Flying Hills Sub	00777-1	Reading	1,803	135
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.75	Trees Off Row-Tree	71%	Q4 2023
	SAIDI	887.26	Trees Off Row-Limb	10%	Q1 2024
	SAIFI	5.00	Trees On Row	5%	Q2 2024
	CAIDI	178	All Other	14%	Q3 2024
	Customer Minutes	1,599,732			
	Customers Affected	9,009			
	Remedial Action Planned or Taken			Status	Progress
	Targeted Mainline Circuit Rehabilitation LTIP (2 rehabs)			Complete	Dec-23
	Cycle Tree Trimming			To be completed 2024	0%
	Replace priority mainline poles identified during annual pole inspection			Complete	Sep-24
Rank	Substation	Circuit	District	Customers	Outages
37	Northwood Sub	00802-3	Easton	539	14
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.61	Trees Off Row-Tree	82%	Q2 2024
	SAIDI	2,817.05	Unknown	17%	Q3 2024
	SAIFI	2.16	Equipment Failure	0%	
	CAIDI	1,302	All Other	0%	
	Customer Minutes	1,518,391			
	Customers Affected	1,166			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Jun-23
	LTIP SCADA Recloser Review			Complete	Sep-24
	Rank	Substation	Circuit	District	Customers
38	W Boyertown Sub	00714-1	Boyertown	1,887	84
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.59	Trees Off Row-Tree	64%	Q4 2023
	SAIDI	797.67	Equipment Failure	24%	Q1 2024
	SAIFI	3.32	Trees Off Row-Limb	4%	Q2 2024
	CAIDI	240	All Other	9%	Q3 2024
	Customer Minutes	1,505,208			
	Customers Affected	6,262			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) devices (2 Devices)			Complete	Jul-24
	Install Recloser			Complete	Sep-24

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
39	Chestnut Hill Sub	00182-3	Easton	570	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.55	Trees Off Row-Tree	90%	Q3 2024
	SAIDI	2,598.34	Trees On Row	3%	
	SAIFI	4.66	Line Failure	3%	
	CAIDI	557	All Other	3%	
	Customer Minutes	1,481,051			
	Customers Affected	2,659			
	Remedial Action Planned or Taken			Status	Progress
	ESSS work request			Complete	Jun-24
	Repair damage caused by a tree			Complete	Aug-24

Met-Ed					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	4Q 2023	1Q 2024	2Q 2024	3Q 2024
Mc Knights Gap Sub	00774-1	X	X		
Painted Sky	00650-1	X	X		
Lorane	00560-1	X	X	X	
Fox Hill Subst	00852-3	X	X	X	
Flying Hills Sub	00776-1	X	X		
Ringing Rocks Sub	00708-1		X	X	
Mohnton Sub Sta	00144-1	X	X		
Carsonia Sub	00764-1	X	X		
Birdsboro	00757-1	X	X		
Raubsville St	00095-3	X	X	X	
Angelica Sub	00129-1	X	X	X	
Ferndale Sub	00078-3	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
Flying Hills Sub	00776-1	Cycle tree trimming	To be completed 2024	0%
Fox Hill Subst	00852-3	Cycle tree trimming	Complete	Aug-24
Barto	00705-1	Cycle tree trimming	To be completed 2024	84%
Mc Knights Gap Sub	00774-1	Cycle tree trimming	To be completed 2024	0%
Windsor	00797-4	Replace/repair high priority items identified during overhead circuit patrol	To be completed 2024	82%
Raubsville St	00095-3	Cycle tree trimming	Complete	Sep-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
1	Grover	00527-63	Towanda	1,108	84
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.86	Trees Off Row-Tree	81%	Q4 2023
	SAIDI	3,132.25	Wind	9%	Q1 2024
	SAIFI	3.65	Vehicle	4%	Q2 2024
	CAIDI	859.04	All Other	6%	Q3 2024
	Customer Minutes	3,470,535			
	Customers Affected	4,040			
	Remedial Action Planned or Taken			Status	Progress
	Pole replacements			Complete	Dec-23
	Repair damage caused by trees			Complete	Jan-24
	Capacitor inspection			Complete	May-24
	Cap pole replacement			Complete	Sep-24
Rank	Substation	Circuit	District	Customers	Outages
2	Thompson	00436-65	Montrose	1,390	84
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.14	Trees Off Row-Tree	66%	Q1 2024
	SAIDI	1,337.09	Line Failure	9%	Q2 2024
	SAIFI	3.26	Overload	8%	Q3 2024
	CAIDI	410.19	All Other	17%	
	Customer Minutes	1,858,562			
	Customers Affected	4,531			
	Remedial Action Planned or Taken			Status	Progress
	Install duples power source			Complete	Dec-23
	Install Tripsavers (LTIP)			Complete	May-24
	Circuit inspection			Complete	Jun-24
	10 pole replacements (LTIP)			Complete	May-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
3	Thompson	00446-65	Montrose	1,290	114
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.85	Trees Off Row-Tree	60%	Q1 2024
	SAIDI	1,310.17	Equipment Failure	13%	Q2 2024
	SAIFI	4.30	Line Failure	12%	Q3 2024
	CAIDI	304.80	All Other	15%	
	Customer Minutes	1,690,121			
	Customers Affected	5,545			
	Remedial Action Planned or Taken			Status	Progress
	Install fault indicators			Complete	Dec-23
	Circuit inspection			Complete	May-24
	Install Tripsavers			Complete	May-24
	CEMI Tripsaver installations (LTIIP)			Complete	Jun-24
	On cycle tree trimming			To Be Completed 2024	3%
Rank	Substation	Circuit	District	Customers	Outages
4	Lake Como	00788-65	Montrose	662	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.74	Trees Off Row-Tree	92%	Q1 2024
	SAIDI	2,452.80	Wind	5%	Q2 2024
	SAIFI	4.49	Equipment Failure	2%	Q3 2024
	CAIDI	545.98	All Other	1%	
	Customer Minutes	1,623,751			
	Customers Affected	2,974			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Mar-24
	Capacitor replacement			Complete	Jul-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
5	Madera	00166-22	Philipsburg	2,182	97
	Reliability		Outage by Cause		Previously Ranked
	vSAIDI Impact	2.62	Trees Off Row-Tree	54%	Q1 2024
	SAIDI	1,204.95	Line Failure	13%	Q2 2024
	SAIFI	4.21	Equipment Failure	12%	
	CAIDI	286.14	All Other	21%	
	Customer Minutes	1,553,186			
	Customers Affected	5,428			
	Remedial Action Planned or Taken			Status	Progress
	RC Switch inspection			Complete	May-24
	Recloser inspection			Complete	Feb-24
	CEMI (LTIP)			Complete	Sep-24
	On cycle tree trimming			To Be Completed 2024	78%
Rank	Substation	Circuit	District	Customers	Outages
6	Lake Como	00787-65	Montrose	961	46
	SAIDI Impact		2.96		Trees Off Row-Tree
	SAIDI Impact	2.56	Trees Off Row-Tree	69%	Q3 2024
	SAIDI	1,581.08	Wind	12%	
	SAIFI	3.74	Line Failure	9%	
	CAIDI	423.00	All Other	10%	
	Customer Minutes	1,519,419			
	Customers Affected	3,592			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jul-24
Rank	Substation	Circuit	District	Customers	Outages
7	Russell Hill	00282-65	Montrose	1,053	58
	Russell Hill		00282-65		Montrose
	SAIDI Impact	2.55	Trees Off Row-Tree	29%	Q4 2023
	SAIDI	1,434.89	Animal	27%	Q1 2024
	SAIFI	4.20	Vehicle	16%	Q2 2024
	CAIDI	341.77	All Other	28%	Q3 2024
	Customer Minutes	1,510,944			
	Customers Affected	4,421			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by animal			Complete	Dec-23
Repair damage caused by vehicle			Complete	Mar-24	
Recloser inspection			Complete	Jan-24	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
8	Thompson	00442-65	Montrose	677	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.27	Trees Off Row-Tree	75%	Q2 2024
	SAIDI	1,989.11	Wind	9%	Q3 2024
	SAIFI	6.78	Line Failure	9%	
	CAIDI	293.57	All Other	7%	
	Customer Minutes	1,346,627			
	Customers Affected	4,587			
	Remedial Action Planned or Taken			Status	Progress
	Replace 15kva insl and section of wire			Complete	Nov-23
	Test Tripsaver and install fault indicator			Complete	Feb-24
	Replace control			Complete	May-24
	On cycle tree trimming			To Be Completed 2024	99%
Rank	Substation	Circuit	District	Customers	Outages
9	Tiffany	00435-65	Montrose	1,304	41
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.18	Trees Off Row-Tree	84%	Q4 2023
	SAIDI	989.91	Forced Outage	8%	Q1 2024
	SAIFI	3.22	Equipment Failure	5%	Q2 2024
	CAIDI	307.56	All Other	4%	Q3 2024
	Customer Minutes	1,290,838			
	Customers Affected	4,197			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by storm			Complete	Jan-24
	Install remote vacuum switches and transformer (LTIIP)			Complete	Apr-24
	Pole replacements			Complete	May-24
	Replace electronic recloser batteries			Complete	Sep-24
Rank	Substation	Circuit	District	Customers	Outages
10	Falls	00297-65	Montrose	843	41
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.16	Trees Off Row-Tree	80%	Q4 2023
	SAIDI	1,516.05	Unknown	12%	Q1 2024
	SAIFI	3.46	Line Failure	7%	Q2 2024
	CAIDI	438.13	All Other	1%	Q3 2024
	Customer Minutes	1,278,026			
	Customers Affected	2,917			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Aug-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
11	Warren South	00220-41	Warren	2,844	88
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.27	Trees Off Row-Tree	74%	Q3 2023
	SAIDI	959.43	Unknown	21%	Q4 2023
	SAIFI	2.89	Equipment Failure	2%	Q1 2024
	CAIDI	331.46	All Other	3%	Q2 2024
	Customer Minutes	1,346,078			
	Customers Affected	4,061			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Feb-24
	Tripsaver deployment at one site			Complete	Dec-23
	On cycle tree trimming			Complete	Sep-24
	Install advanced Dx protective devices			Complete	Aug-24
	Tripsaver deployment at 6 sites			Complete	Aug-24
Rank	Substation	Circuit	District	Customers	Outages
12	Springboro	00237-52	Meadville	2,836	95
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.95	Trees Off Row-Tree	49%	Q4 2023
	SAIDI	408.46	Wind	31%	Q1 2024
	SAIFI	2.33	Animal	9%	Q2 2024
	CAIDI	175.01	All Other	11%	Q3 2024
	Customer Minutes	1,158,379			
	Customers Affected	6,619			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Jan-24
	Cap pole replacement deployed at seven sites			Complete	May-24
	Repair damage caused by trees			Complete	Aug-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
13	Laurel Lake Sub Tran	00449-65	Montrose	542	50
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.94	Trees Off Row-Tree	66%	Q4 2023
	SAIDI	2,116.85	Equipment Failure	18%	Q1 2024
	SAIFI	8.61	Vehicle	5%	Q2 2024
	CAIDI	245.79	All Other	1%	Q3 2024
	Customer Minutes	1,147,333			
	Customers Affected	4,668			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Nov-23
	Circuit inspection			Complete	Apr-24
	Targeted Circuit Rehab			Complete	Apr-24
	Repair damaged equipment			Complete	Mar-24
	Replace moab switch			Complete	May-24
Rank	Substation	Circuit	District	Customers	Outages
14	N Meshoppen Tran	00534-65	Montrose	899	55
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.93	Trees Off Row-Tree	58%	Q4 2023
	SAIDI	1,271.50	Equipment Failure	30%	Q1 2024
	SAIFI	6.75	Line Failure	8%	Q2 2024
	CAIDI	188.35	All Other	3%	Q3 2024
	Customer Minutes	1,143,077			
	Customers Affected	6,069			
	Remedial Action Planned or Taken			Status	Progress
	Targeted Circuit Rehab			Complete	Dec-23
	On cycle tree trimming			Complete	Dec-23
	Repair damage caused by trees			Complete	Jan-24
	Replace poles			Complete	Jun-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
15	Rockwood	00023-12	Somerset	233	11
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.80	Trees Off Row-Tree	99%	Q1 2024
	SAIDI	4,583.01	Equipment Failure	1%	Q2 2024
	SAIFI	4.55	Unknown	0%	Q3 2024
	CAIDI	1,006.45	All Other	0%	
	Customer Minutes	1,067,842			
	Customers Affected	1,061			
	Remedial Action Planned or Taken			Status	Progress
	Pole inspection			Complete	May-24
	ESSS work requests			Complete	May-24
Rank	Substation	Circuit	District	Customers	Outages
16	Hooversville	00019-12	Somerset	1,651	53
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.72	Trees Off Row-Tree	61%	Q1 2024
	SAIDI	618.32	Equipment Failure	30%	Q2 2024
	SAIFI	4.09	Line Failure	5%	Q3 2024
	CAIDI	151.12	All Other	5%	
	Customer Minutes	1,020,848			
	Customers Affected	6,755			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jan-24
	Repair failed equipment/line			Complete	Aug-24
Repair damage caused by trees			Complete	Sep-24	
Rank	Substation	Circuit	District	Customers	Outages
17	Brooklyn	00749-65	Montrose	535	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.70	Trees Off Row-Tree	89%	Q4 2023
	SAIDI	1,882.06	Equipment Failure	6%	Q1 2024
	SAIFI	3.12	Wind	2%	Q2 2024
	CAIDI	603.66	All Other	3%	Q3 2024
	Customer Minutes	1,006,903			
	Customers Affected	1,668			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Nov-23
	Replace anchor			Complete	Jun-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
18	Dubois	00124-23	Dubois	2,103	49
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.65	Trees Off Row-Tree	74%	Q1 2024
	SAIDI	464.77	Animal	11%	Q3 2024
	SAIFI	2.14	Equipment Failure	8%	
	CAIDI	216.96	All Other	6%	
	Customer Minutes	977,408			
	Customers Affected	4,505			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by an animal			Complete	Dec-23
	RC Switch inspection			Complete	Apr-24
Rank	Substation	Circuit	District	Customers	Outages
19	Lenox	00755-65	Montrose	715	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.62	Trees Off Row-Tree	59%	Q4 2023
	SAIDI	1,341.52	Unknown	18%	Q1 2024
	SAIFI	2.73	Equipment Failure	18%	Q2 2024
	CAIDI	492.14	All Other	5%	Q3 2024
	Customer Minutes	959,185			
	Customers Affected	1,949			
	Remedial Action Planned or Taken			Status	Progress
	Restore sectionalizer operation of unknown cause			Complete	Nov-23
	On cycle tree clearing			Complete	Jan-24
	Replace Tripsaver			Complete	Jun-24
Rank	Substation	Circuit	District	Customers	Outages
20	Lake Como	00786-65	Montrose	335	14
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.58	Trees Off Row-Tree	100%	Q1 2024
	SAIDI	2,795.67	Equipment Failure	0%	Q2 2024
	SAIFI	2.09	Unknown	0%	Q3 2024
	CAIDI	1,339.84	All Other	0%	
	Customer Minutes	936,548			
	Customers Affected	699			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Mar-24
	Pole replacements			Complete	Oct-23
	Recloser inspection			Complete	Nov-23

Penelec					
Rank	Substation		District	Customers	Outages
21	Buckeye Blaine	00136-83	Shippensburg	916	62
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.57	Trees Off Row-Tree	59%	Q2 2024
	SAIDI	1,018.11	Line Failure	15%	Q3 2024
	SAIFI	4.03	Wind	13%	
	CAIDI	252.39	All Other	12%	
	Customer Minutes	932,593			
	Customers Affected	3,695			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Jul-23
	Repair line failure			Complete	Jun-24
	Repair damage caused by trees			Complete	Aug-24
Rank	Substation	Circuit	District	Customers	Outages
22	Brookville	00125-23	Dubois	630	34
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.50	Trees Off Row-Tree	83%	Q4 2023
	SAIDI	1,408.35	Line Failure	6%	Q2 2024
	SAIFI	3.43	Trees Off Row-Limb	6%	Q3 2024
	CAIDI	410.96	All Other	5%	
	Customer Minutes	887,263			
	Customers Affected	2,159			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Nov-23
	On cycle tree trimming			To Be Completed 2024	23%
	Rank	Substation	Circuit	District	Customers
23	East Pike	00094-13	Indiana	1,580	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.48	Trees Off Row-Tree	37%	Q3 2024
	SAIDI	555.79	Line Failure	27%	
	SAIFI	7.95	Equipment Failure	26%	
	CAIDI	69.89	All Other	10%	
	Customer Minutes	878,156			
	Customers Affected	12,565			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jul-24
	Repair failed equipment/line			Complete	Sep-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
24	Natl Forge Sw Sta	00577-41	Warren	1,223	39
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.46	Equipment Failure	57%	Q4 2023
	SAIDI	707.59	Trees Off Row-Tree	22%	Q1 2024
	SAIFI	6.00	Trees Off Row-Limb	10%	Q2 2024
	CAIDI	117.98	All Other	11%	Q3 2024
	Customer Minutes	865,384			
	Customers Affected	7,335			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree clearing			Complete	Dec-23
	Repair equipment failure			Complete	Jan-24
	Repair damage caused by trees			Complete	Jul-24
Rank	Substation	Circuit	District	Customers	Outages
25	Ansonia	00740-63	Mansfield Pa	178	22
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.44	Lightning	51%	Q3 2024
	SAIDI	4,803.40	Trees Off Row-Tree	45%	
	SAIFI	6.72	Equipment Failure	3%	
	CAIDI	714.89	All Other	1%	
	Customer Minutes	855,005			
	Customers Affected	1,196			
	Remedial Action Planned or Taken			Status	Progress
	Cap pole replacements			Complete	Jul-24
Rank	Substation	Circuit	District	Customers	Outages
26	Osceola	00318-63	Mansfield Pa	1,079	14
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.35	Lightning	62%	Q3 2024
	SAIDI	739.81	Trees Off Row-Tree	20%	
	SAIFI	4.06	Trees Off Row-Limb	7%	
	CAIDI	182.17	All Other	11%	
	Customer Minutes	798,250			
	Customers Affected	4,382			
	Remedial Action Planned or Taken			Status	Progress
	Replace pole			Complete	Jun-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
27	Oxbow	00555-65	Montrose	752	47
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.32	Trees Off Row-Tree	42%	Q1 2024
	SAIDI	1,044.00	Line Failure	17%	Q2 2024
	SAIFI	4.40	Trees On Row	14%	Q3 2024
	CAIDI	237.04	All Other	27%	
	Customer Minutes	785,090			
	Customers Affected	3,312			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Feb-24
	Underground conductor inspection			Complete	Jul-24
	On cycle tree trimming			Complete	Sep-24
Rank	Substation	Circuit	District	Customers	Outages
28	Tunkhannock	00533-65	Montrose	1,281	61
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.31	Unknown	32%	Q4 2023
	SAIDI	607.21	Trees Off Row-Limb	28%	Q1 2024
	SAIFI	2.05	Trees Off Row-Tree	26%	Q2 2024
	CAIDI	296.21	All Other	14%	Q3 2024
	Customer Minutes	777,838			
	Customers Affected	2,626			
	Remedial Action Planned or Taken			Status	Progress
	Pole replacements			Complete	Feb-24
On cycle tree trimming			Complete	Sep-24	
Rank	Substation	Circuit	District	Customers	Outages
29	Philipsburg	00162-22	Philipsburg	2,794	66
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.28	Equipment Failure	29%	Q3 2024
	SAIDI	271.51	Trees Off Row-Tree	22%	
	SAIFI	4.29	Forced Outage	17%	
	CAIDI	63.31	All Other	32%	
	Customer Minutes	758,601			
	Customers Affected	11,982			
	Remedial Action Planned or Taken			Status	Progress
	RC Switch inspection			Complete	Apr-24
Recloser inspection			Complete	Feb-24	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
30	Osceola	00562-63	Mansfield Pa	338	19	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.25	Trees Off Row-Tree	68%	Q3 2024	
	SAIDI	2,193.17	Equipment Failure	28%		
	SAIFI	2.89	Trees Off Row-Limb	4%		
	CAIDI	757.97	All Other	0%		
	Customer Minutes	741,290				
	Customers Affected	978				
	Remedial Action Planned or Taken				Status	Progress
	Replace cracked insulator				Complete	Mar-24
Rank	Substation	Circuit	District	Customers	Outages	
31	Walnut Street	00522-31	Erie	2,092	20	
	SAIDI Impact		1.17		Trees Off Row-Tree	
	SAIDI Impact	1.24	Equipment Failure	92%	Q2 2024	
	SAIDI	351.58	Unknown	3%	Q3 2024	
	SAIFI	2.02	Trees - Sec/Service	2%		
	CAIDI	173.67	All Other	2%		
	Customer Minutes	735,500				
	Customers Affected	4,235				
	Remedial Action Planned or Taken				Status	Progress
	Equipment repairs				Complete	Apr-24
Rank	Substation	Circuit	District	Customers	Outages	
32	Piney	00523-51	Oil City	1,545	59	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.18	Trees Off Row-Tree	40%	Q1 2024	
	SAIDI	454.42	Trees Off Row-Limb	25%	Q2 2024	
	SAIFI	1.89	Vehicle	13%	Q3 2024	
	CAIDI	240.44	All Other	23%		
	Customer Minutes	702,083				
	Customers Affected	2,920				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees				Complete	Feb-24
	Overhead circuit inspection				Complete	Jun-24
	Remote sectionalizing project deployed at one site				Complete	Jul-24
	Repair damage caused by trees				Complete	Jul-24
Tripsaver deployment at one site				To Be Completed 2024	50%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
33	Shippensburg 1	00630-83	Shippensburg	1,806	49
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.14	Equipment Failure	49%	Q4 2023
	SAIDI	375.60	Line Failure	36%	Q1 2024
	SAIFI	2.50	Ice	7%	Q2 2024
	CAIDI	150.07	All Other	8%	Q3 2024
	Customer Minutes	678,330			
	Customers Affected	4,520			
	Remedial Action Planned or Taken			Status	Progress
	Repair storm damage			Complete	Feb-24
	ESSS work request			Complete	May-24
Rank	Substation	Circuit	District	Customers	Outages
34	Lowell Avenue	00518-31	Erie	900	19
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.12	Line Failure	66%	Q1 2024
	SAIDI	739.94	Wind	14%	Q2 2024
	SAIFI	8.68	Equipment Failure	9%	Q3 2024
	CAIDI	85.21	All Other	11%	
	Customer Minutes	665,943			
	Customers Affected	7,815			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Nov-23
	On cycle tree trimming			Complete	Dec-23
Repair line failure			Complete	Jan-24	
Repair broken neutral			Complete	Aug-24	
Rank	Substation	Circuit	District	Customers	Outages
35	Union City	00208-43	Erie	1,615	76
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.11	Line Failure	32%	Q4 2023
	SAIDI	406.74	Equipment Failure	29%	Q1 2024
	SAIFI	2.68	Forced Outage	19%	Q2 2024
	CAIDI	151.57	All Other	19%	Q3 2024
	Customer Minutes	656,893			
	Customers Affected	4,334			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Jan-24
	All high CMI outages repaired			Complete	Jun-24
Repair broken pole			Complete	Jul-24	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
36	Green Garden	00531-31	Erie	881	7
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.10	Forced Outage	99%	Q2 2024
	SAIDI	741.94	Equipment Failure	0%	Q3 2024
	SAIFI	1.88	Line Failure	0%	
	CAIDI	395.43	All Other	0%	
	Customer Minutes	653,645			
	Customers Affected	1,653			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To Be Completed 2024	0%
	Replace step transformer			Complete	Jun-24
Rank	Substation	Circuit	District	Customers	Outages
37	Tiffany	00440-65	Montrose	1,234	6
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.07	Trees Off Row-Tree	80%	Q3 2024
	SAIDI	513.28	Lightning	18%	
	SAIFI	1.79	Trees Off Row-Limb	2%	
	CAIDI	287.12	All Other	0%	
	Customer Minutes	633,392			
	Customers Affected	2,206			
	Remedial Action Planned or Taken			Status	Progress
	Pole replacements			Complete	Jun-24
Rank	Substation	Circuit	District	Customers	Outages
38	Erie South	00259-31	Erie	2,717	82
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.02	Equipment Failure	48%	Q3 2024
	SAIDI	221.41	Trees Off Row-Tree	34%	
	SAIFI	2.21	Unknown	10%	
	CAIDI	100.19	All Other	8%	
	Customer Minutes	601,570			
	Customers Affected	6,004			
	Remedial Action Planned or Taken			Status	Progress
	Repair faulty insulator			Complete	Jul-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
39	French Road	00219-31	Erie	1,493	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.00	Wind	51%	Q3 2024
	SAIDI	397.54	Trees Off Row-Tree	42%	
	SAIFI	2.03	Animal	2%	
	CAIDI	195.56	All Other	5%	
	Customer Minutes	593,522			
	Customers Affected	3,035			
	Remedial Action Planned or Taken			Status	Progress
	Tree removal			Complete	Sep-24
Rank	Substation	Circuit	District	Customers	Outages
40	Ppl West	PL097-62	Towanda	102	16
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.99	Other Electric Utility	96%	Q4 2023
	SAIDI	5,775.89	Unknown	3%	Q1 2024
	SAIFI	14.54	Trees Off Row-Tree	2%	Q2 2024
	CAIDI	397.26	All Other	0%	Q3 2024
	Customer Minutes	589,141			
	Customers Affected	1,483			
	Remedial Action Planned or Taken			Status	Progress
	Restore operation due to other electric utility			Complete	Mar-24
Upgrade transformer			To Be Completed 2024	50%	
Rank	Substation	Circuit	District	Customers	Outages
41	Eagles Mere	00686-62	Towanda	322	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.99	Trees Off Row-Tree	92%	Q3 2024
	SAIDI	1,823.67	Object Contact With Line	5%	
	SAIFI	2.45	Unknown	1%	
	CAIDI	743.32	All Other	2%	
	Customer Minutes	587,221			
	Customers Affected	790			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Apr-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
42	North Towanda	00521-62	Towanda	1,034	58
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.93	Trees Off Row-Tree	39%	Q2 2024
	SAIDI	533.65	Equipment Failure	26%	Q3 2024
	SAIFI	2.36	Trees Off Row-Limb	19%	
	CAIDI	226.52	All Other	16%	
	Customer Minutes	551,799			
	Customers Affected	2,436			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Jan-24
	Replace poles			Complete	Jun-24
Rank	Substation	Circuit	District	Customers	Outages
43	Saxton	00625-73	Altoona	1,332	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.92	Trees Off Row-Tree	61%	Q2 2024
	SAIDI	410.95	Line Failure	19%	Q3 2024
	SAIFI	1.86	Unknown	11%	
	CAIDI	221.34	All Other	9%	
	Customer Minutes	547,380			
	Customers Affected	2,473			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) switch			To Be Completed 2024	50%
	RC Switch inspection			Complete	Apr-24
Rank	Substation	Circuit	District	Customers	Outages
44	Brookville West	00121-23	Dubois	803	34
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.85	Trees Off Row-Tree	65%	Q3 2024
	SAIDI	630.48	Vehicle	19%	
	SAIFI	2.22	Unknown	14%	
	CAIDI	283.63	All Other	3%	
	Customer Minutes	506,275			
	Customers Affected	1,785			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Mar-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
45	Logan	00700-81	Lewistown	1,019	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.81	Trees Off Row-Tree	95%	Q3 2024
	SAIDI	470.61	Unknown	3%	
	SAIFI	2.10	Ice	1%	
	CAIDI	223.98	All Other	1%	
	Customer Minutes	479,547			
	Customers Affected	2,141			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Apr-23
	Repair damage caused by trees			Complete	Aug-24
Rank	Substation	Circuit	District	Customers	Outages
46	N Meshoppen Tran	00530-65	Montrose	624	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.78	Line Failure	49%	Q3 2024
	SAIDI	737.36	Trees Off Row-Tree	48%	
	SAIFI	3.24	Unknown	2%	
	CAIDI	227.55	All Other	2%	
	Customer Minutes	460,112			
	Customers Affected	2,022			
	Remedial Action Planned or Taken			Status	Progress
	Replace poles			Complete	Aug-24
	Rank	Substation	Circuit	District	Customers
47	Platea	00432-34	Erie	644	67
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.74	Trees Off Row-Tree	47%	Q4 2023
	SAIDI	682.45	Line Failure	24%	Q1 2024
	SAIFI	5.00	Vehicle	11%	Q2 2024
	CAIDI	136.40	All Other	18%	Q3 2024
	Customer Minutes	439,495			
	Customers Affected	3,222			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Nov-23
	On cycle tree trimming			Complete	Dec-23
	Repaired high side fuses			Complete	Feb-24
Pole replacement			Complete	Mar-24	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
48	Edgewood	00089-13	Indiana	908	29
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.70	Trees Off Row-Tree	42%	Q3 2024
	SAIDI	460.05	Vehicle	36%	
	SAIFI	3.41	Line Failure	9%	
	CAIDI	135.05	All Other	13%	
	Customer Minutes	417,721			
	Customers Affected	3,093			
	Remedial Action Planned or Taken			Status	Progress
	ESSS work requests			Complete	Feb-24
	Repair damage caused by trees			Complete	Aug-24
Rank	Substation	Circuit	District	Customers	Outages
49	Dushore	00641-62	Towanda	94	16
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.70	Equipment Failure	93%	Q3 2024
	SAIDI	4,440.18	Trees Off Row-Tree	4%	
	SAIFI	15.00	Unknown	3%	
	CAIDI	296.01	All Other	1%	
	Customer Minutes	417,377			
	Customers Affected	1,410			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jul-24
	Rank	Substation	Circuit	District	Customers
50	Rockton Mountain	00138-21	Clearfield	506	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.69	Trees Off Row-Tree	87%	Q1 2024
	SAIDI	810.83	Equipment Failure	8%	Q2 2024
	SAIFI	2.88	Unknown	2%	Q3 2024
	CAIDI	281.40	All Other	3%	
	Customer Minutes	410,281			
	Customers Affected	1,458			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit rehab (LTIIP)			Complete	Oct-23
	On cycle tree trimming			To Be Completed 2024	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
51	Spangler	00052-72	Altoona	1,509	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.69	Line Failure	65%	Q2 2024
	SAIDI	270.85	Trees Off Row-Tree	29%	Q3 2024
	SAIFI	2.09	Equipment Failure	5%	
	CAIDI	129.79	All Other	1%	
	Customer Minutes	408,714			
	Customers Affected	3,149			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To Be Completed 2024	78%
Rank	Substation	Circuit	District	Customers	Outages
52	Timblin	00103-23	Dubois	712	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.68	Equipment Failure	59%	Q4 2023
	SAIDI	564.21	Forced Outage	22%	Q1 2024
	SAIFI	4.91	Trees Off Row-Tree	9%	Q2 2024
	CAIDI	114.94	All Other	9%	Q3 2024
	Customer Minutes	401,716			
	Customers Affected	3,495			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Dec-23
RC Switch inspection			Complete	May-24	
Rank	Substation	Circuit	District	Customers	Outages
53	Cooper	00069-11	Johnstown	697	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.67	Trees Off Row-Tree	80%	Q3 2024
	SAIDI	565.90	Line Failure	11%	
	SAIFI	3.30	Equipment Failure	4%	
	CAIDI	171.72	All Other	6%	
	Customer Minutes	394,433			
	Customers Affected	2,297			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Feb-24
Overhead circuit inspection			Complete	Mar-24	
ESSS work requests			Complete	Sep-24	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
54	Tower Hill	00581-63	Mansfield Pa	487	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.67	Trees Off Row-Tree	57%	Q3 2024
	SAIDI	809.47	Line Failure	34%	
	SAIFI	3.44	Lightning	5%	
	CAIDI	235.07	All Other	4%	
	Customer Minutes	394,211			
	Customers Affected	1,677			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	May-24
Rank	Substation	Circuit	District	Customers	Outages
55	Laurel Lake Sub Tran	00769-65	Montrose	497	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.67	Trees Off Row-Tree	86%	Q2 2024
	SAIDI	793.07	Forced Outage	5%	Q3 2024
	SAIFI	3.84	Lightning	4%	
	CAIDI	206.69	All Other	5%	
	Customer Minutes	394,157			
	Customers Affected	1,907			
	Remedial Action Planned or Taken			Status	Progress
	Replace fault indicators			Complete	Sep-24
Rank	Substation	Circuit	District	Customers	Outages
56	Front Street	00233-31	Erie	677	6
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.65	Vehicle	42%	Q3 2024
	SAIDI	572.40	Equipment Failure	37%	
	SAIFI	3.10	Line Failure	18%	
	CAIDI	184.80	All Other	3%	
	Customer Minutes	387,518			
	Customers Affected	2,097			
	Remedial Action Planned or Taken			Status	Progress
	Repair pole			Complete	Aug-24

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
57	Hammett	00502-31	Erie	1,542	66
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.64	Wind	61%	Q3 2024
	SAIDI	246.74	Line Failure	15%	
	SAIFI	2.81	Vehicle	9%	
	CAIDI	87.93	All Other	15%	
	Customer Minutes	380,466			
	Customers Affected	4,327			
	Remedial Action Planned or Taken			Status	Progress
	Repair storm damage			Complete	Apr-24
Rank					
Substation					
Circuit					
District					
Customers					
Outages					
58	Fairview East	00218-34	Erie	1,040	19
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.64	Trees Off Row-Limb	62%	Q1 2024
	SAIDI	362.98	Forced Outage	32%	Q2 2024
	SAIFI	2.03	Trees Off Row-Tree	4%	Q3 2024
	CAIDI	178.66	All Other	2%	
	Customer Minutes	377,502			
	Customers Affected	2,113			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Jun-24
On cycle tree trimming			To Be Completed 2024	96%	
Rank					
Substation					
Circuit					
District					
Customers					
Outages					
59	Roxbury Trans Sub	00618-83	Shippensburg	379	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.64	Trees Off Row-Tree	51%	Q3 2024
	SAIDI	995.26	Forced Outage	19%	
	SAIFI	3.11	Animal	18%	
	CAIDI	319.94	All Other	12%	
	Customer Minutes	377,205			
	Customers Affected	1,179			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Apr-24
ESSS work requests			Complete	May-24	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
60	N Meshoppen Tran	00531-65	Montrose	438	56
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.61	Trees Off Row-Tree	49%	Q4 2023
	SAIDI	828.71	Equipment Failure	20%	Q1 2024
	SAIFI	2.66	Trees Off Row-Limb	14%	Q3 2024
	CAIDI	311.03	All Other	17%	
	Customer Minutes	362,974			
	Customers Affected	1,167			
	Remedial Action Planned or Taken			Status	Progress
	Targeted Circuit Rehab			Complete	Oct-23
	Repair damage caused by trees			Complete	Jan-24
Rank	Substation	Circuit	District	Customers	Outages
61	Vail	00647-22	Philipsburg	590	16
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.61	Trees Off Row-Tree	47%	Q1 2024
	SAIDI	614.81	Equipment Failure	36%	Q2 2024
	SAIFI	2.92	Lightning	17%	Q3 2024
	CAIDI	210.53	All Other	1%	
	Customer Minutes	362,740			
	Customers Affected	1,723			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Sep-23
	Overhead circuit inspection			Complete	Apr-24
Rank	Substation	Circuit	District	Customers	Outages
62	Bellwood North	00934-22	Philipsburg	865	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.61	Forced Outage	71%	Q2 2024
	SAIDI	415.92	Overload	21%	Q3 2024
	SAIFI	2.44	Unknown	3%	
	CAIDI	170.51	All Other	4%	
	Customer Minutes	359,775			
	Customers Affected	2,110			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Apr-24

Penelec					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	3Q 2023	4Q 2023	1Q 2024	2Q 2024
Ashville	00061-71	X		X	
Athens	00511-61	X	X		
Athens	00514-61		X	X	
Avery	00791-65	X	X	X	
Blairsville East	00080-13	X	X	X	
Bradford South	00106-42	X	X		
Crown	00519-51	X	X		
East Sayre	00518-61	X	X	X	
East Towanda	00525-62	X	X	X	
Edinboro	00420-34	X	X		
Grandview	00354-51	X	X		
Industrial Park	00796-65	X	X		
Lewis Run	00409-42	X	X	X	
Madera	00147-22	X		X	
Marienville	00327-51	X	X	X	
Marienville	00328-51		X	X	
Meshoppen	00283-65	X	X	X	
Meyersdale North	00022-12	X	X	X	
Mount Union	00154-82	X	X		
North Warren	00207-41	X	X	X	
North Warren	00596-41	X	X		
Northeast	00592-31	X	X		
Port Allegany	00151-42		X	X	
Rolling Meadows	00249-31	X	X	X	
Salix	00070-11	X		X	
Union City	00206-43	X	X		

Penelac				
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
Union City	00206-43	On cycle tree clearing	In Progress	65%
Mercer Pike	00473-52	On cycle tree clearing	Completed	Sep-24
Lewis Run	00409-42	On cycle tree clearing	Completed	Sep-24
Edinboro	00420-34	On cycle tree clearing	Completed	Sep-24
Industrial Park	00796-65	On cycle tree clearing	Completed	Sep-24
Northeast	00592-31	On cycle tree clearing	Completed	Sep-24
Division Street	00561-31	On cycle tree clearing	Completed	Sep-24
Warren Eddy Sub	00249-31	Install advanced Dx protective devices	Complete	Sep-24
Warren Eddy Sub	00249-31	Install advanced Dx protective devices	In Progress	50%
Tionesta	00344-51	Install advanced Dx protective devices	Complete	Jul-24
Scalp Level	00932-11	Install advanced Dx protective devices	In Progress	75%
Scalp Level	00932-11	Install advanced Dx protective devices	Complete	Sep-24
Meysdale North	00022-12	Install advanced Dx protective devices	Complete	Sep-24
Meysdale North	00022-12	Install advanced Dx protective devices	Complete	Sep-24
Meshoppen	00283-65	Targeted Circuit Rehab	In Progress	50%
Athens	00511-61	Targeted Circuit Rehab	In Progress	50%
Laurel Pipeline	00036-71	Distribution sectionalizing (LTIP)	Complete	Sep-24
Rachel Hill	00049-11	On cycle tree trimming	In Progress	15%
Laurel Pipeline	00036-71	On cycle tree trimming	Complete	Sep-24
Blairsville East	00080-13	Remote sectionalizing (LTIP)	In Progress	50%
Rachel Hill	00049-11	Underground conductor improvement (LTIP)	In Progress	50%
Athens	00514-61	Install remote sectionalizers	In progress	50%
Farmers Valley	00414-42	Replace priority pole	Complete	Sep-24
Port Allegany	00151-42	Replace priority pole	In progress	50%
Strodes Mill	00113-81	On cycle tree trimming	In progress	85%
Marienville	00327-51	UG conductor improvement (LTIP)	In progress	50%

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
1	Chippewa	D-557	Zelienople	1,323	50	
	Chippewa		D-557		Zelienople	
	SAIDI Impact	3.83	Trees Off Row-Tree	88%	Q3 2024	
	SAIDI	507.50	Trees Off Row-Limb	3%		
	SAIFI	1.24	Forced Outage	3%		
	CAIDI	410	All Other	6%		
	Customer Minutes	671,425				
	Customers Affected	1,638				
	Remedial Action Planned or Taken				Status	Progress
	LTIIP CEMI Project				Complete	May-24
Rank	Substation	Circuit	District	Customers	Outages	
2	Sharpsville	W-218	Clark	1,459	28	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.60	Trees Off Row-Tree	48%	Q4 2023	
	SAIDI	433.43	Vehicle	26%	Q1 2024	
	SAIFI	2.47	Line Failure	24%	Q2 2024	
	CAIDI	175	All Other	1%	Q3 2024	
	Customer Minutes	632,379				
	Customers Affected	3,609				
	Remedial Action Planned or Taken				Status	Progress
	On cycle tree trimming				Complete	Jul-23
	Replace/repair high priority items identified during circuit patrol				Complete	May-24
Rank	Substation	Circuit	District	Customers	Outages	
3	Hartstown	W-126	Clark	2,282	85	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.41	Trees Off Row-Tree	66%	Q4 2023	
	SAIDI	262.38	Trees Off Row-Limb	18%	Q1 2024	
	SAIFI	2.03	Animal	7%	Q2 2024	
	CAIDI	129	All Other	10%	Q3 2024	
	Customer Minutes	598,752				
	Customers Affected	4,636				
	Remedial Action Planned or Taken				Status	Progress
	Replace/repair high priority items identified during circuit patrol				Complete	Apr-24

Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
4	Castlewood	D-325	New Castle	1,139	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.03	Vehicle	73%	Q3 2024
	SAIDI	466.03	Unknown	13%	
	SAIFI	1.20	Trees Off Row-Tree	11%	
	CAIDI	389	All Other	3%	
	Customer Minutes	530,813			
	Customers Affected	1,365			
	Remedial Action Planned or Taken			Status	Progress
	LTIIP CEMI project			Complete	Apr-24
Rank	Substation	Circuit	District	Customers	Outages
5	Mercer	W-167	Clark	1,164	39
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.63	Trees Off Row-Tree	42%	Q3 2024
	SAIDI	396.78	Equipment Failure	24%	
	SAIFI	1.50	Vehicle	18%	
	CAIDI	265	All Other	16%	
	Customer Minutes	461,852			
	Customers Affected	1,745			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Jan-24
Rank	Substation	Circuit	District	Customers	Outages
6	Richard	W742	Zelienople	1,548	22
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.30	Trees Off Row-Tree	64%	Q2 2024
	SAIDI	260.21	Trees Off Row-Limb	15%	Q3 2024
	SAIFI	2.43	Forced Outage	12%	
	CAIDI	107	All Other	9%	
	Customer Minutes	402,804			
	Customers Affected	3,765			
	Remedial Action Planned or Taken			Status	Progress
	Overhead equipment inspection			Complete	Apr-24

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
7	Stoneboro	W-131	Clark	1,576	83	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.27	Trees Off Row-Tree	46%	Q3 2024	
	SAIDI	252.62	Line Failure	18%		
	SAIFI	1.78	Bird	17%		
	CAIDI	142	All Other	20%		
	Customer Minutes	398,134				
	Customers Affected	2,798				
	Remedial Action Planned or Taken				Status	Progress
	Recloser Inspection				Complete	Jul-24
Rank	Substation	Circuit	District	Customers	Outages	
8	Wheatland	W-150	Clark	1,524	15	
	Mercer		W-128		Clark	
	SAIDI Impact	2.24	Trees Off Row-Tree	88%	Q2 2024	
	SAIDI	258.32	Unknown	4%	Q3 2024	
	SAIFI	1.34	Equipment Failure	3%		
	CAIDI	193	All Other	4%		
	Customer Minutes	393,674				
	Customers Affected	2,041				
	Remedial Action Planned or Taken				Status	Progress
	Cap bank repair				Complete	Jun-24
Rank	Substation	Circuit	District	Customers	Outages	
9	Mercer	W-129	Clark	1,173	39	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.96	Trees Off Row-Tree	74%	Q3 2024	
	SAIDI	292.98	Vehicle	7%		
	SAIFI	1.34	Object Contact With Line	6%		
	CAIDI	218	All Other	14%		
	Customer Minutes	343,662				
	Customers Affected	1,577				
	Remedial Action Planned or Taken				Status	Progress
	LTIP Remote Sectionalizing				Complete	Mar-24

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
10	Darlington	D-536	Zelienople	1,181	47	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.94	Trees Off Row-Tree	87%	Q1 2024	
	SAIDI	288.83	Trees Off Row-Limb	5%	Q3 2024	
	SAIFI	1.48	Line Failure	3%		
	CAIDI	196	All Other	5%		
	Customer Minutes	341,108				
	Customers Affected	1,742				
	Remedial Action Planned or Taken				Status	Progress
	On cycle tree trimming				Complete	Feb-24
	Overhead circuit inspection				Complete	May-24

Penn Power					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	4Q 2023	1Q 2024	2Q 2024	3Q 2024
Camp Reynolds	W-134	X	X	X	
Conneaut	W-173	X	X	X	
Mercer	W-128	X	X	X	
Sharpsville	W-219	X	X	X	
Koppel	D-531	X	X		
Seneca	W700	X	X		
Mars	D616		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
Mercer	W-128	Install additional main line recloser	In Progress	50%
Koppel	D-531	On cycle tree trimming	To be completed 2024	0%
Perry	W-156	Replace/repair high priority items identified during circuit patrol	In Progress	50%

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
1	Iron Bridge	Bridgeport	Pleasant Valley	1,280	24	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.53	Tree OFF Row- Tree	97%	Q1 2024	
	SAIDI	2,004.77	Equipment Failure	2%	Q2 2024	
	SAIFI	3.10	Line Failure	0%	Q3 2024	
	CAIDI	647	All Other	1%		
	Customer Minutes	2,566,106				
	Customers Affected	3,965				
	Remedial Action Planned or Taken				Status	Progress
	On cycle tree trimming				Complete	Jul-23
	Underground inspection				Complete	Dec-23
	Recloser Inspection - Counter faded				Complete	Sep-24
Rank	Substation	Circuit	District	Customers	Outages	
2	Weedville	Weedville	St Marys	1,501	36	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.30	Trees Off Row-Tree	91%	Q3 2024	
	SAIDI	1,114.47	Equipment Failure	5%		
	SAIFI	2.03	Line Failure	2%		
	CAIDI	549	All Other	3%		
	Customer Minutes	1,672,825				
	Customers Affected	3,047				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a tree				Complete	May-24
Repair damage caused by a tree				Complete	Jul-24	
Rank	Substation	Circuit	District	Customers	Outages	
3	White Valley	Borlands Rd	Jeannette	1,390	46	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.90	Trees Off Row-Tree	73%	Q2 2024	
	SAIDI	996.38	Unknown	19%	Q3 2024	
	SAIFI	4.27	Forced Outage	5%		
	CAIDI	233	All Other	3%		
	Customer Minutes	1,384,962				
	Customers Affected	5,935				
	Remedial Action Planned or Taken				Status	Progress
Overhead Circuit Inspection				Complete	Aug-24	

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
4	Franklin (Wpp)	South Waynesburg	Jefferson	2,057	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.83	Trees Off Row-Tree	55%	Q4 2023
	SAIDI	645.54	Object Contact With Line	41%	Q1 2024
	SAIFI	2.84	Forced Outage	2%	Q2 2024
	CAIDI	227	All Other	2%	Q3 2024
	Customer Minutes	1,327,885			
	Customers Affected	5,837			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Dec-23
	Underground inspection			Complete	Dec-23
	Distribution circuit protection and sectionalizing (LTIP)			Complete	Nov-23
	ESSS work requests			Complete	Nov-23
	Overhead Circuit Inspection			Complete	Sep-24
Franklin SS LTIP			Complete	Sep-24	
Rank	Substation	Circuit	District	Customers	Outages
5	Finleyville	Gastonville	Charleroi	1,649	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.80	Trees Off Row-Tree	30%	Q2 2024
	SAIDI	795.48	Vehicle	27%	Q3 2024
	SAIFI	3.71	Line Failure	22%	
	CAIDI	214	All Other	21%	
	Customer Minutes	1,311,739			
	Customers Affected	6,118			
	Remedial Action Planned or Taken			Status	Progress
	Overhead Thermography Follow-up			Complete	Apr-24
Overhead circuit inspection			Complete	May-24	
Rank	Substation	Circuit	District	Customers	Outages
6	Normalville	Mill Run	Pleasant Valley	577	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.68	Trees Off Row-Tree	80%	Q4 2023
	SAIDI	2,119.33	Wind	12%	Q1 2024
	SAIFI	3.67	Line Failure	5%	Q2 2024
	CAIDI	578	All Other	3%	Q3 2024
	Customer Minutes	1,222,854			
	Customers Affected	2,115			
	Remedial Action Planned or Taken			Status	Progress
Post storm circuit patrol			Complete	Jan-24	

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
7	Buena Vista	Chicora	Butler	1,148	28	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.62	Trees Off Row-Tree	92%	Q3 2024	
	SAIDI	1,026.16	Forced Outage	7%		
	SAIFI	3.16	Vehicle	0%		
	CAIDI	324	All Other	1%		
	Customer Minutes	1,178,030				
	Customers Affected	3,633				
	Remedial Action Planned or Taken				Status	Progress
	Overhead circuit inspection				Complete	Feb-24
	Underground inspection				Complete	Sep-24
	Rank	Substation	Circuit	District	Customers	Outages
8	Ethel Springs	Pandora	Latrobe	1,984	33	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.62	Trees Off Row-Tree	93%	Q1 2024	
	SAIDI	593.34	Equipment Failure	2%	Q2 2024	
	SAIFI	1.68	Line Failure	2%	Q3 2024	
	CAIDI	353	All Other	3%		
	Customer Minutes	1,177,194				
	Customers Affected	3,334				
	Remedial Action Planned or Taken				Status	Progress
	On cycle tree trimming				Complete	Aug-24
	Install Tollgrade Monitors				Complete	Aug-24
	Rank	Substation	Circuit	District	Customers	Outages
9	Saltsburg	Bell Township	Arnold	755	39	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.56	Trees Off Row-Tree	84%	Q3 2024	
	SAIDI	1,505.73	Forced Outage	11%		
	SAIFI	3.85	Unknown	4%		
	CAIDI	391	All Other	2%		
	Customer Minutes	1,136,824				
	Customers Affected	2,907				
	Remedial Action Planned or Taken				Status	Progress
	ESSS work requests				Complete	Aug-24

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
10	Lake Lynn-Unio	Fancy Hill	Uniontown	923	38	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.51	Trees Off Row-Tree	64%	Q3 2024	
	SAIDI	1,189.56	Forced Outage	12%		
	SAIFI	2.63	Trees Off Row-Limb	10%		
	CAIDI	452	All Other	13%		
	Customer Minutes	1,097,967				
	Customers Affected	2,427				
	Remedial Action Planned or Taken				Status	Progress
	Overhead circuit inspection				Complete	Aug-24
	Rank	Substation	Circuit	District	Customers	Outages
11	Dry Run	Town	Charleroi	1,808	12	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.48	Trees Off Row-Tree	81%	Q3 2024	
	SAIDI	594.85	Vehicle	16%		
	SAIFI	3.22	Equipment Failure	2%		
	CAIDI	185	All Other	1%		
	Customer Minutes	1,075,493				
	Customers Affected	5,815				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a tree				Complete	Jul-24
	Rank	Substation	Circuit	District	Customers	Outages
12	Piney Fork	Stoltz	Charleroi	2,117	20	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.43	Line Failure	82%	Q3 2024	
	SAIDI	489.93	Forced Outage	12%		
	SAIFI	1.56	Vehicle	3%		
	CAIDI	315	All Other	3%		
	Customer Minutes	1,037,192				
	Customers Affected	3,296				
	Remedial Action Planned or Taken				Status	Progress
	Overhead circuit inspection				Complete	Mar-24

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
13	Bethelboro	Coolspring	Uniontown	1,451	38	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.40	Trees Off Row-Tree	64%	Q4 2023	
	SAIDI	700.49	Wind	24%	Q1 2024	
	SAIFI	2.58	Overload	5%	Q2 2024	
	CAIDI	272	All Other	7%	Q3 2024	
	Customer Minutes	1,016,404				
	Customers Affected	3,740				
	Remedial Action Planned or Taken			Status	Progress	
	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	
	Rank	Substation	Circuit	District	Customers	Outages
14	Bentleyville	Ellsworth	Charleroi	1,212	22	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.39	Equipment Failure	40%	Q2 2024	
	SAIDI	835.30	Vehicle	40%	Q3 2024	
	SAIFI	1.76	Trees Off Row-Tree	18%		
	CAIDI	474	All Other	2%		
	Customer Minutes	1,012,384				
	Customers Affected	2,135				
	Remedial Action Planned or Taken			Status	Progress	
	Repair equipment failure			Complete	Jul-24	
	Rank	Substation	Circuit	District	Customers	Outages
	15	Levelgreen	Levelgreen	Jeannette	1,555	32
		Reliability		Outage by Cause		Previously Ranked
SAIDI Impact		1.38	Vehicle	47%	Q2 2024	
SAIDI		645.41	Unknown	34%	Q3 2024	
SAIFI		2.36	Trees Off Row-Tree	18%		
CAIDI		273	All Other	1%		
Customer Minutes		1,003,606				
Customers Affected		3,671				
Remedial Action Planned or Taken			Status	Progress		
ESSS work requests			Complete	Apr-24		
Install Tollgrade Monitors			Complete	Jul-24		

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
16	Penn Trafford	Pleasant Valley	Jeannette	868	20
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.37	Trees Off Row-Tree	87%	Q2 2024
	SAIDI	1,145.55	Unknown	9%	Q3 2024
	SAIFI	3.41	Lightning	2%	
	CAIDI	335	All Other	2%	
	Customer Minutes	994,337			
	Customers Affected	2,964			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To Be Completed 2024	0%
	Rank	Substation	Circuit	District	Customers
17	Parker	Parker	Butler	928	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.33	Trees Off Row-Tree	62%	Q3 2024
	SAIDI	1,042.77	Equipment Failure	17%	
	SAIFI	3.00	Trees Off Row-Limb	11%	
	CAIDI	348	All Other	11%	
	Customer Minutes	967,692			
	Customers Affected	2,781			
	Remedial Action Planned or Taken			Status	Progress
	Infrared inspection			Complete	Oct-23
	Rank	Substation	Circuit	District	Customers
18	Hickory	Fort Cherry	Washington Pa	1,059	33
	SAIDI Impact		1.30		Trees Off Row-Tree
	SAIDI Impact	1.32	Trees Off Row-Tree	76%	Q2 2024
	SAIDI	906.97	Line Failure	20%	Q3 2024
	SAIFI	3.80	Trees Off Row-Limb	2%	
	CAIDI	239	All Other	2%	
	Customer Minutes	960,482			
	Customers Affected	4,020			
	Remedial Action Planned or Taken			Status	Progress
	Replace capacitor banks			Complete	Mar-24
	2024 PAIR pole replacement			Complete	Sep-24

West Penn					
Rank	Substation	Circuit	District	Customers	Outages
19	Bethlen	Laughlintown	Latrobe	1,094	66
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.31	Trees Off Row-Tree	89%	Q4 2023
	SAIDI	872.15	Unknown	6%	Q1 2024
	SAIFI	2.77	Line Failure	2%	Q2 2024
	CAIDI	315	All Other	3%	Q3 2024
	Customer Minutes	954,134			
	Customers Affected	3,026			
	Remedial Action Planned or Taken			Status	Progress
	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
Rank	Substation	Circuit	District	Customers	Outages
20	Iron Bridge	Mt Pleasant	Pleasant Valley	1,109	17
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.31	Trees Off Row-Tree	89%	Q1 2024
	SAIDI	860.25	Unknown	10%	Q2 2024
	SAIFI	2.12	Equipment Failure	1%	Q3 2024
	CAIDI	405	All Other	1%	
	Customer Minutes	954,016			
	Customers Affected	2,354			
	Remedial Action Planned or Taken			Status	Progress
	Post storm circuit patrol			Complete	Jan-24
	Overhead circuit inspection			Complete	Mar-24
	On cycle tree trimming			To Be Completed 2024	99%
	Rank	Substation	Circuit	District	Customers
21	North Washington	Poke Run	Arnold	1,223	56
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.31	Trees Off Row-Tree	81%	Q2 2024
	SAIDI	778.02	Unknown	12%	Q3 2024
	SAIFI	2.44	Animal	4%	
	CAIDI	319	All Other	4%	
	Customer Minutes	951,519			
	Customers Affected	2,987			
	Remedial Action Planned or Taken			Status	Progress
Overhead circuit inspection			Complete	Mar-24	

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
22	White Valley	Congruity	Jeannette	1,725	63	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.29	Trees Off Row-Tree	59%	Q2 2024	
	SAIDI	542.64	Unknown	21%	Q3 2024	
	SAIFI	2.15	Trees On Row	7%		
	CAIDI	252	All Other	13%		
	Customer Minutes	936,049				
	Customers Affected	3,717				
	Remedial Action Planned or Taken				Status	Progress
	On cycle tree trimming				To Be Completed 2024	64%
	Rank	Substation	Circuit	District	Customers	Outages
23	Murrycrest	Sardis Road	Jeannette	1,489	35	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.25	Trees Off Row-Tree	90%	Q1 2024	
	SAIDI	611.76	Line Failure	6%	Q2 2024	
	SAIFI	2.91	Trees Off Row-Limb	3%	Q3 2024	
	CAIDI	210	All Other	1%		
	Customer Minutes	910,907				
	Customers Affected	4,338				
	Remedial Action Planned or Taken				Status	Progress
	Replaced transformer arresstor				Complete	Nov-23
	Overhead circuit inspection				Complete	Mar-24
	ESSS Work - replace damaged arresstor and burnt wire				Complete	Sep-24
Rank	Substation	Circuit	District	Customers	Outages	
24	North Fayette	Oakdale	Boyce	1,384	14	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.22	Line Failure	60%	Q2 2024	
	SAIDI	641.71	Forced Outage	30%	Q3 2024	
	SAIFI	2.16	Trees Off Row-Tree	7%		
	CAIDI	297	All Other	4%		
	Customer Minutes	888,122				
	Customers Affected	2,994				
	Remedial Action Planned or Taken				Status	Progress
	Forced outage to repair damage				Complete	Jun-24
	Underground inspection				Complete	Jun-24

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
25	Lardin	Grays Landing	Uniontown	1,036	49	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.21	Trees Off Row-Tree	71%	Q3 2024	
	SAIDI	848.60	Unknown	17%		
	SAIFI	1.65	Wind	5%		
	CAIDI	515	All Other	7%		
	Customer Minutes	879,147				
	Customers Affected	1,707				
	Remedial Action Planned or Taken				Status	Progress
	Install Tollgrade Monitors				Complete	Mar-24
	ESSS work requests				Complete	May-24
Rank	Substation	Circuit	District	Customers	Outages	
26	Vanceville	Vanceville	Charleroi	1,380	50	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.21	Forced Outage	43%	Q4 2023	
	SAIDI	636.11	Unknown	34%	Q1 2024	
	SAIFI	1.93	Line Failure	8%	Q2 2024	
	CAIDI	330	All Other	15%	Q3 2024	
	Customer Minutes	877,831				
	Customers Affected	2,664				
	Remedial Action Planned or Taken				Status	Progress
	Restore unknown outage				Complete	Oct-23
	ESSS work requests				Complete	Dec-23
	On cycle tree trimming				Complete	Dec-23
Vanceville SS LTIP				Complete	Jun-24	
Rank	Substation	Circuit	District	Customers	Outages	
27	Mackeyville	Salona	State College	766	12	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.14	Trees Off Row-Tree	99%	Q3 2024	
	SAIDI	1,085.65	Unknown	0%		
	SAIFI	1.95	Animal	0%		
	CAIDI	556	All Other	0%		
	Customer Minutes	831,608				
	Customers Affected	1,495				
	Remedial Action Planned or Taken				Status	Progress
	Overhead Circuit Inspection				Complete	Feb-24
	ESSS work request				Complete	Apr-24

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
28	Rutan	New Freeport	Jefferson	656	29	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.14	Trees Off Row-Tree	89%	Q3 2024	
	SAIDI	1,259.77	Unknown	8%		
	SAIFI	3.55	Lightning	2%		
	CAIDI	354	All Other	1%		
	Customer Minutes	826,411				
	Customers Affected	2,332				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a tree				Complete	Sep-24
Rank	Substation	Circuit	District	Customers	Outages	
29	Iron Bridge	Alverton	Pleasant Valley	697	21	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.13	Equipment Failure	48%	Q1 2024	
	SAIDI	1,181.72	Trees Off Row-Tree	25%	Q2 2024	
	SAIFI	2.26	Line Failure	25%	Q3 2024	
	CAIDI	522	All Other	3%		
	Customer Minutes	823,657				
	Customers Affected	1,577				
	Remedial Action Planned or Taken				Status	Progress
	Underground inspection				Complete	Dec-23
	On cycle tree trimming				To Be Completed 2024	9%
Rank	Substation	Circuit	District	Customers	Outages	
30	Houston	Megovern	Washington Pa	2,109	35	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.09	Trees Off Row-Tree	48%	Q4 2023	
	SAIDI	374.29	Forced Outage	20%	Q1 2024	
	SAIFI	2.77	Unknown	12%	Q2 2024	
	CAIDI	135	All Other	21%	Q3 2024	
	Customer Minutes	789,376				
	Customers Affected	5,842				
	Remedial Action Planned or Taken				Status	Progress
	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	5%

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
31	Emporium	Emporium Jct	St Marys	598	29	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.08	Trees Off Row-Tree	66%	Q1 2024	
	SAIDI	1,315.56	Line Failure	14%	Q3 2024	
	SAIFI	4.68	Vehicle	14%		
	CAIDI	281	All Other	6%		
	Customer Minutes	786,707				
	Customers Affected	2,800				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by a tree				Complete	Mar-24
	Repair damage caused by a tree				Complete	Aug-24
Rank	Substation	Circuit	District	Customers	Outages	
32	Smithton	Smithton	Charleroi	982	24	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.07	Trees Off Row-Tree	61%	Q3 2024	
	SAIDI	795.36	Unknown	25%		
	SAIFI	2.28	Line Failure	6%		
	CAIDI	349	All Other	8%		
	Customer Minutes	781,039				
	Customers Affected	2,240				
	Remedial Action Planned or Taken			Status	Progress	
	Underground inspection				Complete	Apr-24
Rank	Substation	Circuit	District	Customers	Outages	
33	Butler	Center Ave	Butler	1,638	13	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.06	Trees Off Row-Tree	68%	Q3 2024	
	SAIDI	472.83	Forced Outage	30%		
	SAIFI	1.52	Line Failure	2%		
	CAIDI	312	All Other	0%		
	Customer Minutes	774,495				
	Customers Affected	2,483				
	Remedial Action Planned or Taken			Status	Progress	
	Infrared inspection				Complete	Oct-23

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
34	Waterville	Waterville	State College	363	22	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.04	Wind	49%	Q4 2023	
	SAIDI	2,087.12	Trees Off Row-Tree	37%	Q1 2024	
	SAIFI	5.71	Unknown	7%	Q2 2024	
	CAIDI	365	All Other	8%	Q3 2024	
	Customer Minutes	757,626				
	Customers Affected	2,074				
	Remedial Action Planned or Taken				Status	Progress
	Underground inspection				Complete	Feb-24
	Restore outage caused by other electric utility				Complete	Jan-24
	Restore outage caused by other electric utility				Complete	Apr-24
	Restore outage caused by other electric utility				Complete	Aug-24
	Mid-cycle overhead inspection				Complete	Aug-24
Rank	Substation	Circuit	District	Customers	Outages	
35	Saxony Farms	Main St	Butler	936	18	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.03	Trees Off Row-Tree	82%	Q3 2024	
	SAIDI	802.97	Line Failure	10%		
	SAIFI	3.18	Forced Outage	6%		
	CAIDI	253	All Other	2%		
	Customer Minutes	751,580				
	Customers Affected	2,976				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a tree				Complete	Apr-24
	Forced outage to repair damage				Complete	Aug-24
Rank	Substation	Circuit	District	Customers	Outages	
36	Houston	Weavertown	Washington Pa	2,323	25	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.02	Trees On Row	59%	Q3 2024	
	SAIDI	318.59	Unknown	29%		
	SAIFI	2.76	Trees Off Row-Tree	7%		
	CAIDI	115	All Other	5%		
	Customer Minutes	740,091				
	Customers Affected	6,413				
	Remedial Action Planned or Taken				Status	Progress
	Underground inspection				Complete	May-24

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
37	South Union	Continental	Uniontown	658	22	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.01	Trees Off Row-Tree	89%	Q3 2024	
	SAIDI	1,116.47	Vehicle	6%		
	SAIFI	1.93	Lightning	3%		
	CAIDI	580	All Other	2%		
	Customer Minutes	734,640				
	Customers Affected	1,267				
	Remedial Action Planned or Taken				Status	Progress
	Overhead Circuit Inspection				Complete	Aug-24
	On cycle tree trimming				Complete	Aug-24
Rank	Substation	Circuit	District	Customers	Outages	
38	Rutan	Bristoria	Jefferson	550	25	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.00	Trees Off Row-Tree	63%	Q4 2023	
	SAIDI	1,317.34	Equipment Failure	15%	Q1 2024	
	SAIFI	3.45	Vehicle	7%	Q2 2024	
	CAIDI	381	All Other	14%	Q3 2024	
	Customer Minutes	724,535				
	Customers Affected	1,900				
	Remedial Action Planned or Taken				Status	Progress
	Forced outage to repair damage				Complete	Oct-23
	Line Rehab (LTIP)				Complete	Jul-23
	ESSS work requests				Complete	Dec-23
Rank	Substation	Circuit	District	Customers	Outages	
39	Charleroi	Commercial	Charleroi	1,454	15	
	SAIDI Impact		1.12		Trees Off Row-Tree	
	SAIDI Impact	0.94	Vehicle	43%	Q3 2024	
	SAIDI	471.03	Equipment Failure	31%		
	SAIFI	2.38	Unknown	19%		
	CAIDI	198	All Other	6%		
	Customer Minutes	684,879				
	Customers Affected	3,466				
	Remedial Action Planned or Taken				Status	Progress
	ESSS work requests				Complete	Jun-24

West Penn						
Rank	Substation	Circuit	District	Customers	Outages	
40	Buckeye No.3	Paisley	Jefferson	653	23	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.92	Trees Off Row-Tree	78%	Q4 2023	
	SAIDI	1,028.62	Unknown	12%	Q3 2024	
	SAIFI	2.75	Human Error -Non-Company	10%		
	CAIDI	374	All Other	1%		
	Customer Minutes	671,690				
	Customers Affected	1,797				
	Remedial Action Planned or Taken				Status	Progress
	Restore outage caused by Human Error (Non-Company)				Complete	Nov-23

West Penn					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	4Q 2023	1Q 2024	2Q 2024	3Q 2024
Bethlen	Darlington	X	X		
Fort Palmer	Oakgrove	X	X		
Peters	Mcmurray	X	X	X	
Connellsville	West Side		X	X	
Amity	Amity	X	X	X	
Amity	Banetown	X	X	X	
Piney Fork	Knothole	X	X	X	
Normalville	Indianhead	X	X	X	
Frazier	Perry	X	X		
Frazier	Star Junction	X	X		
Dutch Fork	Claysville	X	X	X	
Pangburn Hill	Pangburn Hill	X	X	X	
Footedale	Footedale	X	X	X	
Roundhill	Roundhill	X		X	
Charleroi	Warner	X	X	X	
Gordon	Wolfdale	X	X		
Smith	Florence		X	X	
Kane	Russell City		X	X	
Brave	Spragg		X	X	
Driftwood	Driftwood		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
Charleroi	Warner	Overhead circuit inspection	Complete	Sep-24
Amity	Amity	On cycle tree trimming	Complete	Sep-24
Brave	Spragg	On cycle tree trimming	Complete	Sep-24
Tri Town	Vanderbilt	On cycle tree trimming	Complete	Jul-24
Driftwood	Driftwood	Circuit rehab (LTIIP)	Complete	Jul-24
Charleroi	Warner	On cycle tree trimming	In progress	97%
Crossgates	Peters Twp	Install circuit tie (LTIIP)	In progress	75%

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			
3rd Quarter 2024 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	7	\$29,944	\$5,972.00
Excavated in Tolerance	9	\$30,630	\$15,736.00
Excavation Inconsistent with Ticket Scope			
Excavation Prior to Lawful Start Date	1	\$1,257	\$0.00
Expired Ticket	1	\$1,572	\$0.00
Hand Digging			
Marked Improperly	8	\$6,513	\$3,160
No Ticket	10	\$11,754	\$4,968
Total	36	\$81,670.00	\$29,836.00

Penelec – Third Party Line Hit Incidents			
3rd Quarter 2024 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	57	\$61,946	\$11,011
Excavated in Tolerance	18	\$30,971	\$4,576
Excavation Inconsistent with Ticket Scope	1	\$9,033.00	\$0.00
Excavation Prior to Lawful Start Date			
Expired Ticket	2	\$2,401	\$0.00
Hand Digging			
Marked Improperly	15	\$67,415	\$24,845
No Ticket	23	\$31,820	\$5,078
Total	116	\$203,586.00	\$45,510.00

Penn Power – Third Party Line Hit Incidents			
3rd Quarter 2024 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	35	\$111,168	\$16,625.00
Excavated in Tolerance	7	\$23,568	\$3,633.00
Excavation Inconsistent with Ticket Scope			
Excavation Prior to Lawful Start Date	1	\$8,109	\$0.00
Expired Ticket			
Hand Digging			
Marked Improperly	5	\$29,577	\$15,993
No Ticket	10	\$9,443	\$3,313.00
Total	58	\$181,865.00	\$39,564.00

West Penn – Third Party Line Hit Incidents			
3rd Quarter 2024 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	38	\$54,187	\$26,336
Excavated in Tolerance	13	\$22,728	\$1,635
Excavation Inconsistent with Ticket Scope	1	\$2,582	\$0.00
Excavation Prior to Lawful Start Date	1	\$702	\$0.00
Expired Ticket			
Hand Digging	1	\$1,090	\$0.00
Marked Improperly	6	\$12,243	\$12,243
No Ticket	18	\$41,465	\$6,996
Total	78	\$134,997.00	\$47,210.00

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