

Darsh Singh, Esq.
(610) 212-8331
(330) 315-9263 (Fax)

February 1, 2023

VIA E-FILING

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

Re: Joint 4th Quarter 2022 Reliability Report – Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company – Public Version; Docket No. M-2016-2522508

Dear Secretary Chiavetta:

Pursuant to 52 Pa. Code § 57.195(d) and (e), enclosed for filing on behalf of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company (collectively, the “Companies”) are the Joint 4th Quarter 2022 Reliability Report – Public Version (“Joint Report”).

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

Enclosures

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



Joint 2022 4th Quarter Reliability Report

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

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

Joint 4th Quarter 2022 Reliability Report – Metropolitan Edison Company (“Met-Ed”), Pennsylvania Electric Company (“Penelec”), Pennsylvania Power Company (“Penn Power”), and West Penn Power Company (“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

Major Event(s)

FirstEnergy Company	Customers Affected	Time and Duration of the Event		Cause of the Event	Commission Approval Status
Met-Ed	66,040 ²	Duration	112 hours 11 minutes	Winter Storm	Approved January 26, 2023
		Start Date/Time	12/23/22 0444		
		End Date/Time	12/27/22 2055 ³		

¹ For purposes of this Joint Report, all reliability reporting is based upon the Pennsylvania Public Utility Commission’s definitions for momentary outages and major events pursuant to 52 Pa. Code § 57.192.

² The Major Event Exclusion Report filed on January 19, 2022 and subsequently approved on January 26, 2023 showed an end time of the event as December 27, 2022 at 23:00 affecting a total of 65,662 customers with a total Customer Minutes Interrupted (“CMI”) of 33,801,371. After already receiving the January 26, 2022 approval, Met-Ed updated its numbers to reflect a more accurate, shorter event end time of December 27, 2022 at 20:55. In doing so, Met-Ed reran its “Customers Affected” value and can now confirm a total of 66,040 customers affected and a total CMI of 29,415,515.

³ See footnote number 2 above.

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

Reliability Index Values

4Q 2022 (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	1.32	1.26	1.52	1.83	1.12	1.34	0.99	1.05	1.26	1.32
CAIDI	117	140	160	117	141	199	101	121	134	170	204	276
SAIDI	135	194	211	148	213	364	113	162	133	179	257	364
MAIFI⁴			0.360			0.683			0.132			
Customers Served⁵	575,899			579,537			167,618			725,417		
Number of Sustained Interruptions	14,207			19,542			3,648			16,538		
Customers Affected	760,672			1,062,923			166,749			957,562		
Customer Minutes	121,767,029			211,092,054			22,283,199			264,310,751		
Number of Customer Momentary Interruptions	207,599			395,620			22,101					

⁴ MAIFI values are not available for West Penn.

⁵ Represents the average number of customers served during the reporting period.

Unique Events Occurring in 4Q 2022:

Met-Ed

- Beginning Thursday, December 22, 2022, Winter Storm Elliott, producing a wintry mix of snow and ice along with high wind gusts, moved from west to east across Pennsylvania. The storm began affecting Met-Ed service territory Friday morning. Wind gusts up to 44 miles per hour were experienced on December 23, 2022, and gusts of approximately 36 miles per hour continued to affect the Met-Ed service territory on Saturday, December 24, 2022. Temperatures fell to single digits in the evening of December 23, 2022 and remained below freezing through the duration of the storm. The reliability impact of the storm was 51.1 minutes of System Average Interruption Duration Index (“SAIDI”), 0.12 of System Average Interruption Frequency Index (“SAIFI”) frequency, and an overall storm Customer Average Interruption Duration Index (“CAIDI”) of 425.8 minutes⁶.

Penelec

- Beginning Thursday, December 22, 2022, Winter Storm Elliott, producing a wintry mix of snow and ice along with high wind gusts, moved from west to east across Pennsylvania including the Penelec service territory. Wind gusts up to 47 miles per hour were experienced in the Penelec service territory on December 23, 2022. The reliability impact of the storm was 22.1 minutes of SAIDI, 0.09 of SAIFI, and an overall storm CAIDI of 251.3 minutes.

West Penn

- Beginning the afternoon of Sunday, November 27, 2022, high winds and thunderstorms moved throughout the West Penn service territory. Wind gusts of 60 miles per hour were reported in West Penn’s southern region. The reliability impact of the storm was 10.2 minutes of SAIDI, 0.01 of SAIFI frequency, and an overall storm CAIDI of 758.21 minutes.
- Beginning Thursday morning, December 15, 2022, a winter storm producing a wintry mix of snow and ice along with high wind gusts, moved from west to east across Pennsylvania including the West Penn service territory. Wind gusts in the West Penn service territory exceeded 44 miles per hour on December 15, 2022. The reliability impact of the storm was 8.5 minutes of SAIDI, 0.02 of SAIFI frequency, and an overall storm CAIDI of 537.6 minutes.
- Beginning Thursday, December 22, 2022, Winter Storm Elliott, producing a wintry mix of snow and ice along with high wind gusts, moved from west to east across Pennsylvania including the West Penn service territory. Wind gusts up to 69 miles per hour were experienced in the West Penn service territory on December 23, 2022. The reliability impact of the storm was 21.5 minutes of SAIDI, 0.07 of SAIFI frequency, and an overall storm CAIDI of 329.6 minutes.

⁶ See footnote number 2.

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.

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

Worst Performing Circuits – Remedial Actions

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

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

Outages by Cause – Met-Ed

Outage by Cause				
4th Quarter 2022 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	52,730,526	3,278	192,449	43.30%
Equipment failure	21,346,183	2,938	182,929	17.53%
Unknown	8,324,829	1,522	84,654	6.84%
Vehicle	8,158,908	440	48,756	6.70%
Trees off ROW - limb	7,231,398	866	37,598	5.94%
Forced outage	5,739,833	610	87,327	4.71%
Line failure	4,413,638	768	19,932	3.62%
Wind	3,468,134	211	11,499	2.85%
Animal	2,874,922	1,770	37,592	2.36%
Human error - company	1,558,105	66	19,494	1.28%
Trees on ROW	1,390,532	161	5,833	1.14%
Bird	1,098,905	579	12,358	0.90%
Lightning	1,037,681	154	6,723	0.85%
Trees - sec/service	888,029	553	2,052	0.73%
Human error - non-company	382,419	53	3,157	0.31%
Overload	379,213	75	2,870	0.31%
Object contact with line	324,399	52	2,934	0.27%
Ice	174,646	27	1,010	0.14%
Customer equipment	93,774	27	156	0.08%
Previous lightning	43,223	6	209	0.04%
Other utility - non-electric	34,794	3	902	0.03%
Other electric utility	32,234	12	74	0.03%
UG dig-up	28,208	26	129	0.02%
Fire	6,106	4	20	0.01%
Vandalism	5,487	5	8	0.00%
Contamination	903	1	7	0.00%
Switching error	0	0	0	0.00%
Call Error	0	0	0	0.00%
Total	121,767,029	14,207	760,672	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 December 31, 2022, and associated actions designed to address these outage causes.

To address outages caused by trees, Met-Ed performs cycle-based tree trimming and enhanced tree trimming in select locations. Enhanced tree trimming removes healthy limbs overhanging primary conductors. Met-Ed's options under the law are strictly limited when it comes to all forms of off-right-of-way ("ROW") tree management. However, Met-Ed is legally permitted to identify priority off-ROW trees that are dead, dying, diseased, leaning, and significantly encroaching the corridor and remove those trees when customer consent is obtained or easement rights permit. Met-Ed is very active in pursuing this option, where available. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to Met-Ed's customers. Met-Ed continues its program to mitigate trees subject to damage from the Emerald Ash Borer.

To reduce the likelihood of equipment failure outages, Met-Ed follows inspection and maintenance ("I&M") programs⁷ 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.

Met-Ed reviews vehicle caused outages to determine if it is a repeat location warranting remedial action, which could include modifying attachment height for communications, installing a taller pole, relocating the pole, or installing sectionalizing equipment to minimize customer impact.

⁷ Pursuant to 52 Pa. Code § 57.198, every two years an electric distribution company shall file, and receive approval from the Commission of, a biennial plan for the periodic inspection, maintenance, repair, and replacement of its facilities. The Companies submitted their Biennial Inspection, Maintenance, Repair and Replacement Plan for the period January 1, 2021 through December 31, 2022 on October 1, 2019, which was deemed approved pursuant to 52 Pa. Code § 57.198(i).

Outages by Cause – Penelec

Outage by Cause				
4th Quarter 2022 12-Month Rolling	Penelec			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	73,349,925	3,434	252,421	34.75%
Ice	38,396,177	487	42,466	18.19%
Equipment failure	35,850,713	3,825	288,056	16.98%
Line failure	12,598,530	2,066	88,089	5.97%
Unknown	10,502,966	2,480	109,492	4.98%
Lightning	8,644,576	640	39,131	4.10%
Forced outage	8,309,240	1,419	90,656	3.94%
Trees off ROW - limb	6,368,915	559	33,801	3.02%
Vehicle	6,305,922	503	38,046	2.99%
Animal	3,182,052	1,928	32,391	1.51%
Wind	1,576,451	145	6,932	0.75%
Object contact with line	1,425,619	51	5,731	0.68%
Trees - sec/service	1,066,822	926	2,654	0.51%
Trees on ROW	770,275	96	2,583	0.36%
Bird	763,347	565	12,797	0.36%
Other electric utility	514,288	87	1,911	0.24%
Human error - non-company	459,348	86	4,235	0.22%
Overload	416,975	36	4,900	0.20%
UG dig-up	160,910	64	669	0.08%
Human error - company	155,934	51	4,064	0.07%
Switching Error	142,459	6	751	0.07%
Other utility - non-electric	47,123	2	382	0.02%
Contamination	34,485	36	379	0.02%
Customer equipment	21,444	20	276	0.01%
Fire	12,213	4	43	0.01%
Vandalism	9,137	16	29	0.00%
Previous lightning	6,208	10	38	0.00%
Call error	0	0	0	0.00%
Total	211,092,054	19,542	1,062,923	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 December 31, 2022 and the associated actions designed to address these outage causes.

To reduce outages caused by trees, Penelec performs cycle-based tree trimming which removes selected incompatible trees within the clearing zone corridor, removes certain defective limbs that are overhanging primary conductors, controls selected incompatible brush, and removes off-ROW priority trees. Penelec's options under the law are strictly limited when it comes to all forms of off-ROW tree management. However, Penelec is legally permitted to identify priority off-ROW trees that are dead, dying, diseased, leaning, and significantly encroaching the corridor and remove those trees when customer consent is obtained or easement rights permit. Penelec is very active in pursuing this option, where available. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to Penelec's customers. In response to damage caused by the Emerald Ash Borer, a program to proactively remove ash trees off rights-of-way was completed in 2019. Beyond 2019, any additional ash trees are addressed under Penelec's hazardous tree maintenance process.

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

Outages by Cause – Penn Power

Outage by Cause				
4th Quarter 2022 12-Month Rolling	Penn Power			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	7,932,163	880	50,322	35.60%
Equipment failure	3,732,950	409	25,808	16.75%
Line failure	2,931,666	430	29,140	13.16%
Animal	2,038,413	525	16,518	9.15%
Vehicle	1,919,116	129	9,898	8.61%
Trees off ROW - limb	1,190,577	223	6,836	5.34%
Lightning	726,960	228	5,879	3.26%
Unknown	612,895	145	6,680	2.75%
Forced outage	449,761	69	7,649	2.02%
Bird	431,542	373	5,296	1.94%
Trees - sec/service	115,456	150	342	0.52%
Overload	78,246	19	986	0.35%
Human error - non-company	47,967	19	295	0.22%
Human error - company	29,810	4	666	0.13%
UG dig-up	14,693	13	133	0.07%
Customer equipment	8,472	8	137	0.04%
Ice	7,849	6	27	0.04%
Other electric utility	7,038	1	69	0.03%
Previous lightning	2,518	6	38	0.01%
Trees on ROW	1,558	1	2	0.01%
Object contact with line	1,491	4	9	0.01%
Fire	1,038	1	3	0.00%
Other utility - non-electric	720	1	12	0.00%
Vandalism	215	3	3	0.00%
Wind	85	1	1	0.00%
Contamination	0	0	0	0.00%
Call Error	0	0	0	0.00%
Switching Error	0	0	0	0.00%
Total	22,283,199	3,648	166,749	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 December 31, 2022 and the associated actions designed to address these outage causes.

To address outages caused by trees, Penn Power performs tree trimming which removes selected incompatible trees within the clearing zone corridor, removes certain defective limbs that are overhanging primary conductors, controls selected incompatible brush, and removes off-ROW priority trees. Penn Power's options under the law are strictly limited when it comes to all forms of off-ROW tree management. However, Penn Power is legally permitted to identify priority off-ROW trees that are dead, dying, diseased, leaning, and significantly encroaching the corridor and remove those trees when customer consent is obtained or easement rights permit. Penn Power is very active in pursuing this option, where available. Trees identified as a potential cause of a future outage are removed to prevent an interruption of electrical service to Penn Power's customers. In addition, Penn Power performs enhanced trimming to circuits that experience high customer interruption minutes due to vegetation, which removes limbs overhanging primary conductors.

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

Outages by Cause – West Penn

Outage by Cause				
4th Quarter 2022 12-Month Rolling	West Penn			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	129,605,868	4,676	318,536	49.04%
Equipment failure	23,002,010	2,481	134,859	8.70%
Unknown	22,712,293	1,863	125,938	8.59%
Line failure	19,585,794	1,897	88,218	7.41%
Ice	19,531,449	167	12,067	7.39%
Trees on ROW	11,332,106	558	27,151	4.29%
Wind	9,593,270	236	19,800	3.63%
Trees off ROW - limb	7,188,935	406	26,940	2.72%
Forced outage	6,408,623	775	88,097	2.42%
Vehicle	6,291,893	472	46,564	2.38%
Animal	3,236,085	1,642	38,254	1.22%
Trees - sec/service	1,014,336	513	1,536	0.38%
Human error - company	907,573	28	9,880	0.34%
Lightning	894,336	155	3,905	0.34%
Other electric utility	853,984	11	1,247	0.32%
Object contact with line	695,496	52	3,702	0.26%
Bird	317,096	433	3,274	0.12%
Previous Lightning	315,800	4	1,408	0.12%
Fire	232,637	27	1,165	0.09%
Human error - non-company	188,912	58	3,013	0.07%
UG dig-up	185,773	41	955	0.07%
Overload	129,987	12	750	0.05%
Vandalism	63,806	10	77	0.02%
Other utility - non-electric	8,670	4	38	0.00%
Contamination	6,449	2	17	0.00%
Customer equipment	6,190	14	33	0.00%
Switching error	1,380	1	138	0.00%
Call Error	0	0	0	0.00%
Total	264,310,751	16,538	957,562	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 December 31, 2022, and the associated actions designed to address these outage causes.

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

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

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

Information is not required for the 4th Quarter report.

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).

Information is not required for the 4th Quarter report.

Budgeted vs. Actual T&D Operation & Maintenance Expenditures⁸

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

Information is not required for the 4th Quarter report.

⁸ 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).⁹

Staffing Levels

Met-Ed 2022												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2023
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁰	Retirement	Voluntary Separation	Other ¹¹	
Distribution	Line Leader	52	47	45	45							
	Line Troubleshooter	35	35	35	33				1		1	
	Lineman	151	161	155	149			3		3	6	17
Substation	Substation Leader	15	14	14	14							
	Substation Employee	60	63	63	62			3		1	3	7
Transmission	Line Leader	2	1	2	2							
	Lineman	11	11	10	10							
Total		326	332	324	315			6	1	4	10	24

⁹ 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.

¹⁰ Includes transfers and promotions.

¹¹ Includes transfers, voluntary separations, and promotions.

Penelec 2022												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹²	Retirement	Voluntary Separation	Other ¹³	Plan to Hire in 2023
Distribution	Line Leader	58	59	60	56			3	1		6	
	Line Troubleshooter	73	68	69	76			7				
	Lineman	148	157	149	141	1				1	8	20
Substation	Substation Leader	28	29	29	29			3			3	
	Substation Employee	47	51	52	51						1	4
Transmission	Line Leader	5	5	5	5							
	Lineman	19	19	17	18			1				
	Total	378	388	381	376	1		14	1	1	18	24

¹² Includes transfers and promotions.

¹³ Includes transfers, involuntary separations, and promotions.

Penn Power 2022												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁴	Retirement	Voluntary Separation	Other ¹⁵	Plan to Hire in 2023
Distribution	Line Leader	25	24	24	23						1	
	Line Troubleshooter	14	14	13	12						1	
	Lineman	41	42	42	43			2		1		5
Substation	Substation Leader	5	5	5	4						1	
	Substation Employee	19	19	19	18			2	1		2	1
Transmission	Line Leader	1	1	1	1							
	Lineman	5	5	5	5							
Total		110	110	109	106			4	1	1	5	6

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

¹⁵ Includes transfers, involuntary separations, promotions, and promotions within a position.

West Penn 2022												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁶	Retirement	Voluntary Separation	Other ¹⁷	Plan to Hire in 2023
Distribution	Line Leader	67	67	66	65			3	1		3	
	Line Troubleshooter	55	57	58	57			2	1		2	
	Lineman	145	153	143	138			23			28	14
Substation	Substation Leader	22	21	23	23			1			1	
	Substation Employee	75	79	75	72			9			12	6
Transmission	Line Leader	2	0	2	1						1	
	Lineman	8	9	9	11			2				
Total		374	386	376	367			40	2		47	20

¹⁶ Includes transfers, promotions, and promotions within a position.

¹⁷ Includes transfers, involuntary separations, promotions, and promotions within a position.

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

Contractor Expenditures

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

This portion of the report is confidential.

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

Call-out Acceptance Rate

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

This portion of the report is confidential.

Call-out 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	Barto Sub	00706-1	Boyertown	2,974	203	1	1,817,945	5,311	3.16	611.28	1.79	342.30	0.930
2	North Lebanon	00712-2	Lebanon	2,583	57	1	1,525,743	6,226	2.65	590.69	2.29	258.21	0.000
3	No Bangor	00826-3	Easton	3,211	124	1	1,435,069	13,036	2.49	446.92	3.03	147.69	0.410
4	Snydersville	00621-3	Stroudsburg	1,286	64	3	1,396,630	5,949	2.43	1,086.03	4.63	234.77	0.990
5	Painted Sky	00650-1	Reading	1,784	26	1	1,350,363	3,867	2.34	756.93	2.17	349.20	1.000
6	Lyons	00729-1	Reading	1,305	116	0	1,342,105	5,989	2.33	1,028.43	2.60	396.13	0.780
7	Mountain	00743-4	Dillsburg	1,032	30	1	1,296,646	2,630	2.25	1,256.44	2.55	493.02	0.000
8	Huffs Church	00600-1	Boyertown	1,534	137	0	1,246,899	3,468	2.17	812.84	2.26	359.54	0.770
9	North Cornwall	00610-2	Lebanon	2,366	64	1	1,177,977	4,708	2.05	497.88	1.99	250.21	0.130
10	Bernville	00787-1	Hamburg	1,842	68	0	1,150,076	4,023	2.00	624.36	2.18	285.88	0.400
11	Hill	00735-4	York	1,624	85	1	1,093,358	5,738	1.90	673.25	3.53	190.55	0.030
12	No Bangor	00813-3	Easton	1,357	53	0	1,091,261	3,123	1.89	804.17	2.30	349.43	0.000
13	Birdsboro	00759-1	Reading	928	33	3	998,413	5,023	1.73	1,075.88	5.41	198.77	0.000
14	Lynnville	00737-1	Hamburg	1,079	103	0	997,532	2,724	1.73	924.50	2.52	366.20	0.000
15	Carsonia	00767-1	Reading	1,019	30	3	996,557	5,919	1.73	977.98	5.81	168.37	0.000
16	Birdsboro	00756-1	Reading	1,530	114	1	991,885	10,701	1.72	648.29	6.99	92.69	8.950
17	W Boyertown	00714-1	Boyertown	1,885	62	1	952,537	4,747	1.65	505.32	2.52	200.66	0.000
18	Angelica	00129-1	Reading	701	38	1	945,560	1,559	1.64	1,348.87	2.22	606.52	0.000
19	Bairs	00571-4	York	2,373	89	1	872,572	7,698	1.52	367.71	3.24	113.35	0.720
20	Mountain	00744-4	Dillsburg	1,866	57	1	865,578	4,713	1.50	463.87	2.53	183.66	0.000
21	Shawnee	00860-3	Stroudsburg	3,228	50	1	854,714	5,842	1.48	264.78	1.81	146.31	2.280
22	North Lebanon	00715-2	Lebanon	1,637	44	1	841,724	5,470	1.46	514.19	3.34	153.88	0.000
23	Lynnville	00735-1	Hamburg	1,400	59	0	840,705	2,791	1.46	600.50	1.99	301.22	0.090
24	Mc Knights Gap	00773-1	Reading	2,006	94	0	835,663	4,349	1.45	416.58	2.17	192.15	0.250
25	Ottsville	00660-3	Easton	872	75	0	784,269	2,888	1.36	899.39	2.31	389.02	2.990
26	Ferndale	00871-3	Easton	489	54	0	755,848	2,558	1.31	1,545.70	3.33	464.85	2.940
27	Carsonia	00764-1	Reading	2,994	83	0	740,737	5,544	1.29	247.41	1.85	133.61	0.270
28	Bernville	00786-1	Hamburg	1,569	105	1	735,459	2,340	1.28	468.74	1.49	314.30	0.090

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
29	Ferndale	00077-3	Easton	402	73	0	728,190	1,927	1.26	1,811.42	4.79	377.89	0.000
30	Collins	00760-2	Lebanon	1,110	47	1	720,106	1,923	1.25	648.74	1.73	374.47	0.000
31	Wind Gap	00600-3	Easton	1,373	28	1	691,340	3,272	1.20	503.53	2.38	211.29	0.000
32	W Boyertown	00715-1	Boyertown	1,699	68	0	667,269	3,444	1.16	392.74	2.03	193.75	0.460
33	Gardners	00752-4	Gettysburg	1,520	90	1	648,740	5,569	1.13	426.80	3.66	116.49	0.000
34	Flying Hills Sub	00777-1	Reading	1,789	83	0	633,962	3,082	1.10	354.37	1.72	205.70	0.000
35	North Cornwall	00611-2	Lebanon	910	28	2	632,268	2,218	1.10	694.80	2.44	285.06	0.810
36	Raubsville St	00095-3	Easton	525	31	1	606,611	2,420	1.05	1,155.45	4.61	250.67	0.000
37	Pine Lane	00720-1	Boyertown	981	48	2	603,957	3,267	1.05	615.65	3.33	184.87	0.030
38	Pine Lane	00713-1	Boyertown	717	29	0	603,185	2,917	1.05	841.26	4.07	206.78	0.820
39	Hamilton	00789-4	Hanover	1,929	50	1	582,836	4,886	1.01	302.14	2.53	119.29	0.840

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Thompson	00436-65	Montrose	1,335	100	0	4,883,045	4,900	8.42	3,657.71	3.67	996.54	0.000
2	Tiffany	00435-65	Montrose	1,269	76	2	4,758,488	7,415	8.21	3,749.79	5.84	641.74	1.801
3	N Meshoppen Tran	00534-65	Montrose	877	92	1	3,988,475	5,486	6.88	4,547.86	6.26	727.03	0.672
4	Tiffany	00440-65	Montrose	1,007	36	1	3,441,624	6,046	5.94	3,417.70	6.00	569.24	2.120
5	N Meshoppen Tran	00531-65	Montrose	684	69	1	3,440,206	6,100	5.93	5,029.54	8.92	563.97	0.295
6	Natl Forge Sw Sta	00577-41	Warren	1,194	66	0	3,154,496	4,671	5.44	2,641.96	3.91	675.34	1.673
7	Wyalusing	00532-62	Towanda	724	68	2	3,124,832	4,712	5.39	4,316.07	6.51	663.16	0.982
8	Lenox	00755-65	Montrose	683	63	0	2,828,456	5,424	4.88	4,141.22	7.94	521.47	0.073
9	Thompson	00442-65	Montrose	652	37	1	2,381,121	3,054	4.11	3,652.03	4.68	779.67	1.012
10	Montrose	00457-65	Montrose	578	45	1	1,968,324	1,868	3.39	3,405.40	3.23	1,053.71	1.135
11	Laurel Lake Sub Tran	00769-65	Montrose	484	19	1	1,945,039	1,055	3.35	4,018.68	2.18	1,843.64	0.000
12	Oxbow	00555-65	Montrose	728	61	0	1,687,526	4,000	2.91	2,318.03	5.49	421.88	2.036
13	Brooklyn	00749-65	Montrose	498	32	0	1,658,056	1,271	2.86	3,329.43	2.55	1,304.53	1.002
14	Tunkhannock	00533-65	Montrose	1,241	91	0	1,626,858	3,075	2.81	1,310.93	2.48	529.06	4.112
15	Russell Hill	00282-65	Montrose	699	41	0	1,619,363	2,908	2.79	2,316.69	4.16	556.86	1.455
16	Madera	00165-22	Philipsburg	1,586	50	3	1,604,787	6,087	2.77	1,011.85	3.84	263.64	1.662
17	Marienville	00328-51	Oil City	1,209	76	0	1,578,581	4,980	2.72	1,305.69	4.12	316.98	2.693
18	East Towanda	00525-62	Towanda	627	58	1	1,562,249	4,217	2.69	2,491.63	6.73	370.46	0.938
19	Knox	00323-51	Oil City	869	49	5	1,527,027	7,713	2.63	1,757.22	8.88	197.98	3.008
20	Lake Como	00788-65	Montrose	639	45	1	1,452,305	1,377	2.50	2,272.78	2.15	1,054.69	0.998
21	Laurel Lake Sub Tran	00449-65	Montrose	521	53	1	1,426,377	1,464	2.46	2,737.77	2.81	974.30	3.679
22	Hepburnia	00778-21	Clearfield	665	40	0	1,364,080	2,050	2.35	2,051.25	3.08	665.40	1.002
23	Industrial Park	00796-65	Montrose	358	25	3	1,359,337	2,295	2.34	3,797.03	6.41	592.30	1.000
24	Russell Hill	00765-65	Montrose	373	43	0	1,344,497	1,371	2.32	3,604.55	3.68	980.67	1.000
25	Union City	00239-43	Erie	783	32	4	1,313,113	2,297	2.26	1,677.03	2.93	571.66	0.000
26	Brooklyn	00748-65	Montrose	195	23	0	1,271,898	742	2.19	6,522.55	3.81	1,714.15	0.995
27	Saxton	00625-73	Altoona	573	18	0	1,238,036	3,921	2.14	2,160.62	6.84	315.74	0.817
28	Laurel Lake Sub Tran	00448-65	Montrose	404	18	2	1,183,169	885	2.04	2,928.64	2.19	1,336.91	0.787

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
29	Spangler	00052-72	Altoona	743	9	0	1,179,900	3,712	2.03	1,588.02	5.00	317.86	1.252
30	Lenox	00434-65	Montrose	273	33	1	1,075,761	1,027	1.86	3,940.52	3.76	1,047.48	0.044
31	Madera	00166-22	Philipsburg	1,712	88	1	1,072,162	4,056	1.85	626.26	2.37	264.34	0.079
32	Dubois	00137-23	Dubois	2,590	73	0	1,019,690	7,369	1.76	393.70	2.85	138.38	0.809
33	Elk Run	00622-23	Dubois	1,013	47	0	990,058	3,336	1.71	977.35	3.29	296.78	2.665
34	N Meshoppen Tran	00437-65	Montrose	557	64	0	967,766	1,343	1.67	1,737.46	2.41	720.60	1.079
35	Cranberry	00350-51	Oil City	1,065	50	1	964,747	2,466	1.66	905.87	2.32	391.22	0.008
36	Grandview	00354-51	Oil City	522	40	3	932,727	2,886	1.61	1,786.83	5.53	323.19	0.098
37	Grover	00527-63	Towanda	1,053	68	0	923,938	2,579	1.59	877.43	2.45	358.25	1.579
38	East Pike	00095-13	Indiana	3,496	35	1	870,697	7,915	1.50	249.06	2.26	110.01	1.137
39	Laceyville	00612-65	Montrose	177	5	2	826,162	391	1.42	4,667.58	2.21	2,112.95	0.994
40	Brookville	00125-23	Dubois	615	56	0	793,836	2,990	1.37	1,290.79	4.86	265.50	3.717
41	Union City	00206-43	Erie	2,748	110	0	770,808	5,522	1.33	280.50	2.01	139.59	4.248
42	Crown	00320-51	Oil City	465	39	1	735,597	2,544	1.27	1,581.93	5.47	289.15	0.002
43	Dubois	00124-23	Dubois	2,043	33	0	722,529	4,450	1.25	353.66	2.18	162.37	1.000
44	Canton	00608-63	Towanda	291	30	1	721,721	862	1.24	2,480.14	2.96	837.26	0.000
45	Spangler	00051-72	Altoona	1,116	20	0	684,948	3,393	1.18	613.75	3.04	201.87	2.315
46	Reeder Street	00041-11	Johnstown	726	4	2	673,294	1,492	1.16	927.40	2.06	451.27	1.851
47	Utica Junction	00331-51	Oil City	633	51	0	671,902	1,797	1.16	1,061.46	2.84	373.90	1.991
48	Tionesta Sw St	00498-51	Oil City	384	44	2	670,230	2,014	1.16	1,745.39	5.24	332.79	0.953
49	Logan	00700-81	Lewistown	1,000	40	0	670,084	3,127	1.16	670.08	3.13	214.29	1.752
50	Greenwood	00041-71	Altoona	1,229	32	2	668,121	3,503	1.15	543.63	2.85	190.73	0.998
51	Somerset	00031-12	Somerset	2,088	34	2	667,282	4,268	1.15	319.58	2.04	156.35	0.413
52	Birmingham	00168-22	Philipsburg	1,084	55	0	666,651	2,779	1.15	614.99	2.56	239.89	0.669
53	North Towanda	00521-62	Towanda	942	74	3	655,040	4,641	1.13	695.37	4.93	141.14	2.661
54	Bradford South	00106-42	Bradford	1,178	26	0	632,543	2,867	1.09	536.96	2.43	220.63	0.003
55	Piney	00523-51	Oil City	1,496	56	1	618,322	3,521	1.07	413.32	2.35	175.61	0.253
56	Warren South	00219-41	Warren	320	28	1	608,884	1,241	1.05	1,902.76	3.88	490.64	0.428

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
57	Seward	00075-11	Johnstown	891	45	0	608,472	5,069	1.05	682.91	5.69	120.04	2.360
58	North Warren	00596-41	Warren	1,121	42	0	603,218	3,880	1.04	538.11	3.46	155.47	1.799
59	Lenox	00757-65	Montrose	106	17	0	601,947	713	1.04	5,678.75	6.73	844.25	0.000
60	East Pike	00096-13	Indiana	2,590	35	1	594,447	5,276	1.03	229.52	2.04	112.67	0.005
61	Snakespring	00634-73	Altoona	1,049	11	1	576,924	4,774	0.99	549.98	4.55	120.85	0.028
62	Falls	00297-65	Montrose	812	38	0	570,919	3,108	0.98	703.10	3.83	183.69	6.010

Penn Power													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Hartstown	W-126	Clark	2,358	82	1	1,048,495	5,767	6.27	445	2.45	182	0.00
2	Mcknight	W748	Zelienople	1,266	12	1	631,594	1,927	3.77	499	1.52	328	2.18
3	Richard	W742	Zelienople	1,547	24	0	525,148	3,383	3.14	339	2.19	155	0.00
4	Stoneboro	W-131	Clark	1,489	91	0	509,467	2,524	3.04	342	1.70	202	0.00
5	Ray Street	D-389	New Castle	1,214	10	2	439,760	2,551	2.63	362	2.10	172	0.00
6	Jamestown	W-162	Clark	929	29	3	426,076	3,019	2.55	459	3.25	141	0.06
7	Hadley	W-195	Clark	897	49	0	381,273	1,069	2.28	425	1.19	357	0.00
8	Stoneboro	W-132	Clark	984	53	1	355,252	2,483	2.12	361	2.52	143	0.05
9	Perry	W-156	Clark	1,053	68	0	348,202	2,623	2.08	331	2.49	133	0.21
10	Mercer	W-167	Clark	854	32	0	313,745	1,645	1.87	367	1.93	191	0.00

West Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
1	Smith	Burgettstown	Washington Pa	1,901	75	0	4,653,954	3,542	6.42	2,448.16	1.86	1,313.93
2	Dutch Fork	Claysville	Washington Pa	1,640	99	1	4,371,569	6,335	6.03	2,665.59	3.86	690.07
3	Hickory	Hickory	Washington Pa	951	58	1	3,984,674	2,172	5.50	4,189.98	2.28	1,834.56
4	Smith	Francis Mine	Washington Pa	1,433	40	2	3,977,923	3,846	5.49	2,775.94	2.68	1,034.30
5	Dutch Fork	W Alexander	Washington Pa	1,175	79	2	3,814,362	3,207	5.26	3,246.27	2.73	1,189.39
6	Lagonda	Lagonda	Washington Pa	1,553	68	1	3,409,035	4,642	4.70	2,195.13	2.99	734.39
7	Smith	Florence	Washington Pa	807	51	1	3,353,793	1,670	4.63	4,155.88	2.07	2,008.26
8	Houston	McGovern	Washington Pa	2,098	56	0	2,635,266	5,175	3.64	1,256.08	2.47	509.23
9	Donegal	Bear Rocks	Pleasant Valley	1,279	56	0	2,624,271	3,451	3.62	2,051.81	2.70	760.44
10	Rutan	Bristoria	Jefferson	1,116	83	0	2,503,005	3,781	3.45	2,242.84	3.39	662.00
11	Houston	Weavertown	Washington Pa	2,293	42	0	2,415,492	8,819	3.33	1,053.42	3.85	273.90
12	Hickory	Fort Cherry	Washington Pa	1,048	53	0	2,138,795	4,030	2.95	2,040.83	3.85	530.72
13	Cecil	Bishop	Boyce	1,963	39	2	2,073,682	6,228	2.86	1,056.38	3.17	332.96
14	White Valley	Congruity	Jeannette	1,731	39	1	1,658,241	4,060	2.29	957.97	2.35	408.43
15	Saltsburg	Bell Township	Arnold	753	37	2	1,589,231	3,530	2.19	2,110.53	4.69	450.21
16	Piney Fork	Gillhall	Charleroi	2,278	23	1	1,520,069	6,087	2.10	667.28	2.67	249.72
17	Houston	Pristine	Washington Pa	1,129	23	0	1,512,970	1,891	2.09	1,340.10	1.67	800.09
18	Fawn	Bull Creek	Arnold	858	28	3	1,501,670	3,257	2.07	1,750.20	3.80	461.06
19	St. Clair	Fort Couch	Boyce	1,157	26	0	1,405,430	3,152	1.94	1,214.72	2.72	445.89
20	Franklin (Wpp)	South Waynesburg	Jefferson	2,071	28	2	1,404,300	7,754	1.94	678.08	3.74	181.11
21	Peters	Mcmurray	Boyce	1,473	26	2	1,321,860	4,400	1.82	897.39	2.99	300.42
22	Shaffers Corner	Braeburn	Arnold	1,381	30	2	1,290,801	3,251	1.78	934.69	2.35	397.05
23	Linden-Wash	Wylandville	Washington Pa	1,108	39	1	1,259,022	5,061	1.74	1,136.30	4.57	248.77
24	Blue Ridge Summit	Sabillasville	Waynesboro	965	55	1	1,258,913	3,494	1.74	1,304.57	3.62	360.31
25	Mateer	South Bend	Arnold	1,169	37	1	1,229,569	4,692	1.70	1,051.81	4.01	262.06
26	Hilliards	Hilliards	Butler	894	44	1	1,160,727	5,031	1.60	1,298.35	5.63	230.71
27	Robbins	Balkan	Jeannette	1,690	28	1	1,153,686	3,447	1.59	682.65	2.04	334.69

West Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
28	Franklin (Wpp)	Rogersville	Jefferson	830	61	0	1,128,843	1,583	1.56	1,360.05	1.91	713.10
29	Millheim	Rebersburg	State College	808	42	0	1,125,454	1,484	1.55	1,392.89	1.84	758.39
30	Luzerne	Pike	Uniontown	1,602	24	1	1,117,677	2,699	1.54	697.68	1.68	414.11
31	Waterville	Waterville	State College	358	22	0	1,019,499	2,008	1.41	2,847.76	5.61	507.72
32	Whitney	Youngstown	Latrobe	1,233	49	1	983,296	4,175	1.36	797.48	3.39	235.52
33	Nittany No. 2	Clintondale	State College	767	24	2	955,162	2,156	1.32	1,245.32	2.81	443.03
34	Rutan	Windridge	Jefferson	564	35	0	954,365	1,320	1.32	1,692.14	2.34	723.00
35	Galley	Waterdam	Washington Pa	1,561	25	0	945,231	4,048	1.30	605.53	2.59	233.51
36	Robbins	Mt. Vernon	Jeannette	1,034	19	0	917,452	2,609	1.27	887.28	2.52	351.65
37	Bethel Park	Clifton	Boyce	980	16	1	901,487	2,156	1.24	919.88	2.20	418.13
38	California	Malden	Charleroi	1,101	38	0	900,018	3,568	1.24	817.46	3.24	252.25
39	Bentleyville	Ellsworth	Charleroi	1,212	38	0	887,826	3,406	1.22	732.53	2.81	260.67
40	Branchton	Forestville	Butler	1,156	24	0	879,942	5,260	1.21	761.20	4.55	167.29

ATTACHMENT B

Worst Performing Circuits – Remedial Actions

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

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
1	Barto	00706-1	Boyertown	2,974	203
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.16	Trees Off Row-Tree	76%	1Q 2022
	SAIDI	611.28	Trees Off Row-Limb	10%	2Q 2022
	SAIFI	1.79	Unknown	8%	3Q 2022
	CAIDI	342	All Other	6%	4Q 2022
	Customer Minutes	1,817,945			
	Customers Affected	5,311			
	Remedial Action Planned or Taken			Status	Progress
	Replace mainline switch			Complete	Apr-22
	Targeted forestry inspection - 70612 Recloser Zone			Complete	Apr-22
	Targeted overhead circuit inspection			Complete	Sep-22
	Rank	Substation	Circuit	District	Customers
2	North Lebanon	00712-2	Lebanon	2,583	57
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.65	Trees Off Row-Tree	74%	1Q 2022
	SAIDI	590.69	Wind	13%	2Q 2022
	SAIFI	2.29	Line Failure	4%	3Q 2022
	CAIDI	258	All Other	9%	4Q 2022
	Customer Minutes	1,525,743			
	Customers Affected	6,226			
	Remedial Action Planned or Taken			Status	Progress
	Cycle Tree Trimming			Complete	Dec-21
Install Supervisory Control and Data Acquisition (SCADA) switch (2 devices)			To be completed 2023	50%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
3	No Bangor	00826-3	Easton	3,211	124
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.49	Trees Off Row-Tree	34%	1Q 2022
	SAIDI	446.92	Vehicle	27%	2Q 2022
	SAIFI	3.03	Equipment Failure	12%	3Q 2022
	CAIDI	148	All Other	27%	4Q 2022
	Customer Minutes	1,435,069			
	Customers Affected	13,036			
	Remedial Action Planned or Taken			Status	Progress
	Mainline 34.5 kV forestry aerial patrol			Complete	Jul-21
	Cycle tree trimming			Complete	Dec-22
	Pole relocation project			To be completed 2023	50%
Rank	Substation	Circuit	District	Customers	Outages
4	Snydersville	00621-3	Stroudsburg	1,286	64
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.43	Trees Off Row-Tree	85%	1Q 2022
	SAIDI	1,086.03	Equipment Failure	8%	2Q 2022
	SAIFI	4.63	Vehicle	5%	3Q 2022
	CAIDI	235	All Other	2%	4Q 2022
	Customer Minutes	1,396,630			
	Customers Affected	5,949			
	Remedial Action Planned or Taken			Status	Progress
	Replace priority poles (2 poles)			Complete	Mar-22
	Cycle tree trimming			Complete	Oct-22
	Replace 2022 priority poles (2 poles)			To be completed 2023	25%
Rank	Substation	Circuit	District	Customers	Outages
5	Painted Sky	00650-1	Reading	1,784	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.34	Trees Off Row-Tree	59%	3Q 2022
	SAIDI	756.93	Equipment Failure	38%	4Q 2022
	SAIFI	2.17	Line Failure	2%	
	CAIDI	349	All Other	1%	
	Customer Minutes	1,350,363			
	Customers Affected	3,867			
	Remedial Action Planned or Taken			Status	Progress
	Proactive UG cable replacement Laurel Springs			Complete	Aug-22
	Replace mainline pole from inspection			Complete	Sep-22
	Upgrade mainline recloser			Complete	Sep-22

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
6	Lyons	00729-1	Reading	1,305	116
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.33	Trees Off Row-Tree	75%	3Q 2022
	SAIDI	1,028.43	Trees Off Row-Limb	13%	4Q 2022
	SAIFI	2.60	Forced Outage	4%	
	CAIDI	396	All Other	8%	
	Customer Minutes	1,342,105			
	Customers Affected	5,989			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspections			Complete	Mar-22
	Install additional mainline disconnects			To be completed 2023	50%
	Overhead circuit inspection			To be completed 2023	0%
Rank	Substation	Circuit	District	Customers	Outages
7	Mountain	00743-4	Dillsburg	1,032	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.25	Vehicle	61%	1Q 2022
	SAIDI	1,256.44	Trees Off Row-Tree	38%	3Q 2022
	SAIFI	2.55	Unknown	1%	4Q 2022
	CAIDI	493	All Other	1%	
	Customer Minutes	1,296,646			
	Customers Affected	2,630			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Aug-22
	Rank	Substation	Circuit	District	Customers
8	Huffs Church	00600-1	Boyetown	1,534	137
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.17	Trees Off Row-Tree	73%	1Q 2022
	SAIDI	812.84	Line Failure	7%	2Q 2022
	SAIFI	2.26	Trees Off Row-Limb	6%	3Q 2022
	CAIDI	360	All Other	14%	4Q 2022
	Customer Minutes	1,246,899			
	Customers Affected	3,468			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection			Complete	Jan-22
	Targeted mainline inspection - 60062 Recloser Zone			Complete	Feb-22
	CEMI re-route project			To be completed 2023	50%
Targeted tree trimming (Maryann Drive)			To be completed 2023	0%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
9	North Cornwall	00610-2	Lebanon	2,366	64
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.05	Trees Off Row-Tree	85%	1Q 2022
	SAIDI	497.88	Unknown	5%	2Q 2022
	SAIFI	1.99	Trees Off Row-Limb	3%	3Q 2022
	CAIDI	250	All Other	7%	4Q 2022
	Customer Minutes	1,177,977			
	Customers Affected	4,708			
	Remedial Action Planned or Taken			Status	Progress
	Mainline Circuit Rehab			Complete	Feb-22
	Circuit rehab project			To be completed 2023	50%
Rank	Substation	Circuit	District	Customers	Outages
10	Bernville	00787-1	Hamburg	1,842	68
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.00	Vehicle	59%	1Q 2022
	SAIDI	624.36	Trees Off Row-Tree	27%	4Q 2022
	SAIFI	2.18	Equipment Failure	8%	
	CAIDI	286	All Other	6%	
	Customer Minutes	1,150,076			
	Customers Affected	4,023			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Dec-21
	CEMI re-route project			Complete	Sep-22
Rank	Substation	Circuit	District	Customers	Outages
11	Hill	00735-4	York	1,624	85
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.90	Trees Off Row-Tree	57%	2Q 2022
	SAIDI	673.25	Equipment Failure	32%	3Q 2022
	SAIFI	3.53	Vehicle	6%	4Q 2022
	CAIDI	191	All Other	6%	
	Customer Minutes	1,093,358			
	Customers Affected	5,738			
	Remedial Action Planned or Taken			Status	Progress
	Replace backlog poles (8 poles)			Complete	Jan-22
	Overhead circuit inspection			To be completed 2023	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
12	No Bangor	00813-3	Easton	1,357	53
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.89	Trees Off Row-Tree	37%	3Q 2022
	SAIDI	804.17	Lightning	29%	4Q 2022
	SAIFI	2.30	Unknown	16%	
	CAIDI	349	All Other	17%	
	Customer Minutes	1,091,261			
	Customers Affected	3,123			
	Remedial Action Planned or Taken			Status	Progress
	Mainline 34.5 kV forestry aerial patrol			Complete	Jul-21
	Overhead circuit inspection			Complete	Nov-21
	Replace backlog poles (8 poles)			Complete	Dec-21
	Fuse relocation project			To be completed 2023	25%
Rank	Substation	Circuit	District	Customers	Outages
13	Birdsboro	00759-1	Reading	928	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.73	Trees Off Row-Tree	65%	2Q 2022
	SAIDI	1,075.88	Line Failure	15%	3Q 2022
	SAIFI	5.41	Trees Off Row-Limb	11%	4Q 2022
	CAIDI	199	All Other	9%	
	Customer Minutes	998,413			
	Customers Affected	5,023			
	Remedial Action Planned or Taken			Status	Progress
	Replace backlog poles (3 poles)			Complete	May-22
	Cycle tree trimming			Complete	Sep-22
	Upgrade mainline recloser			Complete	Dec-22
	Install Supervisory Control and Data Acquisition (SCADA) (4 devices)			To be completed 2023	50%
	Overhead circuit inspection			To be completed 2023	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
14	Lynnville	00737-1	Hamburg	1,079	103
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.73	Trees Off Row-Tree	61%	1Q 2022
	SAIDI	924.50	Equipment Failure	13%	2Q 2022
	SAIFI	2.52	Vehicle	7%	3Q 2022
	CAIDI	366	All Other	18%	4Q 2022
	Customer Minutes	997,532			
	Customers Affected	2,724			
	Remedial Action Planned or Taken			Status	Progress
	Target Tree Trimming (Sousley Rd)			Complete	Aug-21
	Install Supervisory Control and Data Acquisition (SCADA)			Complete	Mar-22
	Targeted forestry inspection			Complete	Jan-22
	Replace mainline backlog poles (2 poles)			Complete	Jul-22
	Cycle Tree Trimming			Complete	Dec-22
Rank	Substation	Circuit	District	Customers	Outages
15	Carsonia	00767-1	Reading	1,019	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.73	Trees Off Row-Tree	54%	2Q 2022
	SAIDI	977.98	Equipment Failure	25%	3Q 2022
	SAIFI	5.81	Unknown	17%	4Q 2022
	CAIDI	168	All Other	4%	
	Customer Minutes	996,557			
	Customers Affected	5,919			
	Remedial Action Planned or Taken			Status	Progress
	Replace priority one pole			Complete	May-22
	Install TripSaver			To be completed 2023	50%
	Cycle tree trimming			To be completed 2023	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
16	Birdsboro	00756-1	Reading	1,530	114
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.72	Trees Off Row-Tree	63%	1Q 2022
	SAIDI	648.29	Equipment Failure	15%	2Q 2022
	SAIFI	6.99	Vehicle	9%	3Q 2022
	CAIDI	93	All Other	13%	4Q 2022
	Customer Minutes	991,885			
	Customers Affected	10,701			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection			Complete	Feb-22
	Cycle tree trimming			Complete	May-22
	Overhead circuit inspection			To be completed 2023	0%
Rank	Substation	Circuit	District	Customers	Outages
17	W Boyertown	00714-1	Boyertown	1,885	62
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.65	Trees Off Row-Tree	84%	3Q 2022
	SAIDI	505.32	Equipment Failure	9%	4Q 2022
	SAIFI	2.52	Trees Off Row-Limb	3%	
	CAIDI	201	All Other	4%	
	Customer Minutes	952,537			
	Customers Affected	4,747			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Apr-21
	Overhead circuit inspection			Complete	Jul-21
	Upgrade mainline recloser			Complete	Aug-22
Construct circuit tie			To be completed 2023	80%	
Rank	Substation	Circuit	District	Customers	Outages
18	Angelica	00129-1	Reading	701	38
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.64	Trees Off Row-Tree	96%	1Q 2022
	SAIDI	1,348.87	Trees Off Row-Limb	1%	2Q 2022
	SAIFI	2.22	Forced Outage	1%	3Q 2022
	CAIDI	607	All Other	2%	4Q 2022
	Customer Minutes	945,560			
	Customers Affected	1,559			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection			Complete	Aug-21
	Replace mainline backlog pole			Complete	Jun-22
	Cycle tree trimming			To be completed 2023	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
19	Bairs	00571-4	York	2,373	89
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.52	Trees Off Row-Tree	39%	1Q 2022
	SAIDI	367.71	Animal	20%	2Q 2022
	SAIFI	3.24	Equipment Failure	18%	3Q 2022
	CAIDI	113	All Other	23%	4Q 2022
	Customer Minutes	872,572			
	Customers Affected	7,698			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Dec-21
	Engineering SCADA Analysis			Complete	Feb-22
	Replace Recloser			Complete	Oct-22
Rank	Substation	Circuit	District	Customers	Outages
20	Mountain	00744-4	Dillsburg	1,866	57
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.50	Trees Off Row-Tree	79%	1Q 2022
	SAIDI	463.87	Unknown	5%	2Q 2022
	SAIFI	2.53	Trees Off Row-Limb	5%	3Q 2022
	CAIDI	184	All Other	11%	4Q 2022
	Customer Minutes	865,578			
	Customers Affected	4,713			
	Remedial Action Planned or Taken			Status	Progress
	Cycle Tree Trimming			Complete	May-22
	Targeted overhead circuit inspection			Complete	Aug-22
	Circuit Rehabilitation Zone 2			To be Completed 2023	50%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
21	Shawnee	00860-3	Stroudsburg	3,228	50
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.48	Trees Off Row-Tree	54%	1Q 2022
	SAIDI	264.78	Equipment Failure	24%	2Q 2022
	SAIFI	1.81	Lightning	13%	3Q 2022
	CAIDI	146	All Other	10%	4Q 2022
	Customer Minutes	854,714			
	Customers Affected	5,842			
	Remedial Action Planned or Taken			Status	Progress
	Mainline 34.5 kV forestry aerial patrol			Complete	Jul-21
	Replace backlog poles (10 poles)			Complete	Dec-21
	Overhead circuit inspection			Complete	Mar-22
	Circuit Rehabilitation			Complete	Aug-22
	Cycle tree trimming			Complete	Nov-22
Targeted mainline patrol			To be Completed 2023	0%	
Rank	Substation	Circuit	District	Customers	Outages
22	North Lebanon	00715-2	Lebanon	1,637	44
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.46	Vehicle	64%	1Q 2022
	SAIDI	514.19	Equipment Failure	20%	2Q 2022
	SAIFI	3.34	Trees Off Row-Tree	7%	3Q 2022
	CAIDI	154	All Other	10%	4Q 2022
	Customer Minutes	841,724			
	Customers Affected	5,470			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Dec-21
Rank	Substation	Circuit	District	Customers	Outages
23	Lynnville	00735-1	Hamburg	1,400	59
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.46	Trees Off Row-Tree	68%	2Q 2022
	SAIDI	600.50	Customer Equipment	9%	3Q 2022
	SAIFI	1.99	Trees Off Row-Limb	7%	4Q 2022
	CAIDI	301	All Other	16%	
	Customer Minutes	840,705			
	Customers Affected	2,791			
	Remedial Action Planned or Taken			Status	Progress
Cycle Tree Trimming			Complete	Dec-22	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
24	Mc Knights Gap	00773-1	Reading	2,006	94
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.45	Trees Off Row-Tree	50%	3Q 2022
	SAIDI	416.58	Trees Off Row-Limb	22%	4Q 2022
	SAIFI	2.17	Equipment Failure	10%	
	CAIDI	192	All Other	18%	
	Customer Minutes	835,663			
	Customers Affected	4,349			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) devices (3 devices)			Complete	Mar-22
	Replace mainline backlog poles (2 poles)			Complete	May-22
	Upgrade mainline switch			Complete	Jan-23
Rank	Substation	Circuit	District	Customers	Outages
25	Ottsville	00660-3	Easton	872	75
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.36	Trees Off Row-Tree	59%	3Q 2022
	SAIDI	899.39	Equipment Failure	14%	4Q 2022
	SAIFI	2.31	Trees On Row	13%	
	CAIDI	389	All Other	14%	
	Customer Minutes	784,269			
	Customers Affected	2,888			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Apr-21
	Overhead circuit inspection			Complete	Jan-22
	Rank	Substation	Circuit	District	Customers
26	Ferndale	00871-3	Easton	489	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.31	Trees Off Row-Limb	61%	1Q 2022
	SAIDI	1,545.70	Trees Off Row-Tree	27%	2Q 2022
	SAIFI	3.33	Equipment Failure	6%	3Q 2022
	CAIDI	465	All Other	6%	4Q 2022
	Customer Minutes	755,848			
	Customers Affected	2,558			
	Remedial Action Planned or Taken			Status	Progress
	Mainline 34.5 kV forestry aerial patrol			Complete	Aug-22
	Repair/replace priority item from overhead inspection			Complete	Oct-22
	Mid cycle forestry inspection			To be Completed 2023	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
27	Carsonia	00764-1	Reading	2,994	83
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.29	Trees Off Row-Tree	55%	3Q 2022
	SAIDI	247.41	Line Failure	16%	4Q 2022
	SAIFI	1.85	Human Error - Company	8%	
	CAIDI	134	All Other	21%	
	Customer Minutes	740,737			
	Customers Affected	5,544			
	Remedial Action Planned or Taken			Status	Progress
	Targeted tree trimming (Wood Lane)			Complete	Sep-21
	Targeted forestry inspection			Complete	Sep-21
	Circuit rehab project			Complete	Sep-22
	Construct circuit tie			To be completed 2023	80%
	Rank	Substation	Circuit	District	Customers
28	Bernville	00786-1	Hamburg	1,569	105
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.28	Trees Off Row-Tree	47%	4Q 2022
	SAIDI	468.74	Vehicle	31%	
	SAIFI	1.49	Trees Off Row-Limb	11%	
	CAIDI	314	All Other	10%	
	Customer Minutes	735,459			
	Customers Affected	2,340			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Dec-21
Rank	Substation	Circuit	District	Customers	Outages
29	Fermdale	00077-3	Easton	402	73
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.26	Trees Off Row-Tree	74%	3Q 2022
	SAIDI	1,811.42	Unknown	11%	4Q 2022
	SAIFI	4.79	Wind	6%	
	CAIDI	378	All Other	9%	
	Customer Minutes	728,190			
	Customers Affected	1,927			
	Remedial Action Planned or Taken			Status	Progress
	Mid cycle forestry inspection			Complete	Dec-22
Cycle tree trimming			To be completed 2023	0%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
30	Collins	00760-2	Lebanon	1,110	47
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.25	Trees Off Row-Tree	87%	1Q 2022
	SAIDI	648.74	Vehicle	4%	2Q 2022
	SAIFI	1.73	Equipment Failure	3%	3Q 2022
	CAIDI	374	All Other	6%	4Q 2022
	Customer Minutes	720,106			
	Customers Affected	1,923			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Jun-21
	Additional Ash Tree Removal			Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages
31	Wind Gap	00600-3	Easton	1,373	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.20	Forced Outage	69%	4Q 2022
	SAIDI	503.53	Trees Off Row-Tree	15%	
	SAIFI	2.38	Equipment Failure	9%	
	CAIDI	211	All Other	8%	
	Customer Minutes	691,340			
	Customers Affected	3,272			
	Remedial Action Planned or Taken			Status	Progress
	Targeted mainline patrol			To be completed 2023	0%
	Rank	Substation	Circuit	District	Customers
32	W Boyertown	00715-1	Boyertown	1,699	68
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.16	Trees Off Row-Tree	73%	1Q 2022
	SAIDI	392.74	Trees Off Row-Limb	14%	2Q 2022
	SAIFI	2.03	Unknown	4%	4Q 2022
	CAIDI	194	All Other	8%	
	Customer Minutes	667,269			
	Customers Affected	3,444			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Jul-21
	Targeted tree trimming investigation			Complete	Oct-21
	Targeted forestry inspections (Old State Rd & Long Lane)			Complete	Jan-22
Repair/replace priority items from overhead circuit inspection			Complete	May-22	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
33	Gardners	00752-4	Gettysburg	1,520	90
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.13	Trees Off Row-Tree	34%	4Q 2022
	SAIDI	426.80	Vehicle	34%	
	SAIFI	3.66	Unknown	9%	
	CAIDI	116	All Other	24%	
	Customer Minutes	648,740			
	Customers Affected	5,569			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) device			To be Completed 2023	50%
	Cycle Tree Trimming			To be Completed 2023	0%
Rank	Substation	Circuit	District	Customers	Outages
34	Flying Hills	00777-1	Reading	1,789	83
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.10	Trees Off Row-Tree	74%	1Q 2022
	SAIDI	354.37	Human Error - Company	9%	2Q 2022
	SAIFI	1.72	Line Failure	5%	3Q 2022
	CAIDI	206	All Other	12%	4Q 2022
	Customer Minutes	633,962			
	Customers Affected	3,082			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) switch (4 devices)			Complete	Dec-22
	Targeted Mainline Circuit Rehabilitation Cutout Replacements (3 units)			To be Completed 2023	50%
Rank	Substation	Circuit	District	Customers	Outages
35	North Cornwall	00611-2	Lebanon	910	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.10	Trees Off Row-Tree	71%	1Q 2022
	SAIDI	694.80	Trees Off Row-Limb	11%	2Q 2022
	SAIFI	2.44	Vehicle	9%	4Q 2022
	CAIDI	285	All Other	9%	
	Customer Minutes	632,268			
	Customers Affected	2,218			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection			Complete	Nov-21

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
36	Raubsville St	00095-3	Easton	525	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.05	Trees Off Row-Tree	58%	4Q 2022
	SAIDI	1,155.45	Trees On Row	25%	
	SAIFI	4.61	Wind	7%	
	CAIDI	251	All Other	11%	
	Customer Minutes	606,611			
	Customers Affected	2,420			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection			To be Completed 2023	0%
Rank	Substation	Circuit	District	Customers	Outages
37	Pine Lane	00720-1	Boyertown	981	48
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.05	Trees Off Row-Tree	55%	4Q 2022
	SAIDI	615.65	Trees On Row	13%	
	SAIFI	3.33	Forced Outage	12%	
	CAIDI	185	All Other	21%	
	Customer Minutes	603,957			
	Customers Affected	3,267			
	Remedial Action Planned or Taken			Status	Progress
	Replace backlog pole			Complete	Aug-22
	Circuit improvement project			To be Completed 2023	80%
	Cycle Tree Trimming			To be Completed 2023	0%

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
38	Pine Lane	00713-1	Boyertown	717	29	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.05	Trees Off Row-Tree	60%	4Q 2022	
	SAIDI	841.26	Equipment Failure	17%		
	SAIFI	4.07	Trees Off Row-Limb	15%		
	CAIDI	207	All Other	8%		
	Customer Minutes	603,185				
	Customers Affected	2,917				
	Remedial Action Planned or Taken				Status	Progress
	Replace backlog poles (2 poles)				Complete	Sep-22
	Upgrade mainline recloser				Complete	Oct-22
	Cycle Tree Trimming				To be Completed 2023	0%
Rank	Substation	Circuit	District	Customers	Outages	
39	Hamilton	00789-4	Hanover	1,929	50	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.01	Line Failure	45%	4Q 2022	
	SAIDI	302.14	Unknown	27%		
	SAIFI	2.53	Vehicle	12%		
	CAIDI	119	All Other	16%		
	Customer Minutes	582,836				
	Customers Affected	4,886				
	Remedial Action Planned or Taken				Status	Progress
	Cycle Tree Trimming				Complete	Dec-22

Met-Ed					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	1Q 2022	2Q 2022	3Q 2022	4Q 2022
Barto	00705-1	X	X	X	
Friedensburg	00141-1	X	X	X	
Raubsville St	00079-3	X	X	X	
S Hamb	00740-1		X	X	
Bushkill Falls	00698-3	X	X		
Cly	00721-4	X	X		
Pleasantville	00142-1	X	X		
Shawnee	00899-3	X	X		
Tolna	00792-4	X	X		
Violet Hill	00527-4	X	X		
Hill	00737-4	X	X		
Lynnville	00749-1	X	X		
North Hanover	00505-4	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
Earlville	00126-1	Overhead circuit inspection	Complete	Jun-22
Earlville	00126-1	Construct circuit tie	To be completed 2023	75%
Earlville	00126-1	Cycle tree trimming	To be completed 2023	0%
Newberry	00586-4	Cycle tree trimming	Complete	Dec-22
Stouchburg	00758-2	Overhead circuit inspection	Complete	Jan-22
Stouchburg	00758-2	Repair/replace priority items from overhead circuit inspection	Complete	Oct-22
Rehrersburg	00718-2	Cycle tree trimming	Complete	Dec-22
County Line	00703-1	Repair/Replace priority items from overhead circuit inspection	Complete	Aug-22
County Line	00703-1	Install Supervisory Control and Data Acquisition (SCADA) switch	Complete	Aug-22
County Line	00703-1	Cycle tree trimming	To be completed 2023	0%
Grantley	00401-4	Repair/replace priority items from overhead circuit inspection	Complete	Jun-22
Mountain	00742-4	Cycle Tree Trimming	Complete	Sep-22
Shawnee	00895-3	Overhead circuit inspection	Complete	Jun-22
Shawnee	00895-3	Replace insulators	Complete	May-22
Ferndale	00076-3	Repair/Replace priority items from overhead circuit inspection	Complete	Jul-22
Gardners	00750-4	Install Supervisory Control and Data Acquisition (SCADA) (2 Devices)	To be Completed 2023	50%
Grantley	00539-4	Repair/replace priority items from overhead circuit inspection	Complete	May-22
Hokes	00587-4	Install Supervisory Control and Data Acquisition (SCADA) recloser	Complete	Jan-23
Hokes	00587-4	Cycle Tree Trimming	Complete	Dec-22
Ottsville	00661-3	Overhead circuit inspection	Complete	Jan-22
Palmer	00658-3	Cycle Tree Trimming	Complete	Jan-22
Raintree	00642-4	Cycle Tree Trimming	Complete	Jul-22
Swatara Hill	00763-2	Cycle tree trimming	Complete	Oct-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
1	Thompson	00436-65	Montrose	1,335	100
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	8.42	Trees Off Row-Tree	68%	1Q 2022
	SAIDI	3,657.71	Ice	23%	2Q 2022
	SAIFI	3.67	Equipment Failure	4%	3Q 2022
	CAIDI	996.54	All Other	6%	
	Customer Minutes	4,883,045			
	Customers Affected	4,900			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jul-21
	Repair damage caused by trees			Complete	Sep-21
	Repair line failure			Complete	Nov-21
	Repair damage caused by ice			Complete	Apr-22
	Repair damage caused by trees during a storm			Complete	Apr-22
Rank	Substation	Circuit	District	Customers	Outages
2	Tiffany	00435-65	Montrose	1,269	76
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	8.21	Ice	39%	1Q 2022
	SAIDI	3,749.79	Trees Off Row-Tree	38%	2Q 2022
	SAIFI	5.84	Equipment Failure	14%	3Q 2022
	CAIDI	641.74	All Other	10%	3Q 2022
	Customer Minutes	4,758,488			
	Customers Affected	7,415			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-21
	Circuit inspection			Complete	Oct-21
	Repair line failure			Complete	Oct-21
	Repair damage caused by trees during a storm			Complete	Apr-22
	Repair damage caused by ice			Complete	Apr-22
Repair equipment failure			Complete	Jun-22	
On cycle tree clearing			Complete	Sep-22	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
3	N Meshoppen Tran	00534-65	Montrose	877	92
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	6.88	Ice	75%	1Q 2022
	SAIDI	4,547.86	Trees Off Row-Tree	11%	2Q 2022
	SAIFI	6.26	Trees Off Row-Limb	5%	3Q 2022
	CAIDI	727.03	All Other	9%	
	Customer Minutes	3,988,475			
	Customers Affected	5,486			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by lightning			Complete	Jul-21
	Repair equipment failure			Complete	Mar-22
	Repair damage caused by ice			Complete	Apr-22
	Repair damage caused by trees during a storm			Complete	Dec-22
	On cycle tree clearing			Complete	Nov-22
Rank	Substation	Circuit	District	Customers	Outages
4	Tiffany	00440-65	Montrose	1,007	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.94	Ice	73%	1Q 2022
	SAIDI	3,417.70	Trees Off Row-Tree	9%	2Q 2022
	SAIFI	6.00	Trees Off Row-Limb	7%	3Q 2022
	CAIDI	569.24	All Other	11%	
	Customer Minutes	3,441,624			
	Customers Affected	6,046			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jul-21
	Repair line failure			Complete	Nov-21
	Repair damage caused by ice			Complete	Apr-22
	Repair damage caused by trees during a storm			Complete	Apr-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
5	N Meshoppen Tran	00531-65	Montrose	684	69
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.93	Ice	67%	1Q 2022
	SAIDI	5,029.54	Trees Off Row-Tree	23%	2Q 2022
	SAIFI	8.92	Equipment Failure	6%	3Q 2022
	CAIDI	563.97	All Other	3%	
	Customer Minutes	3,440,206			
	Customers Affected	6,100			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by lightning			Complete	Jul-21
	Repair damage caused by lightning			Complete	Jul-21
	Repair damage caused by trees during a storm			Complete	Mar-22
	Repair damage caused by ice			Complete	Apr-22
Rank	Substation	Circuit	District	Customers	Outages
6	Natl Forge Sw Sta	00577-41	Warren	1,194	66
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.44	Trees Off Row-Tree	94%	1Q 2022
	SAIDI	2,641.96	Trees Off Row-Limb	2%	2Q 2022
	SAIFI	3.91	Equipment Failure	1%	3Q 2022
	CAIDI	675.34	All Other	2%	
	Customer Minutes	3,154,496			
	Customers Affected	4,671			
	Remedial Action Planned or Taken			Status	Progress
	Restore recloser operation of unknown cause			Complete	Jul-21
	Circuit inspection			Complete	Sep-21
	Repair damage caused by trees during a storm			Complete	Dec-21
	Repair damage caused by trees during a storm			Complete	Jun-22
	Repair damage caused by trees during a storm			Complete	Dec-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
7	Wyalusing	00532-62	Towanda	724	68
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.39	Ice	68%	1Q 2022
	SAIDI	4,316.07	Lightning	19%	2Q 2022
	SAIFI	6.51	Trees Off Row-Tree	9%	3Q 2022
	CAIDI	663.16	All Other	4%	
	Customer Minutes	3,124,832			
	Customers Affected	4,712			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-21
	Repair damage caused by trees during a storm			Complete	Mar-22
	Repair damage caused by lightning			Complete	Apr-22
	Repair damage caused by ice			Complete	Apr-22
	Circuit inspection			Complete	Aug-22
Rank	Substation	Circuit	District	Customers	Outages
8	Lenox	00755-65	Montrose	683	63
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.88	Ice	50%	2Q 2022
	SAIDI	4,141.22	Trees Off Row-Tree	19%	3Q 2022
	SAIFI	7.94	Equipment Failure	16%	
	CAIDI	521.47	All Other	14%	
	Customer Minutes	2,828,456			
	Customers Affected	5,424			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Oct-21
	Repair damage caused by ice			Complete	Apr-22
	Repair equipment failure			Complete	May-22
	Repair damage caused by trees during a storm			Complete	Aug-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
9	Thompson	00442-65	Montrose	652	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.11	Ice	53%	2Q 2022
	SAIDI	3,652.03	Trees Off Row-Tree	26%	3Q 2022
	SAIFI	4.68	Trees Off Row-Limb	13%	
	CAIDI	779.67	All Other	9%	
	Customer Minutes	2,381,121			
	Customers Affected	3,054			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by ice			Complete	Apr-22
	Repair damage caused by trees during a storm (Tree)			Complete	Apr-22
	Repair damage caused by trees during a storm (Limb)			Complete	Jul-22
Rank	Substation	Circuit	District	Customers	Outages
10	Montrose	00457-65	Montrose	578	45
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.39	Ice	68%	2Q 2022
	SAIDI	3,405.40	Trees Off Row-Tree	22%	3Q 2022
	SAIFI	3.23	Vehicle	4%	
	CAIDI	1,053.71	All Other	5%	
	Customer Minutes	1,968,324			
	Customers Affected	1,868			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by ice			Complete	Apr-22
	Repair damage caused by trees during a storm			Complete	Apr-22
	Rank	Substation	Circuit	District	Customers
11	Laurel Lake Sub Tran	00769-65	Montrose	484	19
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.35	Trees Off Row-Tree	98%	2Q 2022
	SAIDI	4,018.68	Forced Outage	1%	3Q 2022
	SAIFI	2.18	Line Failure	1%	
	CAIDI	1,843.64	All Other	1%	
	Customer Minutes	1,945,039			
	Customers Affected	1,055			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Mar-22
	Repair damage caused by trees during a storm			Complete	Apr-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
12	Oxbow	00555-65	Montrose	728	61
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.91	Ice	46%	2Q 2022
	SAIDI	2,318.03	Trees Off Row-Tree	41%	3Q 2022
	SAIFI	5.49	Equipment Failure	5%	
	CAIDI	421.88	All Other	8%	
	Customer Minutes	1,687,526			
	Customers Affected	4,000			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jul-21
	Repair damage caused by ice			Complete	Apr-22
	Repair damage caused by trees during a storm			Complete	Aug-22
	Repair damage caused by trees			Complete	Sep-22
	Rank	Substation	Circuit	District	Customers
13	Brooklyn	00749-65	Montrose	498	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.86	Ice	79%	2Q 2022
	SAIDI	3,329.43	Line Failure	10%	3Q 2022
	SAIFI	2.55	Trees Off Row-Tree	8%	
	CAIDI	1,304.53	All Other	1%	
	Customer Minutes	1,658,056			
	Customers Affected	1,271			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Dec-21
	Repair damage caused by ice			Complete	Apr-22
	Repair line failure			Complete	Aug-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
14	Tunkhannock	00533-65	Montrose	1,241	91
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.81	Trees Off Row-Tree	60%	1Q 2022
	SAIDI	1,310.93	Equipment Failure	15%	2Q 2022
	SAIFI	2.48	Trees Off Row-Limb	10%	3Q 2022
	CAIDI	529.06	All Other	15%	
	Customer Minutes	1,626,858			
	Customers Affected	3,075			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Apr-22
	Repair equipment failure			Complete	Jul-22
	Circuit inspection			Complete	Aug-22
	Repair damage caused by trees			Complete	Sep-22
Rank	Substation	Circuit	District	Customers	Outages
15	Russell Hill	00282-65	Montrose	699	41
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.79	Ice	51%	1Q 2022
	SAIDI	2,316.69	Trees Off Row-Tree	21%	2Q 2022
	SAIFI	4.16	Overload	10%	3Q 2022
	CAIDI	556.86	All Other	19%	
	Customer Minutes	1,619,363			
	Customers Affected	2,908			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Oct-21
	Repair damage caused by wind			Complete	Dec-21
	Repair damage caused by ice			Complete	Apr-22
	Repair damage caused by trees during a storm			Complete	Dec-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
16	Madera	00165-22	Philipsburg	1,586	50
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.77	Trees Off Row-Tree	64%	1Q 2022
	SAIDI	1,011.85	Equipment Failure	19%	2Q 2022
	SAIFI	3.84	Wind	7%	3Q 2022
	CAIDI	263.64	All Other	10%	
	Customer Minutes	1,604,787			
	Customers Affected	6,087			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Oct-21
	Repair damage caused by trees during a storm			Complete	Mar-22
	Repair damage caused by wind			Complete	Mar-22
	Repair equipment failure			Complete	Aug-22
	Repair damage caused by trees during a storm			Complete	Dec-22
Rank	Substation	Circuit	District	Customers	Outages
17	Marienville	00328-51	Oil City	1,209	76
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.72	Trees Off Row-Tree	67%	1Q 2022
	SAIDI	1,305.69	Line Failure	19%	2Q 2022
	SAIFI	4.12	Trees Off Row-Limb	4%	3Q 2022
	CAIDI	316.98	All Other	10%	
	Customer Minutes	1,578,581			
	Customers Affected	4,980			
	Remedial Action Planned or Taken			Status	Progress
	Install advanced Dx protective devices			Complete	Oct-21
	Repair damage caused by trees during a storm			Complete	Dec-21
	Repair line failure			Complete	Mar-22
	Repair damage caused by trees during a storm			Complete	Jun-22
	On cycle tree clearing			Complete	Nov-22
Repair damage caused by trees during a storm			Complete	Dec-22	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
18	East Towanda	00525-62	Towanda	627	58
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.69	Ice	39%	2Q 2022
	SAIDI	2,491.63	Equipment Failure	25%	3Q 2022
	SAIFI	6.73	Lightning	14%	
	CAIDI	370.46	All Other	22%	
	Customer Minutes	1,562,249			
	Customers Affected	4,217			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Feb-22
	Repair damage caused by ice			Complete	Apr-22
	Restore recloser operation of unknown cause			Complete	May-22
	Repair damage caused by lightning			Complete	Jul-22
	Rank	Substation	Circuit	District	Customers
19	Knox	00323-51	Oil City	869	49
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.63	Unknown	34%	1Q 2022
	SAIDI	1,757.22	Trees Off Row-Tree	25%	2Q 2022
	SAIFI	8.88	Equipment Failure	21%	3Q 2022
	CAIDI	197.98	All Other	21%	
	Customer Minutes	1,527,027			
	Customers Affected	7,713			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jan-22
	Restore breaker operation of unknown cause			Complete	Mar-22
	Repair damage caused by trees during a storm			Complete	Mar-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
20	Lake Como	00788-65	Montrose	639	45
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.50	Ice	65%	1Q 2022
	SAIDI	2,272.78	Trees Off Row-Tree	27%	2Q 2022
	SAIFI	2.15	Equipment Failure	5%	3Q 2022
	CAIDI	1,054.69	All Other	3%	
	Customer Minutes	1,452,305			
	Customers Affected	1,377			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-21
	Circuit inspection			Complete	Oct-21
	Repair damage caused by trees			Complete	Nov-21
	Repair damage caused by trees during a storm			Complete	Mar-22
	Repair damage caused by ice			Complete	Apr-22
On cycle tree clearing			Complete	Dec-22	
Rank	Substation	Circuit	District	Customers	Outages
21	Laurel Lake Sub Tran	00449-65	Montrose	521	53
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.46	Ice	64%	2Q 2022
	SAIDI	2,737.77	Trees Off Row-Tree	29%	3Q 2022
	SAIFI	2.81	Unknown	2%	
	CAIDI	974.30	All Other	4%	
	Customer Minutes	1,426,377			
	Customers Affected	1,464			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Oct-21
	Repair damage caused by ice			Complete	Apr-22
	Repair damage caused by trees during a storm			Complete	Jul-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
22	Hepburnia	00778-21	Clearfield	665	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.35	Object Contact With Line	64%	1Q 2022
	SAIDI	2,051.25	Lightning	26%	3Q 2022
	SAIFI	3.08	Trees Off Row-Tree	4%	
	CAIDI	665.40	All Other	6%	
	Customer Minutes	1,364,080			
	Customers Affected	2,050			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Apr-21
	Repair damage caused by the object in contact with line			Complete	Mar-22
	Repair damage caused by lightning			Complete	Jul-22
Rank	Substation	Circuit	District	Customers	Outages
23	Industrial Park	00796-65	Montrose	358	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.34	Ice	65%	2Q 2022
	SAIDI	3,797.03	Lightning	12%	3Q 2022
	SAIFI	6.41	Equipment Failure	10%	
	CAIDI	592.30	All Other	13%	
	Customer Minutes	1,359,337			
	Customers Affected	2,295			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Dec-21
	Repair damage caused by ice			Complete	Apr-22
	Repair damage caused by lightning			Complete	Jul-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
24	Russell Hill	00765-65	Montrose	373	43
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.32	Trees Off Row-Tree	52%	1Q 2022
	SAIDI	3,604.55	Ice	38%	2Q 2022
	SAIFI	3.68	Equipment Failure	6%	3Q 2022
	CAIDI	980.67	All Other	4%	
	Customer Minutes	1,344,497			
	Customers Affected	1,371			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by lightning			Complete	Jul-21
	Repair equipment failure			Complete	Oct-21
	Repair damage caused by ice			Complete	Apr-22
	Repair damage caused by trees during a storm			Complete	Apr-22
	On cycle tree clearing			Complete	Jun-22
Repair damage caused by trees during a storm			Complete	Jul-22	
Rank	Substation	Circuit	District	Customers	Outages
25	Union City	00239-43	Erie	783	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.26	Trees Off Row-Tree	92%	
	SAIDI	1,677.03	Equipment Failure	4%	
	SAIFI	2.93	Unknown	2%	
	CAIDI	571.66	All Other	2%	
	Customer Minutes	1,313,113			
	Customers Affected	2,297			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Nov-22
	Repair equipment failure			Complete	Dec-22
Repair damage caused by trees during a storm			Complete	Dec-22	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
26	Brooklyn	00748-65	Montrose	195	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.19	Equipment Failure	35%	2Q 2022
	SAIDI	6,522.55	Trees Off Row-Tree	34%	3Q 2022
	SAIFI	3.81	Ice	31%	
	CAIDI	1,714.15	All Other	0%	
	Customer Minutes	1,271,898			
	Customers Affected	742			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Oct-21
	Repair damage caused by ice			Complete	Apr-22
	Repair equipment failure			Complete	Apr-22
	Repair damage caused by trees during a storm			Complete	Jul-22
Rank	Substation	Circuit	District	Customers	Outages
27	Saxton	00625-73	Altoona	573	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.14	Trees Off Row-Tree	59%	1Q 2022
	SAIDI	2,160.62	Equipment Failure	39%	2Q 2022
	SAIFI	6.84	Unknown	1%	
	CAIDI	315.74	All Other	1%	
	Customer Minutes	1,238,036			
	Customers Affected	3,921			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Dec-22
	Repair damage caused by trees during a storm			Complete	Dec-22
Rank	Substation	Circuit	District	Customers	Outages
28	Laurel Lake Sub Tran	00448-65	Montrose	404	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.04	Trees Off Row-Tree	70%	3Q 2022
	SAIDI	2,928.64	Equipment Failure	13%	
	SAIFI	2.19	Lightning	11%	
	CAIDI	1,336.91	All Other	6%	
	Customer Minutes	1,183,169			
	Customers Affected	885			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Apr-22
	Repair equipment failure			Complete	Jul-22
Repair damage caused by lightning			Complete	Jul-22	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
29	Spangler	00052-72	Altoona	743	9	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.03	Trees Off Row-Tree	74%	1Q 2022	
	SAIDI	1,588.02	Vehicle	13%	2Q 2022	
	SAIFI	5.00	Equipment Failure	12%	3Q 2022	
	CAIDI	317.86	All Other	0%		
	Customer Minutes	1,179,900				
	Customers Affected	3,712				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by trees during a storm			Complete	Dec-21	
	Repair damage caused by trees during a storm			Complete	Feb-22	
	Repair damage caused by a vehicle accident			Complete	Mar-22	
	Install advanced Dx protective devices			Complete	Apr-22	
Rank	Substation	Circuit	District	Customers	Outages	
30	Lenox	00434-65	Montrose	273	33	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.86	Equipment Failure	69%	3Q 2022	
	SAIDI	3,940.52	Trees Off Row-Tree	25%		
	SAIFI	3.76	Unknown	2%		
	CAIDI	1,047.48	All Other	4%		
	Customer Minutes	1,075,761				
	Customers Affected	1,027				
	Remedial Action Planned or Taken			Status	Progress	
	Repair equipment failure			Complete	Apr-22	
	Repair damage caused by trees			Complete	Sep-22	
	Rank	Substation	Circuit	District	Customers	Outages
	31	Madera	00166-22	Philipsburg	1,712	88
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		1.85	Trees Off Row-Tree	71%	1Q 2022	
SAIDI		626.26	Forced Outage	12%	2Q 2022	
SAIFI		2.37	Unknown	5%		
CAIDI		264.34	All Other	11%		
Customer Minutes		1,072,162				
Customers Affected		4,056				
Remedial Action Planned or Taken			Status	Progress		
Repair damage caused by trees during a storm			Complete	May-22		
Repair damage caused by vehicle accident (forced outage)			Complete	Nov-22		
Repair damage caused by trees during a storm			Complete	Dec-22		

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
32	Dubois	00137-23	Dubois	2,590	73
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.76	Trees Off Row-Tree	35%	1Q 2022
	SAIDI	393.70	Line Failure	31%	2Q 2022
	SAIFI	2.85	Equipment Failure	17%	3Q 2022
	CAIDI	138.38	All Other	17%	
	Customer Minutes	1,019,690			
	Customers Affected	7,369			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-21
	Install advanced Dx protective devices			Complete	Aug-21
	Repair damage caused by trees during a storm			Complete	May-22
	Repair line failure			Complete	Jun-22
	Repair equipment failure			Complete	Dec-22
Rank	Substation	Circuit	District	Customers	Outages
33	Elk Run	00622-23	Dubois	1,013	47
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.71	Trees Off Row-Tree	83%	3Q 2022
	SAIDI	977.35	Forced Outage	12%	
	SAIFI	3.29	Unknown	3%	
	CAIDI	296.78	All Other	2%	
	Customer Minutes	990,058			
	Customers Affected	3,336			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	May-22
	Repair damage caused by trees			Complete	Jul-22
	Repair equipment failure (forced outage)			Complete	Nov-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
34	N Meshoppen Tran	00437-65	Montrose	557	64
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.67	Trees Off Row-Tree	51%	3Q 2022
	SAIDI	1,737.46	Ice	30%	
	SAIFI	2.41	Equipment Failure	6%	
	CAIDI	720.60	All Other	13%	
	Customer Minutes	967,766			
	Customers Affected	1,343			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by ice			Complete	Apr-22
	Repair damage caused by trees during a storm			Complete	Apr-22
Rank	Substation	Circuit	District	Customers	Outages
35	Cranberry	00350-51	Oil City	1,065	50
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.66	Lightning	58%	1Q 2022
	SAIDI	905.87	Trees Off Row-Tree	22%	2Q 2022
	SAIFI	2.32	Equipment Failure	12%	3Q 2022
	CAIDI	391.22	All Other	8%	
	Customer Minutes	964,747			
	Customers Affected	2,466			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Oct-21
	Repair line failure			Complete	Dec-21
	Repair damage caused by trees during a storm			Complete	Feb-22
Repair damage caused by lightning			Complete	May-22	
Repair equipment failure			Complete	May-22	
Circuit inspection			Complete	Jun-22	
On cycle tree clearing			Complete	Nov-22	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
38	East Pike	00095-13	Indiana	3,496	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.50	Line Failure	61%	1Q 2022
	SAIDI	249.06	Trees Off Row-Tree	11%	2Q 2022
	SAIFI	2.26	Equipment Failure	10%	3Q 2022
	CAIDI	110.01	All Other	18%	
	Customer Minutes	870,697			
	Customers Affected	7,915			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Aug-21
	Repair damage caused by trees during a storm			Complete	Aug-21
	Repair damage caused by lightning			Complete	Aug-21
	Repair line failure			Complete	Feb-22
	Repair equipment failure			Complete	Aug-22
Install advanced Dx protective devices			Complete	Dec-22	
Rank	Substation	Circuit	District	Customers	Outages
39	Laceyville	00612-65	Montrose	177	5
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.42	Ice	83%	2Q 2022
	SAIDI	4,667.58	Trees Off Row-Tree	7%	3Q 2022
	SAIFI	2.21	Vehicle	6%	
	CAIDI	2,112.95	All Other	5%	
	Customer Minutes	826,162			
	Customers Affected	391			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by ice			Complete	Apr-22
Repair damage caused by trees during a storm			Complete	Apr-22	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
40	Brookville	00125-23	Dubois	615	56
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.37	Trees Off Row-Tree	33%	1Q 2022
	SAIDI	1,290.79	Equipment Failure	29%	2Q 2022
	SAIFI	4.86	Vehicle	18%	3Q 2022
	CAIDI	265.50	All Other	20%	
	Customer Minutes	793,836			
	Customers Affected	2,990			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jul-21
	Repair damage caused by trees			Complete	Dec-21
	Repair damage caused by wind			Complete	Mar-22
	Repair damage caused by vehicle accident			Complete	Jun-22
	Repair equipment failure			Complete	Jul-22
Rank	Substation	Circuit	District	Customers	Outages
41	Union City	00206-43	Erie	2,748	110
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.33	Trees Off Row-Tree	52%	1Q 2022
	SAIDI	280.50	Equipment Failure	20%	2Q 2022
	SAIFI	2.01	Forced Outage	14%	3Q 2022
	CAIDI	139.59	All Other	14%	
	Customer Minutes	770,808			
	Customers Affected	5,522			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-21
	Install advanced Dx protective devices			Complete	Dec-21
	Install new radio controlled switch			Complete	Jan-22
	Repair equipment failure			Complete	Feb-22
	Repair damage caused by trees during a storm			Complete	May-22
Repair equipment failure (forced outage)			Complete	Jul-22	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
42	Crown	00320-51	Oil City	465	39
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.27	Trees Off Row-Tree	69%	1Q 2022
	SAIDI	1,581.93	Equipment Failure	12%	2Q 2022
	SAIFI	5.47	Trees Off Row-Limb	10%	3Q 2022
	CAIDI	289.15	All Other	10%	
	Customer Minutes	735,597			
	Customers Affected	2,544			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-21
	Repair damage caused by unknown cause			Complete	Dec-21
	Repair damage caused by trees during a storm			Complete	Dec-21
	Repair damage caused by trees during a storm			Complete	Feb-22
	Repair equipment failure			Complete	Mar-22
	On cycle tree clearing			Complete	Nov-22
Rank	Substation	Circuit	District	Customers	Outages
43	Dubois	00124-23	Dubois	2,043	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.25	Equipment Failure	60%	2Q 2022
	SAIDI	353.66	Line Failure	27%	3Q 2022
	SAIFI	2.18	Trees Off Row-Tree	9%	
	CAIDI	162.37	All Other	4%	
	Customer Minutes	722,529			
	Customers Affected	4,450			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a vehicle accident			Complete	Oct-21
	Repair line failure			Complete	Jan-22
Repair equipment failure			Complete	May-22	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
44	Canton	00608-63	Towanda	291	30	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.24	Trees Off Row-Tree	69%	1Q 2022	
	SAIDI	2,480.14	Equipment Failure	18%	2Q 2022	
	SAIFI	2.96	Forced Outage	6%	3Q 2022	
	CAIDI	837.26	All Other	7%		
	Customer Minutes	721,721				
	Customers Affected	862				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Jun-21
	Repair equipment failure				Complete	Feb-22
	Repair damage caused by trees during a storm				Complete	Mar-22
Rank	Substation	Circuit	District	Customers	Outages	
45	Spangler	00051-72	Altoona	1,116	20	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.18	Trees Off Row-Tree	70%	1Q 2022	
	SAIDI	613.75	Line Failure	25%	2Q 2022	
	SAIFI	3.04	Forced Outage	3%	3Q 2022	
	CAIDI	201.87	All Other	2%		
	Customer Minutes	684,948				
	Customers Affected	3,393				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees				Complete	Feb-22
	Repair line failure				Complete	Mar-22
Rank	Substation	Circuit	District	Customers	Outages	
46	Reeder Street	00041-11	Johnstown	726	4	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.16	Trees Off Row-Tree	100%	2Q 2022	
	SAIDI	927.40	Forced Outage	0%	3Q 2022	
	SAIFI	2.06				
	CAIDI	451.27	All Other	0%		
	Customer Minutes	673,294				
	Customers Affected	1,492				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees				Complete	Sep-21
	Restore breaker operation of unknown cause				Complete	Nov-21
	Repair damage caused by trees				Complete	Jun-22
Repair damage caused by trees (forced outage)				Complete	Aug-22	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
47	Utica Junction	00331-51	Oil City	633	51
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.16	Trees Off Row-Tree	82%	3Q 2022
	SAIDI	1,061.46	Trees Off Row-Limb	11%	
	SAIFI	2.84	Unknown	3%	
	CAIDI	373.90	All Other	4%	
	Customer Minutes	671,902			
	Customers Affected	1,797			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	May-22
	Repair damage caused by trees during a storm (Limb)			Complete	Jul-22
	Rank	Substation	Circuit	District	Customers
48	Tionesta Sw St	00498-51	Oil City	384	44
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.16	Trees Off Row-Tree	80%	3Q 2022
	SAIDI	1,745.39	Trees Off Row-Limb	10%	
	SAIFI	5.24	Unknown	3%	
	CAIDI	332.79	All Other	7%	
	Customer Minutes	670,230			
	Customers Affected	2,014			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jun-22
	Repair damage caused by trees during a storm (Limb)			Complete	Aug-22
	Rank	Substation	Circuit	District	Customers
49	Logan	00700-81	Lewistown	1,000	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.16	Trees Off Row-Tree	63%	1Q2022
	SAIDI	670.08	Vehicle	16%	2Q 2022
	SAIFI	3.13	Equipment Failure	14%	
	CAIDI	214.29	All Other	6%	
	Customer Minutes	670,084			
	Customers Affected	3,127			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Oct-22
	Repair damage caused by vehicle accident			Complete	Nov-22
	Repair damage caused by trees during a storm			Complete	Dec-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
50	Greenwood	00041-71	Altoona	1,229	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.15	Trees Off Row-Tree	79%	
	SAIDI	543.63	Forced Outage	9%	
	SAIFI	2.85	Trees Off Row-Limb	7%	
	CAIDI	190.73	All Other	5%	
	Customer Minutes	668,121			
	Customers Affected	3,503			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Mar-22
	Repair damage caused by trees - Limb (forced outage)			Complete	Apr-22
	Repair damage caused by trees during a storm			Complete	Dec-22
Rank	Substation	Circuit	District	Customers	Outages
51	Somerset	00031-12	Somerset	2,088	34
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.15	Unknown	57%	1Q 2022
	SAIDI	319.58	Line Failure	29%	2Q 2022
	SAIFI	2.04	Equipment Failure	5%	3Q 2022
	CAIDI	156.35	All Other	9%	
	Customer Minutes	667,282			
	Customers Affected	4,268			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Nov-21
	Restore breaker operation of unknown cause			Complete	Jan-22
	Repair line failure			Complete	Jan-22
Rank	Substation	Circuit	District	Customers	Outages
52	Birmingham	00168-22	Philipsburg	1,084	55
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.15	Trees Off Row-Tree	52%	1Q 2022
	SAIDI	614.99	Line Failure	27%	
	SAIFI	2.56	Human Error - Company	9%	
	CAIDI	239.89	All Other	11%	
	Customer Minutes	666,651			
	Customers Affected	2,779			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Feb-22
	Repair damage caused by trees during a storm			Complete	Dec-22

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
53	North Towanda	00521-62	Towanda	942	74	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.13	Equipment Failure	63%		
	SAIDI	695.37	Line Failure	10%		
	SAIFI	4.93	Trees Off Row-Tree	7%		
	CAIDI	141.14	All Other	21%		
	Customer Minutes	655,040				
	Customers Affected	4,641				
	Remedial Action Planned or Taken				Status	Progress
	Repair line failure				Complete	Mar-22
	Repair equipment failure				Complete	Nov-22
Rank	Substation	Circuit	District	Customers	Outages	
54	Bradford South	00106-42	Bradford	1,178	26	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.09	Forced Outage	49%		
	SAIDI	536.96	Trees Off Row-Tree	48%		
	SAIFI	2.43	Equipment Failure	1%		
	CAIDI	220.63	All Other	1%		
	Customer Minutes	632,543				
	Customers Affected	2,867				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure (forced outage)				Complete	Feb-22
	Repair damage caused by trees				Complete	May-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
55	Piney	00523-51	Oil City	1,496	56
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.07	Vehicle	30%	1Q 2022
	SAIDI	413.32	Trees Off Row-Tree	25%	2Q 2022
	SAIFI	2.35	Lightning	17%	3Q 2022
	CAIDI	175.61	All Other	28%	
	Customer Minutes	618,322			
	Customers Affected	3,521			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by animal			Complete	Jul-21
	Repair damage caused by trees during a storm			Complete	Jul-21
	Repair equipment failure			Complete	Dec-21
	Repair damaged caused by lightning			Complete	May-22
	Repair damage caused by trees during a storm			Complete	Aug-22
	Repair damage caused by vehicle accident			Complete	Sep-22
Install new radio controlled switch			To be Completed	0%	
Targeted circuit rehab			Complete	Mar-22	
Rank	Substation	Circuit	District	Customers	Outages
56	Warren South	00219-41	Warren	320	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.05	Trees Off Row-Tree	88%	3Q 2022
	SAIDI	1,902.76	Equipment Failure	8%	
	SAIFI	3.88	Unknown	2%	
	CAIDI	490.64	All Other	2%	
	Customer Minutes	608,884			
	Customers Affected	1,241			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-22
	Repair damage caused by trees during a storm			Complete	Jul-22

Penelec					
Rank					
57	Seward	00075-11	Johnstown	891	45
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.05	Trees Off Row-Tree	57%	1Q 2022
	SAIDI	682.91	Line Failure	17%	
	SAIFI	5.69	Forced Outage	9%	
	CAIDI	120.04	All Other	18%	
	Customer Minutes	608,472			
	Customers Affected	5,069			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Nov-22
	Repair damage caused by trees during a storm			Complete	Dec-22
Rank	Substation	Circuit	District	Customers	Outages
58	North Warren	00596-41	Warren	1,121	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.04	Trees Off Row-Tree	53%	1Q 2022
	SAIDI	538.11	Equipment Failure	37%	2Q 2022
	SAIFI	3.46	Unknown	3%	3Q 2022
	CAIDI	155.47	All Other	7%	
	Customer Minutes	603,218			
	Customers Affected	3,880			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Feb-22
	Repair damage caused by trees during a storm			Complete	Mar-22
	Repair equipment failure			Complete	Mar-22
Rank	Substation	Circuit	District	Customers	Outages
59	Lenox	00757-65	Montrose	106	17
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.04	Trees Off Row-Tree	53%	2Q 2022
	SAIDI	5,678.75	Ice	34%	3Q 2022
	SAIFI	6.73	Equipment Failure	10%	
	CAIDI	844.25	All Other	3%	
	Customer Minutes	601,947			
	Customers Affected	713			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees(tree)			Complete	Mar-22
	Repair damage caused by ice			Complete	Apr-22
	Repair damage caused by trees(tree)			Complete	Jun-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
60	East Pike	00096-13	Indiana	2,590	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.03	Equipment Failure	62%	1Q 2022
	SAIDI	229.52	Trees Off Row-Tree	17%	2Q 2022
	SAIFI	2.04	Forced Outage	11%	
	CAIDI	112.67	All Other	10%	
	Customer Minutes	594,447			
	Customers Affected	5,276			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Feb-22
	Repair damage caused by trees			Complete	Mar-22
	Repair damage caused by fire (forced outage)			Complete	Dec-22
	Rank	Substation	Circuit	District	Customers
61	Snakespring	00634-73	Altoona	1,049	11
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.99	Equipment Failure	52%	3Q 2022
	SAIDI	549.98	Lightning	34%	
	SAIFI	4.55	Line Failure	12%	
	CAIDI	120.85	All Other	3%	
	Customer Minutes	576,924			
	Customers Affected	4,774			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure				Feb-22
	Repair damage caused by lightning				Jul-22
	Repair equipment failure				Sep-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
62	Falls	00297-65	Montrose	812	38
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.98	Trees Off Row-Tree	55%	1Q 2022
	SAIDI	703.10	Lightning	18%	3Q 2022
	SAIFI	3.83	Vehicle	11%	
	CAIDI	183.69	All Other	16%	
	Customer Minutes	570,919			
	Customers Affected	3,108			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-21
	Repair damage caused by vehicle accident			Complete	Feb-22
	Repair damage caused by lightning			Complete	Jul-22
	Repair damage caused by trees during a storm			Complete	Aug-22
	Install advanced Dx protective devices			Complete	Oct-22

Penelec					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	1Q 2022	2Q 2022	3Q 2022	4Q 2022
Avery	00791-65		X	X	
Brookville West	00126-23	X	X	X	
East Sayre	00512-61	X	X		
Erie South	00313-31	X	X		
French Road	00221-31	X	X		
Glen Fern	00512-51	X	X		
Gold	00714-63	X	X		
Mahaffey	00010-21	X	X		
Mahaffey	00020-21	X	X		
Meyersdale	00407-12	X	X	X	
Park Plaza	00183-71	X	X		
Ppl West	PL012-65	X	X	X	
Sayre	00169-61	X	X		
St Benedict	00059-72	X	X		
Tiffany	00440-65	X	X		

Penelec				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Progress of Remedial Work or Date Completed
Erie South	00259-31	On cycle tree clearing	Complete	12/9/2022
Tower 51	00051-11	On cycle tree clearing	Complete	6/29/2022
Philipsburg	00162-22	On cycle tree clearing	Complete	12/9/2022
Somerset	00013-12	On cycle tree clearing	Complete	10/11/2022
Fallen Timber	00995-22	Circuit Inspection	Complete	8/25/2022
Titusville Sub	00514-51	Circuit Inspection	Complete	6/17/2022
Blairsville East Sub	00080-13	Circuit Inspection	Complete	6/30/2022
Nmeshoppen Sub	00530-65	Circuit Inspection	Complete	8/29/2022
Portage Sub	00635-72	Circuit Inspection	Complete	6/5/2022
East Pike	00096-13	Targeted Circuit Rehab	Complete	5/26/2022
East Sayre	00518-61	Targeted Circuit Rehab	Complete	8/19/2022
Fairview Altoona	00005-71	Targeted Circuit Rehab	Complete	12/28/2022
Fairview East	00216-34	Targeted Circuit Rehab		Was pushed to 2023 due to environmental permitting and engineering design work arounds.
Samuel Rea Car Shop	00031-71	Install advanced Dx protective devices	Complete	11/14/2022
French Road	00550-31	Install advanced Dx protective devices	Complete	8/31/2022
Tionesta	00344-51	Install advanced Dx protective devices	Complete	7/22/2022
Somerset	00013-12	Install advanced Dx protective devices	Complete	9/20/2022
Millcreek	00055-11	Install advanced Dx protective devices	Complete	6/16/2022

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
1	Hartstown	W-126	Clark	2,358	82	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	6.27	Trees Off Row-Tree	71%		
	SAIDI	444.65	Trees Off Row-Limb	19%		
	SAIFI	2.45	Animal	4%		
	CAIDI	182	All Other	6%		
	Customer Minutes	1,048,495				
	Customers Affected	5,767				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by tree				Complete	Jul-22
	Repair damage caused by tree				Complete	Nov-22
	Repair damage caused by tree				Complete	Nov-22
	Rank	Substation	Circuit	District	Customers	Outages
2	Mcknight	W748	Zelienople	1,266	12	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.77	Vehicle	88%		
	SAIDI	498.89	Line Failure	9%		
	SAIFI	1.52	Equipment Failure	1%		
	CAIDI	328	All Other	1%		
	Customer Minutes	631,594				
	Customers Affected	1,927				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by vehicle				Complete	Feb-22
	Rank	Substation	Circuit	District	Customers	Outages
3	Richard	W742	Zelienople	1,547	24	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.14	Trees Off Row-Tree	74%		
	SAIDI	339.46	Animal	17%		
	SAIFI	2.19	Line Failure	3%		
	CAIDI	155	All Other	6%		
	Customer Minutes	525,148				
	Customers Affected	3,383				
	Repair damage caused by tree				Complete	Mar-22
	Repair damage caused by tree				Complete	Jun-22

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
4	Stoneboro	W-131	Clark	1,489	91	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.04	Trees Off Row-Tree	75%		
	SAIDI	342.15	Unknown	7%		
	SAIFI	1.70	Line Failure	5%		
	CAIDI	202	All Other	13%		
	Customer Minutes	509,467				
	Customers Affected	2,524				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by tree				Complete	Feb-22
	Repair damage caused by tree				Complete	Jul-22
Rank	Substation	Circuit	District	Customers	Outages	
5	Ray Street	D-389	New Castle	1,214	10	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.63	Vehicle	53%		
	SAIDI	362.24	Line Failure	45%		
	SAIFI	2.10	Lightning	1%		
	CAIDI	172	All Other	1%		
	Customer Minutes	439,760				
	Customers Affected	2,551				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by vehicle				Complete	Mar-22
	Repair due to line failure				Complete	Aug-22

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
6	Jamestown	W-162	Clark	929	29	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.55	Trees Off Row-Tree	68%		
	SAIDI	458.64	Trees Off Row-Limb	14%		
	SAIFI	3.25	Bird	13%		
	CAIDI	141	All Other	5%		
	Customer Minutes	426,076				
	Customers Affected	3,019				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by tree				Complete	May-22
	Repair damage caused by tree				Complete	Sep-22
Rank	Substation	Circuit	District	Customers	Outages	
7	Hadley	W-195	Clark	897	49	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.28	Trees Off Row-Tree	75%		
	SAIDI	425.05	Trees Off Row-Limb	8%		
	SAIFI	1.19	Equipment Failure	7%		
	CAIDI	357	All Other	11%		
	Customer Minutes	381,273				
	Customers Affected	1,069				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by tree				Complete	Feb-22
	Repair damage caused by tree				Complete	Feb-22
Rank	Substation	Circuit	District	Customers	Outages	
8	Stoneboro	W-132	Clark	984	53	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.12	Equipment Failure	38%		
	SAIDI	361.03	Trees Off Row-Tree	36%		
	SAIFI	2.52	Line Failure	11%		
	CAIDI	143	All Other	15%		
	Customer Minutes	355,252				
	Customers Affected	2,483				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by tree				Complete	Oct-22
	Repair caused by equipment failure				Complete	Oct-22

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
9	Perry	W-156	Clark	1,053	68	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.08	Trees Off Row-Tree	35%		
	SAIDI	330.68	Trees Off Row-Limb	28%		
	SAIFI	2.49	Equipment Failure	15%		
	CAIDI	133	All Other	22%		
	Customer Minutes	348,202				
	Customers Affected	2,623				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by tree				Complete	May-22
Rank	Substation	Circuit	District	Customers	Outages	
10	Mercer	W-167	Clark	854	32	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.87	Line Failure	37%		
	SAIDI	367.38	Trees Off Row-Limb	32%		
	SAIFI	1.93	Equipment Failure	18%		
	CAIDI	191	All Other	12%		
	Customer Minutes	313,745				
	Customers Affected	1,645				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by tree				Complete	Feb-22

Penn Power					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	1Q 2022	2Q 2022	3Q 2022	4Q 2022
Castlewood	D-326	X	X		
Ingomar	D620	X	X		
McDowell	W-121	X	X		
Seneca	W700	X	X		
Warrendale	D625	X	X		
Union	W-561	X	X	X	

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

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
1	Smith	Burgettstown	Washington Pa	1,901	75
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	6.42	Trees Off Row-Tree	80%	Q4 2022
	SAIDI	2,448.16	Unknown	9%	
	SAIFI	1.86	Ice	5%	
	CAIDI	1,314	All Other	6%	
	Customer Minutes	4,653,954			
	Customers Affected	3,542			
	Remedial Action Planned or Taken		Status	Progress	
	Restore Unknown outage			Complete	Oct-22
Rank	Substation	Circuit	District	Customers	Outages
2	Dutch Fork	Claysville	Washington Pa	1,640	99
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	6.03	Trees Off Row-Tree	59%	Q1 2022
	SAIDI	2,665.59	Unknown	20%	Q2 2022
	SAIFI	3.86	Ice	11%	Q3 2022
	CAIDI	690	All Other	10%	Q4 2022
	Customer Minutes	4,371,569			
	Customers Affected	6,335			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by ice during a storm			Complete	Feb-22
	Forced outage to repair damage during a storm			Complete	Apr-22
	Restore unknown outage during a storm			Complete	Jul-22
Restore unknown outage			Complete	Dec-22	
Overhead Circuit Inspection			To Be Completed 2023	0%	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
3	Hickory	Hickory	Washington Pa	951	58
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.50	Unknown	42%	Q1 2022
	SAIDI	4,189.98	Ice	37%	Q2 2022
	SAIFI	2.28	Equipment Failure	9%	Q3 2022
	CAIDI	1,835	All Other	12%	Q4 2022
	Customer Minutes	3,984,674			
	Customers Affected	2,172			
	Remedial Action Planned or Taken		Status	Progress	
	Restore unknown outage during a storm			Complete	Feb-22
	Repair damage caused by a tree during a storm			Complete	May-22
	Restore unknown outage			Complete	Aug-22
	Restore unknown outage			Complete	Dec-22
Rank	Substation	Circuit	District	Customers	Outages
4	Smith	Francis Mine	Washington Pa	1,433	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.49	Trees Off Row-Tree	93%	Q1 2022
	SAIDI	2,775.94	Trees Off Row-Limb	2%	Q2 2022
	SAIFI	2.68	Unknown	2%	Q3 2022
	CAIDI	1,034	All Other	3%	Q4 2022
	Customer Minutes	3,977,923			
	Customers Affected	3,846			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree during a storm			Complete	Feb-22
	Overhead Circuit Inspection			Complete	Mar-22
	Restore unknown outage			Complete	Jun-22
	Repair damage caused by a tree during a storm			Complete	Jul-22
	Repair damage caused by wind			Complete	Dec-22

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
5	Dutch Fork	W Alexander	Washington Pa	1,175	79
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.26	Ice	51%	Q1 2022
	SAIDI	3,246.27	Trees Off Row-Tree	35%	Q2 2022
	SAIFI	2.73	Unknown	11%	Q3 2022
	CAIDI	1,189	All Other	2%	Q4 2022
	Customer Minutes	3,814,362			
	Customers Affected	3,207			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree			Complete	Feb-22
	Repair damage caused by a tree during a storm			Complete	Jun-22
	Overhead Circuit Inspection			Complete	Jul-22
	Repair damage caused by a tree during a storm			Complete	Jul-22
	Restore outage caused by lightning			Complete	Nov-22
Rank	Substation	Circuit	District	Customers	Outages
6	Lagonda	Lagonda	Washington Pa	1,553	68
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.70	Trees Off Row-Tree	49%	Q2 2022
	SAIDI	2,195.13	Ice	43%	Q3 2022
	SAIFI	2.99	Trees On Row	3%	Q4 2022
	CAIDI	734	All Other	5%	
	Customer Minutes	3,409,035			
	Customers Affected	4,642			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree during a storm			Complete	Jun-22
	Repair damage caused by a tree			Complete	Sep-22
	Repair equipment failure			Complete	Dec-22
	Overhead Circuit Inspection			To Be Completed 2023	0%

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
7	Smith	Florence	Washington Pa	807	51
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.63	Trees Off Row-Tree	75%	Q1 2022
	SAIDI	4,155.88	Ice	17%	Q2 2022
	SAIFI	2.07	Trees On Row	6%	Q4 2022
	CAIDI	2,008	All Other	2%	
	Customer Minutes	3,353,793			
	Customers Affected	1,670			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree during a storm			Complete	Feb-22
	Repair damage caused by a tree during a storm			Complete	Jun-22
	Overhead Circuit Inspection			Complete	Dec-22
	Repair damage caused by a tree			Complete	Dec-22
	Rank	Substation	Circuit	District	Customers
8	Houston	McGovern	Washington Pa	2,098	56
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.64	Trees Off Row-Tree	63%	Q2 2022
	SAIDI	1,256.08	Ice	17%	Q3 2022
	SAIFI	2.47	Unknown	5%	Q4 2022
	CAIDI	509	All Other	15%	
	Customer Minutes	2,635,266			
	Customers Affected	5,175			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree			Complete	Apr-22
	Repair damage caused by a tree during a storm			Complete	Jul-22
	Repair damage caused by a tree			Complete	Dec-22

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
9	Donegal	Bear Rocks	Pleasant Valley	1,279	56
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.62	Trees Off Row-Tree	92%	Q1 2022
	SAIDI	2,051.81	Trees On Row	4%	Q2 2022
	SAIFI	2.70	Unknown	2%	Q3 2022
	CAIDI	760	All Other	3%	Q4 2022
	Customer Minutes	2,624,271			
	Customers Affected	3,451			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree during a storm			Complete	Feb-22
	Repair damage caused by a tree			Complete	Apr-22
	Zone 1 Infrared Inspection			Complete	Jun-22
	Repair damage caused by a tree			Complete	Sep-22
	Restore unknown outage			Complete	Oct-22
Rank	Substation	Circuit	District	Customers	Outages
10	Rutan	Bristoria	Jefferson	1,116	83
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.45	Trees Off Row-Tree	75%	Q1 2022
	SAIDI	2,242.84	Line Failure	8%	Q2 2022
	SAIFI	3.39	Unknown	6%	Q3 2022
	CAIDI	662	All Other	11%	Q4 2022
	Customer Minutes	2,503,005			
	Customers Affected	3,781			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree			Complete	Jan-22
	Repair damage caused by a tree			Complete	Apr-22
	Zone 1 Infrared Inspection			Complete	Jun-22
	Repair damage caused by a tree			Complete	Jul-22
	Repair line failure			Complete	Nov-22

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
11	Houston	Weavertown	Washington Pa	2,293	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.33	Unknown	36%	Q2 2022
	SAIDI	1,053.42	Trees Off Row-Tree	31%	Q3 2022
	SAIFI	3.85	Trees Off Row-Limb	16%	Q4 2022
	CAIDI	274	All Other	17%	
	Customer Minutes	2,415,492			
	Customers Affected	8,819			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree			Complete	May-22
	Repair damage caused by a tree			Complete	Jul-22
	Repair line failure			Complete	Dec-22
	Rank	Substation	Circuit	District	Customers
12	Hickory	Fort Cherry	Washington Pa	1,048	53
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.95	Trees Off Row-Tree	48%	Q1 2022
	SAIDI	2,040.83	Unknown	37%	Q2 2022
	SAIFI	3.85	Equipment Failure	10%	Q3 2022
	CAIDI	531	All Other	6%	Q4 2022
	Customer Minutes	2,138,795			
	Customers Affected	4,030			
	Remedial Action Planned or Taken		Status	Progress	
	Repair equipment failure			Complete	Feb-22
	Repair damage caused by a tree			Complete	May-22
	Restore unknown outage during a storm			Complete	Jul-22
	Restore unknown outage			Complete	Dec-22
Overhead Circuit Inspection			To Be Completed 2023	0%	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
13	Cecil	Bishop	Boyce	1,963	39
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.86	Trees On Row	52%	Q1 2022
	SAIDI	1,056.38	Trees Off Row-Tree	26%	Q2 2022
	SAIFI	3.17	Equipment Failure	12%	Q3 2022
	CAIDI	333	All Other	10%	Q4 2022
	Customer Minutes	2,073,682			
	Customers Affected	6,228			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree during a storm			Complete	Feb-22
	Repair damage caused by a tree during a storm			Complete	May-22
	Repair damage caused by a tree during a storm			Complete	Jul-22
	Restore unknown outage			Complete	Nov-22
	Rank	Substation	Circuit	District	Customers
14	White Valley	Congruity	Jeannette	1,731	39
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.29	Trees Off Row-Tree	70%	Q2 2022
	SAIDI	957.97	Unknown	12%	Q3 2022
	SAIFI	2.35	Trees On Row	8%	Q4 2022
	CAIDI	408	All Other	10%	
	Customer Minutes	1,658,241			
	Customers Affected	4,060			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree during a storm			Complete	May-22
	Repair line failure during a storm			Complete	Jul-22
	Repair damage caused by a tree			Complete	Dec-22

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
15	Saltsburg	Bell Township	Arnold	753	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.19	Trees Off Row-Tree	89%	Q1 2022
	SAIDI	2,110.53	Forced Outage	6%	Q2 2022
	SAIFI	4.69	Unknown	3%	Q3 2022
	CAIDI	450	All Other	2%	Q4 2022
	Customer Minutes	1,589,231			
	Customers Affected	3,530			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree			Complete	Mar-22
	Repair damage caused by a tree			Complete	May-22
	Repair damage caused by a tree during a storm			Complete	Aug-22
	Repair damage caused by a tree			Complete	Dec-22
	Overhead Circuit Inspection			To Be Completed 2023	0%
Rank	Substation	Circuit	District	Customers	Outages
16	Piney Fork	Gillhall	Charleroi	2,278	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.10	Trees Off Row-Tree	77%	Q1 2022
	SAIDI	667.28	Forced Outage	16%	Q2 2022
	SAIFI	2.67	Trees Off Row-Limb	2%	Q4 2022
	CAIDI	250	All Other	5%	
	Customer Minutes	1,520,069			
	Customers Affected	6,087			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree during a storm			Complete	Jun-22
	Forced outage to repair damage			Complete	Dec-22
Rank	Substation	Circuit	District	Customers	Outages
17	Houston	Pristine	Washington Pa	1,129	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.09	Trees Off Row-Tree	43%	Q1 2022
	SAIDI	1,340.10	Ice	25%	Q3 2022
	SAIFI	1.67	Line Failure	15%	Q4 2022
	CAIDI	800	All Other	17%	
	Customer Minutes	1,512,970			
	Customers Affected	1,891			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by ice during a storm			Complete	Feb-22
Repair damage caused by a tree during a storm			Complete	Jul-22	
Overhead Circuit Inspection			Complete	Dec-22	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
18	Fawn	Bull Creek	Arnold	858	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.07	Trees Off Row-Tree	98%	Q2 2022
	SAIDI	1,750.20	Trees On Row	2%	Q3 2022
	SAIFI	3.80	Unknown	0%	Q4 2022
	CAIDI	461	All Other	0%	
	Customer Minutes	1,501,670			
	Customers Affected	3,257			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree during a storm			Complete	Jun-22
	Repair damage caused by a tree during a storm			Complete	Jul-22
	Repair damage caused by a tree			Complete	Dec-22
	Overhead Circuit Inspection			To Be Completed 2023	0%
Rank	Substation	Circuit	District	Customers	Outages
19	St. Clair	Fort Couch	Boyce	1,157	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.94	Trees Off Row-Tree	79%	Q3 2022
	SAIDI	1,214.72	Trees On Row	11%	Q4 2022
	SAIFI	2.72	Trees Off Row-Limb	6%	
	CAIDI	446	All Other	4%	
	Customer Minutes	1,405,430			
	Customers Affected	3,152			
	Remedial Action Planned or Taken		Status	Progress	
	Repair line failure			Complete	Nov-21
	Repair damage caused by a tree during a storm			Complete	Aug-22
	Repair damage caused by a tree			Complete	Oct-22
	Rank	Substation	Circuit	District	Customers
20	Franklin (Wpp)	South Waynesburg	Jefferson	2,071	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.94	Unknown	62%	Q4 2022
	SAIDI	678.08	Trees Off Row-Tree	31%	
	SAIFI	3.74	Equipment Failure	5%	
	CAIDI	181	All Other	2%	
	Customer Minutes	1,404,300			
	Customers Affected	7,754			
	Remedial Action Planned or Taken		Status	Progress	
	Restore unknown outage			Complete	Dec-22

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
21	Peters	Mcmurray	Boyce	1,473	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.82	Trees Off Row-Tree	39%	Q3 2022
	SAIDI	897.39	Wind	32%	Q4 2022
	SAIFI	2.99	Unknown	9%	
	CAIDI	300	All Other	20%	
	Customer Minutes	1,321,860			
	Customers Affected	4,400			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree			Complete	Sep-22
	Restore unknown outage			Complete	Oct-22
Rank	Substation	Circuit	District	Customers	Outages
22	Shaffers Corner	Braeburn	Arnold	1,381	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.78	Trees Off Row-Tree	91%	Q3 2022
	SAIDI	934.69	Line Failure	7%	Q4 2022
	SAIFI	2.35	Equipment Failure	1%	
	CAIDI	397	All Other	1%	
	Customer Minutes	1,290,801			
	Customers Affected	3,251			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree during a storm			Complete	Aug-22
	Repair equipment failure			Complete	Dec-22
	Overhead Circuit Inspection			To Be Completed 2023	0%

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
23	Linden-Wash	Wylandville	Washington Pa	1,108	39
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.74	Trees Off Row-Tree	51%	Q2 2022
	SAIDI	1,136.30	Unknown	21%	Q3 2022
	SAIFI	4.57	Forced Outage	13%	Q4 2022
	CAIDI	249	All Other	15%	
	Customer Minutes	1,259,022			
	Customers Affected	5,061			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree during a storm			Complete	May-22
	Repair damage caused by a tree during a storm			Complete	Jul-22
	Zone 1 Infrared Inspection			Complete	Jul-22
	Restore unknown outage			Complete	Dec-22
	Rank	Substation	Circuit	District	Customers
24	Blue Ridge Summit	Sabillasville	Waynesboro	965	55
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.74	Line Failure	26%	Q4 2022
	SAIDI	1,304.57	Unknown	25%	
	SAIFI	3.62	Trees Off Row-Tree	18%	
	CAIDI	360	All Other	31%	
	Customer Minutes	1,258,913			
	Customers Affected	3,494			
	Remedial Action Planned or Taken		Status	Progress	
	Repair line failure			Complete	Dec-22
	Overhead Circuit Inspection			To Be Completed 2023	0%
	Rank	Substation	Circuit	District	Customers
25	Mateer	South Bend	Arnold	1,169	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.70	Equipment Failure	45%	Q3 2022
	SAIDI	1,051.81	Trees Off Row-Tree	21%	Q4 2022
	SAIFI	4.01	Unknown	18%	
	CAIDI	262	All Other	16%	
	Customer Minutes	1,229,569			
	Customers Affected	4,692			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree			Complete	Jul-22
	Repair damage caused by a tree			Complete	Oct-22

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
26	Hilliards	Hilliards	Butler	894	44
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.60	Trees Off Row-Tree	63%	Q3 2022
	SAIDI	1,298.35	Animal	20%	Q4 2022
	SAIFI	5.63	Forced Outage	6%	
	CAIDI	231	All Other	12%	
	Customer Minutes	1,160,727			
	Customers Affected	5,031			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by an animal			Complete	Aug-22
	Forced outage to repair damage			Complete	Nov-22
	Rank	Substation	Circuit	District	Customers
27	Robbins	Balkan	Jeannette	1,690	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.59	Trees Off Row-Tree	87%	Q1 2022
	SAIDI	682.65	Forced Outage	5%	Q2 2022
	SAIFI	2.04	Line Failure	3%	Q3 2022
	CAIDI	335	All Other	5%	Q4 2022
	Customer Minutes	1,153,686			
	Customers Affected	3,447			
	Remedial Action Planned or Taken		Status	Progress	
	Repair line failure			Complete	Feb-22
	Repair damage caused by a tree during a storm			Complete	May-22
	Forced outage to repair damage during a storm			Complete	Jul-22
	Restore unknown outage			Complete	Dec-22
Overhead Circuit Inspection			To Be Completed 2023	0%	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
28	Franklin (Wpp)	Rogersville	Jefferson	830	61
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.56	Trees Off Row-Tree	60%	Q1 2022
	SAIDI	1,360.05	Unknown	26%	Q2 2022
	SAIFI	1.91	Line Failure	5%	Q3 2022
	CAIDI	713	All Other	9%	Q4 2022
	Customer Minutes	1,128,843			
	Customers Affected	1,583			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree during a storm			Complete	Feb-22
	Repair damage caused by a tree during a storm			Complete	Jun-22
	Repair line failure			Complete	Sep-22
	Restore unknown outage			Complete	Dec-22
	Overhead Circuit Inspection			To Be Completed 2023	0%
Rank	Substation	Circuit	District	Customers	Outages
29	Millheim	Rebersburg	State College	808	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.55	Trees Off Row-Tree	94%	Q4 2022
	SAIDI	1,392.89	Line Failure	2%	
	SAIFI	1.84	Vehicle	2%	
	CAIDI	758	All Other	2%	
	Customer Minutes	1,125,454			
	Customers Affected	1,484			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree			Complete	Dec-22
Overhead Circuit Inspection			To Be Completed 2023	0%	
Rank	Substation	Circuit	District	Customers	Outages
30	Luzerne	Pike	Uniontown	1,602	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.54	Trees Off Row-Tree	83%	Q4 2022
	SAIDI	697.68	Vehicle	13%	
	SAIFI	1.68	Line Failure	3%	
	CAIDI	414	All Other	2%	
	Customer Minutes	1,117,677			
	Customers Affected	2,699			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a vehicle			Complete	Nov-22

West Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
31	Waterville	Waterville	State College	358	22	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.41	Other Electric Utility	73%	Q1 2022	
	SAIDI	2,847.76	Trees Off Row-Tree	20%	Q2 2022	
	SAIFI	5.61	Ug Dig-Up	4%	Q3 2022	
	CAIDI	508	All Other	2%	Q4 2022	
	Customer Minutes	1,019,499				
	Customers Affected	2,008				
	Remedial Action Planned or Taken		Status	Progress		
	Overhead Circuit Inspection			Complete	Mar-22	
	Restore outage caused by other electric utility during a storm			Complete	Mar-22	
	Restore outage caused by other electric utility during a storm			Complete	Jun-22	
	Repair damage caused by UG Dig-up			Complete	Aug-22	
	Restore outage caused by other electric utility			Complete	Oct-22	
Rank	Substation	Circuit	District	Customers	Outages	
32	Whitney	Youngstown	Latrobe	1,233	49	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.36	Trees Off Row-Tree	62%	Q3 2022	
	SAIDI	797.48	Animal	13%	Q4 2022	
	SAIFI	3.39	Wind	10%		
	CAIDI	236	All Other	15%		
	Customer Minutes	983,296				
	Customers Affected	4,175				
	Remedial Action Planned or Taken		Status	Progress		
	Overhead Circuit Inspection			Complete	Aug-22	
	Repair damage caused by a tree			Complete	Sep-22	
	Repair damage caused by wind			Complete	Dec-22	
	Rank	Substation	Circuit	District	Customers	Outages
	33	Nittany No. 2	Clintondale	State College	767	24
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		1.32	Equipment Failure	82%	Q4 2022	
SAIDI		1,245.32	Trees Off Row-Tree	13%		
SAIFI		2.81	Vehicle	2%		
CAIDI		443	All Other	2%		
Customer Minutes		955,162				
Customers Affected		2,156				
Remedial Action Planned or Taken		Status	Progress			
Repair equipment failure			Complete	Dec-22		

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
34	Rutan	Windridge	Jefferson	564	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.32	Trees Off Row-Tree	96%	Q3 2022
	SAIDI	1,692.14	Unknown	3%	Q4 2022
	SAIFI	2.34	Trees On Row	0%	
	CAIDI	723	All Other	0%	
	Customer Minutes	954,365			
	Customers Affected	1,320			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree			Complete	Aug-22
	Overhead Circuit Inspection			Complete	Oct-22
	Repair damage caused by a tree			Complete	Nov-22
	Rank	Substation	Circuit	District	Customers
35	Galley	Waterdam	Washington Pa	1,561	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.30	Trees Off Row-Tree	50%	Q2 2022
	SAIDI	605.53	Wind	20%	Q3 2022
	SAIFI	2.59	Trees On Row	20%	Q4 2022
	CAIDI	234	All Other	9%	
	Customer Minutes	945,231			
	Customers Affected	4,048			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree during a storm			Complete	May-22
	Repair damage caused by a tree			Complete	Jul-22
	Repair line failure			Complete	Dec-22
	Rank	Substation	Circuit	District	Customers
36	Robbins	Mt. Vernon	Jeannette	1,034	19
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.27	Equipment Failure	43%	Q2 2022
	SAIDI	887.28	Trees Off Row-Tree	38%	Q3 2022
	SAIFI	2.52	Trees Off Row-Limb	15%	Q4 2022
	CAIDI	352	All Other	4%	
	Customer Minutes	917,452			
	Customers Affected	2,609			
	Remedial Action Planned or Taken		Status	Progress	
	Repair equipment failure during a storm			Complete	May-22
	Repair equipment failure			Complete	Jul-22
	Overhead Circuit Inspection			Complete	Aug-22

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
37	Bethel Park	Clifton	Boyce	980	16
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.24	Trees Off Row-Tree	88%	Q3 2022
	SAIDI	919.88	Trees Off Row-Limb	7%	Q4 2022
	SAIFI	2.20	Unknown	2%	
	CAIDI	418	All Other	3%	
	Customer Minutes	901,487			
	Customers Affected	2,156			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree			Complete	Sep-22
	Restore unknown outage			Complete	Oct-22
Rank	Substation	Circuit	District	Customers	Outages
38	California	Malden	Charleroi	1,101	38
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.24	Trees Off Row-Tree	67%	Q3 2022
	SAIDI	817.46	Line Failure	22%	Q4 2022
	SAIFI	3.24	Unknown	5%	
	CAIDI	252	All Other	6%	
	Customer Minutes	900,018			
	Customers Affected	3,568			
	Remedial Action Planned or Taken		Status	Progress	
	Repair damage caused by a tree			Complete	Sep-22
	Restore unknown outage			Complete	Oct-22
Rank	Substation	Circuit	District	Customers	Outages
39	Bentleyville	Ellsworth	Charleroi	1,212	38
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.22	Trees Off Row-Tree	60%	Q4 2022
	SAIDI	732.53	Forced Outage	26%	
	SAIFI	2.81	Unknown	10%	
	CAIDI	261	All Other	4%	
	Customer Minutes	887,826			
	Customers Affected	3,406			
	Remedial Action Planned or Taken		Status	Progress	
	Forced outage to repair damage			Complete	Dec-22

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
40	Branchton	Forestville	Butler	1,156	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.21	Trees Off Row-Tree	50%	Q4 2022
	SAIDI	761.20	Unknown	24%	
	SAIFI	4.55	Wind	10%	
	CAIDI	167	All Other	15%	
	Customer Minutes	879,942			
	Customers Affected	5,260			
	Remedial Action Planned or Taken		Status	Progress	
	Forced outage to repair damage			Complete	Dec-22

West Penn					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	1Q 2022	2Q 2022	3Q 2022	4Q 2022
Amity	Banetown	X	X		
Avella	Penowa	X	X		
Avella	W Middletown	X	X	X	
Cecil	Murray Hill	X	X		
Crossgates	Peters Twp	X	X		
Flintstone	Chaneyville	X	X		
Gordon	Wolfdale	X	X		
Graysville	Graysville	X	X	X	
Karns City	Kaylor	X	X		
Midway	Midway	X	X		
North Fayette	Tyre	X	X	X	
Paris	Paris	X	X	X	
Peters	Library	X	X		
Thomas	Thomas	X	X	X	
Treveskyn	Treveskyn	X	X		
Vestaburg	Fredericktown	X	X		

West Penn				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned	Status of Remedial Work	Progress of Remedial Work
Graysville	Graysville	Overhead circuit inspection	Complete	Oct-22

Pursuant to Docket Nos. D-2014-2365991, D-2014-2365992, D-2014-2365993, and D-2014-2365994, (Appendix A)(3): The Companies are 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 Company.

Met-Ed –Third Party Line Hit Incidents			
4th Quarter 2022 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	14	14,140	1,028
Excavated in Tolerance	20	49,652	0
Excavation Inconsistent with Ticket Scope	5	10,328	0
Excavation Prior to Lawful Start Date	4	3,448	0
Expired Ticket	3	4,768	0
Hand Digging	0	0	0
Marked Improperly	19	102,644	0
No Ticket	28	98,087	1,150
Total	93	283,067.00	1,722

Penelec – Third Party Line Hit Incidents			
4th Quarter 2022 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	37	43,238	2,990
Excavated in Tolerance	29	41,595	3,853
Excavation Inconsistent with Ticket Scope	3	6,095	4,953
Excavation Prior to Lawful Start Date	5	2,615	0
Expired Ticket	4	18,715	0
Hand Digging	0	0	0
Marked Improperly	24	98,830	4,821
No Ticket	29	35,592	4,671
Total	131	246,680	21,288

Penn Power – Third Party Line Hit Incidents			
4th Quarter 2022 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	8	5,068	0
Excavated in Tolerance	9	6,346	154
Excavation Inconsistent with Ticket Scope	5	3,569	0
Excavation Prior to Lawful Start Date	1	0	0
Expired Ticket	1	0	0
Hand Digging	0	0	0
Marked Improperly	3	9,824	0
No Ticket	6	6,727	100
Total	33	31,534	254

West Penn – Third Party Line Hit Incidents			
4th Quarter 2022 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	52	45,001	1,361
Excavated in Tolerance	21	32,134	1,450
Excavation Inconsistent with Ticket Scope	4	5,641	0
Excavation Prior to Lawful Start Date	2	2,090	0
Expired Ticket	2	2,397	0
Hand Digging	2	0	0
Marked Improperly	28	106,279	6,845
No Ticket	29	71,169	7,293
Total	140	264,711	16,949

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

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Joint 4th Quarter 2022 Reliability Report – :
Metropolitan Edison Company, :
Pennsylvania Electric Company : **Docket No. M-2016-2522508**
Pennsylvania Power Company and West :
Penn Power Company – Public Version :

CERTIFICATE OF SERVICE

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

Service by electronic mail, as follows:

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

Richard Kanaskie, Director
Bureau of Investigation and Enforcement
Pennsylvania Public Utility Commission
400 North Street 2nd Floor West
Harrisburg, PA 17105-3265
rkanaskie@pa.gov

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

Byron Farnsworth, Jr.
Chief Operating Officer
Robert S. McCarthy, VP of Operations
Wellsboro Electric Company
33 Austin Street
Wellsboro, PA 16901
barneyf@ctenterprises.org
bobbym@ctenterprises.org

Amy E. Hirakis, Esquire
800 North 3rd Street, Suite 204
Harrisburg, PA 17102
ahirakis@nisource.com

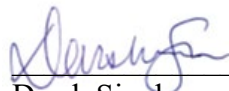
Kimberly A. Klock, Esquire
PPL Services Corp.
2 North 9th Street
Allentown, PA 18101
kklock@pplweb.com

John Kelchner
Nathan Johnson, Director of Operations
Citizens' Electric Company of Lewisburg, PA
1775 Industrial Boulevard
Lewisburg, PA 17837
kelchnerj@citizenselectric.com
johnsonn@citizenselectric.com

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

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

Dated: February 1, 2023



Darsh Singh
Attorney No. 330971
FirstEnergy Service Company
2800 Pottsville Pike
P.O. Box 16001
Reading, Pennsylvania 19612-6001
(610) 212-8331
singhd@firstenergycorp.com

Counsel for Metropolitan Edison Company,
Pennsylvania Electric Company,
Pennsylvania Power Company and
West Penn Power Company