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August 1, 2022

VIA E-FILING

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

Re: Joint 2nd 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 2nd 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 email and first-class mail)
J. Van Zant – Bureau of Technical Utility Services (via email and first-class mail)
Derek Ruhl - PaPUC Bureau of Technical Utility Services (via electronic mail)
Harry Bidelspach – PaPUC Bureau of Technical Utility Services (via electronic mail)



Joint 2022 2nd 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 2nd 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
Penn Power	24,536	Duration	68 hours 50 minutes	Thunderstorms	Approved June 29, 2022
		Start Date/Time	5/21/22 1940		
		End Date/Time	5/24/22 1630		

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.

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

2Q 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	1.45	1.26	1.52	1.94	1.12	1.34	1.36	1.05	1.26	1.46
CAIDI	117	140	181	117	141	190	101	121	130	170	204	266
SAIDI	135	194	262	148	213	369	113	162	176	179	257	388
MAIFI²			0.530			0.687			0.728			
Customers Served³	574,685			579,873			167,346			723,708		
Number of Sustained Interruptions	14,215			16,086			3,528			14,700		
Customers Affected	830,564			1,127,224			226,975			1,056,123		
Customer Minutes	150,510,793			214,067,085			29,424,498			281,154,820		
Number of Customer Momentary Interruptions	304,577			398,562			121,864					

² MAIFI values are not available for West Penn.

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

Unique Events Occurring in 2Q 2022:

Penelec

- Beginning Monday afternoon, April 18, 2022, a spring snowstorm producing a mix of rain, freezing rain, and heavy, wet snow moved from west to east across Pennsylvania, including Penelec's service territory. Total snow amounts in Penelec's northeast territory reached nearly 15 inches. Wind gusts in Penelec's northeast service territory exceeded 40 miles per hour on April 19, 2022. The reliability impact of the storm was 91.8 minutes of System Average Interruption Duration Index ("SAIDI"), 0.08 of System Average Interruption Frequency Index ("SAIFI"), and an overall storm Customer Average Interruption Duration Index ("CAIDI") of 1,087.6 minutes.
- Beginning late Saturday afternoon on May 21, 2022 and continuing into Sunday morning on May 22, 2022, a thunderstorm producing periods of rain, lightning, and wind gusts moved into Pennsylvania, including the Penelec service territory. Wind gusts in the Penelec service territory exceeded 40 miles per hour and portions of the service territory received up to two inches of rain. The reliability impact of the storm was 7.1 minutes of SAIDI, 0.02 of SAIFI, and an overall storm CAIDI of 375.6 minutes.

Penn Power

- Beginning late Saturday afternoon on May 21, 2022 and continuing into Sunday morning on May 22, 2022, a thunderstorm producing periods of rain, lightning, and wind gusts moved into Pennsylvania, including the Penn Power service territory. Wind gusts in the Penn Power service territory exceeded 59 miles per hour and portions of the service territory received up to two inches of rain. The reliability impact of the storm was 120.5 minutes of SAIDI, 0.15 of SAIFI, and an overall storm CAIDI of 820.8 minutes.

West Penn

- Beginning the afternoon of Tuesday May 3, 2022, a strong thunderstorm moved throughout the West Penn service territory. West Penn experienced sustained winds with maximum wind gusts in excess of 59 miles per hour and periods of heavy rain accumulating between one to two inches. The reliability impact of the storm was 40.6 minutes of SAIDI, 0.08 of SAIFI, and an overall storm CAIDI of 523.3 minutes.
- Beginning the afternoon of Thursday, June 16, 2022, a long-lived supercell thunderstorm moved throughout the West Penn service territory from northwest to southeast. Wind gusts of 70 miles per hour were reported in Elk County where a large portion of the damage occurred. The reliability impact of the storm was 10.6 minutes of SAIDI, 0.04 minutes of SAIFI, and an overall storm CAIDI of 259.25 minutes.
- Beginning the afternoon of Thursday, June 22, 2022, strong thunderstorms moved throughout the West Penn service territory. The reliability impact of the storm was 8.3 minutes of SAIDI, 0.06 of SAIFI, and an overall storm CAIDI of 142.23 minutes

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

Worst Performing Circuits – Reliability Indices

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

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

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

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

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

Worst Performing Circuits – Remedial Actions

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

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

Outages by Cause – Met-Ed

Outage by Cause				
2nd Quarter 2022 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	72,555,661	3,435	242,945	48.21%
Equipment failure	26,966,865	2,998	193,734	17.92%
Vehicle	10,237,509	336	51,727	6.80%
Unknown	8,398,897	1,450	72,586	5.58%
Trees off ROW - limb	6,270,479	683	30,462	4.17%
Forced outage	5,221,429	563	96,842	3.47%
Line failure	4,946,977	751	28,284	3.29%
Lightning	3,767,658	322	18,594	2.50%
Wind	3,589,459	200	11,175	2.38%
Animal	3,406,328	1,817	49,255	2.26%
Human error - company	1,252,259	53	12,326	0.83%
Trees - sec/service	1,118,606	626	2,039	0.74%
Trees on ROW	936,209	100	5,886	0.62%
Bird	468,668	599	3,908	0.31%
Object contact with line	397,739	62	3,680	0.26%
Overload	296,608	58	2,347	0.20%
Human error - non-company	259,787	44	2,010	0.17%
Customer equipment	117,462	27	270	0.08%
Previous lightning	112,244	17	410	0.07%
UG dig-up	62,166	33	458	0.04%
Ice	57,348	16	333	0.04%
Other utility - non-electric	42,174	7	1,104	0.03%
Contamination	14,355	1	145	0.01%
Other electric utility	6,719	7	18	0.00%
Fire	6,469	5	21	0.00%
Vandalism	718	5	5	0.00%
Total	150,510,793	14,215	830,564	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 June 30, 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") programs⁴ that set forth schedules for regular inspections of distribution and substation facilities. These programs are geared towards specific components such as capacitors, poles, circuits, transformers, radio-controlled switches, substations, and reclosers. Equipment identified is repaired or replaced as appropriate.

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.

⁴ 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				
2nd Quarter 2022 12-Month Rolling	Penelec			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	74,671,083	2,503	271,117	34.88%
Equipment failure	33,116,752	3,007	270,650	15.47%
Line failure	16,985,815	1,619	127,764	7.93%
Forced outage	9,504,118	1,290	89,662	4.44%
Unknown	10,271,822	2,088	102,295	4.80%
Lightning	6,579,134	673	48,617	3.07%
Trees off ROW - limb	7,104,893	480	48,730	3.32%
Vehicle	5,156,672	313	32,507	2.41%
Animal	4,001,754	1,790	43,035	1.87%
Wind	2,876,950	93	8,356	1.34%
Object contact with line	1,270,279	41	4,740	0.59%
Trees - sec/service	1,071,958	922	2,849	0.50%
Human error - company	952,933	67	14,857	0.45%
Bird	776,067	521	13,773	0.36%
Other electric utility	901,558	98	2,328	0.42%
Trees on ROW	546,992	74	2,164	0.26%
Human error - non-company	591,035	66	4,391	0.28%
UG dig-up	81,658	41	624	0.04%
Customer equipment	49,386	18	451	0.02%
Overload	98,275	22	3,267	0.05%
Ice	37,166,103	291	33,841	17.36%
Contamination	69,362	38	422	0.03%
Previous lightning	27,386	10	28	0.01%
Fire	3,380	4	30	0.00%
Other utility - non-electric	47,123	2	382	0.02%
Vandalism	8,172	13	24	0.00%
Switching Error	136,425	2	320	0.06%
Total	214,067,085	16,086	1,127,224	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 June 30, 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				
2nd Quarter 2022 12-Month Rolling	Penn Power			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	14,599,950	897	71,183	49.62%
Equipment failure	3,720,410	368	28,518	12.64%
Line failure	2,636,874	307	27,071	8.96%
Animal	1,862,342	508	16,211	6.33%
Vehicle	1,743,189	91	12,032	5.92%
Lightning	1,227,639	298	7,553	4.17%
Trees off ROW - limb	1,066,084	193	6,565	3.62%
Unknown	883,015	149	24,486	3.00%
Forced outage	578,449	82	11,162	1.97%
Bird	340,507	360	4,322	1.16%
Trees - sec/service	238,131	175	475	0.81%
Human error - company	217,138	24	14,681	0.74%
Human error - non-company	187,484	23	1,238	0.64%
Overload	62,912	8	826	0.21%
UG dig-up	24,082	13	256	0.08%
Object contact with line	14,118	5	159	0.05%
Customer equipment	8,259	9	136	0.03%
Other electric utility	7,038	1	69	0.02%
Trees on ROW	3,770	2	4	0.01%
Previous lightning	1,213	8	8	0.00%
Ice	1,066	4	6	0.00%
Other utility - non-electric	720	1	12	0.00%
Vandalism	108	2	2	0.00%
Total	29,424,498	3,528	226,975	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 June 30, 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				
2nd Quarter 2022 12-Month Rolling	West Penn			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	143,142,949	3,867	366,037	50.91%
Unknown	22,499,839	1,847	120,166	8.00%
Line failure	20,620,240	1,534	103,837	7.33%
Equipment failure	20,460,895	2,057	131,490	7.28%
Ice	19,231,102	116	11,788	6.84%
Trees on ROW	13,260,012	569	45,539	4.72%
Wind	9,749,738	181	19,644	3.47%
Vehicle	9,101,588	331	61,917	3.24%
Trees off ROW - limb	6,911,900	306	36,540	2.46%
Forced outage	6,428,310	749	78,000	2.29%
Animal	3,449,759	1,673	44,638	1.23%
Lightning	1,184,903	212	3,814	0.42%
Human error - company	981,875	31	10,366	0.35%
Trees - sec/service	953,585	559	1,429	0.34%
Other electric utility	871,094	17	1,957	0.31%
Bird	856,848	479	9,484	0.30%
Object contact with line	615,233	32	3,439	0.22%
Human error - non-company	330,453	48	3,440	0.12%
Fire	223,357	15	988	0.08%
Overload	120,780	7	721	0.04%
UG dig-up	75,846	34	590	0.03%
Vandalism	62,703	9	70	0.02%
Other utility - non-electric	9,056	5	44	0.00%
Customer equipment	7,641	14	37	0.00%
Previous Lightning	3,223	4	7	0.00%
Switching error	1,380	1	138	0.00%
Contamination	511	3	3	0.00%
Total	281,154,820	14,700	1,056,123	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 June 30, 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).

Inspection and Maintenance		Met-Ed			Penelec			Penn Power			West Penn		
2022		Planned	Completed		Planned	Completed		Planned	Completed		Planned	Completed	
		Annual	2Q	YTD	Annual	2Q	YTD	Annual	2Q	YTD	Annual	2Q	YTD
Forestry	Transmission (Miles)	258.79	48.41	175.86	441.62	124.9	273.83	61.75	19.75	28.1	308.61	61.1	162.9
	Distribution (Miles)	2,905	773	1,411	3,780	957	1,784	1,113	288	608	4,606	1,247	2,255
Transmission	Aerial Patrols	2	1	1	2	1	1	2	0	1	2	1	1
	Groundline	0	145	145	3,102	2,352	2,882	0	0	0	642	713	713
Substation	Substation Inspections Class A	418	0	209	782	1	391	148	0	74	938	0	469
	Substation Inspections Class B	418	209	209	782	391	391	148	74	74	938	469	469
	Substation Inspections Class C	1,672	418	836	3,128	782	1,564	592	148	296	3,752	938	1,876
	Transformers	137	41	59	397	157	295	11	0	0	343	167	288
	Breakers	71	22	30	346	145	230	12	7	9	379	136	170
	Relay Schemes	218	58	154	177	84	136	26	6	6	44	14	22
Distribution	Capacitors	4,823	11	4,834	8,681	0	8,681	963	0	963	1,316	0	1,316
	Poles	45,000	13,945	19,262	41,584	21,342	31,284	10,802	5,677	6,473	55,344	21,379	25,959
	Reclosers	1,355	490	1,208	2,588	0	0	985	0	985	4,077	680	4,077
	Radio-Controlled Switches	1,450	578	725	2,652	1,050	1,314	Penn Power has no radio-controlled switches			West Penn has no radio-controlled switches		

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

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

Section 57.195(e)(7): Quarterly and year-to-date information on budgeted versus actual transmission and distribution operation and maintenance expenditures in total and detailed by the EDC's own functional account code as available. (For first, second, and third quarter reports only).

Budgeted vs. Actual T&D Operation & Maintenance Expenditures⁵

This portion of the report is confidential.

⁵ Budgets are subject to change.

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

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).

Budgeted vs. Actual T&D Capital⁶ Expenditures⁷

This portion of the report is confidential.

⁶ General note: Capital reported on Generally Accepted Accounting Principles (GAAP) basis.

⁷ 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).⁸

Staffing Levels

Met-Ed 2022												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2023 ¹¹
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ⁹	Retirement	Voluntary Separation	Other ¹⁰	
Distribution	Line Leader	52	47					3	3	1	4	
	Line Troubleshooter	35	35									
	Lineman	151	161				10					
Substation	Substation Leader	15	14						1			
	Substation Employee	60	63			2	4	1	2		2	
Transmission	Line Leader	2	1						1			
	Lineman	11	11									
Total		326	332			2	14	4	7	1	6	

⁸ As ordered on March 30, 2015 at Docket Nos. D-2014-2365991, D-2014-2365992, D-2014-2365993, and D-2014-2365994, *Implementation Plan of the Focused Management Audit of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company, and West Penn Power Company* (Appendix A) (5), the Companies are directed to provide additional detail as described below in the staff reporting section in the Quarterly Reliability Reports. Specifically, for each staff member added, the Companies provide information on whether they were a new hire, whether they were already at the journeyman level, or whether they had obtained some other experienced level of training. For each staff member lost, the Companies provide the reason for the loss (retirement, voluntary separation, etc.). Additionally, the Companies also disclose the number of staff in each category that each one is planning to hire in the next calendar year.

⁹ Includes transfers and promotions.

¹⁰ Includes transfers, voluntary separations, and promotions.

¹¹ Hiring plan to be provided annually in the 4Q report.

Penelec 2022												
Department	Position	Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2023 ¹⁴
		1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹²	Retirement	Voluntary Separation	Other ¹³	
Distribution	Line Leader	58	59					5	2		2	
	Line Troubleshooter	73	68					2	1		6	
	Lineman	148	157			1	10	20		1	21	
Substation	Substation Leader	28	29					1				
	Substation Employee	47	51				6	8			10	
Transmission	Line Leader	5	5									
	Lineman	19	19									
	Total	378	388			1	16	36	3	1	39	

¹² Includes transfers and promotions.

¹³ Includes transfers, involuntary separations, and promotions.

¹⁴ Hiring plan to be provided annually in the 4Q report.

Penn Power 2022												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2023 ¹⁷
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁵	Retirement	Voluntary Separation	Other ¹⁶	
Distribution	Line Leader	25	24					1	1		1	
	Line Troubleshooter	14	14					2			2	
	Lineman	41	42				2				1	
Substation	Substation Leader	5	5									
	Substation Employee	19	19									
Transmission	Line Leader	1	1									
	Lineman	5	5									
Total		110	110				2	3	1		4	

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

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

¹⁷ Hiring plan to be provided annually in the 4Q report.

West Penn 2022												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2023 ²⁰
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁸	Retirement	Voluntary Separation	Other ¹⁹	
Distribution	Line Leader	67	67									
	Line Troubleshooter	55	57					4			2	
	Lineman	145	153				10	28			30	
Substation	Substation Leader	22	21					1			2	
	Substation Employee	75	79				6	10	1		11	
Transmission	Line Leader	2	0								2	
	Lineman	8	9				1					
Total		374	386				17	43	1		47	

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

¹⁹ Includes transfers, involuntary separations, promotions, and promotions within a position.

²⁰ Hiring plan to be provided annually in the 4Q report.

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

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

Contractor Expenditures

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

This portion of the report is confidential.

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

Call-out Acceptance Rate

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

This portion of the report is confidential.

Call-out 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	No Bangor	00826-3	Easton	3,179	190	1	3,151,371	11,388	5.48	991.31	3.58	276.73	0.379
2	Bushkill Falls	00698-3	Stroudsburg	1,758	33	3	2,344,313	4,004	4.08	1,333.51	2.28	585.49	0.001
3	Snydersville	00621-3	Stroudsburg	1,296	68	5	2,270,182	7,969	3.95	1,751.68	6.15	284.88	0.000
4	Barto	00706-1	Boyertown	2,957	172	1	2,225,269	6,446	3.87	752.54	2.18	345.22	0.933
5	Birdsboro	00756-1	Reading	1,529	108	3	2,058,047	9,393	3.58	1,346.01	6.14	219.10	8.142
6	Huffs Church	00600-1	Boyertown	1,640	160	0	1,846,914	4,112	3.21	1,126.17	2.51	449.15	0.328
7	North Lebanon	00712-2	Lebanon	2,583	74	5	1,825,790	9,107	3.18	706.85	3.53	200.48	6.992
8	Shawnee	00860-3	Stroudsburg	3,222	55	5	1,565,478	12,279	2.72	485.87	3.81	127.49	0.000
9	Lynnville	00737-1	Hamburg	1,077	143	0	1,534,280	3,962	2.67	1,424.59	3.68	387.25	0.000
10	Bairs	00571-4	York	2,369	87	3	1,286,408	8,709	2.24	543.02	3.68	147.71	0.720
11	Cly	00721-4	York	823	58	3	1,228,633	3,609	2.14	1,492.87	4.39	340.44	0.000
12	Flying Hills	00777-1	Reading	1,789	69	0	1,155,279	4,934	2.01	645.77	2.76	234.15	0.178
13	Tolna	00792-4	York	1,850	44	2	1,147,910	5,673	2.00	620.49	3.07	202.35	0.000
14	Mountain	00744-4	Dillsburg	1,833	94	0	1,134,214	5,527	1.97	618.77	3.02	205.21	0.000
15	Lynnville	00735-1	Hamburg	1,392	57	0	1,082,032	3,274	1.88	777.32	2.35	330.49	0.000
16	Ferndale	00871-3	Easton	488	47	1	1,080,049	2,326	1.88	2,213.22	4.77	464.34	1.930
17	North Cornwall	00610-2	Lebanon	2,346	71	1	1,074,592	6,418	1.87	458.05	2.74	167.43	1.106
18	Friedensburg	00141-1	Reading	650	63	0	1,036,053	1,944	1.80	1,593.93	2.99	532.95	0.000
19	Barto	00705-1	Boyertown	654	87	0	1,033,836	2,620	1.80	1,580.79	4.01	394.59	0.193
20	Shawnee	00899-3	Stroudsburg	1,677	38	3	958,933	3,959	1.67	571.81	2.36	242.22	3.345
21	North Lebanon	00715-2	Lebanon	1,619	48	2	899,760	4,004	1.57	555.75	2.47	224.72	0.000
22	Pleasantville	00142-1	Boyertown	819	86	2	883,358	3,404	1.54	1,078.58	4.16	259.51	0.000
23	Hill	00735-4	York	1,622	79	1	867,335	4,226	1.51	534.73	2.61	205.24	0.027
24	Raintree	00642-4	York	1,838	53	1	862,030	4,225	1.50	469.00	2.30	204.03	2.514
25	S Hamburg	00740-1	Hamburg	1,275	82	0	827,384	2,407	1.44	648.93	1.89	343.74	0.032
26	Angelica	00129-1	Reading	700	42	1	818,652	1,527	1.42	1,169.50	2.18	536.12	1.001
27	Collins	00760-2	Lebanon	1,113	55	2	809,981	2,209	1.41	727.75	1.98	366.67	0.000
28	Raubsville St	00079-3	Easton	799	24	1	800,470	2,839	1.39	1,001.84	3.55	281.95	0.000

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
29	Violet Hill	00527-4	York	1,283	28	7	794,493	6,440	1.38	619.25	5.02	123.37	3.872
30	Hill	00737-4	York	2,335	50	2	769,612	5,701	1.34	329.60	2.44	135.00	4.070
31	Lynnville	00749-1	Hamburg	852	73	0	745,955	1,876	1.30	875.53	2.20	397.63	0.000
32	Grantley	00539-4	York	680	14	5	740,940	3,278	1.29	1,089.62	4.82	226.03	0.000
33	Ringing Rocks	00708-1	Boyertown	2,461	57	4	735,656	6,205	1.28	298.93	2.52	118.56	0.061
34	W Boyertown	00715-1	Boyertown	1,698	65	1	717,600	3,485	1.25	422.61	2.05	205.91	0.000
35	Birdsboro	00759-1	Reading	931	49	3	709,830	3,534	1.24	762.44	3.80	200.86	0.000
36	Ottsville	00661-3	Easton	596	73	2	699,012	2,335	1.22	1,172.84	3.92	299.36	0.247
37	North Hanover	00505-4	Hanover	1,380	29	3	691,919	3,027	1.20	501.39	2.19	228.58	0.000
38	North Cornwall	00611-2	Lebanon	907	30	3	685,286	1,734	1.19	755.55	1.91	395.21	0.814
39	Carsonia	00767-1	Reading	936	29	3	679,615	3,497	1.18	726.08	3.74	194.34	0.000

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	1,224	100	3	4,342,736	6,696	7.49	3,547.99	5.47	648.56	0.007
2	Tiffany	00435-65	Montrose	1,565	87	7	4,340,339	9,446	7.48	2,773.38	6.04	459.49	1.981
3	N Meshoppen	00534-65	Montrose	886	105	0	3,873,878	3,224	6.68	4,372.32	3.64	1,201.58	0.395
4	Tiffany	00440-65	Montrose	1,159	48	1	3,681,438	7,952	6.35	3,176.39	6.86	462.96	1.469
5	Natl Forge Sw Station	00577-41	Warren	1,150	78	1	3,312,776	6,200	5.71	2,880.67	5.39	534.32	2.036
6	N Meshoppen	00531-65	Montrose	618	55	4	3,291,634	4,817	5.68	5,326.27	7.79	683.34	0.961
7	Wyalusing	00532-62	Towanda	721	64	3	2,872,952	3,368	4.95	3,984.68	4.67	853.01	0.929
8	Madera	00166-22	Philipsburg	1,442	78	1	2,688,056	6,256	4.64	1,864.12	4.34	429.68	0.261
9	Dubois	00137-23	Dubois	2,889	122	0	2,391,309	7,026	4.12	827.73	2.43	340.35	0.490
10	Russell Hill	00282-65	Montrose	769	52	0	2,242,810	3,156	3.87	2,916.53	4.10	710.65	0.013
11	Lenox	00755-65	Montrose	682	57	0	2,161,871	3,520	3.73	3,169.90	5.16	614.17	0.000
12	Laurel Lake	00769-65	Montrose	485	28	2	2,157,568	1,737	3.72	4,448.59	3.58	1,242.12	0.000
13	Montrose	00457-65	Montrose	570	48	2	2,022,989	1,628	3.49	3,549.10	2.86	1,242.62	1.665
14	Lake Como	00788-65	Montrose	638	41	6	1,901,289	2,341	3.28	2,980.08	3.67	812.17	1.000
15	Thompson	00442-65	Montrose	596	28	1	1,896,784	1,711	3.27	3,182.52	2.87	1,108.58	0.007
16	Knox	00323-51	Oil City	1,144	53	8	1,792,371	11,240	3.09	1,566.76	9.83	159.46	0.003
17	Marienville	00328-51	Oil City	1,207	74	0	1,756,926	5,169	3.03	1,455.61	4.28	339.90	0.013
18	Brooklyn	00749-65	Montrose	496	36	0	1,657,485	1,276	2.86	3,341.70	2.57	1,298.97	0.000
19	Cranberry	00350-51	Oil City	1,070	58	4	1,449,834	5,260	2.50	1,354.99	4.92	275.63	0.007
20	East Sayre	00518-61	Towanda	947	50	0	1,430,643	1,936	2.47	1,510.71	2.04	738.97	0.012
21	Tunkhannock	00533-65	Montrose	1,243	93	0	1,367,596	3,048	2.36	1,100.24	2.45	448.69	6.113
22	Russell Hill	00765-65	Montrose	373	40	0	1,278,442	1,727	2.20	3,427.46	4.63	740.27	0.000
23	Spangler Sub	00052-72	Altoona	934	15	3	1,230,107	3,922	2.12	1,317.03	4.20	313.64	0.000
24	Laurel Lake	00449-65	Montrose	520	50	2	1,189,035	1,322	2.05	2,286.61	2.54	899.42	0.973
25	Saxton	00625-73	Altoona	351	24	2	1,176,918	3,680	2.03	3,353.04	10.48	319.81	1.695
26	Union City	00206-43	Erie	2,886	134	2	1,161,727	8,875	2.00	402.54	3.08	130.90	0.860
27	Meshoppen	00283-65	Montrose	384	23	0	1,153,290	1,233	1.99	3,003.36	3.21	935.35	0.000
28	East Towanda	00525-62	Towanda	618	46	1	1,129,225	2,548	1.95	1,827.22	4.12	443.18	1.673

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
29	Industrial Park	00796-65	Montrose	357	27	4	1,119,365	1,659	1.93	3,135.48	4.65	674.72	0.000
30	Oxbow	00555-65	Montrose	728	48	0	1,111,908	2,943	1.92	1,527.35	4.04	377.81	0.751
31	Piney	00523-51	Oil City	1,502	91	8	1,104,948	10,004	1.91	735.65	6.66	110.45	2.066
32	Ppl West	PL097-62	Towanda	104	15	0	1,095,177	1,001	1.89	10,530.55	9.63	1,094.08	0.000
33	Brooklyn	00748-65	Montrose	196	31	0	1,058,784	763	1.83	5,401.96	3.89	1,387.66	0.000
34	Crown	00320-51	Oil City	466	49	2	1,041,737	3,216	1.80	2,235.49	6.90	323.92	0.002
35	Springboro	00237-52	Meadville	2,754	100	0	1,039,444	6,052	1.79	377.43	2.20	171.75	0.431
36	Madera	00165-22	Philipsburg	1,757	43	2	1,002,520	4,160	1.73	570.59	2.37	240.99	0.603
37	Warren South	00220-41	Warren	2,838	99	0	984,601	6,159	1.70	346.93	2.17	159.86	1.175
38	Brookville West	00121-23	Dubois	704	46	2	931,721	3,140	1.61	1,323.47	4.46	296.73	0.136
39	East Pike	00095-13	Indiana	3,397	35	4	846,220	7,378	1.46	249.11	2.17	114.70	1.171
40	Laceyville	00612-65	Montrose	176	11	2	830,845	414	1.43	4,720.71	2.35	2,006.87	0.006
41	French Road	00219-31	Erie	1,299	18	1	828,685	4,582	1.43	637.94	3.53	180.86	1.032
42	Erie South	00259-31	Erie	2,690	94	0	785,079	6,027	1.35	291.85	2.24	130.26	0.457
43	Dubois	00124-23	Dubois	2,095	36	0	779,827	4,583	1.34	372.23	2.19	170.16	0.002
44	Somerset	00031-12	Somerset	2,087	35	2	730,424	4,993	1.26	349.99	2.39	146.29	1.272
45	Grover	00527-63	Towanda	1,052	69	0	727,323	3,057	1.25	691.37	2.91	237.92	0.583
46	Canton	00608-63	Towanda	293	33	1	721,269	869	1.24	2,461.67	2.97	830.00	0.000
47	Thompson	00446-65	Montrose	1,143	59	1	692,639	3,630	1.19	605.98	3.18	190.81	0.500
48	Spangler	00051-72	Altoona	1,033	15	1	679,127	3,338	1.17	657.43	3.23	203.45	3.252
49	East Pike	00096-13	Indiana	2,592	36	1	675,224	6,661	1.16	260.50	2.57	101.37	0.008
50	Reeder Street	00041-11	Johnstown	722	4	2	667,460	1,532	1.15	924.46	2.12	435.68	0.878
51	Brookville	00125-23	Dubois	563	46	0	637,459	2,640	1.10	1,132.25	4.69	241.46	0.355
52	Avery	00792-65	Montrose	124	19	1	630,871	288	1.09	5,087.67	2.32	2,190.52	0.000
53	East Pike	00094-13	Indiana	1,577	10	0	626,672	3,654	1.08	397.38	2.32	171.50	0.000
54	Madera	00167-22	Philipsburg	1,630	44	0	622,275	3,403	1.07	381.76	2.09	182.86	0.474
55	North Warren	00596-41	Warren	1,124	50	0	608,821	3,844	1.05	541.66	3.42	158.38	0.000
56	Punxsutawney	00118-23	Dubois	1,199	36	0	608,044	5,516	1.05	507.13	4.60	110.23	1.871

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
57	Grandview	00354-51	Oil City	526	38	1	576,539	1,387	0.99	1,096.08	2.64	415.67	0.106
58	Lenox	00757-65	Montrose	107	14	0	564,602	581	0.97	5,276.65	5.43	971.78	0.000
59	Glory	00106-13	Indiana	264	27	1	560,269	1,466	0.97	2,122.23	5.55	382.18	1.333
60	Logan	00700-81	Lewistown	1,003	43	0	558,066	3,290	0.96	556.40	3.28	169.62	0.342
61	Page Road	00445-43	Eric	658	32	5	543,570	2,889	0.94	826.09	4.39	188.15	1.204
62	Glen Campbell	00680-21	Clearfield	438	37	3	525,623	3,832	0.91	1,200.05	8.75	137.17	5.708

Penn Power													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	McDowell	W-121	Clark	698	39	4	750,200	1,845	4.48	1,075	2.64	407	0.00
2	McKnight	W748	Zelienople	1,379	18	2	745,352	2,540	4.45	541	1.84	293	0.00
3	Ingomar	D620	Zelienople	1,271	15	2	714,518	3,658	4.27	562	2.88	195	0.00
4	Stoneboro	W-131	Clark	1,456	112	0	703,193	2,206	4.20	483	1.52	319	0.00
5	Union	W-561	New Castle	1,566	28	3	554,192	5,110	3.31	354	3.26	108	0.00
6	Richard	W742	Zelienople	1,548	25	0	551,950	3,754	3.30	357	2.43	147	0.00
7	Seneca	W700	Zelienople	897	39	1	517,800	2,170	3.09	577	2.42	239	0.00
8	Warrendale	D625	Zelienople	1,289	26	2	455,346	3,361	2.72	353	2.61	135	0.00
9	Hadley	W-195	Clark	895	51	0	440,345	1,139	2.63	492	1.27	387	0.00
10	Castlewood	D-326	New Castle	1,186	45	0	394,079	2,805	2.35	332	2.37	140	0.00

West Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
1	Hickory	Hickory	Washington PA	949	57	1	4,116,362	2,898	5.7	4,338	3.05	1,420
2	Dutch Fork	Claysville	Washington PA	1,635	100	1	4,099,397	4,805	5.7	2,507	2.94	853
3	Avella	W Middletown	Washington PA	1,101	107	0	3,848,344	5,791	5.3	3,495	5.26	665
4	Dutch Fork	W Alexander	Washington PA	1,178	83	3	3,844,594	3,918	5.3	3,264	3.33	981
5	Smith	Florence	Washington PA	807	55	1	3,586,171	1,562	4.9	4,444	1.94	2,296
6	Paris	Paris	Washington PA	759	29	2	3,551,557	1,663	4.9	4,679	2.19	2,136
7	Amity	Banetown	Washington PA	1,485	87	2	3,356,600	6,250	4.6	2,260	4.21	537
8	Smith	Francis Mine	Washington PA	1,434	41	2	3,218,255	3,926	4.4	2,244	2.74	820
9	Rutan	Bristoria	Jefferson	1,119	103	0	3,101,361	4,808	4.3	2,772	4.30	645
10	Lagonda	Lagonda	Washington PA	1,635	76	0	2,877,779	3,339	4.0	1,760	2.04	862
11	Houston	McGovern	Washington PA	2,096	64	0	2,659,035	5,334	3.7	1,269	2.54	499
12	Treveskyn	Treveskyn	Boyce	1,502	32	4	2,655,225	6,458	3.7	1,768	4.30	411
13	Donegal	Bear Rocks	Pleasant Valley	1,276	64	0	2,569,680	2,830	3.5	2,014	2.22	908
14	McDonald	Noblestown	Boyce	1,828	31	2	2,265,840	4,281	3.1	1,240	2.34	529
15	Piney Fork	Gillhall	Charleroi	2,224	19	2	2,237,586	5,610	3.1	1,006	2.52	399
16	Robbins	Balkan	Jeannette	1,717	21	3	2,212,498	5,138	3.1	1,289	2.99	431
17	Houston	Weavertown	Washington PA	2,264	35	0	2,047,883	4,834	2.8	905	2.14	424
18	Hickory	Fort Cherry	Washington PA	1,042	65	0	2,014,222	4,735	2.8	1,933	4.54	425
19	North Fayette	Tyre	Boyce	1,804	81	1	2,013,949	5,487	2.8	1,116	3.04	367
20	Midway	Midway	Washington PA	938	32	0	1,955,943	2,172	2.7	2,085	2.32	901
21	Thomas	Thomas	Boyce	1,352	64	2	1,950,687	5,341	2.7	1,443	3.95	365
22	Gordon	Wolfdale	Washington PA	2,085	53	1	1,796,037	4,412	2.5	861	2.12	407
23	Cecil	Bishop	Boyce	1,935	56	2	1,695,783	5,494	2.3	876	2.84	309
24	Fawn	Bull Creek	Arnold	1,056	36	4	1,677,698	4,266	2.3	1,589	4.04	393
25	Karns City	Kaylor	Butler	1,150	37	0	1,677,458	3,882	2.3	1,459	3.38	432
26	White Valley	Congruity	Jeannette	1,732	39	2	1,644,194	4,884	2.3	949	2.82	337
27	Waterville	Waterville	State College	357	30	0	1,601,147	3,804	2.2	4,485	10.66	421
28	Cecil	Murray Hill	Boyce	1,789	28	3	1,416,776	6,022	2.0	792	3.37	235

West Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
29	Mateer	Dime Rd	Arnold	1,197	72	0	1,410,875	2,762	1.9	1,179	2.31	511
30	Vestaburg	Fredericktown	Jefferson	818	5	2	1,329,439	1,586	1.8	1,625	1.94	838
31	Avella	Penowa	Washington PA	648	54	0	1,271,161	2,034	1.8	1,962	3.14	625
32	Crossgates	Peters Twp	Boyce	1,071	25	0	1,199,934	2,359	1.7	1,120	2.20	509
33	Flintstone	Chaneyville	Hyndman	576	42	4	1,170,758	2,970	1.6	2,033	5.16	394
34	Franklin	Rogersville	Jefferson	831	71	0	1,159,412	2,107	1.6	1,395	2.54	550
35	Graysville	Graysville	Jefferson	557	49	0	1,098,068	1,439	1.5	1,971	2.58	763
36	Saltsburg	Bell Township	Arnold	754	31	3	1,032,477	2,491	1.4	1,369	3.30	414
37	Galley	Waterdam	Washington PA	1,569	24	0	1,025,831	3,746	1.4	654	2.39	274
38	Linden-Wash	Wylandville	Washington PA	1,048	35	1	1,012,150	4,586	1.4	966	4.38	221
39	Robbins	Mt. Vernon	Jeannette	1,037	17	0	998,325	2,613	1.4	963	2.52	382
40	Peters	Library	Boyce	1,846	24	4	976,456	4,985	1.3	529	2.70	196

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	No Bangor	00826-3	Easton	3,179	190	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	5.48	Trees Off Row-Tree	55%	3Q 2021	
	SAIDI	991.31	Vehicle	26%	4Q 2021	
	SAIFI	3.58	Equipment Failure	7%	1Q 2022	
	CAIDI	277	All Other	12%	2Q 2022	
	Customer Minutes	3,151,371				
	Customers Affected	11,388				
	Remedial Action Planned or Taken				Status	Progress
	Mainline 34.5 kV forestry aerial patrol				Complete	Jul-21
	Overhead circuit inspection				Complete	Aug-21
	Construct circuit tie Phase 2				Complete	Aug-21
	Construct circuit tie Phase 3				Complete	Aug-21
	On cycle tree trimming				To be completed 2022	84%
Rank	Substation	Circuit	District	Customers	Outages	
2	Bushkill Falls	00698-3	Stroudsburg	1,758	33	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.08	Trees Off Row-Tree	86%	3Q 2021	
	SAIDI	1,333.51	Line Failure	10%	4Q 2021	
	SAIFI	2.28	Equipment Failure	2%	1Q 2022	
	CAIDI	585	All Other	2%	2Q 2022	
	Customer Minutes	2,344,313				
	Customers Affected	4,004				
	Remedial Action Planned or Taken				Status	Progress
	Replace priority one pole				Complete	Jan-22
On cycle tree trimming				To be completed 2022	0%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
3	Snydersville	00621-3	Stroudsburg	1,296	68
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.95	Trees Off Row-Tree	64%	3Q 2021
	SAIDI	1,751.68	Unknown	27%	4Q 2021
	SAIFI	6.15	Equipment Failure	5%	1Q 2022
	CAIDI	285	All Other	4%	2Q 2022
	Customer Minutes	2,270,182			
	Customers Affected	7,969			
	Remedial Action Planned or Taken			Status	Progress
	Replace priority poles (2 poles)			Complete	Mar-22
	On cycle tree trimming			To be completed 2022	2%
Rank	Substation	Circuit	District	Customers	Outages
4	Barto	00706-1	Boyertown	2,957	172
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.87	Trees Off Row-Tree	84%	1Q 2022
	SAIDI	752.54	Trees Off Row-Limb	6%	2Q 2022
	SAIFI	2.18	Equipment Failure	3%	
	CAIDI	345	All Other	6%	
	Customer Minutes	2,225,269			
	Customers Affected	6,446			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection - Circuit Lockout			Complete	Apr-21
	Replace mainline switch			Complete	Apr-22
Targeted forestry inspection - Recloser Zone			Complete	Apr-22	
Rank	Substation	Circuit	District	Customers	Outages
5	Birdsboro	00756-1	Reading	1,529	108
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.58	Trees Off Row-Tree	86%	4Q 2021
	SAIDI	1,346.01	Equipment Failure	5%	1Q 2022
	SAIFI	6.14	Vehicle	4%	2Q 2022
	CAIDI	219	All Other	4%	
	Customer Minutes	2,058,047			
	Customers Affected	9,393			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection			Complete	Feb-22
	On cycle tree trimming			Complete	May-22

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
6	Huffs Church	00600-1	Boyertown	1,640	160	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.21	Trees Off Row-Tree	75%	3Q 2021	
	SAIDI	1,126.17	Trees Off Row-Limb	10%	4Q 2021	
	SAIFI	2.51	Equipment Failure	6%	1Q 2022	
	CAIDI	449	All Other	9%	2Q 2022	
	Customer Minutes	1,846,914				
	Customers Affected	4,112				
	Remedial Action Planned or Taken			Status	Progress	
	Targeted tree trimming (Maryann Drive)			Complete	Nov-21	
	Targeted forestry inspection			Complete	Jan-22	
	Targeted mainline inspection - Recloser Zone			Complete	Feb-22	
	Rank	Substation	Circuit	District	Customers	Outages
7	North Lebanon	00712-2	Lebanon	2,583	74	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.18	Trees Off Row-Tree	72%	3Q 2021	
	SAIDI	706.85	Wind	10%	4Q 2021	
	SAIFI	3.53	Vehicle	10%	1Q 2022	
	CAIDI	200	All Other	8%	2Q 2022	
	Customer Minutes	1,825,790				
	Customers Affected	9,107				
	Remedial Action Planned or Taken			Status	Progress	
	On cycle tree trimming			Complete	Dec-21	
	Install Supervisory Control and Data Acquisition switch (2 devices)			To be completed 2022	50%	
	Rank	Substation	Circuit	District	Customers	Outages
	8	Shawnee	00860-3	Stroudsburg	3,222	55
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		2.72	Trees Off Row-Tree	67%	3Q 2021	
SAIDI		485.87	Equipment Failure	30%	4Q 2021	
SAIFI		3.81	Unknown	2%	1Q 2022	
CAIDI		127	All Other	1%	2Q 2022	
Customer Minutes		1,565,478				
Customers Affected		12,279				
Remedial Action Planned or Taken			Status	Progress		
Mainline 34.5 kV forestry aerial patrol			Complete	Jul-21		
Overhead circuit inspection			Complete	Mar-22		
Replace backlog poles (10 poles)			Complete	Dec-21		
Circuit Rehabilitation			To be Completed 2022	50%		
On cycle tree trimming			To be completed 2022	0%		

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
9	Lynnville	00737-1	Hamburg	1,077	143	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.67	Trees Off Row-Tree	84%	3Q 2021	
	SAIDI	1,424.59	Lightning	6%	4Q 2021	
	SAIFI	3.68	Trees Off Row-Limb	4%	1Q 2022	
	CAIDI	387	All Other	7%	2Q 2022	
	Customer Minutes	1,534,280				
	Customers Affected	3,962				
	Remedial Action Planned or Taken			Status	Progress	
	Target tree trimming (Sousley Rd)			Complete	Aug-21	
	Install Supervisory Control and Data Acquisition Device			Complete	Mar-22	
	Targeted forestry inspection			Complete	Jan-22	
	On cycle tree trimming			To be completed 2022	87%	
	Rank	Substation	Circuit	District	Customers	Outages
10	Bairs	00571-4	York	2,369	87	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.24	Trees Off Row-Tree	49%	4Q 2021	
	SAIDI	543.02	Forced Outage	15%	1Q 2022	
	SAIFI	3.68	Animal	14%	2Q 2022	
	CAIDI	148	All Other	22%		
	Customer Minutes	1,286,408				
	Customers Affected	8,709				
	Remedial Action Planned or Taken			Status	Progress	
	On cycle tree trimming			Complete	Dec-21	
	Engineering Supervisory Control and Data Acquisition Analysis			Complete	Feb-22	
	Replace Recloser			To be completed 2022	50%	
	Rank	Substation	Circuit	District	Customers	Outages
	11	Cly	00721-4	York	823	58
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		2.14	Trees Off Row-Tree	86%	3Q 2021	
SAIDI		1,492.87	Trees Off Row-Limb	7%	4Q 2021	
SAIFI		4.39	Unknown	6%	1Q 2022	
CAIDI		340	All Other	2%	2Q 2022	
Customer Minutes		1,228,633				
Customers Affected		3,609				
Remedial Action Planned or Taken			Status	Progress		
Overhead circuit inspection			Complete	Oct-21		
Repair/replace priority items from overhead circuit inspection			To be completed 2022	87%		

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
12	Flying Hills	00777-1	Reading	1,789	69
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.01	Trees Off Row-Tree	62%	3Q 2021
	SAIDI	645.77	Vehicle	21%	4Q 2021
	SAIFI	2.76	Trees On Row	6%	1Q 2022
	CAIDI	234	All Other	10%	2Q 2022
	Customer Minutes	1,155,279			
	Customers Affected	4,934			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition switch (4 devices)			To be completed 2022	75%
Rank	Substation	Circuit	District	Customers	Outages
13	Tolna	00792-4	York	1,850	44
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.00	Vehicle	50%	3Q 2021
	SAIDI	620.49	Wind	23%	4Q 2021
	SAIFI	3.07	Equipment Failure	17%	1Q 2022
	CAIDI	202	All Other	9%	2Q 2022
	Customer Minutes	1,147,910			
	Customers Affected	5,673			
	Remedial Action Planned or Taken			Status	Progress
	Engineering Circuit Review			Complete	Dec-21
Rank	Substation	Circuit	District	Customers	Outages
14	Mountain	00744-4	Dillsburg	1,833	94
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.97	Trees Off Row-Tree	83%	3Q 2021
	SAIDI	618.77	Forced Outage	9%	4Q 2021
	SAIFI	3.02	Trees Off Row-Limb	3%	1Q 2022
	CAIDI	205	All Other	5%	2Q 2022
	Customer Minutes	1,134,214			
	Customers Affected	5,527			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	May-22
Circuit Rehabilitation Zone 2			To be Completed 2022	25%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
15	Lynnville	00735-1	Hamburg	1,392	57
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.88	Trees Off Row-Tree	78%	2Q 2022
	SAIDI	777.32	Customer Equipment	7%	
	SAIFI	2.35	Equipment Failure	4%	
	CAIDI	330	All Other	11%	
	Customer Minutes	1,082,032			
	Customers Affected	3,274			
	Remedial Action Planned or Taken			Status	Progress
	Targeted Mainline Circuit Rehabilitation			Complete	Dec-21
	On cycle tree trimming			To be completed 2022	12%
Rank	Substation	Circuit	District	Customers	Outages
16	Ferndale	00871-3	Easton	488	47
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.88	Trees Off Row-Tree	54%	4Q 2021
	SAIDI	2,213.22	Trees Off Row-Limb	39%	1Q 2022
	SAIFI	4.77	Unknown	2%	2Q 2022
	CAIDI	464	All Other	4%	
	Customer Minutes	1,080,049			
	Customers Affected	2,326			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Nov-21
	Repair/replace priority item from overhead inspection			To be completed 2022	50%
Mainline 34.5 kV forestry aerial patrol			To be completed 2022	0%	
Rank	Substation	Circuit	District	Customers	Outages
17	North Cornwall	00610-2	Lebanon	2,346	71
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.87	Trees Off Row-Tree	58%	3Q 2021
	SAIDI	458.05	Forced Outage	19%	4Q 2021
	SAIFI	2.74	Vehicle	7%	1Q 2022
	CAIDI	167	All Other	16%	2Q 2022
	Customer Minutes	1,074,592			
	Customers Affected	6,418			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Oct-21
Mainline Circuit Rehabilitation			Complete	Feb-22	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
18	Friedensburg	00141-1	Reading	650	63
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.80	Trees Off Row-Tree	76%	4Q 2021
	SAIDI	1,593.93	Unknown	11%	1Q 2022
	SAIFI	2.99	Trees Off Row-Limb	5%	2Q 2022
	CAIDI	533	All Other	8%	
	Customer Minutes	1,036,053			
	Customers Affected	1,944			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Aug-21
	Repair/Replace high priority items from overhead circuit inspection			Complete	May-22
	On cycle tree trimming			Complete	May-22
Rank	Substation	Circuit	District	Customers	Outages
19	Barto	00705-1	Boyertown	654	87
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.80	Trees Off Row-Tree	86%	4Q 2021
	SAIDI	1,580.79	Trees Off Row-Limb	8%	1Q 2022
	SAIFI	4.01	Equipment Failure	3%	2Q 2022
	CAIDI	395	All Other	3%	
	Customer Minutes	1,033,836			
	Customers Affected	2,620			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection (Mountain Mary Rd)			Complete	Jan-22
	Targeted forestry inspection - 2-18-22 Recloser lockout			Complete	Apr-22
	Rank	Substation	Circuit	District	Customers
20	Shawnee	00899-3	Stroudsburg	1,677	38
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.67	Trees Off Row-Tree	70%	3Q 2021
	SAIDI	571.81	Equipment Failure	16%	4Q 2021
	SAIFI	2.36	Trees Off Row-Limb	10%	1Q 2022
	CAIDI	242	All Other	5%	2Q 2022
	Customer Minutes	958,933			
	Customers Affected	3,959			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Dec-21
	Mainline 34.5 kV forestry aerial patrol			To be completed 2022	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
21	North Lebanon	00715-2	Lebanon	1,619	48
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.57	Vehicle	60%	1Q 2022
	SAIDI	555.75	Equipment Failure	17%	2Q 2022
	SAIFI	2.47	Unknown	10%	
	CAIDI	225	All Other	13%	
	Customer Minutes	899,760			
	Customers Affected	4,004			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Dec-21
Rank	Substation	Circuit	District	Customers	Outages
22	Pleasantville	00142-1	Boyertown	819	86
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.54	Trees Off Row-Tree	56%	3Q 2021
	SAIDI	1,078.58	Human Error - Company	15%	4Q 2021
	SAIFI	4.16	Vehicle	7%	1Q 2022
	CAIDI	260	All Other	23%	2Q 2022
	Customer Minutes	883,358			
	Customers Affected	3,404			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspections (Haas Ln & Mine Rd)			Complete	Jun-21
	Targeted tree trimming (Haas Ln)			Complete	Jul-21
	Targeted tree trimming investigation			Complete	Nov-21
	Targeted tree trimming			Complete	Dec-21
	Overhead circuit inspection			Complete	Jan-22
	Replace mainline reclosers			Complete	Mar-22
Rank	Substation	Circuit	District	Customers	Outages
23	Hill	00735-4	York	1,622	79
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.51	Trees Off Row-Tree	62%	2Q 2022
	SAIDI	534.73	Equipment Failure	24%	
	SAIFI	2.61	Vehicle	8%	
	CAIDI	205	All Other	6%	
	Customer Minutes	867,335			
	Customers Affected	4,226			
	Remedial Action Planned or Taken			Status	Progress
On cycle tree trimming			Complete	Dec-20	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
24	Raintree	00642-4	York	1,838	53
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.50	Lightning	48%	2Q 2022
	SAIDI	469.00	Trees Off Row-Tree	36%	
	SAIFI	2.30	Trees On Row	9%	
	CAIDI	204	All Other	7%	
	Customer Minutes	862,030			
	Customers Affected	4,225			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To be completed 2022	99%
Rank	Substation	Circuit	District	Customers	Outages
25	S Hamburg	00740-1	Hamburg	1,275	82
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.44	Trees Off Row-Tree	69%	3Q 2021
	SAIDI	648.93	Equipment Failure	16%	4Q 2021
	SAIFI	1.89	Line Failure	9%	2Q 2022
	CAIDI	344	All Other	6%	
	Customer Minutes	827,384			
	Customers Affected	2,407			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Jun-22
Rank	Substation	Circuit	District	Customers	Outages
26	Angelica	00129-1	Reading	700	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.42	Trees Off Row-Tree	94%	1Q 2022
	SAIDI	1,169.50	Equipment Failure	2%	2Q 2022
	SAIFI	2.18	Unknown	2%	
	CAIDI	536	All Other	3%	
	Customer Minutes	818,652			
	Customers Affected	1,527			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection			Complete	Aug-21

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
27	Collins	00760-2	Lebanon	1,113	55
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.41	Trees Off Row-Tree	86%	3Q 2021
	SAIDI	727.75	Equipment Failure	7%	4Q 2021
	SAIFI	1.98	Vehicle	3%	1Q 2022
	CAIDI	367	All Other	4%	2Q 2022
	Customer Minutes	809,981			
	Customers Affected	2,209			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Jun-21
	Additional Ash Tree Removal			Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages
28	Raubsville St	00079-3	Easton	799	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.39	Trees Off Row-Tree	63%	1Q 2022
	SAIDI	1,001.84	Equipment Failure	33%	2Q 2022
	SAIFI	3.55	Unknown	3%	
	CAIDI	282	All Other	1%	
	Customer Minutes	800,470			
	Customers Affected	2,839			
	Remedial Action Planned or Taken			Status	Progress
	Replace backlog poles (10 poles)			Complete	Jun-22
	Mid cycle forestry inspection			To be completed 2022	0%
Rank	Substation	Circuit	District	Customers	Outages
29	Violet Hill	00527-4	York	1,283	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.38	Trees Off Row-Limb	46%	3Q 2021
	SAIDI	619.25	Trees Off Row-Tree	22%	4Q 2021
	SAIFI	5.02	Forced Outage	14%	1Q 2022
	CAIDI	123	All Other	17%	2Q 2022
	Customer Minutes	794,493			
	Customers Affected	6,440			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	May-21
	Joint Planning meeting with AEC for Potential SCADA/Sectionalizing			Complete	Sep-21
	Install Fault Indicators and Pole			Complete	Jun-22
	Install additional Supervisory Control and Data Acquisition (3 Devices)			To be completed 2022	50%
Circuit Rehabilitation from AEC Metering Point up to upstream recloser			To be completed 2022	50%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
30	Hill	00737-4	York	2,335	50
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.34	Trees Off Row-Tree	72%	4Q 2021
	SAIDI	329.60	Equipment Failure	12%	1Q 2022
	SAIFI	2.44	Trees Off Row-Limb	5%	2Q 2022
	CAIDI	135	All Other	11%	
	Customer Minutes	769,612			
	Customers Affected	5,701			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition Device			Complete	Dec-21
	Thermovision and overhead circuit inspection			Complete	Dec-21
	Engineering Circuit Review			Complete	Feb-22
Rank	Substation	Circuit	District	Customers	Outages
31	Lynnville	00749-1	Hamburg	852	73
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.30	Trees Off Row-Tree	74%	1Q 2022
	SAIDI	875.53	Equipment Failure	17%	2Q 2022
	SAIFI	2.20	Unknown	3%	
	CAIDI	398	All Other	7%	
	Customer Minutes	745,955			
	Customers Affected	1,876			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To be Completed 2022	0%
Rank	Substation	Circuit	District	Customers	Outages
32	Grantley	00539-4	York	680	14
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.29	Trees Off Row-Tree	61%	2Q 2022
	SAIDI	1,089.62	Unknown	23%	
	SAIFI	4.82	Vehicle	13%	
	CAIDI	226	All Other	3%	
	Customer Minutes	740,940			
	Customers Affected	3,278			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Dec-21
	Overhead circuit inspection			Complete	Jul-21
Repair/replace priority items from overhead circuit inspection			Complete	May-22	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
33	Ringing Rocks	00708-1	Boyertown	2,461	57
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.28	Equipment Failure	33%	2Q 2022
	SAIDI	298.93	Vehicle	33%	
	SAIFI	2.52	Trees Off Row-Tree	24%	
	CAIDI	119	All Other	10%	
	Customer Minutes	735,656			
	Customers Affected	6,205			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Oct-21
Rank	Substation	Circuit	District	Customers	Outages
34	W Boyertown	00715-1	Boyertown	1,698	65
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.25	Trees Off Row-Tree	59%	3Q 2021
	SAIDI	422.61	Human Error - Company	25%	4Q 2021
	SAIFI	2.05	Unknown	6%	1Q 2022
	CAIDI	206	All Other	11%	2Q 2022
	Customer Minutes	717,600			
	Customers Affected	3,485			
	Remedial Action Planned or Taken			Status	Progress
	On 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
	Rank	Substation	Circuit	District	Customers
35	Birdsboro	00759-1	Reading	931	49
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.24	Trees Off Row-Tree	71%	2Q 2022
	SAIDI	762.44	Equipment Failure	9%	
	SAIFI	3.80	Unknown	8%	
	CAIDI	201	All Other	12%	
	Customer Minutes	709,830			
	Customers Affected	3,534			
	Remedial Action Planned or Taken			Status	Progress
	Replace backlog poles (3 poles)			Complete	May-22
On cycle tree trimming			To be completed 2022	73%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
36	Ottsville	00661-3	Easton	596	73
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.22	Trees Off Row-Tree	84%	2Q 2022
	SAIDI	1,172.84	Line Failure	7%	
	SAIFI	3.92	Trees Off Row-Limb	2%	
	CAIDI	299	All Other	6%	
	Customer Minutes	699,012			
	Customers Affected	2,335			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Aug-21
	Replace backlog poles (7 poles)			Complete	Oct-21
	Overhead circuit inspection			Complete	Jan-22
Rank	Substation	Circuit	District	Customers	Outages
37	North Hanover	00505-4	Hanover	1,380	29
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.20	Lightning	62%	1Q 2022
	SAIDI	501.39	Equipment Failure	19%	2Q 2022
	SAIFI	2.19	Human Error - Company	14%	
	CAIDI	229	All Other	6%	
	Customer Minutes	691,919			
	Customers Affected	3,027			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	May-21
Rank	Substation	Circuit	District	Customers	Outages
38	North Cornwall	00611-2	Lebanon	907	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.19	Trees Off Row-Tree	49%	1Q 2022
	SAIDI	755.55	Equipment Failure	28%	2Q 2022
	SAIFI	1.91	Trees Off Row-Limb	10%	
	CAIDI	395	All Other	12%	
	Customer Minutes	685,286			
	Customers Affected	1,734			
	Remedial Action Planned or Taken			Status	Progress
Targeted forestry inspection			Complete	Nov-21	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
39	Carsonia	00767-1	Reading	936	29
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.18	Trees Off Row-Tree	60%	2Q 2022
	SAIDI	726.08	Unknown	24%	
	SAIFI	3.74	Equipment Failure	9%	
	CAIDI	194	All Other	7%	
	Customer Minutes	679,615			
	Customers Affected	3,497			
	Remedial Action Planned or Taken			Status	Progress
	Replace priority one pole			Complete	May-22

Met-Ed					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	3Q 2021	4Q 2021	1Q 2022	2Q 2022
Belfast	00817-3	X	X	X	
Grantley	00401-4	X	X	X	
Grantley	00544-4	X	X		
Mountain	00742-4	X	X	X	
North Bangor	00813-3	X	X		
North Bangor	00838-3	X	X		
Orrtanna	00762-4	X	X	X	
Shawnee	00899-3	X	X	X	
Swatara Hill	00764-2	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
Ferndale	00076-3	Repair/Replace priority items from overhead circuit inspection	To be completed 2022	99%
Gardners	00750-4	Install Supervisory Control and Data Acquisition (2 Devices)	To be Completed 2022	25%
Grantley	00401-4	Repair/replace priority items from overhead circuit inspection	Complete	Jun-22
Hokes	00587-4	Install Supervisory Control and Data Acquisition recloser	To be completed 2022	25%
Hokes	00587-4	On cycle tree trimming	To be completed 2022	31%
Mountain	00743-4	On cycle tree trimming	To be Completed 2022	0%
Mountain	00742-4	On cycle tree trimming	To be Completed 2022	43%
Shawnee	00895-3	Replace insulators	Complete	May-22
Shawnee	00895-3	Overhead circuit inspection	Complete	Jun-22
Swatara Hill	00763-2	On cycle tree trimming	To be completed 2022	99%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
1	Thompson	00436-65	Montrose	1,224	100
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	7.49	Trees Off Row-Tree	62%	3Q 2021
	SAIDI	3,547.99	Ice	25%	4Q 2021
	SAIFI	5.47	Equipment Failure	5%	1Q 2022
	CAIDI	648.56	All Other	9%	2Q 2022
	Customer Minutes	4,342,736			
	Customers Affected	6,696			
	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	1,565	87
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	7.48	Ice	42%	3Q 2021
	SAIDI	2,773.38	Trees Off Row-Tree	30%	4Q 2021
	SAIFI	6.04	Equipment Failure	16%	1Q 2022
	CAIDI	459.49	All Other	12%	2Q 2022
	Customer Minutes	4,340,339			
	Customers Affected	9,446			
	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
On cycle tree trimming			To be completed 2022	99%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
3	N Meshoppen	00534-65	Montrose	886	105
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	6.68	Ice	78%	3Q 2021
	SAIDI	4,372.32	Trees Off Row-Tree	11%	4Q 2021
	SAIFI	3.64	Equipment Failure	4%	1Q 2022
	CAIDI	1,201.58	All Other	8%	2Q 2022
	Customer Minutes	3,873,878			
	Customers Affected	3,224			
	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
	On cycle tree trimming			To be completed 2022	46%
	Rank	Substation	Circuit	District	Customers
4	Tiffany	00440-65	Montrose	1,159	48
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	6.35	Ice	68%	3Q 2021
	SAIDI	3,176.39	Trees Off Row-Tree	13%	4Q 2021
	SAIFI	6.86	Trees Off Row-Limb	7%	1Q 2022
	CAIDI	462.96	All Other	12%	2Q 2022
	Customer Minutes	3,681,438			
	Customers Affected	7,952			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Mar-21
	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	Natl Forge Sw Station	00577-41	Warren	1,150	78
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.71	Trees Off Row-Tree	94%	3Q 2021
	SAIDI	2,880.67	Unknown	3%	4Q 2021
	SAIFI	5.39	Equipment Failure	1%	1Q 2022
	CAIDI	534.32	All Other	1%	2Q 2022
	Customer Minutes	3,312,776			
	Customers Affected	6,200			
	Remedial Action Planned or Taken			Status	Progress
	Install advanced Dx protective devices			Complete	Apr-21
	Repair damage caused by trees during a storm			Complete	Jun-21
	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
Rank	Substation	Circuit	District	Customers	Outages
6	N Meshoppen	00531-65	Montrose	618	55
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.68	Ice	70%	3Q 2021
	SAIDI	5,326.27	Trees Off Row-Tree	18%	4Q 2021
	SAIFI	7.79	Equipment Failure	5%	1Q 2022
	CAIDI	683.34	All Other	7%	2Q 2022
	Customer Minutes	3,291,634			
	Customers Affected	4,817			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	May-21
	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

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
7	Wyalusing	00532-62	Towanda	721	64	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.95	Ice	74%	3Q 2021	
	SAIDI	3,984.68	Trees Off Row-Tree	12%	4Q 2021	
	SAIFI	4.67	Lightning	10%	1Q 2022	
	CAIDI	853.01	All Other	4%	2Q 2022	
	Customer Minutes	2,872,952				
	Customers Affected	3,368				
	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			To be completed 2022	0%	
Rank	Substation	Circuit	District	Customers	Outages	
8	Madera	00166-22	Philipsburg	1,442	78	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.64	Trees Off Row-Tree	94%	3Q 2021	
	SAIDI	1,864.12	Unknown	2%	4Q 2021	
	SAIFI	4.34	Forced Outage	1%	1Q 2022	
	CAIDI	429.68	All Other	3%	2Q 2022	
	Customer Minutes	2,688,056				
	Customers Affected	6,256				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by trees during a storm			Complete	Mar-21	
	Repair damage caused by trees during a storm			Complete	May-21	
	Repair damage caused by trees during a storm			Complete	Aug-21	
	Rank	Substation	Circuit	District	Customers	Outages
	9	Dubois	00137-23	Dubois	2,889	122
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		4.12	Trees Off Row-Tree	74%	3Q 2021	
SAIDI		827.73	Line Failure	12%	4Q 2021	
SAIFI		2.43	Forced Outage	6%	1Q 2022	
CAIDI		340.35	All Other	8%	2Q 2022	
Customer Minutes		2,391,309				
Customers Affected		7,026				
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		

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
10	Russell Hill	00282-65	Montrose	769	52
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.87	Ice	36%	3Q 2021
	SAIDI	2,916.53	Wind	29%	4Q 2021
	SAIFI	4.10	Trees Off Row-Tree	12%	1Q 2022
	CAIDI	710.65	All Other	22%	2Q 2022
	Customer Minutes	2,242,810			
	Customers Affected	3,156			
	Remedial Action Planned or Taken			Status	Progress
	Install advanced Dx protective devices			Complete	Jun-21
	Repair equipment failure			Complete	Oct-21
	Repair damage caused by wind			Complete	Dec-21
	Repair damage caused by ice			Complete	Apr-22
Rank	Substation	Circuit	District	Customers	Outages
11	Lenox	00755-65	Montrose	682	57
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.73	Ice	64%	2Q 2022
	SAIDI	3,169.90	Trees Off Row-Tree	15%	
	SAIFI	5.16	Equipment Failure	10%	
	CAIDI	614.17	All Other	11%	
	Customer Minutes	2,161,871			
	Customers Affected	3,520			
	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
	Rank	Substation	Circuit	District	Customers
12	Laurel Lake	00769-65	Montrose	485	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.72	Trees Off Row-Tree	91%	2Q 2022
	SAIDI	4,448.59	Human Error -Non-Company	6%	
	SAIFI	3.58	Forced Outage	1%	
	CAIDI	1,242.12	All Other	2%	
	Customer Minutes	2,157,568			
	Customers Affected	1,737			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Apr-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
13	Montrose	00457-65	Montrose	570	48
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.49	Ice	66%	4Q 2021
	SAIDI	3,549.10	Trees Off Row-Tree	27%	2Q 2022
	SAIFI	2.86	Forced Outage	2%	
	CAIDI	1,242.62	All Other	1%	
	Customer Minutes	2,022,989			
	Customers Affected	1,628			
	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
14	Lake Como	00788-65	Montrose	638	41
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.28	Ice	50%	3Q 2021
	SAIDI	2,980.08	Trees Off Row-Tree	43%	4Q 2021
	SAIFI	3.67	Equipment Failure	4%	1Q 2022
	CAIDI	812.17	All Other	3%	2Q 2022
	Customer Minutes	1,901,289			
	Customers Affected	2,341			
	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 tice			Complete	Apr-22	
On cycle tree trimming			To be completed 2022	0%	
Rank	Substation	Circuit	District	Customers	Outages
15	Thompson	00442-65	Montrose	596	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.27	Ice	65%	2Q 2022
	SAIDI	3,182.52	Trees Off Row-Tree	32%	
	SAIFI	2.87	Forced Outage	2%	
	CAIDI	1,108.58	All Other	1%	
	Customer Minutes	1,896,784			
	Customers Affected	1,711			
	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
16	Knox	00323-51	Oil City	1,144	53
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.09	Unknown	43%	1Q 2022
	SAIDI	1,566.76	Trees Off Row-Tree	21%	2Q 2022
	SAIFI	9.83	Equipment Failure	18%	
	CAIDI	159.46	All Other	18%	
	Customer Minutes	1,792,371			
	Customers Affected	11,240			
	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
	Rank	Substation	Circuit	District	Customers
17	Marienville	00328-51	Oil City	1,207	74
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.03	Trees Off Row-Tree	77%	3Q 2021
	SAIDI	1,455.61	Line Failure	8%	4Q 2021
	SAIFI	4.28	Lightning	4%	1Q 2022
	CAIDI	339.90	All Other	11%	2Q 2022
	Customer Minutes	1,756,926			
	Customers Affected	5,169			
	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
	On cycle tree trimming			To be completed 2022	24%
Rank	Substation	Circuit	District	Customers	Outages
18	Brooklyn	00749-65	Montrose	496	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.86	Ice	79%	2Q 2022
	SAIDI	3,341.70	Trees Off Row-Tree	16%	
	SAIFI	2.57	Unknown	3%	
	CAIDI	1,298.97	All Other	1%	
	Customer Minutes	1,657,485			
	Customers Affected	1,276			
	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	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
19	Cranberry	00350-51	Oil City	1,070	58
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.50	Lightning	38%	3Q 2021
	SAIDI	1,354.99	Line Failure	33%	4Q 2021
	SAIFI	4.92	Trees Off Row-Tree	15%	1Q 2022
	CAIDI	275.63	All Other	14%	2Q 2022
	Customer Minutes	1,449,834			
	Customers Affected	5,260			
	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
	On cycle tree trimming			To be completed 2022	99%
Circuit inspection			Complete	Jun-22	
Rank	Substation	Circuit	District	Customers	Outages
20	East Sayre	00518-61	Towanda	947	50
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.47	Equipment Failure	64%	2Q 2022
	SAIDI	1,510.71	Trees Off Row-Tree	22%	
	SAIFI	2.04	Ice	7%	
	CAIDI	738.97	All Other	7%	
	Customer Minutes	1,430,643			
	Customers Affected	1,936			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by ice			Complete	Apr-21
	Repair damage caused by trees during a storm			Complete	Apr-21
	Repair equipment failure			Complete	Apr-21
	Targeted circuit rehabilitation			To be completed 2022	30%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
21	Tunkhannock	00533-65	Montrose	1,243	93
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.36	Trees Off Row-Tree	58%	3Q 2021
	SAIDI	1,100.24	Equipment Failure	18%	4Q 2021
	SAIFI	2.45	Line Failure	5%	1Q 2022
	CAIDI	448.69	All Other	18%	2Q 2022
	Customer Minutes	1,367,596			
	Customers Affected	3,048			
	Remedial Action Planned or Taken			Status	Progress
	Install advanced Dx protective devices			Complete	Jun-21
	Restore recloser operation of unknown cause			Complete	Jun-21
	Repair damage caused by trees during a storm			Complete	Apr-22
	Circuit inspection			To be completed 2022	0%
	Rank	Substation	Circuit	District	Customers
22	Russell Hill	00765-65	Montrose	373	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.20	Ice	40%	4Q 2021
	SAIDI	3,427.46	Trees Off Row-Tree	31%	1Q 2022
	SAIFI	4.63	Equipment Failure	23%	2Q 2022
	CAIDI	740.27	All Other	7%	
	Customer Minutes	1,278,442			
	Customers Affected	1,727			
	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 trimming			Complete	Jun-22

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
23	Spangler Sub	00052-72	Altoona	934	15
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.12	Trees Off Row-Tree	73%	3Q 2021
	SAIDI	1,317.03	Trees Off Row-Limb	14%	4Q 2021
	SAIFI	4.20	Vehicle	12%	1Q 2022
	CAIDI	313.64	All Other	0%	2Q 2022
	Customer Minutes	1,230,107			
	Customers Affected	3,922			
	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
24	Laurel Lake	00449-65	Montrose	520	50
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.05	Ice	77%	2Q 2022
	SAIDI	2,286.61	Trees Off Row-Tree	13%	
	SAIFI	2.54	Equipment Failure	4%	
	CAIDI	899.42	All Other	6%	
	Customer Minutes	1,189,035			
	Customers Affected	1,322			
	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	
Rank	Substation	Circuit	District	Customers	Outages
25	Saxton	00625-73	Altoona	351	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.03	Trees Off Row-Tree	66%	3Q 2021
	SAIDI	3,353.04	Equipment Failure	20%	4Q 2021
	SAIFI	10.48	Vehicle	10%	1Q 2022
	CAIDI	319.81	All Other	3%	2Q 2022
	Customer Minutes	1,176,918			
	Customers Affected	3,680			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Aug-21
Repair damage caused by trees during a storm			Complete	Sep-21	
Repair equipment failure			Complete	Mar-22	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
26	Union City	00206-43	Erie	2,886	134
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.00	Trees Off Row-Tree	61%	3Q 2021
	SAIDI	402.54	Equipment Failure	16%	4Q 2021
	SAIFI	3.08	Forced Outage	9%	1Q 2022
	CAIDI	130.90	All Other	15%	2Q 2022
	Customer Minutes	1,161,727			
	Customers Affected	8,875			
	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
	Repair equipment failure			Complete	Feb-22
	Install new radio controlled switch			Complete	Jan-22
Rank	Substation	Circuit	District	Customers	Outages
27	Meshoppen	00283-65	Montrose	384	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.99	Trees Off Row-Tree	66%	3Q 2021
	SAIDI	3,003.36	Ice	24%	4Q 2021
	SAIFI	3.21	Forced Outage	5%	1Q 2022
	CAIDI	935.35	All Other	5%	2Q 2022
	Customer Minutes	1,153,290			
	Customers Affected	1,233			
	Remedial Action Planned or Taken			Status	Progress
	Circuit inspection			Complete	Jun-21
	Repair damage caused by trees			Complete	Oct-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
28	East Towanda	00525-62	Towanda	618	46
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.95	Ice	54%	3Q 2021
	SAIDI	1,827.22	Equipment Failure	22%	4Q 2021
	SAIFI	4.12	Unknown	15%	2Q 2022
	CAIDI	443.18	All Other	9%	
	Customer Minutes	1,129,225			
	Customers Affected	2,548			
	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

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
29	Industrial Park	00796-65	Montrose	357	27
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.93	Ice	79%	2Q 2022
	SAIDI	3,135.48	Trees Off Row-Tree	10%	
	SAIFI	4.65	Line Failure	4%	
	CAIDI	674.72	All Other	7%	
	Customer Minutes	1,119,365			
	Customers Affected	1,659			
	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
	Rank	Substation	Circuit	District	Customers
30	Oxbow	00555-65	Montrose	728	48
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.92	Ice	70%	2Q 2022
	SAIDI	1,527.35	Equipment Failure	17%	
	SAIFI	4.04	Trees Off Row-Tree	6%	
	CAIDI	377.81	All Other	7%	
	Customer Minutes	1,111,908			
	Customers Affected	2,943			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jul-21
	Repair damage caused by ice			Complete	Apr-22
	Rank	Substation	Circuit	District	Customers
31	Piney	00523-51	Oil City	1,502	91
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.91	Trees Off Row-Tree	31%	3Q 2021
	SAIDI	735.65	Equipment Failure	21%	4Q 2021
	SAIFI	6.66	Animal	11%	1Q 2022
	CAIDI	110.45	All Other	36%	2Q 2022
	Customer Minutes	1,104,948			
	Customers Affected	10,004			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Mar-21
	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
	Install new radio controlled switch			To be completed 2022	0%
Targeted circuit rehabilitation			Complete	Mar-22	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
32	Ppl West	PL097-62	Towanda	104	15
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.89	Other Electric Utility	48%	3Q 2021
	SAIDI	10,530.55	Trees Off Row-Tree	44%	4Q 2021
	SAIFI	9.63	Equipment Failure	6%	1Q 2022
	CAIDI	1,094.08	All Other	1%	2Q 2022
	Customer Minutes	1,095,177			
	Customers Affected	1,001			
	Remedial Action Planned or Taken			Status	Progress
	Restore supply caused from other electric utility			Complete	Jul-21
	Restore supply caused from other electric utility			Complete	Sep-21
	Repair damage caused by trees during a storm			Complete	Dec-21
	Repair damage caused by trees during a storm			Complete	Apr-22
	Circuit inspection			To be completed 2022	0%
Rank	Substation	Circuit	District	Customers	Outages
33	Brooklyn	00748-65	Montrose	196	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.83	Equipment Failure	42%	2Q 2022
	SAIDI	5,401.96	Ice	37%	
	SAIFI	3.89	Trees Off Row-Tree	11%	
	CAIDI	1,387.66	All Other	10%	
	Customer Minutes	1,058,784			
	Customers Affected	763			
	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	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
34	Crown	00320-51	Oil City	466	49
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.80	Trees Off Row-Tree	76%	4Q 2021
	SAIDI	2,235.49	Unknown	7%	1Q 2022
	SAIFI	6.90	Trees Off Row-Limb	6%	2Q 2022
	CAIDI	323.92	All Other	10%	
	Customer Minutes	1,041,737			
	Customers Affected	3,216			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	May-21
	Repair damage caused by human error			Complete	May-21
	Repair damage caused by trees during a storm			Complete	Jul-21
	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	
On cycle tree trimming			To be completed 2022	95%	
Rank	Substation	Circuit	District	Customers	Outages
35	Springboro	00237-52	Meadville	2,754	100
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.79	Equipment Failure	38%	3Q 2021
	SAIDI	377.43	Line Failure	32%	4Q 2021
	SAIFI	2.20	Trees Off Row-Tree	16%	1Q 2022
	CAIDI	171.75	All Other	14%	2Q 2022
	Customer Minutes	1,039,444			
	Customers Affected	6,052			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-21
	Repair equipment failure			Complete	Aug-21
	Install advanced Dx protective devices			Complete	Oct-21
	Repair line failure			Complete	Oct-21

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
36	Madera	00165-22	Philipsburg	1,757	43
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.73	Trees Off Row-Tree	79%	3Q 2021
	SAIDI	570.59	Wind	8%	4Q 2021
	SAIFI	2.37	Unknown	5%	1Q 2022
	CAIDI	240.99	All Other	8%	2Q 2022
	Customer Minutes	1,002,520			
	Customers Affected	4,160			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Mar-22
	Repair damage caused by wind			Complete	Mar-22
Rank	Substation	Circuit	District	Customers	Outages
37	Warren South	00220-41	Warren	2,838	99
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.70	Trees Off Row-Tree	53%	3Q 2021
	SAIDI	346.93	Line Failure	11%	4Q 2021
	SAIFI	2.17	Trees Off Row-Limb	9%	1Q 2022
	CAIDI	159.86	All Other	27%	2Q 2022
	Customer Minutes	984,601			
	Customers Affected	6,159			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Apr-21
	Repair damage caused by trees during a storm			Complete	Jul-21
Repair line failure			Complete	Nov-21	
Rank	Substation	Circuit	District	Customers	Outages
38	Brookville West	00121-23	Dubois	704	46
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.61	Equipment Failure	64%	3Q 2021
	SAIDI	1,323.47	Trees Off Row-Tree	17%	4Q 2021
	SAIFI	4.46	Forced Outage	11%	1Q 2022
	CAIDI	296.73	All Other	8%	2Q 2022
	Customer Minutes	931,721			
	Customers Affected	3,140			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-21
	Repair damage caused by trees			Complete	Oct-21
Repair equipment failure			Complete	Dec-21	
Repair equipment failure			Complete	Feb-22	
On cycle tree trimming			Complete	Jun-22	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
39	East Pike	00095-13	Indiana	3,397	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.46	Equipment Failure	29%	3Q 2021
	SAIDI	249.11	Trees On Row	20%	4Q 2021
	SAIFI	2.17	Lightning	15%	1Q 2022
	CAIDI	114.70	All Other	36%	2Q 2022
	Customer Minutes	846,220			
	Customers Affected	7,378			
	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
	Install advanced Dx protective devices			To be completed 2022	0%
	Rank	Substation	Circuit	District	Customers
40	Laceyville	00612-65	Montrose	176	11
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.43	Ice	82%	2Q 2022
	SAIDI	4,720.71	Trees Off Row-Tree	7%	
	SAIFI	2.35	Vehicle	6%	
	CAIDI	2,006.87	All Other	5%	
	Customer Minutes	830,845			
	Customers Affected	414			
	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
41	French Road	00219-31	Erie	1,299	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.43	Line Failure	86%	3Q 2021
	SAIDI	637.94	Trees Off Row-Tree	13%	4Q 2021
	SAIFI	3.53	Unknown	1%	1Q 2022
	CAIDI	180.86	All Other	1%	2Q 2022
	Customer Minutes	828,685			
	Customers Affected	4,582			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Sep-21
	Repair line failure			Complete	Sep-21
Circuit inspection			Complete	Jun-22	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
42	Erie South	00259-31	Erie	2,690	94
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.35	Trees Off Row-Tree	32%	3Q 2021
	SAIDI	291.85	Forced Outage	32%	4Q 2021
	SAIFI	2.24	Equipment Failure	14%	1Q 2022
	CAIDI	130.26	All Other	23%	2Q 2022
	Customer Minutes	785,079			
	Customers Affected	6,027			
	Remedial Action Planned or Taken			Status	Progress
	Repair broken equipment			Complete	Jul-21
	Repair broken equipment			Complete	Sep-21
	Repair damage caused by tree			Complete	Nov-31
	Repair damage caused by tree during a storm			Complete	Dec-21
	Repair equipment failure			Complete	Mar-22
On cycle tree trimming			To be completed 2022	15%	
Rank	Substation	Circuit	District	Customers	Outages
43	Dubois	00124-23	Dubois	2,095	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.34	Equipment Failure	58%	2Q 2022
	SAIDI	372.23	Line Failure	25%	
	SAIFI	2.19	Vehicle	12%	
	CAIDI	170.16	All Other	6%	
	Customer Minutes	779,827			
	Customers Affected	4,583			
	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	
Rank	Substation	Circuit	District	Customers	Outages
44	Somerset	00031-12	Somerset	2,087	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.26	Unknown	50%	1Q 2022
	SAIDI	349.99	Line Failure	31%	2Q 2022
	SAIFI	2.39	Equipment Failure	14%	
	CAIDI	146.29	All Other	5%	
	Customer Minutes	730,424			
	Customers Affected	4,993			
	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	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
45	Grover	00527-63	Towanda	1,052	69	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.25	Trees Off Row-Tree	33%	3Q 2021	
	SAIDI	691.37	Vehicle	27%	4Q 2021	
	SAIFI	2.91	Line Failure	12%	1Q 2022	
	CAIDI	237.92	All Other	28%	2Q 2022	
	Customer Minutes	727,323				
	Customers Affected	3,057				
	Remedial Action Planned or Taken			Status	Progress	
	Install advanced Dx protective devices			Complete	May-21	
	Targeted circuit rehabilitation			Complete	Jun-21	
	Repair equipment failure			Complete	Jun-21	
	Repair damage caused by vehicle accident			Complete	Nov-21	
	Rank	Substation	Circuit	District	Customers	Outages
46	Canton	00608-63	Towanda	293	33	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.24	Trees Off Row-Tree	69%	1Q 2022	
	SAIDI	2,461.67	Equipment Failure	18%	2Q 2022	
	SAIFI	2.97	Forced Outage	6%		
	CAIDI	830.00	All Other	7%		
	Customer Minutes	721,269				
	Customers Affected	869				
	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
	47	Thompson	00446-65	Montrose	1,143	59
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		1.19	Unknown	24%	3Q 2021	
SAIDI		605.98	Trees Off Row-Tree	23%	4Q 2021	
SAIFI		3.18	Trees Off Row-Limb	16%	1Q 2022	
CAIDI		190.81	All Other	38%	2Q 2022	
Customer Minutes		692,639				
Customers Affected		3,630				
Remedial Action Planned or Taken			Status	Progress		
Repair damage caused by lightning (unknown)			Complete	Jul-21		
Repair damage caused by trees during a storm			Complete	Jul-21		
Repair damage caused by trees during a storm (limb)			Complete	Aug-21		
Repair equipment failure			Complete	Sep-21		

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
48	Spangler	00051-72	Altoona	1,033	15
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.17	Trees Off Row-Tree	71%	1Q 2022
	SAIDI	657.43	Line Failure	26%	2Q 2022
	SAIFI	3.23	Forced Outage	2%	
	CAIDI	203.45	All Other	1%	
	Customer Minutes	679,127			
	Customers Affected	3,338			
	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
49	East Pike	00096-13	Indiana	2,592	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.16	Equipment Failure	54%	1Q 2022
	SAIDI	260.50	Trees Off Row-Limb	22%	2Q 2022
	SAIFI	2.57	Trees Off Row-Tree	16%	
	CAIDI	101.37	All Other	8%	
	Customer Minutes	675,224			
	Customers Affected	6,661			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm (Limb)			Complete	Aug-21
	Repair equipment failure			Complete	Feb-22
Repair damage caused by trees during a storm			Complete	Mar-22	
Targeted circuit rehabilitation			Complete	May-22	
Rank	Substation	Circuit	District	Customers	Outages
50	Reeder Street	00041-11	Johnstown	722	4
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.15	Trees Off Row-Tree	87%	2Q 2022
	SAIDI	924.46	Unknown	11%	
	SAIFI	2.12	Trees Off Row-Limb	2%	
	CAIDI	435.68	All Other	0%	
	Customer Minutes	667,460			
	Customers Affected	1,532			
	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	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
51	Brookville	00125-23	Dubois	563	46	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.10	Trees Off Row-Tree	43%	4Q 2021	
	SAIDI	1,132.25	Vehicle	24%	1Q 2022	
	SAIFI	4.69	Wind	13%	2Q 2022	
	CAIDI	241.46	All Other	20%		
	Customer Minutes	637,459				
	Customers Affected	2,640				
	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	
	Rank	Substation	Circuit	District	Customers	Outages
52	Avery	00792-65	Montrose	124	19	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.09	Trees Off Row-Tree	56%	2Q 2022	
	SAIDI	5,087.67	Trees Off Row-Limb	41%		
	SAIFI	2.32	Trees - Sec/Service	3%		
	CAIDI	2,190.52	All Other	1%		
	Customer Minutes	630,871				
	Customers Affected	288				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by tree during a storm (sec/service)			Complete	Jul-21	
	Repair damage caused by tree during a storm (limb)			Complete	Apr-22	
	Repair damage caused by tree during a storm (Tree)			Complete	Apr-22	
	Rank	Substation	Circuit	District	Customers	Outages
	53	East Pike	00094-13	Indiana	1,577	10
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		1.08	Line Failure	78%	1Q 2022	
SAIDI		397.38	Switching Error	22%	2Q 2022	
SAIFI		2.32	Equipment Failure	0%		
CAIDI		171.50	All Other	0%		
Customer Minutes		626,672				
Customers Affected		3,654				
Remedial Action Planned or Taken			Status	Progress		
Repair line failure			Complete	Dec-21		
Repair line failure			Complete	Mar-22		
Restore fuse operation of a switching error			Complete	May-22		

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
54	Madera	00167-22	Philipsburg	1,630	44
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.07	Unknown	43%	1Q 2022
	SAIDI	381.76	Line Failure	42%	2Q 2022
	SAIFI	2.09	Forced Outage	9%	
	CAIDI	182.86	All Other	6%	
	Customer Minutes	622,275			
	Customers Affected	3,403			
	Remedial Action Planned or Taken			Status	Progress
	Restore recloser operation of unknown cause			Complete	Aug-21
	Repair line failure			Complete	Jan-22
Rank	Substation	Circuit	District	Customers	Outages
55	North Warren	00596-41	Warren	1,124	50
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.05	Trees Off Row-Tree	46%	1Q 2022
	SAIDI	541.66	Equipment Failure	40%	2Q 2022
	SAIFI	3.42	Unknown	4%	
	CAIDI	158.38	All Other	11%	
	Customer Minutes	608,821			
	Customers Affected	3,844			
	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
56	Punxsutawney	00118-23	Dubois	1,199	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.05	Line Failure	51%	3Q 2021
	SAIDI	507.13	Trees Off Row-Tree	22%	2Q 2022
	SAIFI	4.60	Animal	8%	
	CAIDI	110.23	All Other	20%	
	Customer Minutes	608,044			
	Customers Affected	5,516			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-21
	Repair line failure			Complete	Aug-21
Repair line failure			Complete	May-22	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
57	Grandview	00354-51	Oil City	526	38
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.99	Trees Off Row-Tree	62%	2Q 2022
	SAIDI	1,096.08	Trees Off Row-Limb	29%	
	SAIFI	2.64	Equipment Failure	6%	
	CAIDI	415.67	All Other	4%	
	Customer Minutes	576,539			
	Customers Affected	1,387			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Aug-21
	Repair damage caused by trees			Complete	May-22
Rank	Substation	Circuit	District	Customers	Outages
58	Lenox	00757-65	Montrose	107	14
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.97	Trees Off Row-Tree	53%	2Q 2022
	SAIDI	5,276.65	Ice	36%	
	SAIFI	5.43	Equipment Failure	5%	
	CAIDI	971.78	All Other	5%	
	Customer Minutes	564,602			
	Customers Affected	581			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Mar-22
	Repair damage caused by ice			Complete	Apr-22
Repair damage caused by trees			Complete	Jun-22	
Rank	Substation	Circuit	District	Customers	Outages
59	Glory	00106-13	Indiana	264	27
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.97	Trees Off Row-Tree	92%	3Q 2021
	SAIDI	2,122.23	Equipment Failure	3%	1Q 2022
	SAIFI	5.55	Unknown	1%	2Q 2022
	CAIDI	382.18	All Other	3%	
	Customer Minutes	560,269			
	Customers Affected	1,466			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-21
	Repair damage caused by trees			Complete	Sep-21
Repair damage caused by trees during a storm			Complete	Mar-22	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
60	Logan	00700-81	Lewistown	1,003	43
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.96	Trees Off Row-Tree	86%	3Q 2021
	SAIDI	556.40	Forced Outage	10%	4Q 2021
	SAIFI	3.28	Equipment Failure	2%	1Q 2022
	CAIDI	169.62	All Other	2%	2Q 2022
	Customer Minutes	558,066			
	Customers Affected	3,290			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Feb-21
	Repair damage caused by trees during a storm			Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages
61	Page Road	00445-43	Erie	658	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.94	Trees Off Row-Tree	90%	1Q 2022
	SAIDI	826.09	Wind	6%	2Q 2022
	SAIFI	4.39	Trees Off Row-Limb	3%	
	CAIDI	188.15	All Other	1%	
	Customer Minutes	543,570			
	Customers Affected	2,889			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-21
	Repair damage caused by trees			Complete	Feb-22
Repair damage caused by trees			Complete	Mar-22	
Rank	Substation	Circuit	District	Customers	Outages
62	Glen Campbell	00680-21	Clearfield	438	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.91	Trees Off Row-Tree	75%	3Q 2021
	SAIDI	1,200.05	Equipment Failure	14%	4Q 2021
	SAIFI	8.75	Trees Off Row-Limb	5%	1Q 2022
	CAIDI	137.17	All Other	6%	2Q 2022
	Customer Minutes	525,623			
	Customers Affected	3,832			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-21
	Repair equipment failure			Complete	Aug-21
Repair damage caused by trees			Complete	Sep-21	
Repair damage caused by trees			Complete	Nov-21	

Penelec					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	3Q 2021	4Q 2021	1Q 2022	2Q 2022
Blairsville East	00080-13	X	X	X	
Claysburg	00044-71	X	X	X	
Crown	00519-51	X	X	X	
East Hickory	00200-41	X	X	X	
Fallen Timbers	00995-22	X	X	X	
Falls	00297-65	X	X	X	
French Road	00550-31		X	X	
Greenwood	00041-71	X	X		
Millcreek	00055-11	X	X		
N Meshoppen Tran	00530-65	X	X		
Philipsburg	00162-22	X	X		
Portage	00635-72	X	X		
Punxsutawney	00117-23	X	X		
Revloc	00069-72	X	X		
Rolling Meadows	00310-31	X	X		
Samuel Rea Car Shop	00031-71	X	X	X	
Samuel Rea Car Shop	00032-71	X	X		
Seward	00075-11	X	X	X	
Shawville	00151-21	X	X		
Somerset	00013-12	X	X		
Tionesta	00344-51	X	X		
Titusville	00387-51		X	X	
Titusville	00514-51	X	X	X	
Tower 51	00051-11	X	X	X	
Wellsboro	00324-63		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
Samuel Rea Car Shop	00031-71	On cycle tree clearing	99%	99%
Greenwood	00041-71	On cycle tree clearing	99%	99%
Tower 51	00051-11	On cycle tree clearing	Complete	Jun-22
Philipsburg	00162-22	On cycle tree trimming	6%	6%
Somerset	00013-12	On cycle tree trimming	77%	77%
Fallen Timber	00995-22	Circuit Inspection	To be completed 2022	0%
Titusville Sub	00514-51	Circuit Inspection	Complete	Jun-22
Blairsville East Sub	00080-13	Circuit Inspection	To be completed 2022	0%
Nmeshoppen Sub	00530-65	Circuit Inspection	To be completed 2022	0%
Portage Sub	00635-72	Circuit Inspection	Complete	Jun-22
Fairview Altoona	00005-71	Targeted Circuit Rehab	To be completed 2022	0%
Fairview East	00216-34	Targeted Circuit Rehab	To be completed 2022	0%
Falls	00297-65	Install advanced Dx protective devices	To be completed 2022	0%
Samuel Rea Car Shop	00031-71	Install advanced Dx protective devices	To be completed 2022	0%
French Road	00550-31	Install advanced Dx protective devices	To be completed 2022	0%
Tionesta	00344-51	Install advanced Dx protective devices	To be completed 2022	0%
Somerset	00013-12	Install advanced Dx protective devices	To be completed 2022	0%
Millcreek	00055-11	Install advanced Dx protective devices	Complete	Jun-22

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
1	McDowell	W-121	Clark	698	39	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.48	Trees Off Row-Tree	93%	3Q 2021	
	SAIDI	1,074.79	Unknown	3%	4Q 2021	
	SAIFI	2.64	Bird	1%	1Q 2022	
	CAIDI	407	All Other	3%	2Q 2022	
	Customer Minutes	750,200				
	Customers Affected	1,845				
	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	Jul-21
Rank	Substation	Circuit	District	Customers	Outages	
2	McKnight	W748	Zelienople	1,379	18	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.45	Vehicle	76%	1Q 2022	
	SAIDI	540.50	Trees Off Row-Tree	15%	2Q 2022	
	SAIFI	1.84	Lightning	3%		
	CAIDI	293	All Other	6%		
	Customer Minutes	745,352				
	Customers Affected	2,540				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees				Complete	Jul-21
	Repair damage caused by trees during a storm				Complete	Aug-21
Repair damage caused by lightning				Complete	Aug-21	
Repair damage caused by a vehicle				Complete	Feb-22	
Rank	Substation	Circuit	District	Customers	Outages	
3	Ingomar	D620	Zelienople	1,271	15	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.27	Trees Off Row-Tree	95%	3Q 2021	
	SAIDI	562.17	Animal	2%	4Q 2021	
	SAIFI	2.88	Trees Off Row-Limb	2%	1Q 2022	
	CAIDI	195	All Other	2%	2Q 2022	
	Customer Minutes	714,518				
	Customers Affected	3,658				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by tree.				Complete	Jul-21
	Repair damage caused by trees during a storm				Complete	Aug-21
Repair damage caused by trees during a storm				Complete	Sep-21	

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
4	Stoneboro	W-131	Clark	1,456	112	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.20	Trees Off Row-Tree	77%	4Q 2021	
	SAIDI	482.96	Line Failure	12%	1Q 2022	
	SAIFI	1.52	Lightning	3%	2Q 2022	
	CAIDI	319	All Other	8%		
	Customer Minutes	703,193				
	Customers Affected	2,206				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Aug-21
	Repair line failure				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
	Rank	Substation	Circuit	District	Customers	Outages
5	Union	W-561	New Castle	1,566	28	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.31	Trees Off Row-Tree	70%	4Q 2021	
	SAIDI	353.89	Unknown	19%	1Q 2022	
	SAIFI	3.26	Forced Outage	8%	2Q 2022	
	CAIDI	108	All Other	2%		
	Customer Minutes	554,192				
	Customers Affected	5,110				
	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	Aug-21
	Forced outage caused by broken Verizon pole				Complete	Aug-21
	Repair damage caused by tree				Complete	Dec-21
	Restore breaker operation of unknown cause during storm.				Complete	Feb-22

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
6	Richard	W742	Zelienople	1,548	25	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.30	Trees Off Row-Tree	70%	1Q 2022	
	SAIDI	356.56	Line Failure	15%	2Q 2022	
	SAIFI	2.43	Animal	8%		
	CAIDI	147	All Other	7%		
	Customer Minutes	551,950				
	Customers Affected	3,754				
	Remedial Action Planned or Taken				Status	Progress
	Repair line failure				Complete	Aug-21
	Repair damage caused by tree				Complete	Mar-21
	Repair damage caused by trees				Complete	Jun-22
	Rank	Substation	Circuit	District	Customers	Outages
7	Seneca	W700	Zelienople	897	39	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.09	Trees Off Row-Tree	90%	3Q 2021	
	SAIDI	577.26	Line Failure	4%	4Q 2021	
	SAIFI	2.42	Vehicle	1%	1Q 2022	
	CAIDI	239	All Other	5%	2Q 2022	
	Customer Minutes	517,800				
	Customers Affected	2,170				
	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	Sep-21
	Repair line failure				Complete	Feb-22
	Rank	Substation	Circuit	District	Customers	Outages
8	Warrendale	D625	Zelienople	1,289	26	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.72	Trees Off Row-Tree	83%	3Q 2021	
	SAIDI	353.26	Equipment Failure	9%	4Q 2021	
	SAIFI	2.61	Overload	3%	1Q 2022	
	CAIDI	135	All Other	5%	2Q 2022	
	Customer Minutes	455,346				
	Customers Affected	3,361				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by tree				Complete	Jul-21
	Repair damage caused by trees during a storm				Complete	Aug-21
	Repair damage caused by trees during a storm				Complete	Sep-21
	Repair damage caused by trees during a storm				Complete	Feb-22

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
9	Hadley	W-195	Clark	895	51	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.63	Trees Off Row-Tree	77%	2Q 2022	
	SAIDI	492.01	Trees Off Row-Limb	7%		
	SAIFI	1.27	Unknown	6%		
	CAIDI	387	All Other	10%		
	Customer Minutes	440,345				
	Customers Affected	1,139				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees				Complete	Feb-22
Rank	Substation	Circuit	District	Customers	Outages	
10	Castlewood	D-326	New Castle	1,186	45	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.35	Trees Off Row-Tree	79%	4Q 2021	
	SAIDI	332.28	Human Error -Non-Company	18%	1Q 2022	
	SAIFI	2.37	Unknown	1%	2Q 2022	
	CAIDI	140	All Other	2%		
	Customer Minutes	394,079				
	Customers Affected	2,805				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Jul-21
	Repair damage due to human error (customer brought tree down)				Complete	Sep-21
	Repair damage caused by trees during a storm				Complete	Dec-21
	Repair damage caused by trees during a storm				Complete	Feb-22

Penn Power					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	3Q 2021	4Q 2021	1Q 2022	2Q 2022
Richard	W745	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	Hickory	Hickory	Washington	949	57
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.7	Unknown	40%	Q1 2022
	SAIDI	4,338	Ice	36%	Q2 2022
	SAIFI	3.05	Trees off ROW	11%	
	CAIDI	1420	All Other	13%	
	Customer Minutes	4,116,362			
	Customers Affected	2,898			
	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
	Rank	Substation	Circuit	District	Customers
2	Dutch Fork	Claysville	Washington	1,635	100
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.7	Trees off ROW	63%	Q3 2021
	SAIDI	2507	Unknown	14%	Q1 2022
	SAIFI	2.94	Ice	12%	Q2 2022
	CAIDI	853	All Other	11%	
	Customer Minutes	4,099,397			
	Customers Affected	4,805			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Sep-21
	Repair damage caused by ice during a storm			Complete	Feb-22
	Forced outage to repair damage during a storm			Complete	Apr-22
Rank	Substation	Circuit	District	Customers	Outages
3	Avella	W Middletown	Washington	1,101	107
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.3	Trees off ROW	52%	Q3 2021
	SAIDI	3495	Ice	22%	Q4 2021
	SAIFI	5.26	Line Failure	10%	Q1 2022
	CAIDI	665	All Other	16%	Q2 2022
	Customer Minutes	3,848,344			
	Customers Affected	5,791			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a vehicle			Complete	Jul-21
	Repair damage caused by wind during a storm			Complete	Oct-21
	Repair damage caused by ice during a storm			Complete	Feb-22
Repair damage caused by a tree during a storm			Complete	May-22	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
4	Dutch Fork	W Alexander	Washington	1178	83
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.3	Ice	51%	Q1 2022
	SAIDI	3,264	Trees off ROW	37%	Q2 2022
	SAIFI	3.33	Unknown	12%	
	CAIDI	981	All Other	0%	
	Customer Minutes	3,844,594			
	Customers Affected	3,918			
	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			To be completed 2022	98%
Rank	Substation	Circuit	District	Customers	Outages
5	Smith	Florence	Washington	807	55
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.9	Trees off ROW	78%	Q1 2022
	SAIDI	4,444	Ice	16%	Q2 2022
	SAIFI	1.94	Trees on ROW	5%	
	CAIDI	2296	All Other	1%	
	Customer Minutes	3,586,171			
	Customers Affected	1,562			
	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			To be completed 2022	8%
Rank	Substation	Circuit	District	Customers	Outages
6	Paris	Paris	Washington	759	29
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.9	Ice	54%	Q1 2022
	SAIDI	4,679	Trees off ROW	25%	Q2 2022
	SAIFI	2.19	Wind	16%	
	CAIDI	2136	All Other	5%	
	Customer Minutes	3,551,557			
	Customers Affected	1,663			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by ice during a storm			Complete	Feb-22
Repair damage caused by a tree			Complete	Apr-22	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
7	Amity	Banetown	Washington	1485	87
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.6	Trees off ROW	76%	Q3 2021
	SAIDI	2,260	Ice	10%	Q4 2021
	SAIFI	4.21	Trees on ROW	9%	Q1 2022
	CAIDI	537	All Other	5%	Q2 2022
	Customer Minutes	3,356,600			
	Customers Affected	6,250			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-21
	Repair damage caused by a tree during a storm			Complete	Dec-21
	Repair damage caused by a tree during a storm			Complete	Feb-22
	Repair damage caused by a tree during a storm			Complete	Jun-22
	Rank	Substation	Circuit	District	Customers
8	Smith	Francis Mine	Washington	1,434	41
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.4	Trees off ROW	97%	Q3 2021
	SAIDI	2244	Trees on ROW	1%	Q4 2021
	SAIFI	2.74	Line Failure	1%	Q1 2022
	CAIDI	820	All Other	1%	Q2 2022
	Customer Minutes	3,218,255			
	Customers Affected	3,926			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Aug-21
	Repair damage caused by a tree			Complete	Sep-21
	Repair line failure			Complete	Nov-21
	Repair damage caused by a tree during a storm			Complete	Feb-22
	Restore unknown outage			Complete	Jun-22

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
9	Rutan	Bristoria	Jefferson	1,119	103
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.3	Trees off ROW	79%	Q3 2021
	SAIDI	2772	Unknown	7%	Q4 2021
	SAIFI	4.3	Line Failure	6%	Q1 2022
	CAIDI	645	All Other	8%	Q2 2022
	Customer Minutes	3,101,361			
	Customers Affected	4,808			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-21
	Restore unknown outage			Complete	Dec-21
	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
Rank	Substation	Circuit	District	Customers	Outages
10	Lagonda	Lagonda	Washington	1,635	76
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4	Ice	50%	Q2 2022
	SAIDI	1760	Trees off ROW	40%	
	SAIFI	2.04	Trees on ROW	3%	
	CAIDI	862	All Other	7%	
	Customer Minutes	2,877,779			
	Customers Affected	3,339			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jun-22
Rank	Substation	Circuit	District	Customers	Outages
11	Houston	McGovern	Washington	2,096	64
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.7	Trees off ROW	67%	Q2 2022
	SAIDI	1269	Ice	17%	
	SAIFI	2.54	Trees on ROW	5%	
	CAIDI	499	All Other	11%	
	Customer Minutes	2,659,035			
	Customers Affected	5,334			
	Remedial Action Planned or Taken			Status	Progress
Repair damage caused by a tree			Complete	Apr-22	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
12	Treveskyn	Treveskyn	Boyce	1,502	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.7	Trees off ROW	96%	Q3 2021
	SAIDI	1768	Line Failure	2%	Q4 2021
	SAIFI	4.3	Forced Outage	1%	Q1 2022
	CAIDI	411	All Other	1%	Q2 2022
	Customer Minutes	2,655,225			
	Customers Affected	6,458			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-21
	Repair damage caused by a tree during a storm			Complete	Dec-21
	Repair damage caused by a tree during a storm			Complete	Jun-22
	Overhead Circuit Inspection			To be completed 2022	0%
Rank	Substation	Circuit	District	Customers	Outages
13	Donegal	Bear Rocks	Pleasant Valley	1276	64
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.5	Trees off ROW	95%	Q1 2022
	SAIDI	2014	Line Failure	1%	Q2 2022
	SAIFI	2.22	Lightning	1%	
	CAIDI	908	All Other	3%	
	Customer Minutes	2,569,680			
	Customers Affected	2,830			
	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			To be completed 2022	0%
	Rank	Substation	Circuit	District	Customers
14	McDonald	Noblestown	Boyce	1828	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.1	Unknown	66%	Q3 2021
	SAIDI	1240	Trees off ROW	17%	Q2 2022
	SAIFI	2.34	Ice	14%	
	CAIDI	529	All Other	3%	
	Customer Minutes	2,265,840			
	Customers Affected	4,281			
	Remedial Action Planned or Taken			Status	Progress
	Restore unknown outage			Complete	Aug-21
Repair damage caused by a tree			Complete	Apr-22	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
15	Piney Fork	Gillhall	Charleroi	2,224	19
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.1	Trees off ROW	49%	Q3 2021
	SAIDI	1006	Line Failure	23%	Q4 2021
	SAIFI	2.52	Vehicle	21%	Q1 2022
	CAIDI	399	All Other	7%	Q2 2022
	Customer Minutes	2,237,586			
	Customers Affected	5,610			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Aug-21
	Repair damage caused by a tree during a storm			Complete	Jun-22
	Rank	Substation	Circuit	District	Customers
16	Robbins	Balkan	Jeannette	1717	21
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.1	Trees off ROW	81%	Q3 2021
	SAIDI	1,289	Trees on ROW	17%	Q4 2021
	SAIFI	2.99	Line Failure	1%	Q1 2022
	CAIDI	431	All Other	1%	Q2 2022
	Customer Minutes	2,212,498			
	Customers Affected	5,138			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-21
	On cycle tree trimming			Complete	Sep-21
	Repair line failure			Complete	Nov-21
Repair line failure			Complete	Feb-22	
Repair damage caused by a tree during a storm			Complete	May-22	
Rank	Substation	Circuit	District	Customers	Outages
17	Houston	Weavertown	Washington	2,264	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.8	Trees off ROW	52%	Q2 2022
	SAIDI	905	Unknown	36%	
	SAIFI	2.14	Forced Outage	6%	
	CAIDI	424	All Other	6%	
	Customer Minutes	2,047,883			
	Customers Affected	4,834			
	Remedial Action Planned or Taken			Status	Progress
Repair damage caused by a tree			Complete	May-22	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
18	Hickory	Fort Cherry	Washington	1,042	65
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.8	Trees off ROW	71%	Q1 2022
	SAIDI	1933	Unknown	14%	Q2 2022
	SAIFI	4.54	Equipment failure	10%	
	CAIDI	425	All Other	5%	
	Customer Minutes	2,014,222			
	Customers Affected	4,735			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Feb-22
	Repair damage caused by a tree			Complete	May-22
Rank	Substation	Circuit	District	Customers	Outages
19	North Fayette	Tyre	Boyce	1804	81
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.8	Trees off ROW	31%	Q1 2022
	SAIDI	1116	Ice	23%	Q2 2022
	SAIFI	3.04	Unknown	17%	
	CAIDI	367	All Other	29%	
	Customer Minutes	2,013,949			
	Customers Affected	5,487			
	Remedial Action Planned or Taken			Status	Progress
	Restore unknown outage			Complete	Feb-22
	Repair damage caused by a tree during a storm			Complete	May-22
Rank	Substation	Circuit	District	Customers	Outages
20	Midway	Midway	Washington	938	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.7	Trees on ROW	46%	Q1 2022
	SAIDI	2085	Trees off ROW	26%	Q2 2022
	SAIFI	2.32	Line Failure	11%	
	CAIDI	901	All Other	17%	
	Customer Minutes	1,955,943			
	Customers Affected	2,172			
	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	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
21	Thomas	Thomas	Boyce	1352	64
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.7	Trees off ROW	63%	Q3 2021
	SAIDI	1443	Vehicle	18%	Q4 2021
	SAIFI	3.95	Unknown	9%	Q1 2022
	CAIDI	365	All Other	10%	Q2 2022
	Customer Minutes	1,950,687			
	Customers Affected	5,341			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a vehicle during a storm			Complete	Jul-21
	Repair damage caused by a tree during a storm			Complete	Dec-21
	Repair damage caused by a tree during a storm			Complete	Feb-22
	Repair damage caused by a tree during a storm			Complete	May-22
	Overhead Circuit Inspection			To be completed 2022	39%
Rank	Substation	Circuit	District	Customers	Outages
22	Gordon	Wolfdale	Washington	2,085	53
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.5	Trees off ROW	75%	Q3 2021
	SAIDI	861	Ice	7%	Q4 2021
	SAIFI	2.12	Unknown	7%	Q1 2022
	CAIDI	407	All Other	11%	Q2 2022
	Customer Minutes	1,796,037			
	Customers Affected	4,412			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-21
	Repair line failure			Complete	Oct-21
	Repair damage caused by a tree during a storm			Complete	Feb-22
	Repair damage caused by a tree during a storm			Complete	May-22
	Overhead Circuit Inspection			To be completed 2022	3%

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
23	Cecil	Bishop	Boyce	1,935	56
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.3	Trees on ROW	70%	Q1 2022
	SAIDI	876	Trees off ROW	26%	Q2 2022
	SAIFI	2.84	Unknown	2%	
	CAIDI	309	All Other	2%	
	Customer Minutes	1,695,783			
	Customers Affected	5,494			
	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
Rank	Substation	Circuit	District	Customers	Outages
24	Fawn	Bull Creek	Arnold	1,056	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.3	Trees off ROW	97%	Q2 2022
	SAIDI	1589	Trees on ROW	2%	
	SAIFI	4.04	Line Failure	0.4%	
	CAIDI	393	All Other	0.6%	
	Customer Minutes	1,677,698			
	Customers Affected	4,266			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jun-22
Rank	Substation	Circuit	District	Customers	Outages
25	Karns City	Kaylor	Butler	1,150	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.3	Trees off ROW	83%	Q3 2021
	SAIDI	1459	Line Failure	9%	Q4 2021
	SAIFI	3.38	Equipment failure	7%	Q1 2022
	CAIDI	432	All Other	1%	Q2 2022
	Customer Minutes	1,677,458			
	Customers Affected	3,882			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Sep-21
	Restore unknown outage			Complete	Oct-21
Repair equipment failure during a storm			Complete	Mar-22	
Restore unknown outage during a storm			Complete	Jun-22	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
26	White Valley	Congruity	Jeannette	1,732	39
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.3	Trees off ROW	71%	Q2 2022
	SAIDI	949	Trees on ROW	12%	
	SAIFI	2.82	Unknown	12%	
	CAIDI	337	All Other	5%	
	Customer Minutes	1,644,194			
	Customers Affected	4,884			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	May-22
Rank	Substation	Circuit	District	Customers	Outages
27	Waterville	Waterville	State College	357	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.2	Other Electric Utility	53%	Q3 2021
	SAIDI	4485	Trees off ROW	45%	Q4 2021
	SAIFI	10.66	Fire	1%	Q1 2022
	CAIDI	421	All Other	1%	Q2 2022
	Customer Minutes	1,601,147			
	Customers Affected	3,804			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jul-21
	Repair damage caused by a tree			Complete	Dec-21
	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
Rank	Substation	Circuit	District	Customers	Outages
28	Cecil	Murray Hill	Boyce	1,789	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2	Trees off ROW	89%	Q3 2021
	SAIDI	792	Equipment failure	4%	Q4 2021
	SAIFI	3.37	Wind	3%	Q1 2022
	CAIDI	235	All Other	4%	Q2 2022
	Customer Minutes	1,416,776			
	Customers Affected	6,022			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-21
	Repair equipment failure			Complete	Oct-21
	Repair equipment failure			Complete	Jan-22
	Repair damage caused by a tree during a storm			Complete	Jun-22

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
29	Mateer	Dime Rd	Arnold	1,197	72
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.9	Trees off ROW	58%	Q4 2021
	SAIDI	1179	Forced Outage	18%	Q2 2022
	SAIFI	2.31	Trees on ROW	16%	
	CAIDI	511	All Other	8%	
	Customer Minutes	1,410,875			
	Customers Affected	2,762			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Dec-21
	Overhead Circuit Inspection			Complete	May-22
	Repair damage caused by a tree during a storm			Complete	Jun-22
	Rank	Substation	Circuit	District	Customers
30	Vestaburg	Fredericktown	Jefferson	818	5
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.8	Trees off ROW	60%	Q1 2022
	SAIDI	1625	Line Failure	39%	Q2 2022
	SAIFI	1.94	Equipment failure	0.3%	
	CAIDI	838	All Other	0.7%	
	Customer Minutes	1,329,439			
	Customers Affected	1,586			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure during a storm			Complete	Feb-22
Rank	Substation	Circuit	District	Customers	Outages
31	Avella	Penowa	Washington	648	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.8	Trees off ROW	42%	Q3 2021
	SAIDI	1962	Ice	34%	Q4 2021
	SAIFI	3.14	Trees on ROW	16%	Q1 2022
	CAIDI	625	All Other	8%	Q2 2022
	Customer Minutes	1,271,161			
	Customers Affected	2,034			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jul-21
	Repair damage caused by a tree during a storm			Complete	Dec-21
	Repair damage caused by ice during a storm			Complete	Feb-22
	Repair damage caused by a tree during a storm			Complete	Jun-22

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
32	Crossgates	Peters Twp	Boyce	1071	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.7	Line Failure	81%	Q4 2021
	SAIDI	1120	Trees off ROW	13%	Q1 2022
	SAIFI	2.2	Equipment failure	2%	Q2 2022
	CAIDI	509	All Other	4%	
	Customer Minutes	1,199,934			
	Customers Affected	2,359			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Oct-21
	Repair line failure			Complete	Jan-22
	Repair line failure			Complete	Apr-22
	Rank	Substation	Circuit	District	Customers
33	Flintstone	Chaneysville	Hyndman	576	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.6	Trees off ROW	68%	Q3 2021
	SAIDI	2033	Trees on ROW	27%	Q4 2021
	SAIFI	5.16	Line Failure	4%	Q1 2022
	CAIDI	394	All Other	1%	Q2 2022
	Customer Minutes	1,170,758			
	Customers Affected	2,970			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-21
	Repair damage caused by a tree			Complete	Oct-21
	On cycle tree trimming			Complete	Dec-21
	Repair line failure			Complete	Jan-22
Rank	Substation	Circuit	District	Customers	Outages
34	Franklin	Rogersville	Jefferson	831	71
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.6	Trees off ROW	93%	Q3 2021
	SAIDI	1395	Equipment failure	4%	Q4 2021
	SAIFI	2.54	Unknown	1%	Q1 2022
	CAIDI	550	All Other	2%	Q2 2022
	Customer Minutes	1,159,412			
	Customers Affected	2,107			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Aug-21
	Repair damage caused by a tree			Complete	Nov-21
	Repair damage caused by a tree during a storm			Complete	Feb-22
	Repair damage caused by a tree during a storm			Complete	Jun-22

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
35	Graysville	Graysville	Jefferson	557	49
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.5	Trees off ROW	71%	Q4 2021
	SAIDI	1971	Line Failure	9%	Q1 2022
	SAIFI	2.58	Wind	9%	Q2 2022
	CAIDI	763	All Other	11%	
	Customer Minutes	1,098,068			
	Customers Affected	1,439			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by an animal			Complete	Dec-21
	Repair damage caused by wind during a storm			Complete	Mar-22
	Repair line failure during a storm			Complete	May-22
	Overhead Circuit Inspection			To be completed 2022	0%
Rank	Substation	Circuit	District	Customers	Outages
36	Saltsburg	Bell Township	Arnold	754	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Trees off ROW	82%	Q1 2022
	SAIDI	1369	Unknown	13%	Q2 2022
	SAIFI	3.3	Vehicle	3%	
	CAIDI	414	All Other	2%	
	Customer Minutes	1,032,477			
	Customers Affected	2,491			
	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
Rank	Substation	Circuit	District	Customers	Outages
37	Galley	Waterdam	Washington	1,569	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Trees off ROW	52%	Q2 2022
	SAIDI	654	Wind	19%	
	SAIFI	2.39	Trees on ROW	17%	
	CAIDI	274	All Other	12%	
	Customer Minutes	1,025,831			
	Customers Affected	3,746			
	Remedial Action Planned or Taken			Status	Progress
Repair damage caused by a tree during a storm			Complete	May-22	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
38	Linden-Wash	Wylandville	Washington	1048	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Trees off ROW	52%	Q2 2022
	SAIDI	966	Forced Outage	18%	
	SAIFI	4.38	Line Failure	11%	
	CAIDI	221	All Other	19%	
	Customer Minutes	1,012,150			
	Customers Affected	4,586			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	May-22
	Zone 1 Infrared Inspection				
Rank	Substation	Circuit	District	Customers	Outages
39	Robbins	Mt. Vernon	Jeannette	1037	17
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Trees off ROW	57%	Q2 2022
	SAIDI	963	Equipment failure	39%	
	SAIFI	2.52	Line Failure	2%	
	CAIDI	382	All Other	2%	
	Customer Minutes	998,325			
	Customers Affected	2,613			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure during a storm			Complete	May-22
	Overhead Circuit Inspection			To be completed 2022	16%
Rank	Substation	Circuit	District	Customers	Outages
40	Peters	Library	Boyce	1846	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.3	Trees off ROW	44%	Q1 2022
	SAIDI	529	Unknown	42%	Q2 2022
	SAIFI	2.7	Line Failure	11%	
	CAIDI	196	All Other	3%	
	Customer Minutes	976,456			
	Customers Affected	4,985			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Mar-22
	Repair damage caused by a tree			Complete	May-22
Zone 1 Infrared Inspection			To be completed 2022	0%	

West Penn					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	3Q 2021	4Q 2021	1Q 2022	2Q 2022
Bethel Park	Dashwood	X	X	X	
Cooperstown	Twin Willows		X	X	
Crossgates	Robinhood	X	X		
Driftwood	Driftwood	X	X		
Dry Run	Town	X	X		
Enlow	Summit	X	X	X	
Fountaindale	Carroll Valley	X	X		
Fowler	Bald Eagle	X	X		
King Farm	Church St.	X	X		
New Kensington	Power		X	X	
North Union	Phillips		X	X	
Port Matilda	Port Matilda	X	X	X	
Saltsburg	Saltsburg	X	X	X	
Shingletown	Windmill Rd	X	X		
Vandergrift	Grifflo Park	X	X	X	
Weedville	Weedville	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
Charleroi	N. Charleroi	Overhead circuit inspection	In Progress	15%
Crossgates	Robinhood	Overhead circuit inspection	Complete	Jun-22
Mateer	Dime Rd	Overhead circuit inspection	Complete	May-22
New Kensington	Power	Zone 1 infrared inspection	Complete	Jun-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			
2nd Quarter 2022 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Abandoned/Untoneable Line	2	1,916	0
Dig In - Other	7	1,200	199
Excavated in Tolerance	23	52,946	4,966
Excavation Inconsistent with Ticket Scope	6	4,229	0
Excavation Prior to Lawful Start Date	1	4,853	0
Expired Ticket	4	4,530	0
Hand Digging	0	0	0
Marked Improperly	11	83,754	0
No Ticket	21	52,693	15,325
Total	73	204,205	20,490

Penelec – Third Party Line Hit Incidents			
2nd Quarter 2022 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Abandoned/Un-toneable	0	0	0
Dig In - Other	21	20,777	0
Excavated in Tolerance	22	18,810	0
Excavation Inconsistent with Ticket Scope	1	1,141	0
Excavation Prior to Lawful Start Date	3	0	0
Expired Ticket	2	15,583	0
Hand Digging	0	0	0
Marked Improperly	27	108,954	6,861
No Ticket	22	29,827	4,171
Total	98	195,092	11,032

Penn Power – Third Party Line Hit Incidents			
2nd Quarter 2022 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Abandoned/Un-toneable	0	0	0
Dig In - Other	6	1,588	0
Excavated in Tolerance	9	5,366	154
Excavation Inconsistent with Ticket Scope	5	3,569	0
Excavation Prior to Lawful Start Date	1	0	0
Expired Ticket	2	122	0
Hand Digging	0	0	0
Marked Improperly	3	14,220	0
No Ticket	8	13,918	2,979
Total	34	38,783	3,133

West Penn – Third Party Line Hit Incidents			
2nd Quarter 2022 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Abandoned/Un-toneable	0	0	0
Dig In - Other	5	17,457	0
Excavated in Tolerance	13	22,057	500
Excavation Inconsistent with Ticket Scope	4	8,504	0
Excavation Prior to Lawful Start Date	1	263	0
Expired Ticket	2	4,116	0
Hand Digging	2	0	0
Marked Improperly	22	104,859	5,533
No Ticket	24	49,007	5,771
Total	73	206,263	11,804

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 2nd Quarter 2022 Reliability Report – :
Metropolitan Edison Company, :
Pennsylvania Electric Company :
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).

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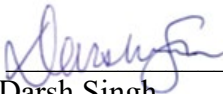
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