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May 6, 2021

VIA E-FILING

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

Re: Joint 1st Quarter 2021 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 1st Quarter 2021 Reliability Report – Public Version (“Joint Report”). Please note the original cover page that was submitted on April 30, 2021 was revised and that the confidential version was emailed to Secretary Rosemary Chiavetta on April 30, 2021.

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,



Tori L. Giesler

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)

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April 30, 2021

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Commonwealth Keystone Building
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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 1st Quarter 2020 Reliability Report – Public Version (“Joint Report”).

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Sincerely,



Teresa K. Harrold

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Joint 2021 1st 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 1st Quarter 2021 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	18,666	Duration	60 hours, 25 minutes	High Winds and Rain	Approved April 13, 2021
		Start Date/Time	March 26, 2021 0529		
		End Date/Time	March 28, 2021 1754		

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

1Q 2021 (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	1.23	1.26	1.52	1.66	1.12	1.34	0.83	1.05	1.26	1.10
CAIDI	117	140	157	117	141	152	101	121	187	170	204	217
SAIDI	135	194	193	148	213	253	113	162	154	179	257	240
MAIFI²			0.487			0.534			0.059			
Customers Served³	572,171			580,057			165,638			721,627		
Number of Sustained Interruptions	11,848			13,992			3,049			12,146		
Customers Affected	703,819			965,429			136,802			795,128		
Customer Minutes	110,335,718			147,018,421			25,561,423			172,825,239		
Number of Customer Momentary Interruptions	278,873			310,388			9,773					

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 1Q 2021:

Met-Ed

- Beginning the morning of Friday, March 26, 2021, a cold front with high winds moved across Pennsylvania, including the Met-Ed service territory. The front formed a storm system which produced sustained high winds with maximum winds gusts up to 52 miles per hour. The reliability impact of the storm was 8.4 minutes of System Average Interruption Duration Index (“SAIDI”), 0.03 of System Average Interruption Frequency Index (“SAIFI”), and an overall storm Customer Average Interruption Duration Index (“CAIDI”) of 246.29 minutes.

Penelec

- On January 1, 2021, a system moved through Pennsylvania, including the Penelec service territory. This system produced freezing rain and ice accumulations of up to 0.66 inches. Data indicates the reliability impact of the storm was 5.6 minutes of SAIDI, 0.02 of SAIFI, and an overall storm CAIDI of 272.25 minutes.
- Beginning Sunday, January 3, 2021 and continuing into Monday, January 4, 2021, a winter storm system moved through central and eastern Pennsylvania, including the Penelec service territory. This winter storm produced wet snow, with total snow accumulations up to 14 inches in some areas. Data indicates the reliability impact of the storm was 7.6 minutes of SAIDI, 0.02 of SAIFI, and an overall storm CAIDI of 335.04 minutes.
- Beginning the morning of Friday, March 26, 2021, a cold front moved through Pennsylvania, including the Penelec service territory. This front formed a strong storm system which produced wind and rain with maximum wind gusts up to 62 miles per hour in some areas. Data indicates the reliability impact of the storm was 27.9 minutes of SAIDI, 0.09 of SAIFI, and an overall storm CAIDI of 295.69 minutes.

Penn Power

- Beginning the morning of Friday, March 26, 2021, a cold front moved through Pennsylvania, including the Penn Power service territory. This front formed a strong storm system which produced wind and rain with maximum wind gusts up to of 52 miles per hour in some areas. Data indicates the reliability impact of the storm was 21.2 minutes of SAIDI, 0.11 of SAIFI, and an overall storm CAIDI of 187.8 minutes.

West Penn

- Beginning the early morning hours of Friday, March 26, 2021, a cold front with high winds moved through Pennsylvania, including the West Penn service territory. This front formed a storm system which produced sustained high winds and periods of rain with maximum wind gusts up to 62 miles per hour in some areas. Data indicates the reliability impact of the storm was 7.4 minutes of SAIDI, 0.04 of SAIFI, and an overall storm CAIDI of 205.4 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

Outages by Cause – Met-Ed

Outage by Cause				
1st Quarter 2021 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	50,541,801	2,905	189,370	45.81%
Equipment failure	22,192,886	2,490	177,455	20.11%
Unknown	6,760,846	1,255	50,702	6.13%
Vehicle	5,351,516	295	32,293	4.85%
Line failure	5,270,410	686	31,604	4.78%
Trees off ROW - limb	4,157,532	486	31,573	3.77%
Forced outage	3,380,671	435	67,965	3.06%
Animal	2,790,969	1,405	28,465	2.53%
Wind	1,719,017	143	7,464	1.56%
Lightning	1,502,229	198	16,881	1.36%
Object contact with line	1,433,609	56	6,825	1.30%
Human error - company	1,227,644	65	36,728	1.11%
Bird	880,128	491	6,197	0.80%
Trees - sec/service	813,143	511	1,857	0.74%
Trees on ROW	768,119	119	3,724	0.70%
Overload	721,581	87	7,544	0.65%
Human error - non-company	550,849	68	3,805	0.50%
Ice	89,700	17	145	0.08%
Other utility - non-electric	49,070	5	500	0.04%
UG dig-up	44,894	28	230	0.04%
Fire	26,961	11	673	0.02%
Customer equipment	24,592	52	774	0.02%
Other electric utility	11,317	5	728	0.01%
Previous lightning	11,158	25	41	0.01%
Vandalism	10,540	8	67	0.01%
Contamination	2,790	1	15	0.00%
Switching error	1,746	1	194	0.00%
Total	110,335,718	11,848	703,819	100%

Proposed Solutions – Met-Ed

Met-Ed analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending March 31, 2021, 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				
1st Quarter 2021 12-Month Rolling	Penelec			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	62,024,383	1,986	222,910	42.19%
Equipment failure	28,414,411	2,589	233,101	19.33%
Line failure	11,199,062	1,517	93,297	7.62%
Unknown	7,208,234	1,826	102,754	4.90%
Forced outage	7,095,575	1,132	65,701	4.83%
Lightning	5,913,904	456	45,019	4.02%
Trees off ROW - limb	4,537,788	353	29,398	3.09%
Vehicle	4,304,320	271	33,237	2.93%
Animal	3,290,317	1,633	36,531	2.24%
Ice	2,614,822	164	7,061	1.78%
Other electric utility	2,556,544	166	17,544	1.74%
Wind	2,209,481	185	9,413	1.50%
Human error - company	1,463,667	53	33,233	1.00%
Trees - sec/service	1,007,970	772	2,540	0.69%
Human error - non-company	978,266	102	5,945	0.67%
Bird	829,509	457	8,677	0.56%
Overload	417,501	44	4,606	0.28%
Trees on ROW	239,279	75	1,918	0.16%
Object contact with line	227,139	40	2,008	0.15%
Switching Error	110,638	9	4,089	0.08%
Vandalism	101,048	14	690	0.07%
Other utility - non-electric	77,296	6	417	0.05%
UG dig-up	66,192	51	472	0.05%
Fire	45,582	18	387	0.03%
Customer equipment	45,409	25	4,223	0.03%
Contamination	34,822	33	226	0.02%
Previous lightning	5,104	14	31	0.00%
Call error	158	1	1	0.00%
Total	147,018,421	13,992	965,429	100%

Proposed Solutions – Penelec

Penelec analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending March 31, 2021 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. Penelec continues its program to mitigate trees subject to damage from the Emerald Ash Borer.

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

Outages by Cause – Penn Power

Outage by Cause				
1st Quarter 2021 12-Month Rolling	Penn Power			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	15,924,938	856	54,718	62.30%
Lightning	1,860,607	167	11,181	7.28%
Equipment failure	1,790,471	311	17,539	7.00%
Line failure	1,532,325	271	8,878	5.99%
Vehicle	1,412,228	94	13,698	5.52%
Trees off ROW - limb	1,094,088	169	8,369	4.28%
Animal	614,471	421	7,026	2.40%
Unknown	345,609	102	3,529	1.35%
Bird	317,114	365	3,516	1.24%
Trees - sec/service	212,122	167	470	0.83%
Forced outage	192,938	54	2,864	0.75%
Human error - non-company	83,420	17	789	0.33%
Human error - company	73,718	13	3,181	0.29%
Overload	52,617	10	675	0.21%
Object contact with line	24,029	5	202	0.09%
Ice	18,069	2	27	0.07%
UG dig-up	6,283	10	73	0.02%
Trees on ROW	3,501	4	27	0.01%
Fire	1,395	2	13	0.01%
Customer equipment	690	5	6	0.00%
Previous lightning	534	3	13	0.00%
Contamination	256	1	8	0.00%
Total	25,561,423	3,049	136,802	100%

Proposed Solutions – Penn Power

Penn Power analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending March 31, 2021 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				
1st Quarter 2021 12-Month Rolling	West Penn			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	95,795,952	3,245	286,688	55.43%
Equipment failure	17,984,701	1,920	112,623	10.41%
Unknown	12,721,143	1,547	86,620	7.36%
Line failure	11,946,080	1,268	71,030	6.91%
Vehicle	8,563,741	304	62,226	4.96%
Trees on ROW	6,776,754	442	23,932	3.92%
Forced outage	4,743,109	520	59,911	2.74%
Wind	4,619,785	192	16,315	2.67%
Trees off ROW - limb	2,888,987	216	20,286	1.67%
Animal	2,145,860	1,348	24,205	1.24%
Lightning	813,975	110	7,997	0.47%
Human error - company	634,965	37	7,489	0.37%
Object contact with line	624,697	34	2,225	0.36%
Other electric utility	587,504	12	1,503	0.34%
Trees - sec/service	493,674	429	738	0.29%
Human error - non-company	452,782	63	3,719	0.26%
Ice	298,888	14	1,196	0.17%
Bird	249,004	375	3,429	0.14%
Vandalism	192,449	5	486	0.11%
Fire	114,523	3	597	0.07%
Overload	73,168	6	486	0.04%
UG dig-up	53,639	37	1,316	0.03%
Other utility - non-electric	25,373	5	75	0.01%
Customer equipment	15,212	12	30	0.01%
Previous Lightning	9,274	2	6	0.01%
Total	172,825,239	12,146	795,128	100%

Proposed Solutions – West Penn

West Penn analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending March 31, 2021, 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 2021		Met-Ed			Penelec			Penn Power			West Penn		
		Planned	Completed		Planned	Completed		Planned	Completed		Planned	Completed	
		Annual	1Q	YTD	Annual	1Q	YTD	Annual	1Q	YTD	Annual	1Q	YTD
Forestry	Transmission (Miles)	288.35	146.90	146.90	485.79	134.11	134.11	137.78	28.34	28.34	167.08	102.74	102.74
	Distribution (Miles)	2,925	729	729	3,703	927	927	1,162	315	315	4,675	1,158	1,158
Transmission	Aerial Patrols	2	0	0	2	0	0	2	0	0	2	0	0
	Groundline	1,167	0	0	3,049	24	24	484	230	230	2,072	340	340
Substation	Substation Inspections Class A	418	209	209	784	392	392	148	74	74	950	475	475
	Substation Inspections Class B	418	0	0	784	0	0	148	0	0	950	0	0
	Substation Inspections Class C	1,672	418	418	3,136	784	784	592	148	148	3,800	950	950
	Transformers	148	39	39	419	256	256	14	0	0	347	171	171
	Breakers	78	28	28	433	138	138	9	0	0	388	28	28
	Relay Schemes	276	106	106	259	60	60	22	4	4	106	12	12
Distribution	Capacitors	4,767	4,777	4,777	8,667	8667	8,667	984	984	984	1,312	1312	1,312
	Poles	28,001	359	359	41,584	0	0	10,960	0	0	49,815	57	57
	Reclosers	1,200	979	979	2,586	0	0	966	969	969	4,020	3,440	3,440
	Radio-Controlled Switches	1,308	342	342	2,646	394	394	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 2021												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2022 ¹¹
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ⁹	Retirement	Voluntary Separation	Other ¹⁰	
Distribution	Line Leader	48						2			2	
	Line Troubleshooter	35						3			2	
	Lineman	140				1		3			10	
Substation	Substation Leader	14							1			
	Substation Employee	67						7	1		8	
Transmission	Line Leader	2										
	Lineman	10						3				
Total		316				1	0	18	2	0	22	

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. For each staff member added, provide information on whether they were a new hire, if they are already at the journeyman, or other experienced level of training. For each staff member lost, provide the reason for the loss (retirement, voluntary separation, etc.). The number of staff in each category that the Company 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 2021												
Department	Position	Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2022 ¹⁴
		1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹²	Retirement	Voluntary Separation	Other ¹³	
Distribution	Line Leader	63						2			1	
	Line Troubleshooter	70						6	1	1	3	
	Lineman	142						2			9	
Substation	Substation Leader	29							1		1	
	Substation Employee	45									1	
Transmission	Line Leader	4										
	Lineman	18								1		
Total		371				0	0	10	2	2	15	

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 2021												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2022 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										
	Line Troubleshooter	9										
	Lineman	42									2	
Substation	Substation Leader	5										
	Substation Employee	18									2	
Transmission	Line Leader	1										
	Lineman	5				3						3
Total		105				3					4	3

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 2021												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2022 ²⁰
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other ¹⁸	Retirement	Voluntary Separation	Other ¹⁹	
Distribution	Line Leader	63						5			6	
	Line Troubleshooter	59						7	1		7	
	Lineman	133						3			5	
Substation	Substation Leader	22										
	Substation Employee	74						2			2	
Transmission	Line Leader	2										
	Lineman	8						2				
Total		361				0	0	19	1	0	20	

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 and as such, 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.

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

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 DCC and/or the Customer Operations Center’s person on duty 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.

During the Covid-19 pandemic, crews have been placed in work pods to limit employees’ potential exposure. Each pod ranges between three and eight crew members. For an event, the entire pod team is called making every effort to keep pod members together without mixing different pod teams. This process change can impact the call-out response time and percentages.

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	3,242	121	1	2,197,631	9,310	3.84	677.86	2.87	236.05	0.13
2	Dillsburg	00748-4	Dillsburg	1,798	63	1	1,799,041	3,498	3.14	1,000.58	1.95	514.31	1.02
3	Mountain	00744-4	Dillsburg	1,849	64	0	1,544,136	4,551	2.70	835.12	2.46	339.30	0.00
4	Lynnville	00737-1	Hamburg	1,074	125	3	1,508,747	3,472	2.64	1,404.79	3.23	434.55	2.48
5	Bernville	00787-1	Hamburg	1,688	76	0	1,489,792	3,100	2.60	882.58	1.84	480.58	0.00
6	Barto	00706-1	Boyertown	2,936	135	0	1,283,136	5,852	2.24	437.04	1.99	219.26	1.00
7	Schuylkill Ave	00157-1	Reading	1,669	10	3	1,184,355	5,086	2.07	709.62	3.05	232.87	0.00
8	S Hamb	00801-1	Hamburg	2,031	70	2	1,182,925	8,377	2.07	582.43	4.12	141.21	0.00
9	Shawnee	00822-3	Stroudsburg	3,106	42	3	1,176,496	5,705	2.06	378.78	1.84	206.22	0.90
10	W Boyertown	00715-1	Boyertown	1,691	68	3	1,164,067	9,863	2.03	688.39	5.83	118.02	1.00
11	Flying Hills	00777-1	Reading	1,786	91	0	1,149,009	3,391	2.01	643.34	1.90	338.84	0.00
12	Shawnee	00833-3	Stroudsburg	1,686	31	2	1,049,395	6,462	1.83	622.42	3.83	162.39	1.20
13	Carsonia	00764-1	Reading	2,876	60	1	998,766	5,743	1.75	347.28	2.00	173.91	0.05
14	Glendon	00818-3	Easton	1,640	26	1	989,416	4,311	1.73	603.30	2.63	229.51	0.04
15	Lyons	00729-1	Reading	1,296	86	0	969,600	3,453	1.69	748.15	2.66	280.80	0.00
16	Zionsview	00717-4	York	1,133	53	2	912,183	5,035	1.59	805.10	4.44	181.17	0.00
17	Adamstown	00755-1	Reading	1,396	33	1	878,734	4,582	1.54	629.47	3.28	191.78	1.93
18	Mc Knights Gap	00774-1	Reading	1,099	44	0	836,908	4,008	1.46	761.52	3.65	208.81	0.00
19	Huffs Church	00600-1	Boyertown	1,507	116	0	778,641	2,394	1.36	516.68	1.59	325.25	0.00
20	S Hamb	00741-1	Hamburg	1,605	67	1	766,839	3,719	1.34	477.78	2.32	206.19	0.00
21	Baldy	00738-1	Reading	863	33	1	725,479	3,069	1.27	840.65	3.56	236.39	0.00
22	Pleasantville	00142-1	Boyertown	815	58	0	724,911	2,091	1.27	889.46	2.57	346.68	0.00
23	Yorkana	00715-4	York	1,805	70	1	722,588	4,271	1.26	400.33	2.37	169.18	0.00
24	Lickdale	00625-2	Lebanon	1,009	82	0	719,479	2,519	1.26	713.06	2.50	285.62	1.00
25	Baldy	00736-1	Reading	1,021	59	1	684,659	2,369	1.20	670.58	2.32	289.01	0.00
26	No Bangor	00813-3	Easton	1,353	31	0	683,498	2,188	1.19	505.17	1.62	312.38	1.06
27	Swatara Hill	00765-2	Lebanon	612	40	1	683,208	1,950	1.19	1,116.35	3.19	350.36	1.99

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
28	S Hamb	00740-1	Hamburg	1,266	68	1	669,508	2,406	1.17	528.84	1.90	278.27	0.34
29	Swatara Hill	00763-2	Lebanon	1,533	47	0	591,384	3,265	1.03	385.77	2.13	181.13	0.01
30	Pine Lane	00720-1	Boyertown	976	38	1	589,522	2,881	1.03	604.02	2.95	204.62	0.00
31	Snydersville	00620-3	Stroudsburg	987	41	0	588,843	1,496	1.03	596.60	1.52	393.61	0.76
32	Menges Mills	00543-4	Hanover	1,587	35	1	586,167	2,885	1.02	369.36	1.82	203.18	0.03
33	Violet Hill	00527-4	York	1,163	25	3	577,817	3,808	1.01	496.83	3.27	151.74	0.00
34	State Street	00620-1	Hamburg	889	16	3	566,158	3,084	0.99	636.85	3.47	183.58	0.00
35	South Easton	00057-3	Easton	626	9	1	562,355	1,250	0.98	898.33	2.00	449.88	0.00
36	Lickdale	00626-2	Lebanon	1,479	32	1	560,085	2,308	0.98	378.69	1.56	242.67	1.24
37	Ottsville	00660-3	Easton	873	52	0	555,589	1,516	0.97	636.41	1.74	366.48	2.00
38	Mountain	00743-4	Dillsburg	1,029	27	1	534,812	3,604	0.93	519.74	3.50	148.39	0.00
39	7Th St	00102-1	Reading	1,094	12	1	504,686	4,802	0.88	461.32	4.39	105.10	1.01

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Two Mile	00127-42	Bradford	1,280	42	0	3,353,163	4,975	5.78	2,619.66	3.89	674.00	0.000
2	Warren South	00220-41	Warren	2,376	100	0	2,610,444	6,509	4.50	1,098.67	2.74	401.05	0.016
3	Bradford South	00106-42	Bradford	1,185	42	0	2,375,197	2,910	4.09	2,004.39	2.46	816.22	0.000
4	Tiffany	00435-65	Montrose	1,476	60	6	2,003,593	7,062	3.45	1,357.45	4.78	283.71	3.600
5	Dubois	00137-23	Dubois	3,109	99	1	1,947,908	12,383	3.36	626.54	3.98	157.31	0.376
6	Grover	00527-63	Towanda	1,055	76	2	1,793,589	4,074	3.09	1,700.08	3.86	440.25	0.004
7	Lewis Run	00408-42	Bradford	1,174	46	0	1,616,724	3,926	2.79	1,377.11	3.34	411.80	0.000
8	North Warren	00596-41	Warren	1,127	66	2	1,548,963	3,944	2.67	1,374.41	3.50	392.74	2.451
9	Marienville	00328-51	Oil City	1,203	62	0	1,367,562	4,440	2.36	1,136.79	3.69	308.01	1.357
10	Madera	00166-22	Philipsburg	1,457	49	0	1,275,927	2,372	2.20	875.72	1.63	537.91	0.588
11	Philipsburg	00162-22	Philipsburg	2,710	65	0	1,202,820	8,878	2.07	443.85	3.28	135.48	0.616
12	Rolling Meadows	00310-31	Erie	4,393	50	0	1,182,646	10,909	2.04	269.21	2.48	108.41	0.402
13	Revloc	00069-72	Altoona	557	11	3	1,125,327	1,732	1.94	2,020.34	3.11	649.73	0.000
14	Saxton Sub	00625-73	Altoona	1,096	28	0	1,100,431	2,669	1.90	1,004.04	2.44	412.30	0.000
15	Greenwood	00041-71	Altoona	1,231	26	4	1,067,177	3,885	1.84	866.92	3.16	274.69	0.000
16	N Meshoppen Tran	00534-65	Montrose	826	63	0	1,024,563	2,433	1.77	1,240.39	2.95	421.11	0.033
17	Mill Street	00144-42	Bradford	963	15	1	997,281	1,598	1.72	1,035.60	1.66	624.08	2.988
18	North Warren	00207-41	Warren	1,361	74	2	981,672	4,569	1.69	721.29	3.36	214.85	2.941
19	Natl Forge Sw Sta	00577-41	Warren	1,218	48	1	954,786	8,949	1.65	783.90	7.35	106.69	4.810
20	East Hickory	00201-41	Warren	322	24	3	922,799	921	1.59	2,865.84	2.86	1,001.95	5.155
21	Madera	00165-22	Philipsburg	1,392	40	1	879,467	3,505	1.52	631.80	2.52	250.92	0.102
22	Russell Hill	00282-65	Montrose	1,007	85	1	853,913	2,956	1.47	847.98	2.94	288.87	0.000
23	Piney	00523-51	Oil City	1,503	57	0	833,205	5,186	1.44	554.36	3.45	160.66	0.490
24	Somerset	00017-12	Somerset	1,369	48	2	824,271	2,088	1.42	602.10	1.53	394.77	0.335
25	Tunkhannock	00533-65	Montrose	1,240	46	0	793,718	2,476	1.37	640.10	2.00	320.56	0.596
26	Hooversville	00018-12	Somerset	746	35	1	721,187	1,932	1.24	966.74	2.59	373.29	2.119
27	French Road	00222-31	Erie	1,716	17	1	720,954	3,080	1.24	420.14	1.79	234.08	0.000
28	Wyalusing Sub	00532-62	Towanda	575	50	4	682,848	4,717	1.18	1,187.56	8.20	144.76	2.823

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
29	Morgan Street	00233-52	Meadville	839	29	1	662,782	2,147	1.14	789.97	2.56	308.70	0.458
30	Hooversville	00019-12	Somerset	1,805	40	0	654,965	4,070	1.13	362.86	2.25	160.93	1.850
31	Blairsville East	00080-13	Indiana	864	23	0	647,448	4,008	1.12	749.36	4.64	161.54	0.000
32	Springboro	00237-52	Meadville	2,766	75	0	637,198	4,707	1.10	230.37	1.70	135.37	1.369
33	Meshoppen	00283-65	Montrose	385	19	0	629,642	1,406	1.09	1,635.43	3.65	447.83	1.834
34	Logan	00700-81	Lewistown	1,048	46	0	627,537	5,235	1.08	598.79	5.00	119.87	0.966
35	Union City Sub	00208-43	Erie	1,459	92	2	623,160	3,574	1.07	427.11	2.45	174.36	1.426
36	Mcveytown	00112-81	Lewistown	1,301	52	0	613,727	2,454	1.06	471.73	1.89	250.09	0.000
37	Brookville	00125-23	Dubois	562	24	0	605,759	3,681	1.04	1,077.86	6.55	164.56	3.619
38	Northeast	00592-31	Erie	1,598	57	5	589,444	4,916	1.02	368.86	3.08	119.90	0.038
39	Fallen Timbers	00995-22	Philipsburg	907	24	9	587,202	3,602	1.01	647.41	3.97	163.02	0.000
40	Spangler Sub	00052-72	Altoona	1,492	17	1	550,162	3,323	0.95	368.74	2.23	165.56	0.000
41	East Towanda	00525-62	Towanda	672	54	0	530,770	1,179	0.92	789.84	1.75	450.19	0.000
42	Dubois Central	00119-23	Dubois	1,236	39	0	523,943	2,940	0.90	423.90	2.38	178.21	0.650
43	Lewis Run	00409-42	Bradford	670	32	2	523,487	3,420	0.90	781.32	5.10	153.07	0.179
44	Falls	00297-65	Montrose	806	23	0	514,807	1,693	0.89	638.72	2.10	304.08	0.999
45	Shawville	00151-21	Clearfield	2,252	41	3	505,773	9,752	0.87	224.59	4.33	51.86	0.004
46	Crown	00519-51	Oil City	644	50	1	502,391	1,259	0.87	780.11	1.95	399.04	0.427
47	Scalp Level	00932-11	Johnstown	977	31	0	472,470	3,628	0.81	483.59	3.71	130.23	0.000
48	Knox	00323-51	Oil City	1,303	48	1	456,188	3,262	0.79	350.11	2.50	139.85	0.000
49	Lake Como	00788-65	Montrose	613	27	3	449,783	2,572	0.78	733.74	4.20	174.88	0.065
50	N Meshoppen Tran	00530-65	Montrose	565	37	0	439,213	1,730	0.76	777.37	3.06	253.88	1.416
51	East Sayre	00518-61	Towanda	948	45	0	424,839	2,967	0.73	448.14	3.13	143.19	0.595
52	Laurel Lake Sub Tran	00449-65	Montrose	517	40	5	417,134	3,259	0.72	806.84	6.30	127.99	0.696
53	Cranberry	00350-51	Oil City	1,072	23	1	412,447	1,662	0.71	384.75	1.55	248.16	0.000
54	Mansfield	00559-63	Mansfield Pa	413	25	1	411,271	1,319	0.71	995.81	3.19	311.81	1.341
55	Wellsboro	00324-63	Mansfield Pa	266	23	4	398,099	1,257	0.69	1,496.61	4.73	316.71	3.786

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
56	Rockwood	00023-12	Somerset	230	9	3	396,319	633	0.68	1,723.13	2.75	626.10	0.904
57	Snakespring	00628-73	Altoona	1,102	27	4	387,668	2,525	0.67	351.79	2.29	153.53	1.267
58	Corry East	00247-43	Warren	311	23	0	382,791	532	0.66	1,230.84	1.71	719.53	0.646
59	Blossburg	00310-63	Mansfield Pa	248	15	1	378,056	895	0.65	1,524.42	3.61	422.41	2.008
60	Industrial Park	00796-65	Montrose	357	14	1	373,457	1,409	0.64	1,046.10	3.95	265.05	0.011
61	Erie South	00259-31	Erie	2,419	75	1	370,557	6,396	0.64	153.19	2.64	57.94	0.657
62	Stoystown	00402-12	Somerset	319	10	0	370,231	962	0.64	1,160.60	3.02	384.86	1.000

Penn Power													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI ²¹
1	Hartstown	W-126	Clark	2,190	83	0	777,330	2,403	4.69	354.95	1.10	323.48	0
2	Koppel	D-531	New Castle	971	33	0	693,425	1,446	4.19	714.13	1.49	479.55	0
3	Grant Street	W421	New Castle	944	9	3	637,994	1,976	3.85	675.84	2.09	322.87	0
4	Mercer	W-167	Clark	851	32	0	500,491	1,455	3.02	588.12	1.71	343.98	0
5	Hadley	W-195	Clark	891	37	0	473,844	1,060	2.86	531.81	1.19	447.02	0
6	Knox	D509	Zelienople	979	20	0	472,914	1,727	2.86	483.06	1.76	273.84	0
7	Camp Reynolds	W-134	Clark	1,743	61	0	447,444	2,335	2.70	256.71	1.34	191.62	0
8	Conneaut	W-174	Clark	1,168	32	2	443,053	1,860	2.67	379.33	1.59	238.20	0
9	Perry	W-156	Clark	1,095	51	0	442,100	2,186	2.67	403.74	2.00	202.24	0

²¹ MAIFI values are not available at the circuit level for Penn Power.

West Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
1	Smithton	Smithton	Charleroi	1,167	25	3	1,942,227	3,519	2.69	1,664.29	3.02	551.93
2	Driftwood	Driftwood	St Marys	981	38	0	1,863,369	2,937	2.58	1,899.46	2.99	634.45
3	Vandergrift	Vandergrift	Arnold	2,728	57	1	1,765,971	7,255	2.44	647.35	2.66	243.41
4	Sardis	Sardis	Arnold	1,069	6	2	1,469,552	1,818	2.03	1,374.70	1.70	808.33
5	Murrycrest	Murrycrest	Jeannette	1,486	40	6	1,354,791	11,301	1.87	911.70	7.60	119.88
6	Marvindale	Marvindale	St Marys	853	15	0	1,339,376	3,058	1.85	1,570.19	3.58	437.99
7	Rutan	Rutan	Jefferson	1,137	89	0	1,329,059	2,460	1.84	1,168.92	2.16	540.27
8	Charleroi	Charleroi	Charleroi	1,428	54	5	1,315,705	6,854	1.82	921.36	4.80	191.96
9	Shaffers Corner	Shaffers Corner	Arnold	1,648	21	3	1,272,355	4,274	1.76	772.06	2.59	297.70
10	Lovedale	Lovedale	Charleroi	1,636	38	0	1,234,487	2,986	1.71	754.58	1.83	413.42
11	Frazier	Frazier	Pleasant Valley	1,710	31	3	1,205,790	4,364	1.67	705.14	2.55	276.30
12	Weedville	Weedville	St Marys	1,388	49	0	1,198,147	3,159	1.66	863.22	2.28	379.28
13	Avella	Avella	Washington Pa	1,154	47	0	1,086,539	2,401	1.50	941.54	2.08	452.54
14	Fayetteville	Fayetteville	Waynesboro	1,514	41	1	1,049,107	3,156	1.45	692.94	2.08	332.42
15	California	California	Charleroi	1,758	31	2	1,042,506	5,827	1.44	593.01	3.31	178.91
16	Smithton	Smithton	Charleroi	992	24	0	1,025,639	2,341	1.42	1,033.91	2.36	438.12
17	Bethlen	Bethlen	Latrobe	1,244	66	0	1,005,128	3,130	1.39	807.98	2.52	321.13
18	Piney Fork	Piney Fork	Charleroi	2,198	15	1	958,343	5,423	1.33	436.01	2.47	176.72
19	Belmon	Belmon	Charleroi	1,382	20	2	895,772	2,742	1.24	648.17	1.98	326.69
20	Mcconnellsburg	Mcconnellsburg	Mcconnellsburg	622	26	1	850,258	918	1.18	1,366.97	1.48	926.21
21	Smithton	Smithton	Charleroi	1,298	23	0	825,964	2,183	1.14	636.34	1.68	378.36
22	Mushroom	Mushroom	Kittanning	315	10	1	784,001	1,039	1.08	2,488.89	3.30	754.57
23	Amity	Amity	Washington Pa	529	32	2	781,306	2,946	1.08	1,476.95	5.57	265.21
24	Robbins	Robbins	Jeannette	1,534	27	0	780,131	3,252	1.08	508.56	2.12	239.89
25	Smith	Smith	Washington Pa	1,434	49	0	774,908	2,715	1.07	540.38	1.89	285.42
26	Houston	Houston	Washington Pa	2,220	36	1	773,322	4,928	1.07	348.34	2.22	156.92

West Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
27	Kane	Kane	St Marys	703	23	0	760,220	1,544	1.05	1,081.39	2.20	492.37
28	Waterville	Waterville	State College	356	19	2	750,451	2,440	1.04	2,108.01	6.85	307.56
29	Buckeye No.3	Buckeye No.3	Jefferson	672	11	0	732,038	1,086	1.01	1,089.34	1.62	674.07
30	North Washington	North Washington	Arnold	1,776	26	1	715,553	2,700	0.99	402.90	1.52	265.02
31	Scottdale	Scottdale	Pleasant Valley	1,700	27	1	711,137	3,680	0.98	418.32	2.16	193.24
32	Thomas	Thomas	Boyce	1,343	36	0	703,908	3,681	0.97	524.13	2.74	191.23
33	King Farm	King Farm	Pleasant Valley	1,104	30	2	656,536	3,416	0.91	594.69	3.09	192.19
34	Franklin	Franklin	Jefferson	835	59	2	649,817	2,586	0.90	778.22	3.10	251.28
35	Branchton	Branchton	Butler	1,149	32	0	647,867	2,882	0.90	563.85	2.51	224.80
36	Lagonda	Lagonda	Washington Pa	610	43	0	647,709	2,199	0.90	1,061.82	3.60	294.55
37	Portersville	Portersville	Butler	978	32	0	644,427	1,480	0.89	658.92	1.51	435.42
38	Roundhill	Roundhill	Charleroi	974	34	1	643,397	1,733	0.89	660.57	1.78	371.26
39	New Bethlehem	New Bethlehem	Clarion	1,406	18	0	622,525	3,185	0.86	442.76	2.27	195.46
40	Karns City	Karns City	Butler	1,156	42	1	618,174	2,602	0.86	534.75	2.25	237.58

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 are directed to provide additional detail in their reporting 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	3,242	121	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.84	Trees Off ROW-Tree	71%	2Q 2020	
	SAIDI	677.86	Equipment Failure	13%	3Q 2020	
	SAIFI	2.87	Wind	5%	4Q 2020	
	CAIDI	236	All Other	11%	1Q 2021	
	Customer Minutes	2,197,631				
	Customers Affected	9,310				
	Remedial Action Planned or Taken				Status	Progress
	Mid-cycle ash tree removal				Complete	May-20
	Mainline forestry aerial patrol				Complete	Jul-20
	Mid-cycle tree trimming from aerial patrol				Complete	Sep-20
	Install TripSaver Recloser				Complete	Dec-20
	Construct circuit tie Phase 1				To be Completed 2021	70%
Construct circuit tie Phase 2				To be Completed 2021	50%	
Construct circuit tie Phase 3				To be Completed 2021	50%	
Rank	Substation	Circuit	District	Customers	Outages	
2	Dillsburg	00748-4	Dillsburg	1,798	63	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.14	Trees Off ROW-Tree	90%	3Q 2020	
	SAIDI	1,000.58	Vehicle	5%	4Q 2020	
	SAIFI	1.95	Equipment Failure	3%	1Q 2021	
	CAIDI	514	All Other	1%		
	Customer Minutes	1,799,041				
	Customers Affected	3,498				
	Remedial Action Planned or Taken				Status	Progress
Enhanced tree trimming				Complete	Dec-20	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
3	Mountain	00744-4	Dillsburg	1,849	64	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.70	Trees Off ROW-Tree	59%	2Q 2020	
	SAIDI	835.12	Equipment Failure	35%	3Q 2020	
	SAIFI	2.46	Forced Outage	3%	4Q 2020	
	CAIDI	339	All Other	3%	1Q 2021	
	Customer Minutes	1,544,136				
	Customers Affected	4,551				
	Remedial Action Planned or Taken				Status	Progress
	Overhead circuit inspection				Complete	Jul-20
	Repair/replace high priority items from overhead inspection				Complete	Feb-21
	Rank	Substation	Circuit	District	Customers	Outages
4	Lynnville	00737-1	Hamburg	1,074	125	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.64	Trees Off ROW-Tree	72%	2Q 2020	
	SAIDI	1,404.79	Equipment Failure	12%	3Q 2020	
	SAIFI	3.23	Unknown	7%	4Q 2020	
	CAIDI	435	All Other	9%	1Q 2021	
	Customer Minutes	1,508,747				
	Customers Affected	3,472				
	Remedial Action Planned or Taken				Status	Progress
	Replace crossarm brace from inspection #1				Complete	Apr-20
	Replace crossarm brace from inspection #2				Complete	Apr-20
	Replace crossarm brace from inspection #3				Complete	Apr-20
	Replace crossarm brace from inspection #4				Complete	Apr-20
	Replace crossarm brace from inspection #5				Complete	Mar-20
Targeted forestry inspection				Complete	Nov-20	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
5	Bernville	00787-1	Hamburg	1,688	76
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.60	Trees Off ROW-Tree	74%	2Q 2020
	SAIDI	882.58	Equipment Failure	10%	3Q 2020
	SAIFI	1.84	Line Failure	8%	4Q 2020
	CAIDI	481	All Other	8%	1Q 2021
	Customer Minutes	1,489,792			
	Customers Affected	3,100			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	June-20
	Replace recloser			Complete	July-20
	Install TripSaver recloser #1			Complete	Dec-20
	Install TripSaver recloser #2			Complete	Dec-20
	On cycle tree trimming			To be Completed 2021	45%
Rank	Substation	Circuit	District	Customers	Outages
6	Barto	00706-1	Boyertown	2,936	135
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.24	Trees Off ROW-Tree	45%	2Q 2020
	SAIDI	437.04	Unknown	19%	3Q 2020
	SAIFI	1.99	Vehicle	16%	4Q 2020
	CAIDI	219	All Other	20%	1Q 2021
	Customer Minutes	1,283,136			
	Customers Affected	5,852			
	Remedial Action Planned or Taken			Status	Progress
	Mainline pole replacement from inspection #1			Complete	Jun-20
	Mainline pole replacement from inspection #2			Complete	Jul-20
	On cycle tree trimming			Complete	Nov-20
	Overhead circuit inspection			Complete	Sep-20
	Replace/repair high priority items identified during overhead circuit inspection			To be Completed 2021	50%

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
7	Schuylkill Ave	00157-1	Reading	1,669	10	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.07	Trees Off ROW-Tree	72%	2Q 2020	
	SAIDI	709.62	Vehicle	25%	3Q 2020	
	SAIFI	3.05	Equipment Failure	3%	4Q 2020	
	CAIDI	233	All Other	0%	1Q 2021	
	Customer Minutes	1,184,355				
	Customers Affected	5,086				
	Remedial Action Planned or Taken				Status	Progress
	Targeted forestry inspection				Complete	Apr-20
	Replace mainline crossarms, insulators, and cutouts				Complete	Jun-20
	Targeted forestry inspection				Complete	Jul-20
	Substation coordination improvement				Complete	Aug-20
	Rank	Substation	Circuit	District	Customers	Outages
8	S Hamb	00801-1	Hamburg	2,031	70	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.07	Equipment Failure	40%	2Q 2020	
	SAIDI	582.43	Trees Off ROW-Tree	37%	3Q 2020	
	SAIFI	4.12	Wind	7%	4Q 2020	
	CAIDI	141	All Other	16%	1Q 2021	
	Customer Minutes	1,182,925				
	Customers Affected	8,377				
	Remedial Action Planned or Taken				Status	Progress
	On cycle tree trimming				Complete	July-20
	Thermovision and overhead inspection				Complete	July-20
	Install TripSaver recloser #1				Complete	Dec-20
	Install TripSaver recloser #2				Complete	Dec-20

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
9	Shawnee	00822-3	Stroudsburg	3,106	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.06	Trees Off ROW-Tree	93%	4Q 2020
	SAIDI	378.78	Equipment Failure	4%	1Q 2021
	SAIFI	1.84	Trees - Sec/Service	1%	
	CAIDI	206	All Other	2%	
	Customer Minutes	1,176,496			
	Customers Affected	5,705			
	Remedial Action Planned or Taken			Status	Progress
	Mainline forestry aerial patrol			Complete	Jul-20
	Post storm aerial patrol			Complete	Aug-20
	Install Supervisory Control and Data Acquisition (SCADA) switch			Complete	Sep-20
	Post storm mainline circuit patrol			Complete	Nov-20
	Install Supervisory Control and Data Acquisition (SCADA) recloser			Complete	Feb-21
Rank	Substation	Circuit	District	Customers	Outages
10	W Boyertown	00715-1	Boyertown	1,691	68
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.03	Bird	46%	2Q 2020
	SAIDI	688.39	Trees Off ROW-Tree	23%	3Q 2020
	SAIFI	5.83	Line Failure	10%	4Q 2020
	CAIDI	118	All Other	21%	1Q 2021
	Customer Minutes	1,164,067			
	Customers Affected	9,863			
	Remedial Action Planned or Taken			Status	Progress
	Thermovision and overhead inspection			Complete	May-20
	Replace arrester from thermovision inspection #1			Complete	Jul-20
	Replace arrester from thermovision inspection #2			Complete	Jul-20
	Replace arrester from thermovision inspection #3			Complete	Jul-20
	Replace arrester from thermovision inspection #4			Complete	Jul-20
Replace cutout from thermovision inspection			Complete	Sep-20	
Mainline recloser upgrade and circuit coordination improvements			Complete	Jan-21	
Install TripSaver			Complete	Dec-20	
Overhead circuit inspection			To be Completed 2021	0%	
On cycle tree trimming			To be Completed 2021	0%	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
11	Flying Hills	00777-1	Reading	1,786	91	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.01	Trees Off ROW-Tree	61%	2Q 2020	
	SAIDI	643.34	Equipment Failure	17%	3Q 2020	
	SAIFI	1.90	Unknown	8%	4Q 2020	
	CAIDI	339	All Other	14%	1Q 2021	
	Customer Minutes	1,149,009				
	Customers Affected	3,391				
	Remedial Action Planned or Taken				Status	Progress
	Overhead circuit inspection				Complete	Mar-20
	On cycle tree trimming				Complete	Mar-20
	Replace/repair high priority items identified during overhead circuit inspection				Complete	Mar-20
	Install TripSaver Recloser #1				Complete	Dec-20
	Install TripSaver Recloser #2				Complete	Dec-20
Install TripSaver Recloser #3				Complete	Dec-20	
Replace/repair high priority items identified during overhead circuit inspection				To be Completed 2021	50%	
Rank	Substation	Circuit	District	Customers	Outages	
12	Shawnee	00833-3	Stroudsburg	1,686	31	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.83	Equipment Failure	43%	2Q 2020	
	SAIDI	622.42	Trees Off ROW-Tree	30%	3Q 2020	
	SAIFI	3.83	Unknown	18%	4Q 2020	
	CAIDI	162	All Other	8%	1Q 2021	
	Customer Minutes	1,049,395				
	Customers Affected	6,462				
	Remedial Action Planned or Taken				Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) recloser				Complete	Mar-20
	Construct circuit tie				Complete	Mar-20
	Mainline forestry aerial patrol				Complete	Jul-20
	Post storm aerial patrol				Complete	Aug-20
	Repair items identified during post storm aerial patrol				Complete	Aug-20
Thermovision and overhead inspection				Complete	May-20	
Replace recloser				To be Completed 2021	75%	
On cycle tree trimming				To be Completed 2021	33%	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
13	Carsonia	00764-1	Reading	2,876	60	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.75	Trees Off ROW-Tree	71%	4Q 2020	
	SAIDI	347.28	Equipment Failure	16%	1Q 2021	
	SAIFI	2.00	Forced Outage	7%		
	CAIDI	174	All Other	6%		
	Customer Minutes	998,766				
	Customers Affected	5,743				
	Remedial Action Planned or Taken				Status	Progress
	Targeted forestry inspection				Complete	Mar-20
	Targeted overhead circuit inspection				Complete	Mar-20
	Targeted forestry inspection				Complete	Apr-20
	Create additional circuit tie				Complete	Nov-20
	Targeted forestry inspection				To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages	
14	Glendon	00818-3	Easton	1,640	26	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.73	Trees Off ROW-Tree	50%	3Q 2020	
	SAIDI	603.30	Equipment Failure	41%	4Q 2020	
	SAIFI	2.63	Forced Outage	3%	1Q 2021	
	CAIDI	230	All Other	6%		
	Customer Minutes	989,416				
	Customers Affected	4,311				
	Remedial Action Planned or Taken				Status	Progress
	Thermovision and overhead inspection				Complete	Jun-20
	Overhead circuit inspection				Complete	Aug-20
	On cycle tree trimming				Complete	Sep-20

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
15	Lyons	00729-1	Reading	1,296	86	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.69	Trees Off ROW-Tree	50%	2Q 2020	
	SAIDI	748.15	Equipment Failure	20%	3Q 2020	
	SAIFI	2.66	Trees Off ROW-Limb	18%	4Q 2020	
	CAIDI	281	All Other	11%	1Q 2021	
	Customer Minutes	969,600				
	Customers Affected	3,453				
	Remedial Action Planned or Taken				Status	Progress
	Create additional circuit tie				Complete	Apr-20
	On cycle tree trimming				Complete	Aug-20
	Install TripSaver				Complete	Dec-20
	Install Supervisory Control and Data Acquisition (SCADA) switch				Complete	Dec-20
	Install Supervisory Control and Data Acquisition (SCADA) switch				Complete	Dec-20
Install Supervisory Control and Data Acquisition (SCADA) switch				Complete	Dec-20	
Rank	Substation	Circuit	District	Customers	Outages	
16	Zionsview	00717-4	York	1,133	53	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.59	Trees Off ROW-Tree	58%	4Q 2020	
	SAIDI	805.10	Vehicle	20%	1Q 2021	
	SAIFI	4.44	Trees Off ROW-Limb	18%		
	CAIDI	181	All Other	4%		
	Customer Minutes	912,183				
	Customers Affected	5,035				
	Remedial Action Planned or Taken				Status	Progress
	Overhead circuit inspection				Complete	Oct-20
	Replace/repair priority-one items identified during overhead circuit inspection				Complete	Aug-20
Replace/repair high priority items identified during overhead circuit inspection				To be Completed 2021	29%	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
17	Adamstown	00755-1	Reading	1,396	33	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.54	Trees Off ROW-Tree	44%	4Q 2020	
	SAIDI	629.47	Equipment Failure	28%	1Q 2021	
	SAIFI	3.28	Trees Off ROW-Limb	13%		
	CAIDI	192	All Other	15%		
	Customer Minutes	878,734				
	Customers Affected	4,582				
	Remedial Action Planned or Taken				Status	Progress
	Overhead circuit inspection				Complete	Mar-20
	Targeted forestry inspection				Complete	May-20
	Mainline recloser upgrade				Complete	Jul-20
	Targeted forestry inspection				Complete	Dec-20
	On cycle tree trimming				To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages	
18	Mc Knights Gap	00774-1	Reading	1,099	44	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.46	Equipment Failure	44%	2Q 2020	
	SAIDI	761.52	Trees Off ROW-Tree	37%	3Q 2020	
	SAIFI	3.65	Line Failure	12%	4Q 2020	
	CAIDI	209	All Other	7%	1Q 2021	
	Customer Minutes	836,908				
	Customers Affected	4,008				
	Remedial Action Planned or Taken				Status	Progress
	Targeted forestry inspection				Complete	Apr-20
	Targeted forestry inspection				Complete	Jun-20
	On cycle tree trimming				Complete	Oct-20
	Install TripSaver Recloser #1				Complete	Dec-20
	Install TripSaver Recloser #2				Complete	Dec-20
Overhead circuit inspection				Complete	Jan-21	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
19	Huffs Church	00600-1	Boyertown	1,507	116	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.36	Trees Off ROW-Tree	48%	2Q 2020	
	SAIDI	516.68	Vehicle	28%	3Q 2020	
	SAIFI	1.59	Unknown	10%	4Q 2020	
	CAIDI	325	All Other	14%	1Q 2021	
	Customer Minutes	778,641				
	Customers Affected	2,394				
	Remedial Action Planned or Taken				Status	Progress
	Overhead circuit inspection				Complete	Jun-20
	Create additional circuit tie				Complete	Nov-20
	Install Supervisory Control and Data Acquisition (SCADA) switch #1				Complete	Dec-20
	Install Supervisory Control and Data Acquisition (SCADA) switch #2				Complete	Dec-20
	Install Supervisory Control and Data Acquisition (SCADA) switch #3				Complete	Dec-20
On cycle tree trimming				Complete	Dec-20	
Install Supervisory Control and Data Acquisition (SCADA) switch				To be Completed 2021	50%	
Replace/repair high priority items identified during overhead circuit inspection				To be Completed 2021	50%	
Rank	Substation	Circuit	District	Customers	Outages	
20	S Hamb	00741-1	Hamburg	1,605	67	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.34	Trees Off ROW-Tree	45%	4Q 2020	
	SAIDI	477.78	Equipment Failure	27%	1Q 2021	
	SAIFI	2.32	Vehicle	16%		
	CAIDI	206	All Other	12%		
	Customer Minutes	766,839				
	Customers Affected	3,719				
	Remedial Action Planned or Taken				Status	Progress
	Replace crossarm from inspection				Complete	May-20
On cycle tree trimming				Complete	Jan -20	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
21	Baldy	00738-1	Reading	863	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.27	Equipment Failure	83%	3Q 2020
	SAIDI	840.65	Trees Off ROW-Tree	14%	4Q 2020
	SAIFI	3.56	Forced Outage	2%	1Q 2021
	CAIDI	236	All Other	2%	
	Customer Minutes	725,479			
	Customers Affected	3,069			
	Remedial Action Planned or Taken			Status	Progress
	Overhead mainline circuit inspection			Complete	Mar-20
	Targeted forestry inspection			Complete	Mar-20
	Targeted forestry inspection			Complete	Apr-20
	Mainline Pole Replacements			Complete	Aug-20
	Install Supervisory Control and Data Acquisition (SCADA) Engineering Review			Complete	Jan-21
On cycle tree trimming			To be Completed 2021	89%	
Overhead circuit inspection			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
22	Pleasantville	00142-1	Boyertown	815	58
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.27	Trees Off ROW-Tree	87%	4Q 2020
	SAIDI	889.46	Ice	3%	1Q 2021
	SAIFI	2.57	Animal	3%	
	CAIDI	347	All Other	7%	
	Customer Minutes	724,911			
	Customers Affected	2,091			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	Dec-19
Thermovision and overhead inspection			Complete	Mar-20	
Rank	Substation	Circuit	District	Customers	Outages
23	Yorkana	00715-4	York	1,805	70
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.26	Trees Off ROW-Tree	46%	2Q 2020
	SAIDI	400.33	Unknown	21%	3Q 2020
	SAIFI	2.37	Line Failure	20%	4Q 2020
	CAIDI	169	All Other	13%	1Q 2021
	Customer Minutes	722,588			
	Customers Affected	4,271			
	Remedial Action Planned or Taken			Status	Progress
	Replace/repair high priority items identified during overhead circuit patrol			Complete	Feb-20
Post Storm Patrol			Complete	Apr-20	
On cycle tree trimming			Complete	Nov-20	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
24	Lickdale	00625-2	Lebanon	1,009	82	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.26	Trees Off ROW-Tree	57%	3Q 2020	
	SAIDI	713.06	Line Failure	11%	4Q 2020	
	SAIFI	2.50	Animal	11%	1Q 2021	
	CAIDI	286	All Other	21%		
	Customer Minutes	719,479				
	Customers Affected	2,519				
	Remedial Action Planned or Taken				Status	Progress
	Overhead inspection				Complete	Nov-20
	Targeted forestry inspection				To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages	
25	Baldy	00736-1	Reading	1,021	59	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.20	Trees Off ROW-Tree	75%	4Q 2020	
	SAIDI	670.58	Trees Off ROW-Limb	15%	1Q 2021	
	SAIFI	2.32	Animal	4%		
	CAIDI	289	All Other	6%		
	Customer Minutes	684,659				
	Customers Affected	2,369				
	Remedial Action Planned or Taken				Status	Progress
	Thermovision and overhead inspection				Complete	Apr-20
	Targeted forestry inspection				Complete	May-20
Targeted forestry inspection				Complete	Dec-20	
Install Supervisory Control and Data Acquisition (SCADA) Engineering Review				Complete	Jan-21	
On cycle tree trimming				To be Completed 2021	41%	
Overhead circuit inspection				To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages	
26	No Bangor	00813-3	Easton	1,353	31	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.19	Trees Off ROW-Tree	35%	1Q 2021	
	SAIDI	505.17	Human Error -Non-Company	34%		
	SAIFI	1.62	Equipment Failure	24%		
	CAIDI	312	All Other	8%		
	Customer Minutes	683,498				
	Customers Affected	2,188				
	Remedial Action Planned or Taken				Status	Progress
	Thermovision and overhead inspection				Complete	May-20
Repair priority items from thermovision inspection				To be Completed 2021	75%	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
27	Swatara Hill	00765-2	Lebanon	612	40	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.19	Trees Off ROW-Tree	77%	3Q 2020	
	SAIDI	1,116.35	Equipment Failure	17%	4Q 2020	
	SAIFI	3.19	Trees On ROW	4%	1Q 2021	
	CAIDI	350	All Other	3%		
	Customer Minutes	683,208				
	Customers Affected	1,950				
	Remedial Action Planned or Taken				Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) device #4				Complete	Oct-20
	Targeted forestry inspection				To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages	
28	S Hamb	00740-1	Hamburg	1,266	68	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.17	Trees Off ROW-Tree	69%	1Q 2021	
	SAIDI	528.84	Line Failure	14%		
	SAIFI	1.90	Equipment Failure	9%		
	CAIDI	278	All Other	7%		
	Customer Minutes	669,508				
	Customers Affected	2,406				
	Remedial Action Planned or Taken				Status	Progress
	Repair/replace priority items from mainline circuit inspection				Complete	Mar-20
	On cycle tree trimming				Complete	Dec-20
Install TripSaver				To be Completed 2021	75%	
Rank	Substation	Circuit	District	Customers	Outages	
29	Swatara Hill	00763-2	Lebanon	1,533	47	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.03	Trees Off ROW-Tree	59%	1Q 2021	
	SAIDI	385.77	Forced Outage	14%		
	SAIFI	2.13	Equipment Failure	14%		
	CAIDI	181	All Other	13%		
	Customer Minutes	591,384				
	Customers Affected	3,265				
	Remedial Action Planned or Taken				Status	Progress
	Targeted forestry inspection				To be Completed 2021	0%

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
30	Pine Lane	00720-1	Boyertown	976	38	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.03	Trees Off ROW-Tree	85%	1Q 2021	
	SAIDI	604.02	Unknown	7%		
	SAIFI	2.95	Vehicle	6%		
	CAIDI	205	All Other	2%		
	Customer Minutes	589,522				
	Customers Affected	2,881				
	Remedial Action Planned or Taken				Status	Progress
	Replace crossarm from inspection				Complete	Apr-20
	Repair/Replace pole top from inspection				Complete	Apr-20
	Install TripSaver				Complete	Jan-21
Rank	Substation	Circuit	District	Customers	Outages	
31	Snydersville	00620-3	Stroudsburg	987	41	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.03	Trees Off ROW-Tree	62%	1Q 2021	
	SAIDI	596.60	Equipment Failure	23%		
	SAIFI	1.52	Vehicle	5%		
	CAIDI	394	All Other	10%		
	Customer Minutes	588,843				
	Customers Affected	1,496				
	Remedial Action Planned or Taken				Status	Progress
	Overhead circuit inspection				Complete	Mar-21
	Repair/replace priority items from circuit inspection				To be Completed 2021	0%
	Rank	Substation	Circuit	District	Customers	Outages
32	Menges Mills	00543-4	Hanover	1,587	35	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.02	Trees Off ROW-Tree	71%	4Q 2020	
	SAIDI	369.36	Lightning	16%	1Q 2021	
	SAIFI	1.82	Vehicle	6%		
	CAIDI	203	All Other	8%		
	Customer Minutes	586,167				
	Customers Affected	2,885				
	Remedial Action Planned or Taken				Status	Progress
	On cycle tree trimming				To be Completed 2021	97%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
33	Violet Hill	00527-4	York	1,163	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.01	Trees Off ROW-Tree	48%	1Q 2021
	SAIDI	496.83	Unknown	27%	
	SAIFI	3.27	Trees On ROW	13%	
	CAIDI	152	All Other	12%	
	Customer Minutes	577,817			
	Customers Affected	3,808			
	Remedial Action Planned or Taken			Status	Progress
	Repair items found during circuit rehabilitation patrol			Complete	Nov-19
	Joint Planning meeting with AEC for Potential SCADA/Sectionalizing devices			To be Completed 2021	25%
Rank	Substation	Circuit	District	Customers	Outages
34	State Street	00620-1	Hamburg	889	16
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.99	Animal	51%	4Q 2020
	SAIDI	636.85	Trees Off ROW-Tree	42%	1Q 2021
	SAIFI	3.47	Human Error - Company	5%	
	CAIDI	184	All Other	1%	
	Customer Minutes	566,158			
	Customers Affected	3,084			
	Remedial Action Planned or Taken			Status	Progress
	Replace mainline recloser			Complete	July-20
	Thermovision and overhead inspection			Complete	July-20
Overhead circuit inspection			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
35	South Easton	00057-3	Easton	626	9
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.98	Object Contact With Line	92%	4Q 2020
	SAIDI	898.33	Equipment Failure	5%	1Q 2021
	SAIFI	2.00	Trees - Sec/Service	2%	
	CAIDI	450	All Other	1%	
	Customer Minutes	562,355			
	Customers Affected	1,250			
	Remedial Action Planned or Taken			Status	Progress
Repair damage from November 2020 storm			Complete	Nov-20	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
36	Lickdale	00626-2	Lebanon	1,479	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.98	Trees Off ROW-Tree	78%	4Q 2020
	SAIDI	378.69	Line Failure	11%	1Q 2021
	SAIFI	1.56	Trees Off ROW-Limb	8%	
	CAIDI	243	All Other	3%	
	Customer Minutes	560,085			
	Customers Affected	2,308			
	Remedial Action Planned or Taken			Status	Progress
	Targeted Mainline Circuit Rehabilitation #1			Complete	Jan-20
	Targeted Mainline Circuit Rehabilitation #2			Complete	Jan-20
	Targeted Mainline Circuit Rehabilitation #3			Complete	Jan-20
	Overhead circuit inspection			Complete	Mar-20
	Install fusing			Complete	Aug-20
Targeted forestry inspection			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
37	Ottsville	00660-3	Easton	873	52
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.97	Trees Off ROW-Tree	64%	1Q 2021
	SAIDI	636.41	Equipment Failure	18%	
	SAIFI	1.74	Object Contact With Line	5%	
	CAIDI	366	All Other	13%	
	Customer Minutes	555,589			
	Customers Affected	1,516			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			To be Completed 2021	99%
Rank	Substation	Circuit	District	Customers	Outages
38	Mountain	00743-4	Dillsburg	1,029	27
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.93	Trees Off ROW-Tree	47%	2Q 2020
	SAIDI	519.74	Trees Off ROW-Limb	32%	3Q 2020
	SAIFI	3.50	Line Failure	19%	1Q 2021
	CAIDI	148	All Other	3%	
	Customer Minutes	534,812			
	Customers Affected	3,604			
	Remedial Action Planned or Taken			Status	Progress
	Targeted Zone 2 Circuit Rehabilitation			Complete	Feb-20
Overhead circuit inspection			Complete	Mar-20	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
39	7Th St	00102-1	Reading	1,094	12	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.88	Object Contact With Line	40%	1Q 2021	
	SAIDI	461.32	Forced Outage	24%		
	SAIFI	4.39	Equipment Failure	23%		
	CAIDI	105	All Other	13%		
	Customer Minutes	504,686				
	Customers Affected	4,802				
	Remedial Action Planned or Taken				Status	Progress
	Overhead circuit inspection				Complete	Feb-20

Met-Ed					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	2Q 2020	3Q 2020	4Q 2020	1Q 2021
Bern Church	00789-1	X	X		
Crossroads	00728-4	X		X	
Dillsburg	00746-4	X	X	X	
Fox Hills	00816-3	X	X		
Fox Hills	00852-3	X	X	X	
Hill	00737-4	X	X		
McSherrystown	00292-4	X	X		
Mohnton Sta	00144-1	X	X	X	
North Hanover	00505-4		X	X	
South Nazareth	00809-3	X	X		
Shawnee	00895-3	X	X		
Shawnee	00899-3	X	X	X	
Water Gap	00109-3	X	X		
Windsor	00795-4	X	X	X	
Windsor	00797-4	X	X		
Yorkana	00716-4		X	X	

Met-Ed				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work	Progress of Remedial Work or Date Completed
Barto	00705-1	Install TripSaver	Complete	Dec-20
Barto	00705-1	Overhead circuit inspection	Complete	Dec-20
Belfast	00812-3	Install Supervisory Control and Data Acquisition (SCADA) switch	Complete	Nov-20
Bern Church	00789-1	Install additional circuit tap protection	Complete	Nov-20
Bern Church	00789-1	Install TripSaver Recloser #1	Complete	Dec-20
Bern Church	00789-1	Install TripSaver Recloser #2	Complete	Dec-20
Bern Church	00789-1	Install TripSaver Recloser #3	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) recloser #1	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) recloser #2	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) recloser #3	Complete	Feb-21
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) switch #3	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) switch #4	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) switch #5	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) switch #6	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) switch #7	Complete	Dec-20
Bernville	00786-1	Install TripSaver Recloser #1	Complete	Dec-20
Bernville	00786-1	Install TripSaver Recloser #2	Complete	Dec-20
Bernville	00786-1	Install TripSaver Recloser #3	Complete	Dec-20
Broad Street	00776-2	On cycle tree trimming	Complete	Dec-20
Campbelltown	00731-2	On cycle tree trimming	Complete	Dec-20
Crossroads	00728-4	Install Supervisory Control and Data Acquisition (SCADA) switch	To be Completed 2021	75%
Crossroads	00728-4	Install Supervisory Control and Data Acquisition (SCADA) switch	Complete	Dec-20
Crossroads	00728-4	Install TripSaver Recloser	Complete	Dec-20
Dillsburg	00746-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #1	Complete	Dec-20
Dillsburg	00746-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #2	Complete	Dec-20
Fairview	00519-4	Add Supervisory Control and Data Acquisition (SCADA) to recloser #1	Complete	Dec-20
Fairview	00519-4	Add Supervisory Control and Data Acquisition (SCADA) to recloser #2	To be Completed 2021	50%
Fairview	00519-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #1	Complete	Nov-20
Fairview	00519-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #2	Complete	Nov-20
Fairview	00519-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #3	Complete	Nov-20
Fairview	00519-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #4	Complete	Dec-20
Ferndale	00871-3	Install TripSaver Recloser	Complete	Dec-20
Fox Hill	00852-3	On cycle tree trimming	Complete	Dec-20
Fox Hill	00816-3	On cycle tree trimming	Complete	Dec-20
Fox Hill	00816-3	Repair items identified during circuit inspection	Complete	Dec-20
Hill	00737-4	On cycle tree trimming	Complete	Dec-20

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
Hill	00734-4	Install TripSaver Recloser #1	Complete	Dec-20
Hill	00734-4	Install TripSaver Recloser #2	Complete	Dec-20
Lynnville	00735-1	Install Supervisory Control and Data Acquisition (SCADA) recloser #1	Complete	Dec-20
Lynnville	00735-1	Install Supervisory Control and Data Acquisition (SCADA) switch #4	Complete	Dec-20
Lynnville	00735-1	Install TripSaver Recloser #1	Complete	Dec-20
Lynnville	00735-1	Install TripSaver Recloser #2	Complete	Dec-20
Mcsherrystown	00292-4	On cycle tree trimming	Complete	Oct-20
Moselem	00782-1	Overhead circuit inspection	Complete	Nov-20
Newberry	00576-4	Repair/replace high priority items identified during inspection	Complete	Oct-20
North Cornwall	00610-2	On cycle tree trimming	Complete	Dec-20
North Hanover	00505-4	On cycle tree trimming	To be Completed 2021	61%
Painted Sky	00650-1	Install additional mainline disconnects	Complete	Oct-20
Raintree	00642-4	Install TripSaver Recloser	Complete	Dec-20
S 6Th St	00415-2	Install fusing on mainline taps	Complete	Nov-20
S Hamb	00743-1	On cycle tree trimming	Complete	Dec-20
S Nazareth	00809-3	Install TripSaver Recloser #1	Complete	Dec-20
Shawnee	00899-3	On cycle tree trimming	To be Completed 2021	50%
Shawnee	00895-3	On cycle tree trimming	Complete	Oct-20
Shawnee	00860-3	Install TripSaver Recloser	Complete	Dec-20
Springwood	00680-4	On cycle tree trimming	Complete	Dec-20
Springwood	00680-4	Install Supervisory Control and Data Acquisition (SCADA) switch #1	Complete	Dec-20
Springwood	00680-4	Install Supervisory Control and Data Acquisition (SCADA) switch #2	Complete	Dec-20
Stouchburg	00758-2	Line project to reconductor 4 spans and improve coordination	Complete	Oct-20
Water Gap	00109-3	Create new source	Complete	Oct-20
Water Gap	00109-3	Overhead circuit inspection	Complete	Oct-20
Windsor	00795-4	Install Animal Guard	Complete	Nov-20
Windsor	00797-4	Upgrade fusing	Complete	Dec-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
1	Two Mile	00127-42	Bradford	1,280	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	5.78	Trees Off ROW-Tree	54%	2Q 2020
	SAIDI	2,619.66	Equipment Failure	37%	3Q 2020
	SAIFI	3.89	Trees - Sec/Service	4%	4Q 2020
	CAIDI	674.00	All Other	4%	1Q 2021
	Customer Minutes	3,353,163			
	Customers Affected	4,975			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Apr-20
	Repair damage caused by trees			Complete	Jul-20
	Install advanced Dx protective devices			Complete	Aug-20
	Repair damage caused by trees during a storm			Complete	Aug-20
	Circuit inspection			Complete	Sep-20
Repiar equipment failure			Complete	Jan-21	
Rank	Substation	Circuit	District	Customers	Outages
2	Warren South	00220-41	Warren	2,376	100
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.50	Trees Off ROW-Tree	81%	2Q 2020
	SAIDI	1,098.67	Equipment Failure	7%	3Q 2020
	SAIFI	2.74	Forced Outage	4%	4Q 2020
	CAIDI	401.05	All Other	8%	1Q 2021
	Customer Minutes	2,610,444			
	Customers Affected	6,509			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-20
	Repair damage caused by trees during a storm			Complete	Aug-20
	Circuit inspection			Complete	Sep-20
	Install advanced Dx protective devices			Complete	Nov-20
	Rank	Substation	Circuit	District	Customers
3	Bradford South	00106-42	Bradford	1,185	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.09	Trees Off ROW-Tree	87%	3Q 2020
	SAIDI	2,004.39	Human Error -Non-Company	5%	4Q 2020
	SAIFI	2.46	Equipment Failure	4%	1Q 2021
	CAIDI	816.22	All Other	4%	
	Customer Minutes	2,375,197			
	Customers Affected	2,910			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-20
Repair damage caused by trees during a storm			Complete	Sep-20	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
4	Tiffany	00435-65	Montrose	1,476	60	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.45	Trees Off ROW-Tree	50%	2Q 2020	
	SAIDI	1,357.45	Line Failure	21%	3Q 2020	
	SAIFI	4.78	Equipment Failure	15%	4Q 2020	
	CAIDI	283.71	All Other	15%	1Q 2021	
	Customer Minutes	2,003,593				
	Customers Affected	7,062				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Apr-20
	Repair Line failure				Complete	Aug-20
	Repair equipment failure				Complete	Nov-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Circuit inspection				To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages	
5	Dubois	00137-23	Dubois	3,109	99	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.36	Trees Off ROW-Tree	63%	2Q 2020	
	SAIDI	626.54	Equipment Failure	12%	3Q 2020	
	SAIFI	3.98	Trees Off ROW-Limb	8%	4Q 2020	
	CAIDI	157.31	All Other	17%	1Q 2021	
	Customer Minutes	1,947,908				
	Customers Affected	12,383				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	May-20
	Install advanced Dx protective devices				Complete	Jun-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Repair damage caused by trees during a storm				Complete	Mar-21
	Install advanced Dx protective devices				To be Completed 2021	0%

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
6	Grover	00527-63	Towanda	1,055	76	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.09	Trees Off ROW-Limb	56%	2Q 2020	
	SAIDI	1,700.08	Trees Off ROW-Tree	35%	3Q 2020	
	SAIFI	3.86	Ice	4%	4Q 2020	
	CAIDI	440.25	All Other	5%	1Q 2021	
	Customer Minutes	1,793,589				
	Customers Affected	4,074				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Apr-20
	Circuit inspection				Complete	May-20
	Repair damage caused by trees during a storm				Complete	Jul-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Repair damage caused by trees during a storm				Complete	Jan-21
Targeted circuit rehabilitation				To be Completed 2021	0%	
Install advanced Dx protective devices				To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages	
7	Lewis Run	00408-42	Bradford	1,174	46	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.79	Trees Off ROW-Tree	91%	3Q 2020	
	SAIDI	1,377.11	Equipment Failure	3%	4Q 2020	
	SAIFI	3.34	Lightning	3%	1Q 2021	
	CAIDI	411.80	All Other	3%		
	Customer Minutes	1,616,724				
	Customers Affected	3,926				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Aug-20
	Repair damage caused by trees during a storm				Complete	Sep-20
	On cycle tree trimming				To be Completed 2021	25%
	Install advanced Dx protective devices				To be Completed 2021	0%

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
8	North Warren	00596-41	Warren	1,127	66	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.67	Trees Off ROW-Tree	78%	2Q 2020	
	SAIDI	1,374.41	Equipment Failure	11%	3Q 2020	
	SAIFI	3.50	Line Failure	4%	4Q 2020	
	CAIDI	392.74	All Other	8%	1Q 2021	
	Customer Minutes	1,548,963				
	Customers Affected	3,944				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	May-20
	Repair damage caused by trees during a storm				Complete	Aug-20
	Repair damage caused by trees during a storm				Complete	Sep-20
	Rank	Substation	Circuit	District	Customers	Outages
9	Marienville	00328-51	Oil City	1,203	62	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.36	Trees Off ROW-Tree	80%	2Q 2020	
	SAIDI	1,136.79	Unknown	10%	3Q 2020	
	SAIFI	3.69	Line Failure	3%	4Q 2020	
	CAIDI	308.01	All Other	7%	1Q 2021	
	Customer Minutes	1,367,562				
	Customers Affected	4,440				
	Remedial Action Planned or Taken				Status	Progress
	Install advanced Dx protective devices				Complete	May-20
	Circuit inspection				Complete	Sep-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Repair damage caused by trees during a storm				Complete	Mar-21
Install advanced Dx protective devices				To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages	
10	Madera	00166-22	Philipsburg	1,457	49	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.20	Trees Off ROW-Tree	89%	2Q 2020	
	SAIDI	875.72	Unknown	5%	1Q 2021	
	SAIFI	1.63	Animal	4%		
	CAIDI	537.91	All Other	2%		
	Customer Minutes	1,275,927				
	Customers Affected	2,372				
	Remedial Action Planned or Taken				Status	Progress
	Install advanced Dx protective devices				Complete	Aug-20
	Circuit inspection				Complete	Sep-20
	Repair damage caused by trees during a storm				Complete	Mar-21

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
11	Philipsburg	00162-22	Philipsburg	2,710	65
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.07	Equipment Failure	46%	2Q 2020
	SAIDI	443.85	Unknown	31%	4Q 2020
	SAIFI	3.28	Trees Off ROW-Tree	16%	1Q 2021
	CAIDI	135.48	All Other	7%	
	Customer Minutes	1,202,820			
	Customers Affected	8,878			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Apr-20
	Circuit inspection			Complete	May-20
	Install advanced Dx protective devices			Complete	Aug-20
	Repair equipment failure			Complete	Dec-20
	Repair damage caused by ice			Complete	Dec-20
Repair damage caused by trees during a storm			Complete	Mar-21	
Rank	Substation	Circuit	District	Customers	Outages
12	Rolling Meadows	00310-31	Erie	4,393	50
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.04	Line Failure	42%	1Q 2021
	SAIDI	269.21	Human Error - Company	39%	
	SAIFI	2.48	Equipment Failure	13%	
	CAIDI	108.41	All Other	5%	
	Customer Minutes	1,182,646			
	Customers Affected	10,909			
	Remedial Action Planned or Taken			Status	Progress
	Circuit inspection			Complete	Aug-20
	Repair line failure			Complete	Sep-20
	Install advanced Dx protective devices			Complete	Nov-20
	Repair damage caused by human error-company			Complete	Mar-21

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
13	Revloc	00069-72	Altoona	557	11	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.94	Trees Off ROW-Tree	94%	1Q 2021	
	SAIDI	2,020.34	Line Failure	5%		
	SAIFI	3.11	Unknown	0%		
	CAIDI	649.73	All Other	1%		
	Customer Minutes	1,125,327				
	Customers Affected	1,732				
	Remedial Action Planned or Taken				Status	Progress
	On cycle tree trimming				Complete	Nov-20
	Repair damage caused by trees during a storm				Complete	Feb-21
	Repair damage caused by trees during a storm				Complete	Mar-21
	Rank	Substation	Circuit	District	Customers	Outages
14	Saxton Sub	00625-73	Altoona	1,096	28	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.90	Trees Off ROW-Tree	78%	1Q 2021	
	SAIDI	1,004.04	Equipment Failure	20%		
	SAIFI	2.44	Unknown	1%		
	CAIDI	412.30	All Other	1%		
	Customer Minutes	1,100,431				
	Customers Affected	2,669				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Jan-21
	Repair equipment failure				Complete	Feb-21
	Rank	Substation	Circuit	District	Customers	Outages
	15	Greenwood	00041-71	Altoona	1,231	26
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		1.84	Equipment Failure	69%	3Q 2020	
SAIDI		866.92	Wind	29%	4Q 2020	
SAIFI		3.16	Trees On ROW	1%	1Q 2021	
CAIDI		274.69	All Other	1%		
Customer Minutes		1,067,177				
Customers Affected		3,885				
Remedial Action Planned or Taken				Status	Progress	
Repair equipment failure				Complete	Aug-20	
Repair equipment failure				Complete	Sep-20	
Repair damage caused by wind				Complete	Mar-21	
Circuit inspection				To be Completed 2021	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
16	N Meshoppen Tran	00534-65	Montrose	826	63
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.77	Trees Off ROW-Tree	87%	2Q 2020
	SAIDI	1,240.39	Equipment Failure	6%	3Q 2020
	SAIFI	2.95	Unknown	3%	4Q 2020
	CAIDI	421.11	All Other	4%	1Q 2021
	Customer Minutes	1,024,563			
	Customers Affected	2,433			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-20
	Repair damage caused by trees during a storm			Complete	Nov-20
	Repair damage caused by trees during a storm			Complete	Jan-21
	Rank	Substation	Circuit	District	Customers
17	Mill Street	00144-42	Bradford	963	15
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.72	Trees Off ROW-Tree	48%	4Q 2020
	SAIDI	1,035.60	Equipment Failure	46%	1Q 2021
	SAIFI	1.66	Lightning	3%	
	CAIDI	624.08	All Other	2%	
	Customer Minutes	997,281			
	Customers Affected	1,598			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Aug-20
	Repair damage caused by trees during a storm			Complete	Aug-20
On cycle tree trimming			To be Completed 2021	95%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
18	North Warren	00207-41	Warren	1,361	74
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.69	Trees Off ROW-Tree	76%	2Q 2020
	SAIDI	721.29	Trees On ROW	10%	3Q 2020
	SAIFI	3.36	Equipment Failure	4%	4Q 2020
	CAIDI	214.85	All Other	10%	1Q 2021
	Customer Minutes	981,672			
	Customers Affected	4,569			
	Remedial Action Planned or Taken			Status	Progress
	Circuit inspection			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	May-20
	Targeted circuit rehabilitation			Complete	Aug-20
	Install advanced Dx protective devices			Complete	Oct-20
	Install new radio controlled switch			Complete	Jan-21
Install advanced Dx protective devices			Complete	Apr-21	
On cycle tree trimming			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
19	Natl Forge Sw Sta	00577-41	Warren	1,218	48
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.65	Trees Off ROW-Tree	79%	3Q 2020
	SAIDI	783.90	Wind	10%	4Q 2020
	SAIFI	7.35	Equipment Failure	7%	1Q 2021
	CAIDI	106.69	All Other	5%	
	Customer Minutes	954,786			
	Customers Affected	8,949			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Aug-20
	Repair damage caused by trees			Complete	Sep-20
	Repair damage caused by wind			Complete	Nov-20
	Install advanced Dx protective devices			To be Completed 2021	99%
	Circuit inspection			To be Completed 2021	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
20	East Hickory	00201-41	Warren	322	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.59	Trees Off ROW-Tree	91%	3Q 2020
	SAIDI	2,865.84	Lightning	2%	4Q 2020
	SAIFI	2.86	Trees - Sec/Service	2%	1Q 2021
	CAIDI	1,001.95	All Other	4%	
	Customer Minutes	922,799			
	Customers Affected	921			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-20
Rank	Substation	Circuit	District	Customers	Outages
21	Madera	00165-22	Philipsburg	1,392	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.52	Equipment Failure	76%	4Q 2020
	SAIDI	631.80	Animal	14%	1Q 2021
	SAIFI	2.52	Trees Off ROW-Tree	6%	
	CAIDI	250.92	All Other	4%	
	Customer Minutes	879,467			
	Customers Affected	3,505			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Aug-20
	On cycle tree trimming			Complete	May-20
	Repair damage caused by trees during a storm			Complete	Aug-20
	Repair damage caused by animal			Complete	Oct-20
	Repair equipment failure			Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages
22	Russell Hill	00282-65	Montrose	1,007	85
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.47	Trees Off ROW-Tree	57%	2Q 2020
	SAIDI	847.98	Line Failure	17%	3Q 2020
	SAIFI	2.94	Vehicle	8%	4Q 2020
	CAIDI	288.87	All Other	18%	1Q 2021
	Customer Minutes	853,913			
	Customers Affected	2,956			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jul-20
	Repair damage caused by a vehicle accident			Complete	Jul-20
	Repair line failure			Complete	Dec-20
	Repair damage caused by trees during a storm			Complete	Mar-21
	Install advanced Dx protective devices			To be Completed 2021	0%

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
23	Piney	00523-51	Oil City	1,503	57	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.44	Trees Off ROW-Tree	43%	2Q 2020	
	SAIDI	554.36	Line Failure	23%	3Q 2020	
	SAIFI	3.45	Lightning	19%	4Q 2020	
	CAIDI	160.66	All Other	15%	1Q 2021	
	Customer Minutes	833,205				
	Customers Affected	5,186				
	Remedial Action Planned or Taken				Status	Progress
	Install advanced Dx protective devices				Complete	Aug-20
	Repair damage caused by lightning				Complete	Sep-20
	Install new radio-controlled switch				Complete	Sep-20
	On cycle tree trimming				Complete	Dec-20
	Repair line failure				Complete	Mar-21
Targeted circuit rehabilitation				To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages	
24	Somerset	00017-12	Somerset	1,369	48	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.42	Trees Off ROW-Tree	96%	2Q 2020	
	SAIDI	602.10	Lightning	2%	3Q 2020	
	SAIFI	1.53	Line Failure	0%	4Q 2020	
	CAIDI	394.77	All Other	1%	1Q 2021	
	Customer Minutes	824,271				
	Customers Affected	2,088				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Apr-20
	Circuit inspection				To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages	
25	Tunkhannock	00533-65	Montrose	1,240	46	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.37	Trees Off ROW-Tree	68%	2Q 2020	
	SAIDI	640.10	Unknown	14%	3Q 2020	
	SAIFI	2.00	Trees - Sec/Service	5%	4Q 2020	
	CAIDI	320.56	All Other	13%	1Q 2021	
	Customer Minutes	793,718				
	Customers Affected	2,476				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Apr-20
	Restore recloser operation of unknown cause				Complete	Aug-20
Install advanced Dx protective devices				To be Completed 2021	0%	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
26	Hooversville	00018-12	Somerset	746	35	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.24	Trees Off ROW-Tree	84%	2Q 2020	
	SAIDI	966.74	Trees Off ROW-Limb	7%	3Q 2020	
	SAIFI	2.59	Vehicle	6%	4Q 2020	
	CAIDI	373.29	All Other	3%	1Q 2021	
	Customer Minutes	721,187				
	Customers Affected	1,932				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by trees during a storm			Complete	Apr-20	
	Repair damage caused by trees during a storm			Complete	Apr-20	
	Repair damage caused by trees during a storm			Complete	Apr-20	
	Install advanced Dx protective devices			Complete	Mar-21	
	Circuit inspection			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages	
27	French Road	00222-31	Erie	1,716	17	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.24	Trees Off ROW-Tree	72%	2Q 2020	
	SAIDI	420.14	Trees Off ROW-Limb	19%	3Q 2020	
	SAIFI	1.79	Lightning	4%	4Q 2020	
	CAIDI	234.08	All Other	5%	1Q 2021	
	Customer Minutes	720,954				
	Customers Affected	3,080				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by trees during a storm			Complete	Jun-20	
	Repair damage caused by trees during a storm			Complete	Aug-20	
	Rank	Substation	Circuit	District	Customers	Outages
	28	Wyalusing Sub	00532-62	Towanda	575	50
		Reliability		Outage by Cause		Previously Ranked
SAIDI Impact		1.18	Ice	38%	1Q 2021	
SAIDI		1,187.56	Unknown	21%		
SAIFI		8.20	Equipment Failure	18%		
CAIDI		144.76	All Other	23%		
Customer Minutes		682,848				
Customers Affected		4,717				
Remedial Action Planned or Taken			Status	Progress		
Restore breaker operation of unknown cause			Complete	Apr-20		
Repair equipment failure			Complete	Sep-20		
Repair damage caused by ice			Complete	Jan-21		

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
29	Morgan Street	00233-52	Meadville	839	29
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.14	Vehicle	88%	3Q 2020
	SAIDI	789.97	Trees Off ROW-Tree	6%	4Q 2020
	SAIFI	2.56	Forced Outage	3%	1Q 2021
	CAIDI	308.70	All Other	3%	
	Customer Minutes	662,782			
	Customers Affected	2,147			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by vehicle accident			Complete	Sep-20
Rank	Substation	Circuit	District	Customers	Outages
30	Hooversville	00019-12	Somerset	1,805	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.13	Trees Off ROW-Tree	53%	2Q 2020
	SAIDI	362.86	Equipment Failure	31%	3Q 2020
	SAIFI	2.25	Unknown	10%	4Q 2020
	CAIDI	160.93	All Other	6%	1Q 2021
	Customer Minutes	654,965			
	Customers Affected	4,070			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Apr-20
Repair damage caused by trees during a storm			Complete	Apr-20	
Rank	Substation	Circuit	District	Customers	Outages
31	Blairsville East	00080-13	Indiana	864	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.12	Trees Off ROW-Tree	77%	3Q 2020
	SAIDI	749.36	Vehicle	14%	4Q 2020
	SAIFI	4.64	Equipment Failure	7%	1Q 2021
	CAIDI	161.54	All Other	2%	
	Customer Minutes	647,448			
	Customers Affected	4,008			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-20
Repair damage caused by trees during a storm			Complete	Aug-20	
Repair damage caused by a vehicle			Complete	Mar-21	
Targeted circuit rehabilitation			To be Completed 2021	0%	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
32	Springboro	00237-52	Meadville	2,766	75	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.10	Line Failure	42%	2Q 2020	
	SAIDI	230.37	Ice	13%	3Q 2020	
	SAIFI	1.70	Object Contact With Line	10%	4Q 2020	
	CAIDI	135.37	All Other	35%	1Q 2021	
	Customer Minutes	637,198				
	Customers Affected	4,707				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by bird				Complete	Apr-20
	Repair line failure				Complete	Sep-20
	Install advanced Dx protective devices				Complete	Oct-20
	Repair equipment failure				Complete	Nov-20
	Repair damage caused by ice				Complete	Dec-20
	Circuit inspection				To be Completed 2021	0%
Install advanced Dx protective devices				To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages	
33	Meshoppen	00283-65	Montrose	385	19	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.09	Trees Off ROW-Tree	29%	3Q 2020	
	SAIDI	1,635.43	Forced Outage	20%	4Q 2020	
	SAIFI	3.65	Line Failure	18%	1Q 2021	
	CAIDI	447.83	All Other	33%		
	Customer Minutes	629,642				
	Customers Affected	1,406				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees				Complete	Apr-20
	Repair line failure				Complete	Jul-20
	Repair damage caused by trees				Complete	Mar-21
	Restore fuse operation of unknown cause				Complete	Jan-21
	Circuit inspection				To be Completed 2021	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
34	Logan	00700-81	Lewistown	1,048	46
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.08	Trees Off ROW-Tree	72%	2Q 2020
	SAIDI	598.79	Vehicle	10%	3Q 2020
	SAIFI	5.00	Lightning	9%	4Q 2020
	CAIDI	119.87	All Other	9%	1Q 2021
	Customer Minutes	627,537			
	Customers Affected	5,235			
	Remedial Action Planned or Taken			Status	Progress
	Circuit inspection			Complete	Apr-20
	Repair damage caused by lightning			Complete	Apr-20
	Repair damage caused by a vehicle accident			Complete	May-20
	Rank	Substation	Circuit	District	Customers
35	Union City Sub	00208-43	Erie	1,459	92
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.07	Trees Off ROW-Tree	74%	3Q 2020
	SAIDI	427.11	Equipment Failure	13%	4Q 2020
	SAIFI	2.45	Forced Outage	5%	1Q 2021
	CAIDI	174.36	All Other	8%	
	Customer Minutes	623,160			
	Customers Affected	3,574			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Jul-20
	Repair damage caused by trees			Complete	Nov-20
	Repair equipment failure			Complete	Jan-21
	Circuit inspection			To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
36	Mcveytown	00112-81	Lewistown	1,301	52
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.06	Trees Off ROW-Tree	48%	2Q 2020
	SAIDI	471.73	Line Failure	27%	3Q 2020
	SAIFI	1.89	Unknown	8%	4Q 2020
	CAIDI	250.09	All Other	16%	1Q 2021
	Customer Minutes	613,727			
	Customers Affected	2,454			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Apr-20
	Repair damage caused by a tree during a storm			Complete	Jun-20
	On cycle tree trimming			To be Completed 2021	0%

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
37	Brookville	00125-23	Dubois	562	24	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.04	Trees Off ROW-Tree	82%	2Q 2020	
	SAIDI	1,077.86	Equipment Failure	10%	3Q 2020	
	SAIFI	6.55	Vehicle	7%	4Q 2020	
	CAIDI	164.56	All Other	1%	1Q 2021	
	Customer Minutes	605,759				
	Customers Affected	3,681				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	May-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Targeted circuit rehabilitation				To be Completed 2021	0%
	Rank	Substation	Circuit	District	Customers	Outages
38	Northeast	00592-31	Erie	1,598	57	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.02	Animal	66%	3Q 2020	
	SAIDI	368.86	Equipment Failure	14%	4Q 2020	
	SAIFI	3.08	Unknown	10%	1Q 2021	
	CAIDI	119.90	All Other	9%		
	Customer Minutes	589,444				
	Customers Affected	4,916				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	Sep-20
	Repair damage caused by animal				Complete	Sep-20
	Repair damage caused by animal				Complete	Oct-20
	Install advanced Dx protective devices				To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages	
39	Fallen Timbers	00995-22	Philipsburg	907	24	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.01	Equipment Failure	62%	1Q 2021	
	SAIDI	647.41	Trees Off ROW-Limb	21%		
	SAIFI	3.97	Trees Off ROW-Tree	6%		
	CAIDI	163.02	All Other	11%		
	Customer Minutes	587,202				
	Customers Affected	3,602				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	Jul-20
	Repair damage caused by trees during a storm				Complete	Mar-21

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
40	Spangler Sub	00052-72	Altoona	1,492	17
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.95	Trees Off ROW-Tree	77%	1Q 2021
	SAIDI	368.74	Equipment Failure	20%	
	SAIFI	2.23	Fire	3%	
	CAIDI	165.56	All Other	1%	
	Customer Minutes	550,162			
	Customers Affected	3,323			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages
41	East Towanda	00525-62	Towanda	672	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.92	Trees Off ROW-Tree	47%	2Q 2020
	SAIDI	789.84	Unknown	24%	1Q 2021
	SAIFI	1.75	Wind	11%	
	CAIDI	450.19	All Other	18%	
	Customer Minutes	530,770			
	Customers Affected	1,179			
	Remedial Action Planned or Taken			Status	Progress
	Restore fuse operation of unknown cause			Complete	Jan-21
	Repair damage caused by wind			Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages
42	Dubois Central	00119-23	Dubois	1,236	39
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.90	Trees Off ROW-Tree	50%	2Q 2020
	SAIDI	423.90	Equipment Failure	28%	3Q 2020
	SAIFI	2.38	Line Failure	12%	4Q 2020
	CAIDI	178.21	All Other	10%	1Q 2021
	Customer Minutes	523,943			
	Customers Affected	2,940			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Jun-20
	Repair damage caused by trees during a storm			Complete	Jun-20
Repair damage caused by trees during a storm			Complete	Jun-20	
Repair line failure			Complete	Nov-20	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
43	Lewis Run	00409-42	Bradford	670	32	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.90	Equipment Failure	45%	3Q 2020	
	SAIDI	781.32	Trees Off ROW-Tree	43%	4Q 2020	
	SAIFI	5.10	Unknown	6%	1Q 2021	
	CAIDI	153.07	All Other	5%		
	Customer Minutes	523,487				
	Customers Affected	3,420				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Aug-20
	Repair equipment failure				Complete	Sep-20
	Circuit inspection				To be Completed 2021	0%
	Rank	Substation	Circuit	District	Customers	Outages
44	Falls	00297-65	Montrose	806	23	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.89	Trees Off ROW-Tree	68%	3Q 2020	
	SAIDI	638.72	Ice	14%	1Q 2021	
	SAIFI	2.10	Unknown	10%		
	CAIDI	304.08	All Other	8%		
	Customer Minutes	514,807				
	Customers Affected	1,693				
	Remedial Action Planned or Taken				Status	Progress
	On cycle tree trimming				Complete	May-20
	Repair damage caused by trees				Complete	Jul-20
	Repair damage caused by ice				Complete	Jan-21
	Repair damage caused by trees during a storm				Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages	
45	Shawville	00151-21	Clearfield	2,252	41	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.87	Equipment Failure	43%	2Q 2020	
	SAIDI	224.59	Unknown	28%	3Q 2020	
	SAIFI	4.33	Trees Off ROW-Tree	22%	1Q 2021	
	CAIDI	51.86	All Other	8%		
	Customer Minutes	505,773				
	Customers Affected	9,752				
	Remedial Action Planned or Taken				Status	Progress
	Restored breaker operation of unknown cause				Complete	Apr-20
	Install advanced Dx protective devices				Complete	Jun-20
	Repair damage caused by trees during a storm				Complete	Mar-21
	Repair equipment failure				Complete	Mar-21

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
46	Crown	00519-51	Oil City	644	50
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.87	Trees Off ROW-Tree	84%	4Q 2020
	SAIDI	780.11	Unknown	8%	1Q 2021
	SAIFI	1.95	Trees Off ROW-Limb	5%	
	CAIDI	399.04	All Other	3%	
	Customer Minutes	502,391			
	Customers Affected	1,259			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by lightning			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Nov-20
	Repair damage caused by trees during a storm			Complete	Mar-21
	On cycle tree trimming			To be Completed 2021	41%
	Rank	Substation	Circuit	District	Customers
47	Scalp Level	00932-11	Johnstown	977	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.81	Lightning	37%	3Q 2020
	SAIDI	483.59	Forced Outage	30%	1Q 2021
	SAIFI	3.71	Trees Off ROW-Tree	28%	
	CAIDI	130.23	All Other	5%	
	Customer Minutes	472,470			
	Customers Affected	3,628			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by lightning			Complete	Jul-20
	Repair damage caused by trees during a storm			Complete	Jan-21
Rank	Substation	Circuit	District	Customers	Outages
48	Knox	00323-51	Oil City	1,303	48
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.79	Equipment Failure	73%	4Q 2020
	SAIDI	350.11	Unknown	14%	1Q 2021
	SAIFI	2.50	Trees Off ROW-Tree	4%	
	CAIDI	139.85	All Other	9%	
	Customer Minutes	456,188			
	Customers Affected	3,262			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Apr-20
	Repair equipment failure			Complete	Nov-20
Restore fuse operation of unknown cause			Complete	Dec-20	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
49	Lake Como	00788-65	Montrose	613	27	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.78	Trees Off ROW-Tree	74%	2Q 2020	
	SAIDI	733.74	Other Electric Utility	18%	3Q 2020	
	SAIFI	4.20	Line Failure	3%	4Q 2020	
	CAIDI	174.88	All Other	5%	1Q 2021	
	Customer Minutes	449,783				
	Customers Affected	2,572				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by trees during a storm			Complete	Apr-20	
	Repair damage caused by trees during a storm			Complete	Mar-21	
	Circuit inspection			To be Completed 2021	0%	
	Install advanced Dx protective devices			To be Completed 2021	0%	
	Rank	Substation	Circuit	District	Customers	Outages
50	N Meshoppen Tran	00530-65	Montrose	565	37	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.76	Trees Off ROW-Tree	71%	1Q 2021	
	SAIDI	777.37	Line Failure	12%		
	SAIFI	3.06	Trees Off ROW-Limb	7%		
	CAIDI	253.88	All Other	11%		
	Customer Minutes	439,213				
	Customers Affected	1,730				
	Remedial Action Planned or Taken			Status	Progress	
	Repair line failure			Complete	Dec-20	
	Repair damage caused by trees during a storm			Complete	Mar-21	
	Rank	Substation	Circuit	District	Customers	Outages
	51	East Sayre	00518-61	Towanda	948	45
		Reliability		Outage by Cause		Previously Ranked
SAIDI Impact		0.73	Equipment Failure	51%	2Q 2020	
SAIDI		448.14	Unknown	15%	3Q 2020	
SAIFI		3.13	Lightning	15%	4Q 2020	
CAIDI		143.19	All Other	20%	1Q 2021	
Customer Minutes		424,839				
Customers Affected		2,967				
Remedial Action Planned or Taken			Status	Progress		
Circuit inspection			Complete	Apr-20		
Repair equipment failure			Complete	May-20		
Repair damage caused by lightning			Complete	Aug-20		
Repair equipment failure			Complete	Jan-21		
Targeted circuit rehabilitation			To be Completed 2021	0%		

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
52	Laurel Lake Sub Tran	00449-65	Montrose	517	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.72	Trees Off ROW-Tree	37%	2Q 2020
	SAIDI	806.84	Line Failure	34%	3Q 2020
	SAIFI	6.30	Equipment Failure	9%	4Q 2020
	CAIDI	127.99	All Other	20%	1Q 2021
	Customer Minutes	417,134			
	Customers Affected	3,259			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Aug-20
Rank	Substation	Circuit	District	Customers	Outages
53	Cranberry	00350-51	Oil City	1,072	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.71	Trees Off ROW-Tree	84%	1Q 2021
	SAIDI	384.75	Wind	10%	
	SAIFI	1.55	Equipment Failure	4%	
	CAIDI	248.16	All Other	1%	
	Customer Minutes	412,447			
	Customers Affected	1,662			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages
54	Mansfield	00559-63	Mansfield Pa	413	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.71	Equipment Failure	30%	2Q 2020
	SAIDI	995.81	Vehicle	24%	3Q 2020
	SAIFI	3.19	Other Electric Utility	23%	4Q 2020
	CAIDI	311.81	All Other	23%	1Q 2021
	Customer Minutes	411,271			
	Customers Affected	1,319			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Apr-20
	Targeted circuit rehabilitation			Complete	Nov-20
Repair damage caused by vehicle accident			Complete	Dec-20	
Circuit inspection			To be Completed 2021	0%	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
55	Wellsboro	00324-63	Mansfield Pa	266	23	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.69	Trees Off ROW-Tree	61%	2Q 2020	
	SAIDI	1,496.61	Unknown	20%	3Q 2020	
	SAIFI	4.73	Equipment Failure	8%	4Q 2020	
	CAIDI	316.71	All Other	10%	1Q 2021	
	Customer Minutes	398,099				
	Customers Affected	1,257				
	Remedial Action Planned or Taken				Status	Progress
	Restored fuse operation of unknown cause				Complete	Apr-20
	Repair damage caused by trees				Complete	Aug-20
	Repair damage caused by trees during a storm				Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages	
56	Rockwood	00023-12	Somerset	230	9	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.68	Trees Off ROW-Tree	96%	3Q 2020	
	SAIDI	1,723.13	Forced Outage	3%	4Q 2020	
	SAIFI	2.75	Human Error -Non-Company	1%	1Q 2021	
	CAIDI	626.10	All Other	0%		
	Customer Minutes	396,319				
	Customers Affected	633				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Apr-20
	Repair damage caused by trees during a storm				Complete	Jul-20
	On cycle tree trimming				To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages	
57	Snakespring	00628-73	Altoona	1,102	27	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.67	Trees Off ROW-Tree	38%	1Q 2021	
	SAIDI	351.79	Equipment Failure	37%		
	SAIFI	2.29	Trees Off ROW-Limb	14%		
	CAIDI	153.53	All Other	11%		
	Customer Minutes	387,668				
	Customers Affected	2,525				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Dec-20
	Repair equipment failure				Complete	Mar-21

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
58	Corry East	00247-43	Warren	311	23	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.66	Trees Off ROW-Tree	94%	3Q 2020	
	SAIDI	1,230.84	Equipment Failure	3%	4Q 2020	
	SAIFI	1.71	Unknown	2%	1Q 2021	
	CAIDI	719.53	All Other	1%		
	Customer Minutes	382,791				
	Customers Affected	532				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by trees during a storm			Complete	Sep-20	
	Repair damage caused by trees during a storm			Complete	Sep-20	
	On cycle tree trimming			To be Completed 2021	85%	
	Rank	Substation	Circuit	District	Customers	Outages
59	Blossburg	00310-63	Mansfield Pa	248	15	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.65	Equipment Failure	76%	3Q 2020	
	SAIDI	1,524.42	Wind	17%	1Q 2021	
	SAIFI	3.61	Unknown	3%		
	CAIDI	422.41	All Other	4%		
	Customer Minutes	378,056				
	Customers Affected	895				
	Remedial Action Planned or Taken			Status	Progress	
	Repair equipment failure			Complete	Jul-20	
	Repair damage caused by wind			Complete	Mar-21	
	Rank	Substation	Circuit	District	Customers	Outages
	60	Industrial Park	00796-65	Montrose	357	14
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		0.64	Ice	56%	2Q 2020	
SAIDI		1,046.10	Trees Off ROW-Tree	26%	3Q 2020	
SAIFI		3.95	Equipment Failure	8%	1Q 2021	
CAIDI		265.05	All Other	10%		
Customer Minutes		373,457				
Customers Affected		1,409				
Remedial Action Planned or Taken			Status	Progress		
Repair damage caused by ice			Complete	Apr-20		
Repair damage caused by trees during a storm			Complete	May-20		
Repair damage caused by ice			Complete	Jan-21		

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
61	Erie South	00259-31	Erie	2,419	75
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.64	Equipment Failure	40%	1Q 2021
	SAIDI	153.19	Trees Off ROW-Tree	17%	
	SAIFI	2.64	Forced Outage	12%	
	CAIDI	57.94	All Other	31%	
	Customer Minutes	370,557			
	Customers Affected	6,396			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Nov-20
	Repair damage caused by vehicle			Complete	Jan-21
	Rank	Substation	Circuit	District	Customers
62	Stoystown	00402-12	Somerset	319	10
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.64	Lightning	81%	3Q 2020
	SAIDI	1,160.60	Trees Off ROW-Tree	14%	4Q 2020
	SAIFI	3.02	Unknown	5%	1Q 2021
	CAIDI	384.86	All Other	0%	
	Customer Minutes	370,231			
	Customers Affected	962			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by lightning			Complete	Apr-20
	On cycle tree trimming			To be Completed 2021	0%

Penelec					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	2Q 2020	3Q 2020	4Q 2020	1Q 2021
Ansonia	00740-63	X	X		
Birmingham	00168-22	X	X	X	
Blairsville East	00082-13		X	X	
Church	00427-34		X	X	
Clearfield	00148-21		X	X	
Covington	00729-63	X	X		
Lake Como	00786-65	X	X		
Lake Como	00787-65	X	X		
Logan	00701-81	X	X		
Meyersdale North	00004-12	X	X		
Meyersdale North	00022-12	X	X	X	
Sabinsville Trans	00567-63	X	X		
Union City	00206-43	X	X	X	
Utica Junction	00331-51	X	X		
Waverly	00164-66	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
Birmingham	00168-22	Circuit inspection	To be Completed 2021	0%
Birmingham	00168-22	Install advanced Dx protective devices	To be Completed 2021	0%
Blairsville East	00082-13	On cycle tree clearing	Complete	Oct-20
Brookville West	00121-23	Repair damage caused by trees during a storm	Complete	Nov-20
Brookville West	00121-23	Repair equipment failure	Complete	Nov-20
Carlisle Pike	00643-83	Repair damage caused by an animal	Complete	Dec-20
Carlisle Pike	00643-83	On cycle tree clearing	Complete	Mar-21
Carlisle Pike	00643-83	Circuit inspection	To be Completed 2021	0%
Church	00427-34	On cycle tree clearing	To be Completed 2021	0%
Church	00427-34	Circuit inspection	To be Completed 2021	0%
Clearfield	00148-21	Install new radio controlled switch	Complete	Feb-21
Clearfield	00148-21	On cycle tree clearing	To be Completed 2021	28%
Curryville	00644-71	On cycle tree clearing	Complete	Dec-20
Farmers Valley	00125-42	Install advanced Dx protective devices	To be Completed 2021	0%
Hilltop	00040-11	Circuit inspection	To be Completed 2021	0%
Lake Como	00787-65	Install advanced Dx protective devices	Complete	Nov-20

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
Lowell Avenue	00518-31	Repair line failure	Complete	Dec-20
Lowell Avenue	00518-31	Circuit inspection	To be Completed 2021	0%
Marienville	00327-51	Repair damage caused by trees during a storm	Complete	Nov-20
Marienville	00327-51	Install new radio controlled recloser	To be Completed 2021	99%
McConnellstown	00099-82	Install advanced Dx protective devices	Complete	Nov-20
Milroy	00128-81	Install new radio controlled switch	Complete	Nov-20
New Albany SW Station	00526-62	On cycle tree clearing	Complete	Nov-20
Port Allegany	00151-42	On cycle tree clearing	Complete	Dec-20
Punxsutawney	00118-23	Repair line failure	Complete	Oct-20
Punxsutawney	00118-23	Repair damage caused by trees during a storm	Complete	Dec-20
Punxsutawney	00118-23	On cycle tree clearing	To be Completed 2021	0%
Somerser	00031-12	Restore breaker operation of unknown cause	Complete	Dec-20
Tiffany	00440-65	Targeted circuit rehab	To be Completed 2021	Oct-20
Union City	00206-43	Targeted circuit rehab	Complete	Oct-20
Union City	00206-43	Install new radio controlled switch	Complete	Dec-20
Union City	00206-43	Install advanced Dx protective devices	To be Completed 2021	0%
Utica Junction	00331-51	On cycle tree clearing	Complete	Dec-20
Utica Junction	00318-51	On cycle tree clearing	Complete	Dec-20
Warren 5th Avenue	00250-41	Repair damage caused by trees during a storm	Complete	Oct-20
Warren South	00219-41	Install advanced Dx protective devices	Complete	Nov-20
Waverly	00164-66	Repair damage caused by vehicle accident	Complete	Oct-20

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
1	Hartstown	W-126	Clark	2,190	83	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.7	Trees Off ROW-Tree	65%	1Q 2021	
	SAIDI	355	Equipment Failure	37%		
	SAIFI	1.10	Line Failure	33%		
	CAIDI	323	All Other	4%		
	Customer Minutes	777,330				
	Customers Affected	2,403				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by animal contact				Complete	Aug-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Repair line failure				Complete	Nov-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Rank	Substation	Circuit	District	Customers	Outages
2	Koppel	D-531	New Castle	971	33	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.2	Trees Off ROW-Tree	82%	4Q 2020	
	SAIDI	714	Line Failure	45%	1Q 2021	
	SAIFI	1.49	Equipment Failure	49%		
	CAIDI	480	All Other	-76%		
	Customer Minutes	693,425				
	Customers Affected	1,446				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Nov-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Rank	Substation	Circuit	District	Customers	Outages
	3	Grant Street	W421	New Castle	944	9
		Reliability		Outage by Cause		Previously Ranked
SAIDI Impact		3.9	Trees Off ROW-Tree	84%	2Q 2020	
SAIDI		676	Vehicle	9%	3Q 2020	
SAIFI		2.09	Unknown	4%	4Q 2020	
CAIDI		323	All Other	3%	1Q 2021	
Customer Minutes		637,994				
Customers Affected		1,976				
Remedial Action Planned or Taken				Status	Progress	
Repair damage caused by trees during a storm				Complete	Jun-20	
Repair damage caused by trees during a storm				Complete	Jul-20	
Restore fuse after operation from unknown cause				Complete	Dec-20	

Penn Power					
Rank					
4	Mercer	W-167	Clark	851	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.0	Trees Off ROW-Tree	91%	4Q 2020
	SAIDI	588	Animal	2%	1Q 2021
	SAIFI	1.71	Bird	2%	
	CAIDI	344	All Other	4%	
	Customer Minutes	500,491			
	Customers Affected	1,455			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by tree.			Complete	Sep-20
	Repair damage caused by trees during a storm			Complete	Nov-20
	Rank	Substation	Circuit	District	Customers
5	Hadley	W-195	Clark	891	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.9	Trees Off ROW-Tree	85%	1Q 2021
	SAIDI	532	Trees Off ROW-Limb	6%	
	SAIFI	1.19	Line Failure	3%	
	CAIDI	447	All Other	6%	
	Customer Minutes	473,844			
	Customers Affected	1,060			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jun-20
	Repair damage caused by tree.			Complete	Nov-20
	Repair line failure			Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages
6	Knox	D509	Zelienople	979	20
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.9	Trees Off ROW-Tree	91%	2Q 2020
	SAIDI	483	Trees Off ROW-Limb	6%	3Q 2020
	SAIFI	1.76	Equipment Failure	1%	4Q 2020
	CAIDI	274	All Other	2%	1Q 2021
	Customer Minutes	472,914			
	Customers Affected	1,727			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Jun-20
	Repair damage caused by trees			Complete	Jul-20

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
7	Camp Reynolds	W-134	Clark	1743	61	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.7	Trees Off ROW-Tree	75%	2Q 2020	
	SAIDI	257	Line Failure	12%	4Q 2020	
	SAIFI	1.34	Animal	4%	1Q 2021	
	CAIDI	192	All Other	9%		
	Customer Minutes	447,444				
	Customers Affected	2,335				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Jun-20
	Repair line failure				Complete	Oct-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Rank	Substation	Circuit	District	Customers	Outages
8	Conneaut	W-174	Clark	1168	32	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.7	Trees Off ROW-Tree	95%	1Q 2020	
	SAIDI	379	Animal	1%		
	SAIFI	1.59	Human Error -Non-Company	1%		
	CAIDI	238	All Other	3%		
	Customer Minutes	443,053				
	Customers Affected	1,860				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Jul-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Rank	Substation	Circuit	District	Customers	Outages
	9	Perry	W-156	Clark	1095	51
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		2.7	Trees Off ROW-Tree	56%	3Q 2020	
SAIDI		404	Line Failure	9%	4Q 2020	
SAIFI		2.00	Forced Outage	8%	1Q 2021	
CAIDI		202	All Other	28%		
Customer Minutes		442,100				
Customers Affected		2,186				
Remedial Action Planned or Taken				Status	Progress	
Repair damage caused by trees during a storm				Complete	Jun-20	
Repair damage from bird nest				Complete	Jul-20	
Restore switching needed for scheduled repairs				Complete	Jul-20	
Repair damage caused by trees during a storm				Complete	Nov-20	
Repair damage caused by trees during a storm				Complete	Nov-20	

Penn Power					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	2Q 2020	3Q 2020	4Q 2020	1Q 2021
BMF	W-760	X	X	X	
Darlington	D-536	X		X	
Enon Valley	D-545	X	X		
Seneca	W-700	X	X	X	

Penn Power				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned	Status of Remedial Work	Progress of Remedial Work
Seneca	W700	Pole was replaced and equipment repaired	Complete	Dec-20

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
1	Smithton	Fitzhenry	Charleroi	1,167	25
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.7	Trees off ROW	67%	Q2 2020
	SAIDI	1,664	Vehicle	15%	Q3 2020
	SAIFI	3.02	Line Failure	10%	Q4 2020
	CAIDI	552	All Other	8%	Q1 2021
	Customer Minutes	1,942,227			
	Customers Affected	3,519			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Apr-20
	Repair equipment failure during a storm			Complete	Apr-20
	Repair equipment failure			Complete	Sep-20
	Repair line failure			Complete	Dec-20
	Repair damage caused by a vehicle			Complete	Mar-21
	Zone 1 Infrared Inspection			To be completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
2	Driftwood	Driftwood	St. Marys	981	38
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.6	Trees off ROW	74%	Q2 2020
	SAIDI	1899	Equipment Failure	16%	Q3 2020
	SAIFI	2.99	Trees on ROW	4%	Q4 2020
	CAIDI	634	All Other	6%	Q1 2021
	Customer Minutes	1,863,369			
	Customers Affected	2,937			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Apr-20
	Repair damage caused by a tree during a storm			Complete	Apr-20
	Overhead circuit inspection			Complete	Apr-20
	Repair damage caused by a tree during a storm			Complete	Aug-20
	Repair equipment failure			Complete	Dec-20
	Repair damage caused by wind during a storm			Complete	Mar-21

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
3	Vandergrift	Grifflo Park	Arnold	2,728	57
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.4	Wind	44%	Q3 2020
	SAIDI	647	Unknown	15%	Q4 2020
	SAIFI	2.66	Trees off ROW	14%	Q1 2021
	CAIDI	243	All Other	27%	
	Customer Minutes	1,765,971			
	Customers Affected	7,255			
	Remedial Action Planned or Taken			Status	Progress
	Restore unknown outage during a storm			Complete	Aug-20
	Repair damage caused by wind during a storm			Complete	Aug-20
	Repair damage caused by a tree			Complete	Dec-20
	Repair damage caused by a tree during a storm			Complete	Mar-21
	On cycle tree trimming			To be completed 2021	52%
Rank	Substation	Circuit	District	Customers	Outages
4	Sardis	Mamont	Arnold	1069	6
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2	Trees off ROW	88%	Q4 2020
	SAIDI	1,375	Trees on ROW	12%	Q1 2021
	SAIFI	1.7	All Other	0%	
	CAIDI	808			
	Customer Minutes	1,469,552			
	Customers Affected	1,818			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Repair equipment failure during a storm			Complete	Mar-21
	Overhead circuit inspection			To be completed 2021	0%

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
5	Murrycrest	Sardis Road	Jeannette	1,486	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.9	Trees off ROW	76%	Q2 2020
	SAIDI	912	Trees on ROW	9%	Q3 2020
	SAIFI	7.6	Animal	7%	Q4 2020
	CAIDI	120	All Other	8%	Q1 2021
	Customer Minutes	1,354,791			
	Customers Affected	11,301			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Apr-20
	Repair damage caused by an animal			Complete	May-20
	Repair damage caused by a tree			Complete	Sep-20
	Repair damage caused by a tree during a storm			Complete	Dec-20
	Repair equipment failure			Complete	Mar-21
	On cycle tree trimming			To be completed 2021	75%
Rank	Substation	Circuit	District	Customers	Outages
6	Marvindale	Clermont	St. Marys	853	15
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.9	Trees off ROW	95%	Q2 2020
	SAIDI	1,570	Forced Outage	5%	Q3 2020
	SAIFI	3.58	All Other	0%	Q4 2020
	CAIDI	438			Q1 2021
	Customer Minutes	1,339,376			
	Customers Affected	3,058			
	Remedial Action Planned or Taken			Status	Progress
	Forced outage to repair damage during a storm			Complete	Jun-20
	Repair damage caused by a tree during a storm			Complete	Jun-20
	Repair damage caused by a tree			Complete	Jul-20
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Repair damage caused by a tree			Complete	Mar-21

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
7	Rutan	Bristoria	Jefferson	1137	89
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.8	Trees off ROW	62%	Q2 2020
	SAIDI	1,169	Line Failure	26%	Q3 2020
	SAIFI	2.16	Equipment Failure	8%	Q4 2020
	CAIDI	540	All Other	4%	Q1 2021
	Customer Minutes	1,329,059			
	Customers Affected	2,460			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	May-20
	Repair damage caused by a tree during a storm			Complete	Jul-20
	Repair equipment failure during a storm			Complete	Nov-20
	Repair line failure			Complete	Mar-21
	Rank	Substation	Circuit	District	Customers
8	Charleroi	Speers	Charleroi	1,428	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.8	Trees off ROW	79%	Q2 2020
	SAIDI	921	Line Failure	10%	Q3 2020
	SAIFI	4.8	Equipment Failure	6%	Q4 2020
	CAIDI	192	All Other	5%	Q1 2021
	Customer Minutes	1,315,705			
	Customers Affected	6,854			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jun-20
	Repair damage caused by a tree during a storm			Complete	Jun-20
	Repair damage caused by a tree during a storm			Complete	Jul-20
	Repair line failure during a storm			Complete	Nov-20
	Repair damage caused by a tree during a storm			Complete	Mar-21
On cycle tree trimming			To be completed 2021	1%	
Rank	Substation	Circuit	District	Customers	Outages
9	Shaffers Corner	Seventh St. Rd.	Arnold	1,648	21
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.8	Trees off ROW	95%	Q1 2021
	SAIDI	772	Forced Outage	2%	
	SAIFI	2.59	Trees on ROW	1%	
	CAIDI	298	All Other	2%	
	Customer Minutes	1,272,355			
	Customers Affected	4,274			
	Remedial Action Planned or Taken			Status	Progress
Forced outage to repair damage			Complete	Mar-21	

West Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
10	Lovedale	Township	Charleroi	1,636	38	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.7	Unknown	30%	Q2 2020	
	SAIDI	755	Object Contact with Line	25%	Q3 2020	
	SAIFI	1.83	Trees off ROW	20%	Q4 2020	
	CAIDI	413	All Other	25%	Q1 2021	
	Customer Minutes	1,234,487				
	Customers Affected	2,986				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by a tree during a storm			Complete	Apr-20	
	Restore unknown outage during a storm			Complete	Apr-20	
	Restore unknown outage			Complete	Jul-20	
	Overhead circuit inspection			Complete	Dec-20	
	Repair damage caused by a tree during a storm			Complete	Mar-21	
Rank	Substation	Circuit	District	Customers	Outages	
11	Frazier	Star Junction	Pleasant Valley	1,710	31	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.7	Vehicle	59%	Q4 2020	
	SAIDI	705	Trees off ROW	36%	Q1 2021	
	SAIFI	2.55	Equipment Failure	3%		
	CAIDI	276	All Other	2%		
	Customer Minutes	1,205,790				
	Customers Affected	4,364				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by a vehicle			Complete	Oct-20	
	Repair line failure			Complete	Jan-21	
	Rank	Substation	Circuit	District	Customers	Outages
	12	Weedville	Weedville	St. Marys	1,388	49
		Reliability		Outage by Cause		Previously Ranked
SAIDI Impact		1.7	Trees off ROW	85%	Q3 2020	
SAIDI		863	Human Error - Non-Company	9%	Q4 2020	
SAIFI		2.28	Unknown	2%	Q1 2021	
CAIDI		379	All Other	4%		
Customer Minutes		1,198,147				
Customers Affected		3,159				
Remedial Action Planned or Taken			Status	Progress		
Zone 1 Infrared Inspection			Complete	Jul-20		
Restore outage caused by human error non-company			Complete	Sep-20		
Repair damage caused by a tree during a storm			Complete	Nov-20		
Repair damage caused by a tree during a storm			Complete	Mar-21		

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
13	Avella	W Middletown	Washington	1154	47
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.5	Trees off ROW	49%	Q3 2020
	SAIDI	942	Equipment Failure	31%	Q4 2020
	SAIFI	2.08	Unknown	10%	Q1 2021
	CAIDI	453	All Other	10%	
	Customer Minutes	1,086,539			
	Customers Affected	2,401			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure during a storm			Complete	Jul-20
	Restore unknown outage during a storm			Complete	Nov-20
	Repair damage caused by a tree during a storm			Complete	Feb-21
	Overhead circuit inspection			To be completed 2021	99%
Rank	Substation	Circuit	District	Customers	Outages
14	Fayetteville	Keystone	Waynesboro	1514	41
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.5	Trees off ROW	60%	Q3 2020
	SAIDI	693	Trees on ROW	13%	Q4 2020
	SAIFI	2.08	Unknown	12%	Q1 2021
	CAIDI	332	All Other	15%	
	Customer Minutes	1,049,107			
	Customers Affected	3,156			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Jun-20
	Repair damage caused by a tree during a storm			Complete	Jul-20
	Restore unknown outage			Complete	Oct-20
	Repair equipment failure			Complete	Jan-21
Rank	Substation	Circuit	District	Customers	Outages
15	California	River	Charleroi	1,758	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Trees off ROW	79%	Q3 2020
	SAIDI	593	Unknown	10%	Q4 2020
	SAIFI	3.31	Equipment Failure	6%	Q1 2021
	CAIDI	179	All Other	5%	
	Customer Minutes	1,042,506			
	Customers Affected	5,827			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jul-20
	Repair equipment failure			Complete	Aug-20
	Repair damage caused by a tree			Complete	Dec-20
	Restore unknown outage			Complete	Mar-21

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
16	Smithton	Smithton	Charleroi	992	24
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Trees off ROW	80%	Q2 2020
	SAIDI	1,034	Line Failure	18%	Q3 2020
	SAIFI	2.36	Forced Outage	1%	Q4 2020
	CAIDI	438	All Other	1%	Q1 2021
	Customer Minutes	1,025,639			
	Customers Affected	2,341			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Apr-20
	Repair line failure			Complete	Jun-20
	Repair damage caused by a tree			Complete	Jul-20
	Repair line failure			Complete	Oct-20
	Forced outage to repair damage			Complete	Jan-21
Overhead circuit inspection			To be completed 2021	5%	
Rank	Substation	Circuit	District	Customers	Outages
17	Bethlen	Darlington	Latrobe	1,244	66
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Trees off ROW	79%	Q2 2020
	SAIDI	808	Wind	16%	Q3 2020
	SAIFI	2.52	Line Failure	2%	Q4 2020
	CAIDI	321	All Other	3%	Q1 2021
	Customer Minutes	1,005,128			
	Customers Affected	3,130			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by wind during a storm			Complete	Apr-20
	Repair damage caused by a tree during a storm			Complete	Jul-20
	Repair damage caused by a tree			Complete	Dec-20
	Repair damage caused by a tree			Complete	Mar-21
	On cycle tree trimming			To be completed 2021	1%

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
18	Piney Fork	Gillhall	Charleroi	2,198	15
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.3	Line Failure	39%	Q2 2020
	SAIDI	436	Trees off ROW	38%	Q3 2020
	SAIFI	2.47	Unknown	15%	Q4 2020
	CAIDI	177	All Other	8%	Q1 2021
	Customer Minutes	958,343			
	Customers Affected	5,423			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure during a storm			Complete	Apr-20
	Repair line failure during a storm			Complete	Apr-20
	On cycle tree trimming			Complete	Jun-20
	Repair damage caused by a tree during a storm			Complete	Aug-20
	Restore unknown outage			Complete	Oct-20
Repair damage caused by a tree during a storm			Complete	Feb-21	
Rank	Substation	Circuit	District	Customers	Outages
19	Belmon	Fayette City	Charleroi	1382	20
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees off ROW	53%	Q3 2020
	SAIDI	648	Equipment Failure	44%	Q1 2021
	SAIFI	1.98	Unknown	2%	
	CAIDI	327	All Other	1%	
	Customer Minutes	895,772			
	Customers Affected	2,742			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Jul-21
	Repair equipment failure during a storm			Complete	Aug-21
	Repair damage caused by a tree during a storm			Complete	Mar-21
	Overhead circuit inspection			Complete	Mar-21

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
20	McConnellsburg	South	McConnellsburg	622	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees off ROW	97%	Q3 2020
	SAIDI	1367	Equipment Failure	2%	Q1 2021
	SAIFI	1.48	All Other	1%	
	CAIDI	926			
	Customer Minutes	850,258			
	Customers Affected	918			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Apr-20
	Repair damage caused by a tree during a storm			Complete	Jul-20
	Repair damage caused by a tree during a storm			Complete	Mar-21
	Rank	Substation	Circuit	District	Customers
21	Smithton	Yukon	Charleroi	1298	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	74%	Q4 2020
	SAIDI	636	Line Failure	15%	Q1 2021
	SAIFI	1.68	Equipment Failure	10%	
	CAIDI	378	All Other	1%	
	Customer Minutes	825,964			
	Customers Affected	2,183			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Repair line failure during a storm			Complete	Dec-20
	Repair line failure			Complete	Feb-21
	Rank	Substation	Circuit	District	Customers
22	Mushroom	Mushroom	Kittanning	315	10
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	82%	Q3 2020
	SAIDI	2489	Line Failure	16%	Q4 2020
	SAIFI	3.3	Equipment Failure	2%	Q1 2021
	CAIDI	755	All Other	0%	
	Customer Minutes	784,001			
	Customers Affected	1,039			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-20
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Repair damage caused by a tree			Complete	Feb-21
	Overhead circuit inspection			To be completed 2021	0%

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
23	Amity	Amity	Washington	529	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	59%	Q3 2020
	SAIDI	1477	Unknown	24%	Q4 2020
	SAIFI	5.57	Line Failure	4%	Q1 2021
	CAIDI	265	All Other	13%	
	Customer Minutes	781,306			
	Customers Affected	2,946			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-20
	Repair damage caused by a tree during a storm			Complete	Nov-20
	On cycle tree trimming			Complete	Dec-20
	Repair damage caused by a tree			Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages
24	Robbins	Rillton	Jeannette	1,534	27
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	91%	Q4 2020
	SAIDI	509	Vehicle	4%	Q1 2021
	SAIFI	2.12	UG Dig-Up	1%	
	CAIDI	240	All Other	4%	
	Customer Minutes	780,131			
	Customers Affected	3,252			
	Remedial Action Planned or Taken			Status	Progress
	On cycle tree trimming			Complete	May-20
	Repair damage caused by a tree during a storm			Complete	Nov-20
Rank	Substation	Circuit	District	Customers	Outages
25	Smith	Francis Mine	Washington	1,434	49
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	56%	Q1 2021
	SAIDI	540	Line Failure	27%	
	SAIFI	1.89	Trees on ROW	6%	
	CAIDI	285	All Other	11%	
	Customer Minutes	774,908			
	Customers Affected	2,715			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Mar-21
On cycle tree trimming			To be completed 2021	43%	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
26	Houston	Weavertown	Washington	2,220	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	84%	Q1 2021
	SAIDI	348	Line Failure	10%	
	SAIFI	2.22	Unknown	2%	
	CAIDI	157	All Other	4%	
	Customer Minutes	773,322			
	Customers Affected	4,928			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Mar-21
	On cycle tree trimming			Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages
27	Kane	Russell City	St. Marys	703	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	79%	Q4 2020
	SAIDI	1081	Line Failure	17%	Q1 2021
	SAIFI	2.2	Unknown	2%	
	CAIDI	492	All Other	2%	
	Customer Minutes	760,220			
	Customers Affected	1,544			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Repair damage caused by a tree during a storm			Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages
28	Waterville	Waterville	State College	356	19
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Other Electric Utility	76%	Q2 2020
	SAIDI	2108	Trees off ROW	19%	Q3 2020
	SAIFI	6.85	Unknown	4%	Q4 2020
	CAIDI	308	All Other	1%	Q1 2021
	Customer Minutes	750,451			
	Customers Affected	2,440			
	Remedial Action Planned or Taken			Status	Progress
	Restore outage caused by other electric utility			Complete	Jun-20
	Restore outage caused by other electric utility			Complete	Jul-20
On cycle tree trimming			Complete	Nov-20	
Restore outage caused by other electric utility during a storm			Complete	Mar-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
29	Buckeye No. 3	Paisley	Jefferson	672	11
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Trees off ROW	96%	Q2 2020
	SAIDI	1089	Equipment Failure	1%	Q3 2020
	SAIFI	1.62	wind	1%	Q1 2021
	CAIDI	674	All Other	2%	
	Customer Minutes	732,038			
	Customers Affected	1,086			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jun-20
	Repair damage caused by a tree during a storm			Complete	Mar-21
	Overhead circuit inspection			To be completed 2021	4%
	Rank	Substation	Circuit	District	Customers
30	North Washington	Oklahoma	Arnold	1,776	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Trees off ROW	50%	Q4 2020
	SAIDI	403	Trees on ROW	26%	Q1 2021
	SAIFI	1.52	Unknown	21%	
	CAIDI	265	All Other	3%	
	Customer Minutes	715,553			
	Customers Affected	2,700			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Sep-20
	Restore unknown outage during a storm			Complete	Nov-20
	On cycle tree trimming			Complete	Nov-20
	Repair damage caused by a tree			Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages
31	Scottdale	Commercial	Pleasant Valley	1,700	27
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Vehicle	68%	Q1 2021
	SAIDI	418	Trees off ROW	12%	
	SAIFI	2.16	Trees on ROW	11%	
	CAIDI	193	All Other	9%	
	Customer Minutes	711,137			
	Customers Affected	3,680			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a vehicle			Complete	Jan-21

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
32	Thomas	Thomas	Boyce	1343	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Equipment Failure	46%	Q4 2020
	SAIDI	524	Wind	21%	Q1 2021
	SAIFI	2.74	Trees off ROW	19%	
	CAIDI	191	All Other	14%	
	Customer Minutes	703,908			
	Customers Affected	3,681			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by wind during a storm			Complete	Nov-20
	Repair damage caused by a tree during a storm			Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages
33	King Farm	Ruffsdale	Pleasant Valley	1104	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees off ROW	67%	Q1 2021
	SAIDI	595	Line Failure	25%	
	SAIFI	3.09	Unknown	3%	
	CAIDI	192	All Other	5%	
	Customer Minutes	656,536			
	Customers Affected	3,416			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Feb-21
Rank	Substation	Circuit	District	Customers	Outages
34	Franklin	Rogersville	Jefferson	835	59
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees off ROW	79%	Q2 2020
	SAIDI	778	Unknown	16%	Q3 2020
	SAIFI	3.1	Line Failure	3%	Q4 2020
	CAIDI	251	All Other	2%	Q1 2021
	Customer Minutes	649,817			
	Customers Affected	2,586			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Apr-20
	Zone 1 Infrared Inspection			Complete	Jul-20
	Restore unknown outage			Complete	Sep-20
Repair damage caused by a tree			Complete	Oct-20	
Restore unknown outage during a storm			Complete	Mar-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
35	Branchton	Forestville	Butler	1,149	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees off ROW	71%	Q4 2020
	SAIDI	564	Wind	14%	Q1 2021
	SAIFI	2.51	Line Failure	9%	
	CAIDI	225	All Other	6%	
	Customer Minutes	647,867			
	Customers Affected	2,882			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Repair damage caused by a tree			Complete	Jan-21
	Rank	Substation	Circuit	District	Customers
36	Lagonda	Taylorstown	Washington	610	43
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees off ROW	52%	Q4 2020
	SAIDI	1062	Equipment Failure	16%	Q1 2021
	SAIFI	3.6	Unknown	14%	
	CAIDI	295	All Other	18%	
	Customer Minutes	647,709			
	Customers Affected	2,199			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Jul-20
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Restore unknown outage			Complete	Jan-21
Rank	Substation	Circuit	District	Customers	Outages
37	Portersville	Portersville	Butler	978	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees off ROW	88%	Q3 2020
	SAIDI	659	Line Failure	4%	Q1 2021
	SAIFI	1.51	Wind	4%	
	CAIDI	435	All Other	4%	
	Customer Minutes	644,427			
	Customers Affected	1,480			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-20
	Repair damage caused by a tree during a storm			Complete	Feb-21
	Zone 1 Infrared Inspection			To be completed 2021	0%

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
38	Roundhill	Roundhill	Charleroi	974	34
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees off ROW	93%	Q4 2020
	SAIDI	661	Line Failure	3%	Q1 2021
	SAIFI	1.78	Vehicle	2%	
	CAIDI	371	All Other	2%	
	Customer Minutes	643,397			
	Customers Affected	1,733			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Jul-20
	Repair damage caused by a tree during a storm			Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages
39	New Bethlehem	Clarion Rd.	Clarion	1406	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees off ROW	54%	Q1 2021
	SAIDI	443	Line Failure	29%	
	SAIFI	2.27	Equipment Failure	12%	
	CAIDI	195	All Other	5%	
	Customer Minutes	622,525			
	Customers Affected	3,185			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a vehicle during a storm			Complete	Jan-21
	Repair damage caused by a tree			Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages
40	Karns City	Kaylor	Butler	1156	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees off ROW	51%	Q3 2020
	SAIDI	535	Unknown	46%	Q4 2020
	SAIFI	2.25	Forced Outage	1%	Q1 2021
	CAIDI	238	All Other	2%	
	Customer Minutes	618,174			
	Customers Affected	2,602			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jul-20
	Restore unknown outage during a storm			Complete	Aug-20
Repair damage caused by a tree during a storm			Complete	Nov-20	
Repair damage caused by a tree during a storm			Complete	Mar-21	
Zone 1 Infrared Inspection			To be completed 2021	0%	

West Penn					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	2Q 2020	3Q 2020	4Q 2020	1Q 2021
Amity	Banetown	X	X	X	
Butler	Center Ave	X	X		
Dutch Fork	Claysville	X	X	X	
Enlow	Summit	X	X	X	
Finleyville	Finleyville	X	X		
Hilliards	Hilliards	X	X	X	
Monongahela	Park Ave		X	X	
Murrycrest	Christy Road	X	X		
Piney Fork	Cochran Mill	X	X		
Piney Fork	Stoltz	X	X		
Pittsburgh Mills	Tawny Run	X	X		
Purcell	Artemas	X	X		
Smith	Florence	X	X		
Westraver	Pittsburgh Coal	X	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
West Penn has no unranked circuits with remedial actions scheduled to be or recently completed.				

Pursuant to Docket Nos. D-2014-2365991, D-2014-2365992, D-2014-2365993, and D-2014-2365994, (Appendix A)(3): The 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			
1st Quarter 2021 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	37	33,240	8,015
Excavated in Tolerance	81	462,407	234,575
Excavation Inconsistent with Ticket Scope	40	51,513	47,915
Excavation Prior to Lawful Start Date	7	26,056	3,656
Expired Ticket	27	66,089	53,668
Hand Digging	9	64,722	63,222
Marked Improperly	48	569,485	228,631
No Ticket	118	165,776	98,667
Total	367	1,439,288	738,349

Penelec – Third Party Line Hit Incidents			
1st Quarter 2021 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	53	2,548	790
Excavated in Tolerance	129	142,020	65,046
Excavation Inconsistent with Ticket Scope	11	41,113	27,989
Excavation Prior to Lawful Start Date	11	3,487	2,416
Expired Ticket	9	5,153	4,877
Hand Digging	9	15,682	5,775
Marked Improperly	108	236,279	75,215
No Ticket	159	270,005	167,112
Total	489	716,287	349,220

Penn Power – Third Party Line Hit Incidents			
1st Quarter 2021 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	13	25,581	891
Excavated in Tolerance	45	17,809	7,538
Excavation Inconsistent with Ticket Scope	9	7,458	0
Excavation Prior to Lawful Start Date	6	16,704	3,114
Expired Ticket	17	18,963	15,459
Hand Digging	0	0	0
Marked Improperly	12	40,968	6,312
No Ticket	66	58,303	39,054
Total	168	185,786	72,368

West Penn – Third Party Line Hit Incidents			
1st Quarter 2021 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	113	144,677	34,182
Excavated in Tolerance	15	20,109	0
Excavation Inconsistent with Ticket Scope	15	38,020	23,310
Excavation Prior to Lawful Start Date	5	9,540	0
Expired Ticket	22	57,654	41,850
Hand Digging	16	11,052	10,788
Marked Improperly	76	256,667	105,575
No Ticket	140	348,546	247,784
Total	402	886,265	463,489

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

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Joint 1st Quarter 2021 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).

Service by electronic mail, as follows:

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West Penn Power Company

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