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February 1, 2022

VIA E-FILING

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

Re: Joint 3rd Quarter 2021 Reliability Report – Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company – Public Version – Updated Report; 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”) is the updated 3rd Quarter 2021 Reliability Report – Public Version (“Joint Report”), which now reflects the approval of the Companies’ 3rd Quarter major events. Below is a list of pages which have been updated:

- Page 2: Major Event Table
- Page 3: Reliability Table
- Page 11: Outage by Cause
- Pages 35-37: WPC Rank Table
- Pages 58-81: WPC Detail Section

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)
Harry Bidelspach – Bureau of Technical Utility Services (via electronic mail)



Joint 2021 3rd 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 3rd 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
Penelec	61,821	Duration	105 hours 11 minutes	Thunderstorms	Approved December 28, 2021
		Start Date/Time	7/6/21 1229		
		End Date/Time	7/10/21 2140		
Met-Ed	61,317	Duration	113 hours 19 minutes	Hurricane Ida	Approved October 21, 2021
		Start Date/Time	9/1/21 0724		
		End Date/Time	9/6/21 0043		

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

3Q 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	1.34	1.26	1.52	1.78	1.12	1.34	0.96	1.05	1.26	1.32
CAIDI	117	140	178	117	141	145	101	121	166	170	204	203
SAIDI	135	194	237	148	213	260	113	162	159	179	257	268
MAIFI²			0.604			0.697			0.502			
Customers Served³	572,926			580,436			166,334			722,128		
Number of Sustained Interruptions	12,578			13,724			3,286			12,943		
Customers Affected	765,437			1,035,879			159,529			951,019		
Customer Minutes	135,947,254			150,611,319			26,471,981			193,476,353		
Number of Customer Momentary Interruptions	346,083			404,427			83,612					

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 3Q 2021:

Met-Ed

- Beginning Tuesday morning, July 6, 2021, warm temperatures and an abnormally humid airmass ahead of a stalled cold front brought widespread and severe thunderstorm activity across Pennsylvania. Storm activity continued to affect the area throughout the restoration activities during the event. Met-Ed experienced sustained high winds with maximum winds gusts of 50 to 60 miles per hour. The reliability impact of the storm was 20.1 minutes of System Average Interruption Duration Index (“SAIDI”), 0.06 of System Average Interruption Frequency Index (“SAIFI”), and an overall storm Customer Average Interruption Duration Index (“CAIDI”) of 333.9 minutes.
- Late Wednesday afternoon, July 28, 2021, an isolated strong storm developed ahead of a cold front that moved across Pennsylvania, including the Met-Ed service territory. Although not confirmed, due to the type and extent of the damage, it is believed that this storm also contained a microburst. The reliability impact of the storm was 5.6 minutes of SAIDI, 0.02 of SAIFI, and an overall storm CAIDI of 326.2 minutes
- Beginning Tuesday afternoon, August 10 through Saturday, August 14, hot and humid temperatures brought continual thunderstorm activity across Pennsylvania including the Met-Ed service territory. Storm activity continued to impact the area throughout the restoration activities during the event. Wind gusts in the Met-Ed service territory reached nearly 60-miles per hour on August 10 and 11, 2021 and nearly 50-miles per hour on August 13, 2021. The reliability impact of the storm was 14.9 minutes of SAIDI, 0.06 of SAIFI, and an overall storm CAIDI of 260.5 minutes.
- Beginning early morning on Wednesday, September 1, remnants of Hurricane Ida brought heavy rain and damaging winds across Pennsylvania including the Met-Ed service territory. On Wednesday, September 1, 2021, periods of heavy rain in the Met-Ed service territory accumulated up to 8 inches resulting in saturated ground and localized flooding. In addition, wind gusts were in excess of 40-miles per hour. The reliability impact of the storm was 52.8 minutes of SAIDI, 0.11 of SAIFI, and an overall storm CAIDI of 636.3 minutes.

Penelec

- Beginning Tuesday morning, July 6, 2021, warm temperatures and an abnormally humid airmass ahead of a stalled cold front brought widespread and severe thunderstorm activity across Pennsylvania. Storm activity continued to affect the area throughout the restoration activities during the event. Penelec experienced sustained high winds with maximum wind gusts in excess of 90-miles per hour. The reliability impact of the storm was 39.2 minutes of SAIDI, 0.11 of SAIFI, and an overall storm CAIDI of 368.0 minutes.
- Beginning Sunday afternoon on July 11, 2021, and continuing into the late evening, strong thunderstorms passed through the Penelec service territory producing heavy rain and wind gusts

in excess of 50-miles per hour. The reliability impact of the storm was 7 minutes of SAIDI, 0.03 of SAIFI, and an overall storm CAIDI of 234 minutes.

- Beginning Monday afternoon, July 12, 2021, a storm front began to move through Pennsylvania, including the Penelec service territory. This front brought scattered storm systems which produced periods of heavy rain, wind, and lightning with maximum wind gusts up to 48-miles per hour in some areas. The reliability impact of the storm was 12.9 minutes of SAIDI, 0.07 of SAIFI, and an overall storm CAIDI of 177.7 minutes.
- Beginning Friday afternoon, July 16, 2021, and continuing into the evening of Saturday, July 17, strong thunderstorms passed through the Penelec service territory. Storm impacts continued to affect the area throughout the restoration activities during the event. Penelec experienced heavy rain, lightning and wind gusts in excess of 40-miles per hour. The reliability impact of the storm was 6.7 minutes of SAIDI, 0.04 of SAIFI, and an overall storm CAIDI of 172.1 minutes.
- Beginning Wednesday afternoon, August 11 through Friday, August 14, 2021, hot and humid temperatures brought continual thunderstorm activity across Pennsylvania including the Penelec service territory. Storm activity continued to affect the area throughout the restoration activities during the event. Wind gusts in the Penelec service territory reached nearly 50-miles per hour on August 11, 2021 and nearly 60-miles per hour on August 12, 2021. The reliability impact of the storm was 12.3 minutes of SAIDI, 0.05 of SAIFI, and an overall storm CAIDI of 241.9 minutes.
- Beginning Sunday morning, August 29, 2021, and continuing through early Monday evening, August 30, 2021, thunderstorms moved through western Pennsylvania, including the Penelec service territory. The thunderstorms produced rain, lightning, and winds with maximum gusts in excess of 35-miles per hour. The reliability impact of the storm was 4.8 minutes of SAIDI, 0.02 of SAIFI, and an overall storm CAIDI of 272.14 minutes.

West Penn

- Beginning Tuesday afternoon, June 29, 2021, warm temperatures and moisture ahead of a slow-moving cold front brought thunderstorm activity across the State on June 29 and 30. However, initial impacts to West Penn from the thunderstorms began on June 30. The cold front passed through the service territory on July 1, triggering additional thunderstorms. The front formed a storm system which produced sustained high winds with maximum winds gusts in excess of 60-miles per hour. The reliability impact of the storm was 9.2 minutes of SAIDI, 0.04 of SAIFI, and an overall storm CAIDI of 222.1 minutes.
- Beginning Tuesday morning, July 6, 2021, warm temperatures and an abnormally humid airmass ahead of a stalled cold front brought widespread and severe thunderstorm activity across Pennsylvania. However, initial impacts to West Penn began on July 7. West Penn experienced sustained high winds with maximum wind gusts in excess of 64-miles per hour. The reliability impact of the storm was 15.3 minutes of SAIDI, 0.06 of SAIFI, and an overall storm CAIDI of 278.3 minutes.
- Beginning Friday afternoon, July 16, 2021, and continuing into the evening of Saturday July 17, strong thunderstorms passed through the West Penn service territory. West Penn experienced heavy rain and wind gusts in excess of 40-miles per hour. The reliability impact of the storm was 6.9 minutes of SAIDI, 0.03 of SAIFI, and an overall storm CAIDI of 235.3 minutes.
- Beginning Wednesday afternoon, August 11, 2021, hot and humid temperatures brought continual thunderstorm activity across Pennsylvania including the West Penn service territory. West Penn experienced sustained high winds with maximum wind gusts in excess of 60-miles per hour, lightning and periods of heavy rain accumulating up to three inches. The reliability impact of the storm was 42.4 minutes of SAIDI, 0.12 of SAIFI, and an overall storm CAIDI of 364.3 minutes.
- Beginning in the early morning hours of Wednesday September 1, 2021, the remnants of Hurricane Ida impacted the West Penn service territory. West Penn experienced sustained winds with maximum wind gusts in excess of 36-miles per hour and periods of heavy rain accumulating up to six inches. The reliability impact of the storm was 5.3 minutes of SAIDI, 0.03 of SAIFI, and an overall storm CAIDI of 198.7 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				
3rd Quarter 2021 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	72,451,884	3,357	238,711	53.29%
Equipment failure	21,134,419	2,627	171,195	15.55%
Unknown	7,097,917	1,265	55,315	5.22%
Vehicle	6,411,055	320	39,506	4.72%
Trees off ROW - limb	5,449,949	575	27,611	4.01%
Line failure	5,046,993	725	34,476	3.71%
Forced outage	4,392,004	481	75,388	3.23%
Lightning	3,586,140	304	18,782	2.64%
Animal	2,429,640	1,121	24,873	1.79%
Wind	1,825,780	151	9,791	1.34%
Human error - company	1,340,921	62	42,900	0.99%
Object contact with line	1,209,916	64	5,472	0.89%
Trees - sec/service	1,048,406	583	1,979	0.77%
Trees on ROW	961,278	117	3,107	0.71%
Human error - non-company	465,602	52	2,949	0.34%
Overload	381,046	44	7,352	0.28%
Bird	350,315	593	3,889	0.26%
Previous lightning	93,664	21	343	0.07%
Ice	89,700	17	145	0.07%
Other electric utility	53,788	6	544	0.04%
UG dig-up	50,306	27	231	0.04%
Customer equipment	25,144	43	155	0.02%
Fire	18,758	9	60	0.01%
Other utility - non-electric	17,543	7	512	0.01%
Contamination	14,355	1	145	0.01%
Vandalism	731	6	6	0.00%
Total	135,947,254	12,578	765,437	100%

Proposed Solutions – Met-Ed

Met-Ed analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending September 30, 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				
3rd Quarter 2021 12-Month Rolling	Penelec			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	61,743,719	2,217	291,126	41.00%
Equipment failure	28,959,629	2,520	240,116	19.23%
Line failure	10,589,587	1,402	84,179	7.03%
Forced outage	8,925,232	1,189	75,392	5.93%
Unknown	8,147,323	1,687	113,165	5.41%
Trees off ROW - limb	6,461,699	391	38,837	4.29%
Lightning	5,572,621	673	43,329	3.70%
Vehicle	4,900,079	326	35,750	3.25%
Animal	3,040,614	1,193	31,036	2.02%
Other electric utility	2,770,664	143	17,814	1.84%
Wind	2,714,763	203	10,727	1.80%
Ice	1,920,015	108	5,563	1.27%
Trees - sec/service	939,312	790	3,202	0.62%
Bird	907,552	475	11,329	0.60%
Human error - non-company	900,227	86	6,183	0.60%
Human error - company	585,503	45	13,581	0.39%
Trees on ROW	445,156	63	1,406	0.30%
UG dig-up	347,718	49	1,370	0.23%
Overload	296,200	19	2,687	0.20%
Customer equipment	151,496	22	5,216	0.10%
Object contact with line	109,175	36	588	0.07%
Switching Error	92,779	5	2,764	0.06%
Previous lightning	26,886	10	32	0.02%
Contamination	21,552	41	226	0.01%
Fire	18,568	12	142	0.01%
Other utility - non-electric	13,580	5	48	0.01%
Vandalism	9,670	14	71	0.01%
Total	150,611,319	13,724	1,035,879	100%

Proposed Solutions – Penelec

Penelec analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending September 30, 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. In response to damage caused by the Emerald Ash Borer, a program to proactively remove ash trees off rights-of-way was completed in 2019. Beyond 2019, any additional ash trees are addressed under Penelec's hazardous tree maintenance process.

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

Outages by Cause – Penn Power

Outage by Cause				
3rd Quarter 2021 12-Month Rolling	Penn Power			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	17,228,636	906	67,371	65.08%
Line failure	1,616,309	260	8,929	6.11%
Equipment failure	1,532,774	300	14,196	5.79%
Lightning	1,464,694	314	9,183	5.53%
Trees off ROW - limb	1,140,038	189	7,548	4.31%
Vehicle	1,048,947	82	5,785	3.96%
Unknown	587,749	137	11,027	2.22%
Animal	531,234	414	7,335	2.01%
Bird	336,593	385	3,647	1.27%
Human error - company	276,766	29	17,185	1.05%
Forced outage	276,515	77	4,760	1.04%
Trees - sec/service	194,246	141	443	0.73%
Human error - non-company	127,638	17	1,105	0.48%
Object contact with line	35,453	8	310	0.13%
Overload	33,032	3	386	0.12%
Ice	18,069	2	27	0.07%
UG dig-up	14,533	8	178	0.05%
Trees on ROW	7,694	4	104	0.03%
Previous lightning	776	7	7	0.00%
Customer equipment	181	2	2	0.00%
Vandalism	104	1	1	0.00%
Total	26,471,981	3,286	159,529	100%

Proposed Solutions – Penn Power

Penn Power analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending September 30, 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				
3rd Quarter 2021 12-Month Rolling	West Penn			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	98,494,515	3,622	317,925	50.91%
Unknown	19,062,100	1,639	114,260	9.85%
Equipment failure	18,404,685	1,906	128,092	9.51%
Line failure	16,315,721	1,280	92,739	8.43%
Vehicle	10,024,220	325	63,572	5.18%
Trees on ROW	9,767,882	529	40,634	5.05%
Forced outage	5,934,936	620	72,135	3.07%
Trees off ROW - limb	4,712,833	280	35,736	2.44%
Wind	3,220,618	165	12,361	1.66%
Animal	1,771,515	1,231	27,115	0.92%
Human error - non-company	1,279,054	61	6,789	0.66%
Lightning	1,210,340	218	5,574	0.63%
Bird	717,068	431	8,424	0.37%
Other electric utility	680,950	20	2,584	0.35%
Trees - sec/service	516,687	472	832	0.27%
Human error - company	397,134	46	14,471	0.21%
Ice	298,888	14	1,196	0.15%
Overload	254,615	10	3,938	0.13%
Object contact with line	154,539	17	1,094	0.08%
Fire	150,388	6	893	0.08%
UG dig-up	48,340	26	369	0.02%
Customer equipment	46,229	14	258	0.02%
Other utility - non-electric	12,274	4	21	0.01%
Contamination	414	2	2	0.00%
Vandalism	228	3	3	0.00%
Previous Lightning	180	2	2	0.00%
Total	193,476,353	12,943	951,019	100%

Proposed Solutions – West Penn

West Penn analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending September 30, 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		Met-Ed			Penelec			Penn Power			West Penn		
2021		Planned	Completed		Planned	Completed		Planned	Completed		Planned	Completed	
		Annual	3Q	YTD	Annual	3Q	YTD	Annual	3Q	YTD	Annual	3Q	YTD
Forestry	Transmission (Miles)	288.35	47.85	219.57	485.79	103.63	422.6	137.78	46.27	136.05	167.08	5.22	132.97
	Distribution (Miles)	2,925	631	2,050	3,703	800	2,614	1,162	321	828	4,675	1,080	3,339
Transmission	Aerial Patrols	2	0	1	2	0	1	2	0	1	2	0	1
	Groundline	1,167	149	183	3,049	1,232	1,931	484	67	355	2,072	1,011	2,128
Substation	Substation Inspections Class A	418	209	418	784	392	784	148	74	148	950	473	950
	Substation Inspections Class B	418	0	209	784	0	392	148	0	74	950	3	480
	Substation Inspections Class C	1,672	418	1,254	3,136	784	2,352	592	148	444	3,800	951	2,861
	Transformers	148	30	134	419	73	412	14	2	2	347	74	335
	Breakers	78	18	58	433	68	418	9	1	6	388	152	337
	Relay Schemes	276	42	194	259	70	214	22	6	14	106	59	95
Distribution	Capacitors	4,767	0	4,777	8,667	0	8,667	984	0	1,011	1,312	0	1,312
	Poles	28,001	11,317	18,753	41,584	14,731	20,443	10,960	5,829	5,829	49,815	11,435	17,640
	Reclosers	1,200	75	1,300	2,586	2,592	2,592	966	0	969	4,020	0	4,020
	Radio-Controlled Switches	1,308	234	888	2,646	592	1,920	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	49	50				2			1	
	Line Troubleshooter	35	35	35								
	Lineman	140	161	159				37			39	
Substation	Substation Leader	14	15	16				2			1	
	Substation Employee	67	74	69				16	1		20	
Transmission	Line Leader	2	2	2								
	Lineman	10	9	9				4			4	
Total		316	345	340				61	1		65	

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

⁹ Includes transfers and promotions.

¹⁰ Includes transfers, voluntary separations, and promotions.

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

Penelec 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	63	61					1		1	
	Line Troubleshooter	70	68	69				3	1		1	
	Lineman	142	163	158				29			34	
Substation	Substation Leader	29	27	25							2	
	Substation Employee	45	50	52				8			6	
Transmission	Line Leader	4	4	4								
	Lineman	18	18	19				1				
	Total	371	393	388				41	2		44	

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	25	25								
	Line Troubleshooter	9	9	9								
	Lineman	42	45	45				4		4		
Substation	Substation Leader	5	5	5								
	Substation Employee	18	19	19								
Transmission	Line Leader	1	1	1								
	Lineman	5	5	5								
Total		105	109	109				4		4		

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

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

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

West Penn 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	65	65								
	Line Troubleshooter	59	60	58				1	1		2	
	Lineman	133	152	152								
Substation	Substation Leader	22	22	21					1			
	Substation Employee	74	81	78				5	2		6	
Transmission	Line Leader	2	2	2								
	Lineman	8	7	8				1				
Total		361	389	384				7	4		8	

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

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

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

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

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

Contractor Expenditures

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

This portion of the report is confidential.

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

Call-out Acceptance Rate

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

This portion of the report is confidential.

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 on-duty DCC person or Customer Operations Center person, or both, will then initiate the call-out process until desired staffing levels required to complete the restoration have been achieved.

The number of unique workers called for an outage event is recorded and represents the total calls, or opportunities, for an outage event. The number of unique workers who accept the opportunity is recorded and represents the workers accepting. The elapsed time is calculated by taking the date and time of the first employee called for an event minus the date and time of the last accepting employee for that event. The call-out results from all outages experienced during a particular month are added together to derive a total value for each field.

During the Covid-19 pandemic, crews had been placed in work pods to limit employees’ potential exposure. Each pod ranged between three and eight crew members. For an event, the entire pod team was called making every effort to keep pod members together without mixing different pod teams. Met-Ed discontinued this process change in July 2021.

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	3,266	165	1	3,139,329	7,412	5.48	961.22	2.27	423.55	0.129
2	Bushkill Falls	00698-3	Stroudsburg	1,756	22	3	2,193,758	5,346	3.83	1,249.29	3.04	410.36	0.000
3	Shawnee Sub	00895-3	Stroudsburg	4,010	81	1	2,028,418	6,372	3.54	505.84	1.59	318.33	0.285
4	Lynnville Sub	00737-1	Hamburg	1,075	150	0	1,699,453	3,687	2.97	1,580.89	3.43	460.93	1.002
5	Snydersville Sub	00621-3	Stroudsburg	1,307	46	0	1,692,218	3,256	2.96	1,294.73	2.49	519.72	0.994
6	Shawnee Sub	00860-3	Stroudsburg	3,005	52	3	1,638,351	11,666	2.86	545.21	3.88	140.44	1.075
7	Mountain Substation	00744-4	Dillsburg	1,790	102	0	1,484,421	6,024	2.59	829.29	3.37	246.42	0.000
8	Huffs Church	00600-1	Boyertown	1,498	126	1	1,449,550	3,854	2.53	967.66	2.57	376.12	0.000
9	Orrtanna	00761-4	Gettysburg	486	19	2	1,336,764	1,751	2.33	2,750.54	3.60	763.43	3.992
10	Flying Hills Sub	00777-1	Reading	1,788	80	0	1,250,666	4,048	2.18	699.48	2.26	308.96	0.178
11	Violet Hill Sub	00527-4	York	1,236	26	6	1,242,899	7,591	2.17	1,005.58	6.14	163.73	0.223
12	Tolna Sub	00792-4	York	1,785	31	1	1,237,135	7,569	2.16	693.07	4.24	163.45	0.089
13	W Boyertown Sub	00715-1	Boyertown	1,694	68	4	1,158,321	9,324	2.02	683.78	5.50	124.23	0.997
14	Shawnee Sub	00822-3	Stroudsburg	3,113	46	3	1,132,247	5,887	1.98	363.72	1.89	192.33	0.939
15	Shawnee Sub	00899-3	Stroudsburg	1,719	56	2	1,092,795	4,075	1.91	635.72	2.37	268.17	3.710
16	Pleasantville	00142-1	Boyertown	818	79	1	1,051,236	3,531	1.84	1,285.13	4.32	297.72	0.000
17	Baldy Sub	00736-1	Reading	945	42	1	1,006,295	2,961	1.76	1,064.86	3.13	339.85	0.715
18	Carsonia Sub	00764-1	Reading	2,929	61	2	996,601	6,953	1.74	340.25	2.37	143.33	0.260
19	Cly	00721-4	York	823	53	0	975,071	1,942	1.70	1,184.78	2.36	502.10	0.000
20	No Bangor	00838-3	Easton	1,703	57	2	964,957	3,773	1.69	566.62	2.22	255.75	0.188
21	Collins Substation	00760-2	Lebanon	1,112	43	0	949,780	4,125	1.66	854.12	3.71	230.25	0.000
22	Snydersville Sub	00620-3	Stroudsburg	988	46	0	925,248	2,078	1.62	936.49	2.10	445.26	0.999
23	S Hamb Sub	00740-1	Hamburg	1,269	83	1	896,502	2,464	1.57	706.46	1.94	363.84	0.369
24	Grantley	00401-4	York	798	6	2	891,405	1,627	1.56	1,117.05	2.04	547.88	0.000
25	Mountain Substation	00742-4	Dillsburg	1,421	42	0	862,447	2,478	1.51	606.93	1.74	348.04	1.082
26	No Bangor	00813-3	Easton	1,326	40	0	848,495	2,548	1.48	639.89	1.92	333.00	0.000
27	Swatara Hill Sub	00763-2	Lebanon	1,535	57	1	832,888	4,331	1.45	542.60	2.82	192.31	5.004

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
28	Painted Sky	00650-1	Reading	1,783	17	2	814,440	3,849	1.42	456.78	2.16	211.60	0.998
29	Shawnee Sub	00837-3	Stroudsburg	1,259	39	0	810,083	2,276	1.41	643.43	1.81	355.92	2.446
30	Belfast Sub	00817-3	Easton	1,016	48	2	804,669	4,481	1.41	792.00	4.41	179.57	0.989
31	Adamstown	00755-1	Reading	1,440	39	1	793,447	3,591	1.39	551.00	2.49	220.95	0.000
32	North Cornwall Sub	00610-2	Lebanon	2,293	64	1	790,573	5,058	1.38	344.78	2.21	156.30	7.026
33	E Topton Sub	00727-1	Reading	1,476	45	2	771,352	4,125	1.35	522.60	2.79	186.99	0.800
34	Swatara Hill Sub	00765-2	Lebanon	591	37	0	751,192	1,252	1.31	1,271.05	2.12	599.99	5.186
35	Saylorsburg Sub	00114-3	Stroudsburg	691	35	0	739,613	1,582	1.29	1,070.35	2.29	467.52	0.000
36	Shawnee Sub	00815-3	Stroudsburg	1,297	33	1	713,483	2,221	1.25	550.10	1.71	321.24	0.000
37	North Lebanon	00712-2	Lebanon	2,575	62	3	690,452	8,268	1.21	268.14	3.21	83.51	7.014
38	Baldy Sub	00738-1	Reading	941	31	1	675,073	2,693	1.18	717.40	2.86	250.68	0.000
39	Grantley	00544-4	York	529	13	1	672,335	1,393	1.17	1,270.95	2.63	482.65	1.837

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Madera	00166-22	Philipsburg	1,574	59	2	3,457,122	7,936	5.96	2,196.39	5.04	435.63	1.619
2	Dubois	00137-23	Dubois	3,089	121	1	3,388,013	15,509	5.84	1,096.80	5.02	218.45	0.431
3	Grover	00527-63	Towanda	1,055	85	4	2,648,292	7,336	4.56	2,510.23	6.95	361.00	0.223
4	Saxton	00625-73	Altoona	1,075	35	0	1,885,803	3,987	3.25	1,754.24	3.71	472.99	0.118
5	Falls	00297-65	Montrose	757	30	0	1,736,257	2,783	2.99	2,293.60	3.68	623.88	9.588
6	Tiffany	00435-65	Montrose	1,377	58	8	1,633,687	7,221	2.82	1,186.41	5.24	226.24	4.229
7	Marienville	00328-51	Oil City	1,206	54	0	1,417,827	4,379	2.44	1,175.64	3.63	323.78	0.000
8	Russell Hill	00282-65	Montrose	1,007	72	1	1,320,614	3,114	2.28	1,311.43	3.09	424.09	0.000
9	Revloc	00069-72	Altoona	559	7	4	1,193,358	2,270	2.06	2,134.81	4.06	525.71	0.000
10	Piney	00523-51	Oil City	1,501	79	6	1,077,849	8,890	1.86	718.09	5.92	121.24	1.435
11	Union City	00206-43	Erie	2,862	102	0	1,048,368	8,072	1.81	366.31	2.82	129.88	0.703
12	Samuel Rea Car Shop	00031-71	Altoona	1,837	19	3	1,024,166	15,305	1.76	557.52	8.33	66.92	2.136
13	Madera	00165-22	Philipsburg	1,479	34	1	1,004,864	6,471	1.73	679.42	4.38	155.29	0.096
14	Rolling Meadows	00310-31	Erie	4,023	47	0	1,004,408	10,314	1.73	249.67	2.56	97.38	1.347
15	N Meshoppen Tran	00534-65	Montrose	831	74	0	978,521	2,043	1.69	1,177.52	2.46	478.96	0.057
16	Seward	00075-11	Johnstown	888	38	2	960,015	3,462	1.65	1,081.10	3.90	277.30	2.804
17	Philipsburg	00162-22	Philipsburg	2,715	66	0	917,994	7,825	1.58	338.12	2.88	117.32	2.493
18	Fallen Timbers	00995-22	Philipsburg	602	19	2	895,919	4,033	1.54	1,488.24	6.70	222.15	0.086
19	Warren South	00220-41	Warren	2,378	82	0	892,033	5,633	1.54	375.12	2.37	158.36	0.016
20	Springboro	00237-52	Meadville	2,757	82	0	822,843	7,276	1.42	298.46	2.64	113.09	0.058
21	Ppl West	PL097-62	Towanda	104	14	0	817,524	869	1.41	7,860.81	8.36	940.76	0.000
22	Tunkhannock	00533-65	Montrose	1,244	62	0	807,858	3,871	1.39	649.40	3.11	208.69	5.367
23	Crown	00519-51	Oil City	645	67	1	777,844	2,501	1.34	1,205.96	3.88	311.01	0.026
24	East Pike	00095-13	Indiana	3,254	34	1	748,910	5,869	1.29	230.15	1.80	127.60	0.000
25	Logan	00700-81	Lewistown	1,007	47	0	737,675	3,167	1.27	732.55	3.14	232.93	0.000
26	French Road	00219-31	Erie	1,484	13	0	727,602	2,700	1.25	490.30	1.82	269.48	0.061
27	Titusville	00514-51	Oil City	521	22	0	653,168	1,127	1.13	1,253.68	2.16	579.56	0.000
28	Wyalusing	00532-62	Towanda	743	61	4	651,932	4,317	1.12	877.43	5.81	151.02	1.036

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
29	Lake Como	00788-65	Montrose	591	38	6	635,870	2,222	1.10	1,075.92	3.76	286.17	1.078
30	Greenwood	00041-71	Altoona	1,213	16	0	626,788	2,112	1.08	516.73	1.74	296.77	0.000
31	Blairsville East	00080-13	Indiana	1,333	29	0	621,081	6,534	1.07	465.93	4.90	95.05	0.800
32	Wellsboro	00325-63	Mansfield Pa	310	9	3	618,491	1,643	1.07	1,995.13	5.30	376.44	4.106
33	Tower 51	00051-11	Johnstown	578	27	0	571,787	2,832	0.99	989.25	4.90	201.90	0.031
34	Natl Forge Sw Station	00577-41	Warren	1,104	53	0	569,735	3,823	0.98	516.06	3.46	149.03	1.793
35	Tionesta	00344-51	Oil City	517	20	0	561,488	996	0.97	1,086.05	1.93	563.74	0.000
36	Cranberry	00350-51	Oil City	1,073	26	1	534,759	2,293	0.92	498.38	2.14	233.21	0.000
37	Thompson	00446-65	Montrose	1,241	37	1	531,116	3,179	0.92	427.97	2.56	167.07	0.645
38	Meshoppen	00283-65	Montrose	387	16	0	529,841	881	0.91	1,369.10	2.28	601.41	2.845
39	N Meshoppen Tran	00531-65	Montrose	403	46	4	521,753	1,825	0.90	1,294.67	4.53	285.89	1.097
40	East Towanda	00525-62	Towanda	668	49	0	514,232	1,418	0.89	769.81	2.12	362.65	0.043
41	Thompson	00436-65	Montrose	1,367	58	2	511,125	2,572	0.88	373.90	1.88	198.73	0.007
42	Spangler	00052-72	Altoona	1,494	15	1	508,231	3,125	0.88	340.18	2.09	162.63	0.000
43	East Hickory	00200-41	Warren	477	30	3	500,846	1,496	0.86	1,049.99	3.14	334.79	5.421
44	Somerset	00013-12	Somerset	2,043	40	3	495,967	4,391	0.85	242.76	2.15	112.95	1.514
45	Logan	00701-81	Lewistown	1,373	25	0	491,341	2,447	0.85	357.86	1.78	200.79	0.082
46	Samuel Rea Car Shop	00032-71	Altoona	820	27	1	490,400	3,182	0.85	598.05	3.88	154.12	1.689
47	N Meshoppen Tran	00530-65	Montrose	495	31	0	490,214	2,211	0.84	990.33	4.47	221.72	1.818
48	Claysburg	00044-71	Altoona	1,193	29	0	484,800	2,414	0.84	406.37	2.02	200.83	0.000
49	Shawville	00151-21	Clearfield	2,249	34	2	480,598	7,753	0.83	213.69	3.45	61.99	0.107
50	Millcreek	00055-11	Johnstown	1,826	16	3	471,934	5,018	0.81	258.45	2.75	94.05	1.087
51	Brookville West	00121-23	Dubois	769	38	0	468,231	1,625	0.81	608.88	2.11	288.14	0.598
52	Erie South	00259-31	Erie	2,649	67	1	465,910	6,167	0.80	175.88	2.33	75.55	0.000
53	Tiffany	00440-65	Montrose	1,208	27	0	464,069	4,885	0.80	384.16	4.04	95.00	1.543
54	Punxsutawney	00118-23	Dubois	1,207	29	0	458,936	5,242	0.79	380.23	4.34	87.55	1.432
55	Punxsutawney	00117-23	Dubois	304	18	2	453,794	904	0.78	1,492.74	2.97	501.98	0.326
56	Glen Campbell	00680-21	Clearfield	440	34	3	442,377	3,116	0.76	1,005.40	7.08	141.97	5.068

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
57	Portage	00635-72	Altoona	193	9	0	436,168	518	0.75	2,259.94	2.68	842.02	0.000
58	North Towanda	00521-62	Towanda	973	56	1	428,264	2,380	0.74	440.15	2.45	179.94	1.008
59	Snakespring	00628-73	Altoona	1,019	39	4	426,213	2,117	0.73	418.27	2.08	201.33	0.907
60	North Orwell	00300-61	Towanda	367	17	1	422,094	1,232	0.73	1,150.12	3.36	342.61	0.000
61	Reeder Street	00039-11	Johnstown	1,697	22	4	418,206	4,105	0.72	246.44	2.42	101.88	1.095
62	Glory	00106-13	Indiana	265	22	1	409,302	1,006	0.71	1,544.54	3.80	406.86	2.102

Penn Power													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Camp Reynolds	W-134	Clark	1,744	86	0	1,101,738	2,768	6.62	631.73	1.59	398.03	0.000
2	Mcdowell	W-121	Clark	699	36	4	787,609	1,981	4.74	1,126.77	2.83	397.58	0.000
3	Ingomar	D620	Zelienople	1,268	16	2	739,199	3,766	4.44	582.96	2.97	196.28	0.000
4	Koppel	D-531	New Castle	975	31	0	630,399	1,248	3.79	646.56	1.28	505.13	0.000
5	Seneca	W700	Zelienople	1,014	41	1	600,798	2,773	3.61	592.50	2.73	216.66	0.000
6	Mercer	W-167	Clark	852	40	0	454,198	950	2.73	533.10	1.12	478.10	0.000
7	Chippewa	D-558	Zelienople	1,117	13	2	448,527	1,465	2.70	401.55	1.31	306.16	0.000
8	Richard	W745	Zelienople	639	20	1	447,252	2,666	2.69	699.92	4.17	167.76	0.000
9	Warrendale	D625	Zelienople	1,276	21	2	434,097	3,115	2.61	340.20	2.44	139.36	0.000

West Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
1	Avella	W Middletown	Washington Pa	1,056	85	0	3,503,826	7,333	4.9	3,318	6.94	478
2	Amity	Banetown	Washington Pa	1,479	79	4	2,778,969	7,602	3.8	1,879	5.14	366
3	Treveskyn	Treveskyn	Boyce	1,369	32	2	2,474,641	3,737	3.4	1,808	2.73	662
4	Rutan	Bristoria	Jefferson	1,130	102	0	2,107,254	3,229	2.9	1,865	2.86	653
5	Mcdonald	Noblestown	Boyce	1,832	37	1	1,803,697	3,628	2.5	985	1.98	497
6	Robbins	Balkan	Jeannette	1,694	16	4	1,564,696	5,877	2.2	924	3.47	266
7	Karns City	Kaylor	Butler	1,155	40	0	1,510,379	3,116	2.1	1,308	2.70	485
8	Sardis	Mamont	Arnold	1,070	8	2	1,471,600	1,824	2.0	1,375	1.70	807
9	Piney Fork	Gillhall	Charleroi	2,182	18	1	1,436,056	6,190	2.0	658	2.84	232
10	Vandergrift	Grifflo Park	Arnold	2,735	58	1	1,408,093	6,674	2.0	515	2.44	211
11	Thomas	Thomas	Boyce	1,346	56	2	1,403,427	5,192	1.9	1,043	3.86	270
12	Waterville	Waterville	State College	357	36	0	1,371,326	4,348	1.9	3,841	12.18	315
13	Flintstone	Chaneyville	Hyndman	576	35	3	1,219,324	3,030	1.7	2,117	5.26	402
14	Cecil	Murray Hill	Boyce	1,791	23	2	1,200,303	4,348	1.7	670	2.43	276
15	Bethel Park	Dashwood	Boyce	2,161	22	1	1,178,314	4,312	1.6	545	2.00	273
16	Dutch Fork	Claysville	Washington Pa	1,582	72	0	1,146,128	3,367	1.6	724	2.13	340
17	Avella	Penowa	Washington Pa	629	66	0	1,143,691	2,186	1.6	1,818	3.48	523
18	Bentleyville	Ellsworth	Charleroi	1,264	35	1	1,138,171	3,035	1.6	900	2.40	375
19	Gordon	Wolfdale	Washington Pa	2,088	62	1	1,029,007	4,303	1.4	493	2.06	239
20	Driftwood	Driftwood	St Marys	898	31	1	993,767	2,093	1.4	1,107	2.33	475
21	East Butler	East Butler	Butler	550	9	1	957,132	1,112	1.3	1,740	2.02	861
22	Crossgates	Robinhood	Boyce	1,090	26	0	956,186	2,836	1.3	877	2.60	337
23	Frazier	Star Junction	Pleasant Valley	1,713	19	4	944,597	5,630	1.3	551	3.29	168
24	Port Matilda	Port Matilda	State College	1,441	60	3	941,691	4,027	1.3	653	2.79	234
25	Smith	Francis Mine	Washington Pa	1,436	60	1	933,033	4,428	1.3	650	3.08	211
26	Pangburn Hill	Pangburn Hill	Charleroi	751	26	2	920,834	2,365	1.3	1,226	3.15	389
27	Weedville	Weedville	St Marys	1,431	45	0	856,816	4,297	1.2	599	3.00	199
28	Shingletown	Windmill Rd	State College	1,067	19	3	833,092	4,287	1.2	781	4.02	194

West Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
29	Dry Run	Town	Charleroi	1,814	16	4	829,298	6,133	1.1	457	3.38	135
30	Marvindale	Clermont	St Marys	857	20	0	828,602	1,668	1.1	967	1.95	497
31	Robbins	Rillton	Jeannette	1,537	22	1	827,482	4,296	1.1	538	2.80	193
32	Fountaindale	Carroll Valley	Waynesboro	1,263	58	2	820,778	3,681	1.1	650	2.91	223
33	Franklin	Rogersville	Jefferson	833	65	0	816,916	2,561	1.1	981	3.07	319
34	Floreffe	Calamity Hollow	Charleroi	795	23	1	793,576	4,229	1.1	998	5.32	188
35	Bentleyville	Jonestown	Charleroi	1,504	33	2	787,053	5,681	1.1	523	3.78	139
36	Enlow	Summit	Boyce	1,806	16	0	779,386	5,054	1.1	432	2.80	154
37	King Farm	Church St.	Pleasant Valley	1,620	13	2	762,265	3,568	1.1	471	2.20	214
38	Fowler	Bald Eagle	State College	427	23	0	758,677	1,337	1.1	1,777	3.13	567
39	Smithton	Yukon	Charleroi	1,297	27	1	748,816	3,217	1.0	577	2.48	233
40	Saltsburg	Saltsburg	Arnold	1,410	61	1	732,704	3,551	1.0	520	2.52	206

ATTACHMENT B

Worst Performing Circuits – Remedial Actions

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

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
1	No Bangor	00826-3	Easton	3,266	165	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	5.48	Trees Off Row-Tree	76%	4Q 2020	
	SAIDI	961.22	Equipment Failure	10%	1Q 2021	
	SAIFI	2.27	Wind	4%	2Q 2021	
	CAIDI	424	All Other	10%	3Q 2021	
	Customer Minutes	3,139,329				
	Customers Affected	7,412				
	Remedial Action Planned or Taken				Status	Progress
	Install TripSaver Recloser				Complete	Dec-20
	Construct circuit tie Phase 1				Complete	May-21
	Construct circuit tie Phase 2				Complete	Aug-21
	Construct circuit tie Phase 3				Complete	Aug-21
	Mainline 34.5 kV forestry aerial patrol				Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages	
2	Bushkill Falls	00698-3	Stroudsburg	1,756	22	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.83	Trees Off Row-Tree	85%	3Q 2021	
	SAIDI	1,249.29	Line Failure	11%		
	SAIFI	3.04	Equipment Failure	3%		
	CAIDI	410	All Other	1%		
	Customer Minutes	2,193,758				
	Customers Affected	5,346				
	Remedial Action Planned or Taken				Status	Progress
Repair/replace Priority items from overhead circuit inspection				Complete	Apr-21	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
3	Shawnee Sub	00895-3	Stroudsburg	4,010	81
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.54	Trees Off Row-Tree	94%	3Q 2021
	SAIDI	505.84	Lightning	3%	
	SAIFI	1.59	Equipment Failure	1%	
	CAIDI	318	All Other	2%	
	Customer Minutes	2,028,418			
	Customers Affected	6,372			
	Remedial Action Planned or Taken			Status	Progress
	On-cycle Tree Trimming			Complete	Oct-20
	Repair/replace Priority items from thermovision circuit inspection			Complete	Mar-21
	Reconductor 1 mile of circuit			Complete	Apr-21
	Complete voltage conversion and circuit reconfiguration			Complete	May-21
	Rank	Substation	Circuit	District	Customers
4	Lynnville Sub	00737-1	Hamburg	1,075	150
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.97	Trees Off Row-Tree	80%	4Q 2020
	SAIDI	1,580.89	Equipment Failure	5%	1Q 2021
	SAIFI	3.43	Wind	3%	2Q 2021
	CAIDI	461	All Other	12%	3Q 2021
	Customer Minutes	1,699,453			
	Customers Affected	3,687			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection			Complete	Nov-20
	Targeted tree trimming (Sousley Rd)			Complete	Aug-21
Rank	Substation	Circuit	District	Customers	Outages
5	Snydersville Sub	00621-3	Stroudsburg	1,307	46
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.96	Trees Off Row-Tree	55%	3Q 2021
	SAIDI	1,294.73	Unknown	36%	
	SAIFI	2.49	Forced Outage	6%	
	CAIDI	520	All Other	4%	
	Customer Minutes	1,692,218			
	Customers Affected	3,256			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Mar-21
Repair/Replace priority items from overhead circuit inspection			Complete	Jun-21	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
6	Shawnee Sub	00860-3	Stroudsburg	3,005	52
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.86	Trees Off Row-Tree	64%	2Q 2021
	SAIDI	545.21	Equipment Failure	17%	3Q 2021
	SAIFI	3.88	Object Contact with Line	6%	
	CAIDI	140	All Other	13%	
	Customer Minutes	1,638,351			
	Customers Affected	11,666			
	Remedial Action Planned or Taken			Status	Progress
	Circuit protection coordination review			Complete	Oct-20
	Install TripSaver Recloser			Complete	Dec-20
	Apply new recloser settings			Complete	Jan-21
	Repair items from thermovision inspection			Complete	Apr-21
	Mainline 34.5 kV forestry aerial patrol			Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages
7	Mountain Substation	00744-4	Dillsburg	1,790	102
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.59	Trees Off Row-Tree	73%	4Q 2020
	SAIDI	829.29	Vehicle	12%	1Q 2021
	SAIFI	3.37	Forced Outage	9%	2Q 2021
	CAIDI	246	All Other	6%	3Q 2021
	Customer Minutes	1,484,421			
	Customers Affected	6,024			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Jul-20
	Repair/Replace high priority items from Overhead Inspection			Complete	Feb-21

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
8	Huffs Church	00600-1	Boyertown	1,498	126
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.53	Trees Off Row-Tree	79%	4Q 2020
	SAIDI	967.66	Trees Off Row-Limb	7%	1Q 2021
	SAIFI	2.57	Unknown	6%	2Q 2021
	CAIDI	376	All Other	8%	3Q 2021
	Customer Minutes	1,449,550			
	Customers Affected	3,854			
	Remedial Action Planned or Taken			Status	Progress
	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			Complete	Apr-21
Replace/repair high priority items identified during overhead circuit inspection			Complete	Apr-21	
Targeted forestry inspection			Complete	Aug-21	
Targeted forestry inspection (Maryann Drive)			Complete	Sep-21	
Targeted tree trimming (Maryann Drive)			To be completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
9	Orrtanna	00761-4	Gettysburg	486	19
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.33	Trees Off Row-Tree	83%	2Q 2021
	SAIDI	2,750.54	Equipment Failure	17%	3Q 2021
	SAIFI	3.60	Wind	0%	
	CAIDI	763	All Other	0%	
	Customer Minutes	1,336,764			
	Customers Affected	1,751			
	Remedial Action Planned or Taken			Status	Progress
	On-cycle Tree Trimming			Complete	Mar-20

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
10	Flying Hills Sub	00777-1	Reading	1,788	80
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.18	Trees Off Row-Tree	65%	4Q 2020
	SAIDI	699.48	Equipment Failure	11%	1Q 2021
	SAIFI	2.26	Trees Off Row-Limb	10%	2Q 2021
	CAIDI	309	All Other	14%	3Q 2021
	Customer Minutes	1,250,666			
	Customers Affected	4,048			
	Remedial Action Planned or Taken			Status	Progress
	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			Complete	May-21
	Install Supervisory Control and Data Acquisition (SCADA) switch (4 devices)			To be completed 2021	50%
Rank	Substation	Circuit	District	Customers	Outages
11	Violet Hill Sub	00527-4	York	1,236	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.17	Trees Off Row-Tree	46%	1Q 2021
	SAIDI	1,005.58	Trees Off Row-Limb	22%	2Q 2021
	SAIFI	6.14	Unknown	13%	3Q 2021
	CAIDI	164	All Other	19%	
	Customer Minutes	1,242,899			
	Customers Affected	7,591			
	Remedial Action Planned or Taken			Status	Progress
	On cycle Tree Trimming			Complete	May-21
	Joint Planning meeting with AEC for Potential SCADA/Sectionalizing devices			Complete	Sep-21
Rank	Substation	Circuit	District	Customers	Outages
12	Tolna Sub	00792-4	York	1,785	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.16	Equipment Failure	48%	2Q 2021
	SAIDI	693.07	Vehicle	47%	3Q 2021
	SAIFI	4.24	Forced Outage	2%	
	CAIDI	163	All Other	3%	
	Customer Minutes	1,237,135			
	Customers Affected	7,569			
	Remedial Action Planned or Taken			Status	Progress
Engineering Circuit Review			To be completed 2021	0%	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
13	W Boyertown Sub	00715-1	Boyertown	1,694	68	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.02	Trees Off Row-Tree	51%	4Q 2020	
	SAIDI	683.78	Human Error - Company	15%	1Q 2021	
	SAIFI	5.50	Line Failure	10%	2Q 2021	
	CAIDI	124	All Other	24%	3Q 2021	
	Customer Minutes	1,158,321				
	Customers Affected	9,324				
	Remedial Action Planned or Taken			Status	Progress	
	Replace cutout from thermovision inspection			Complete	Sep-20	
	Install TripSaver			Complete	Dec-20	
	Mainline recloser upgrade and circuit coordination improvements			Complete	Jan-21	
	Overhead circuit inspection			Complete	Apr-21	
	On-cycle tree trimming			Complete	Jul-21	
Targeted tree trimming investigation			To be completed 2021	50%		
Rank	Substation	Circuit	District	Customers	Outages	
14	Shawnee Sub	00822-3	Stroudsburg	3,113	46	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.98	Trees Off Row-Tree	95%	4Q 2020	
	SAIDI	363.72	Equipment Failure	2%	1Q 2021	
	SAIFI	1.89	Forced Outage	1%	2Q 2021	
	CAIDI	192	All Other	2%	3Q 2021	
	Customer Minutes	1,132,247				
	Customers Affected	5,887				
	Remedial Action Planned or Taken			Status	Progress	
	Post storm mainline circuit patrol			Complete	Nov-20	
	Install Supervisory Control and Data Acquisition (SCADA) recloser			Complete	Feb-21	
	Mainline 34.5 kV forestry aerial patrol			Complete	Jul-21	
	Rank	Substation	Circuit	District	Customers	Outages
	15	Shawnee Sub	00899-3	Stroudsburg	1,719	56
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		1.91	Trees Off Row-Tree	72%	4Q 2020	
SAIDI		635.72	Trees Off Row-Limb	11%	3Q 2021	
SAIFI		2.37	Equipment Failure	9%		
CAIDI		268	All Other	8%		
Customer Minutes		1,092,795				
Customers Affected		4,075				
Remedial Action Planned or Taken			Status	Progress		
Mainline 34.5 kV forestry aerial patrol			Complete	Jul-21		
On-cycle tree trimming			To be completed 2021	95%		

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
16	Pleasantville	00142-1	Boyertown	818	79
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.84	Trees Off Row-Tree	75%	4Q 2020
	SAIDI	1,285.13	Human Error - Company	13%	1Q 2021
	SAIFI	4.32	Equipment Failure	3%	2Q 2021
	CAIDI	298	All Other	9%	3Q 2021
	Customer Minutes	1,051,236			
	Customers Affected	3,531			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspections (Haas Ln & Mine Rd)			Complete	Jun-21
	Targeted tree trimming (Haas Ln)			Complete	Jul-21
	Targeted tree trimming investigation			To be completed 2021	50%
	Rank	Substation	Circuit	District	Customers
17	Baldy Sub	00736-1	Reading	945	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.76	Trees Off Row-Tree	90%	4Q 2020
	SAIDI	1,064.86	Trees Off Row-Limb	4%	1Q 2021
	SAIFI	3.13	Lightning	3%	2Q 2021
	CAIDI	340	All Other	3%	3Q 2021
	Customer Minutes	1,006,295			
	Customers Affected	2,961			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection			Complete	Dec-20
	Install Supervisory Control and Data Acquisition (SCADA) Engineering			Complete	Jan-21
	Overhead circuit inspection			Complete	Apr-21
	On-cycle Tree Trimming			Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages
18	Carsonia Sub	00764-1	Reading	2,929	61
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.74	Trees Off Row-Tree	81%	4Q 2020
	SAIDI	340.25	Forced Outage	7%	1Q 2021
	SAIFI	2.37	Equipment Failure	4%	2Q 2021
	CAIDI	143	All Other	8%	3Q 2021
	Customer Minutes	996,601			
	Customers Affected	6,953			
	Remedial Action Planned or Taken			Status	Progress
	Create additional circuit tie			Complete	Nov-20
	Targeted forestry inspection			Complete	Jun-21
	Targeted tree trimming (Wood Lane)			Complete	Sep-21
	Targeted forestry inspection			Complete	Sep-21

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
19	Cly	00721-4	York	823	53
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.70	Trees Off Row-Tree	82%	3Q 2021
	SAIDI	1,184.78	Trees Off Row-Limb	8%	
	SAIFI	2.36	Unknown	8%	
	CAIDI	502	All Other	1%	
	Customer Minutes	975,071			
	Customers Affected	1,942			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			To be completed 2021	97%
Rank	Substation	Circuit	District	Customers	Outages
20	No Bangor	00838-3	Easton	1,703	57
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.69	Trees Off Row-Tree	59%	2Q 2021
	SAIDI	566.62	Equipment Failure	20%	3Q 2021
	SAIFI	2.22	Unknown	17%	
	CAIDI	256	All Other	3%	
	Customer Minutes	964,957			
	Customers Affected	3,773			
	Remedial Action Planned or Taken			Status	Progress
	Replace recloser			Complete	Dec-20
	Overhead circuit inspection			Complete	Apr-21
	Repair priority items from circuit inspection			Complete	May-21
	Mainline 34.5 kV forestry aerial patrol			Complete	Jul-21
	Repair priority items from thermovision inspection			Complete	Sep-21
Rank	Substation	Circuit	District	Customers	Outages
21	Collins Substation	00760-2	Lebanon	1,112	43
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.66	Trees Off Row-Tree	47%	2Q 2021
	SAIDI	854.12	Line Failure	23%	3Q 2021
	SAIFI	3.71	Unknown	12%	
	CAIDI	230	All Other	18%	
	Customer Minutes	949,780			
	Customers Affected	4,125			
	Remedial Action Planned or Taken			Status	Progress
	Thermovision inspection			Complete	Dec-20
On-cycle tree trimming			Complete	Jun-21	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
22	Snydersville Sub	00620-3	Stroudsburg	988	46
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.62	Trees Off Row-Tree	87%	1Q 2021
	SAIDI	936.49	Equipment Failure	7%	3Q 2021
	SAIFI	2.10	Vehicle	3%	
	CAIDI	445	All Other	3%	
	Customer Minutes	925,248			
	Customers Affected	2,078			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Mar-21
	Repair/Replace priority items from circuit inspection			Complete	May-21
	Rank	Substation	Circuit	District	Customers
23	S Hamb Sub	00740-1	Hamburg	1,269	83
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.57	Trees Off Row-Tree	74%	1Q 2021
	SAIDI	706.46	Equipment Failure	16%	3Q 2021
	SAIFI	1.94	Line Failure	8%	
	CAIDI	364	All Other	2%	
	Customer Minutes	896,502			
	Customers Affected	2,464			
	Remedial Action Planned or Taken			Status	Progress
	Cycle tree trimming			Complete	Dec-20
	Install TripSaver			Complete	Apr-21
	Rank	Substation	Circuit	District	Customers
24	Grantley	00401-4	York	798	6
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.56	Trees Off Row-Tree	62%	3Q 2021
	SAIDI	1,117.05	Equipment Failure	35%	
	SAIFI	2.04	Unknown	3%	
	CAIDI	548	All Other	0%	
	Customer Minutes	891,405			
	Customers Affected	1,627			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Mar-21
	Protection/Coordination review on Substation breaker/relay settings			Complete	Aug-21
	Substation settings change issued to correct over tripping			Complete	Aug-21
On-cycle tree trimming			Complete	Sep-21	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
25	Mountain Substation	00742-4	Dillsburg	1,421	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.51	Trees Off Row-Limb	50%	2Q 2021
	SAIDI	606.93	Wind	18%	3Q 2021
	SAIFI	1.74	Trees Off Row-Tree	17%	
	CAIDI	348	All Other	15%	
	Customer Minutes	862,447			
	Customers Affected	2,478			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Mar-20
	Repair/Replace high priority items from Overhead Inspection			Complete	Feb-21
Rank	Substation	Circuit	District	Customers	Outages
26	No Bangor	00813-3	Easton	1,326	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.48	Trees Off Row-Tree	50%	1Q 2021
	SAIDI	639.89	Human Error -Non-Company	26%	2Q 2021
	SAIFI	1.92	Equipment Failure	13%	3Q 2021
	CAIDI	333	All Other	12%	
	Customer Minutes	848,495			
	Customers Affected	2,548			
	Remedial Action Planned or Taken			Status	Progress
	Mainline 34.5 kV forestry aerial patrol			Complete	Jul-21
	Repair priority items from thermovision inspection			To be completed 2021	75%
Rank	Substation	Circuit	District	Customers	Outages
27	Swatara Hill Sub	00763-2	Lebanon	1,535	57
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.45	Trees Off Row-Tree	58%	1Q 2021
	SAIDI	542.60	Equipment Failure	20%	2Q 2021
	SAIFI	2.82	Trees Off Row-Limb	10%	3Q 2021
	CAIDI	192	All Other	11%	
	Customer Minutes	832,888			
	Customers Affected	4,331			
	Remedial Action Planned or Taken			Status	Progress
	Add Supervisory Control and Data Acquisition (SCADA) device #1			Complete	Oct-20
	Install Supervisory Control and Data Acquisition (SCADA) device #1			Complete	Aug-21
	Install Supervisory Control and Data Acquisition (SCADA) device #2			Complete	Aug-21
	Install Supervisory Control and Data Acquisition (SCADA) device #3			Complete	Aug-21
Targeted forestry inspection			To be completed 2021	0%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
28	Painted Sky	00650-1	Reading	1,783	17
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.42	Trees Off Row-Tree	67%	2Q 2021
	SAIDI	456.78	Vehicle	23%	3Q 2021
	SAIFI	2.16	Line Failure	9%	
	CAIDI	212	All Other	1%	
	Customer Minutes	814,440			
	Customers Affected	3,849			
	Remedial Action Planned or Taken			Status	Progress
	Install additional line sectionalizing device			Complete	Oct-20
	Targeted forestry inspection			Complete	Nov-20
	On cycle tree trimming			Complete	Dec-20
	Overhead circuit inspection			Complete	Feb-21
	Rank	Substation	Circuit	District	Customers
29	Shawnee Sub	00837-3	Stroudsburg	1,259	39
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.41	Trees Off Row-Tree	79%	3Q 2021
	SAIDI	643.43	Equipment Failure	16%	
	SAIFI	1.81	Forced Outage	2%	
	CAIDI	356	All Other	3%	
	Customer Minutes	810,083			
	Customers Affected	2,276			
	Remedial Action Planned or Taken			Status	Progress
	Post storm circuit inspection			Complete	Nov-20
	Mainline 34.5 kV forestry aerial patrol			Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages
30	Belfast Sub	00817-3	Easton	1,016	48
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.41	Trees Off Row-Tree	74%	3Q 2021
	SAIDI	792.00	Equipment Failure	17%	
	SAIFI	4.41	Wind	4%	
	CAIDI	180	All Other	5%	
	Customer Minutes	804,669			
	Customers Affected	4,481			
	Remedial Action Planned or Taken			Status	Progress
	Mainline 34.5 kV forestry aerial patrol			Complete	Jul-21
	Danger tree removal from aerial patrol			Complete	Jul-21
On-cycle tree trimming			To be completed 2021	85%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
31	Adamstown	00755-1	Reading	1,440	39
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.39	Trees Off Row-Tree	62%	4Q 2020
	SAIDI	551.00	Equipment Failure	26%	1Q 2021
	SAIFI	2.49	Lightning	4%	2Q 2021
	CAIDI	221	All Other	9%	3Q 2021
	Customer Minutes	793,447			
	Customers Affected	3,591			
	Remedial Action Planned or Taken			Status	Progress
	Targeted forestry inspection			Complete	Dec-20
	On-cycle tree trimming			Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages
32	North Cornwall Sub	00610-2	Lebanon	2,293	64
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.38	Trees Off Row-Tree	39%	3Q 2021
	SAIDI	344.78	Forced Outage	27%	
	SAIFI	2.21	Vehicle	11%	
	CAIDI	156	All Other	24%	
	Customer Minutes	790,573			
	Customers Affected	5,058			
	Remedial Action Planned or Taken			Status	Progress
	On-cycle Tree Trimming			Complete	Dec-20
	Overhead circuit inspection			Complete	Oct-21
Mainline Circuit Rehabilitation			To be completed 2021	50%	
Rank	Substation	Circuit	District	Customers	Outages
33	E Topton Sub	00727-1	Reading	1,476	45
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.35	Trees Off Row-Tree	60%	3Q 2021
	SAIDI	522.60	Equipment Failure	30%	
	SAIFI	2.79	Trees Off Row-Limb	6%	
	CAIDI	187	All Other	4%	
	Customer Minutes	771,352			
	Customers Affected	4,125			
	Remedial Action Planned or Taken			Status	Progress
	On-cycle tree trimming			Complete	Dec-20

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
34	Swatara Hill Sub	00765-2	Lebanon	591	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.31	Trees Off Row-Tree	55%	4Q 2020
	SAIDI	1,271.05	Trees On Row	43%	1Q 2021
	SAIFI	2.12	Unknown	1%	2Q 2021
	CAIDI	600	All Other	1%	3Q 2021
	Customer Minutes	751,192			
	Customers Affected	1,252			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) device #4			Complete	Oct-20
	Install Supervisory Control and Data Acquisition (SCADA) device #5			Complete	Dec-20
	Targeted forestry inspection			To be completed 2021	0%
	Rank	Substation	Circuit	District	Customers
35	Saylorsburg Sub	00114-3	Stroudsburg	691	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.29	Trees Off Row-Tree	64%	3Q 2021
	SAIDI	1,070.35	Vehicle	23%	
	SAIFI	2.29	Unknown	6%	
	CAIDI	468	All Other	7%	
	Customer Minutes	739,613			
	Customers Affected	1,582			
	Remedial Action Planned or Taken			Status	Progress
	Replace backlog poles (3 poles)			Complete	Sep-21
Rank	Substation	Circuit	District	Customers	Outages
36	Shawnee Sub	00815-3	Stroudsburg	1,297	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.25	Trees Off Row-Tree	82%	4Q 2020
	SAIDI	550.10	Unknown	12%	3Q 2021
	SAIFI	1.71	Vehicle	3%	
	CAIDI	321	All Other	3%	
	Customer Minutes	713,483			
	Customers Affected	2,221			
	Remedial Action Planned or Taken			Status	Progress
	On-cycle tree trimming			Complete	Jun-21
Mainline 34.5 kV forestry aerial patrol			Complete	Jul-21	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
37	North Lebanon	00712-2	Lebanon	2,575	62
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.21	Trees Off Row-Tree	80%	3Q 2021
	SAIDI	268.14	Equipment Failure	14%	
	SAIFI	3.21	Vehicle	2%	
	CAIDI	84	All Other	4%	
	Customer Minutes	690,452			
	Customers Affected	8,268			
	Remedial Action Planned or Taken			Status	Progress
	Thermovision and overhead inspection			Complete	Jan-21
	On-cycle Tree Trimming			To be completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
38	Baldy Sub	00738-1	Reading	941	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.18	Trees Off Row-Tree	56%	4Q 2020
	SAIDI	717.40	Equipment Failure	34%	1Q 2021
	SAIFI	2.86	Vehicle	4%	2Q 2021
	CAIDI	251	All Other	6%	3Q 2021
	Customer Minutes	675,073			
	Customers Affected	2,693			
	Remedial Action Planned or Taken			Status	Progress
	Install Supervisory Control and Data Acquisition (SCADA) Engineering Review			Complete	Jan-21
	Overhead circuit inspection			Complete	Apr-21
On-cycle Tree Trimming			Complete	Jul-21	
Rank	Substation	Circuit	District	Customers	Outages
39	Grantley	00544-4	York	529	13
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.17	Trees Off Row-Tree	82%	3Q 2021
	SAIDI	1,270.95	Lightning	14%	
	SAIFI	2.63	Line Failure	2%	
	CAIDI	483	All Other	1%	
	Customer Minutes	672,335			
	Customers Affected	1,393			
	Remedial Action Planned or Taken			Status	Progress
	On-cycle Tree Trimming			To be completed 2021	57%

Met-Ed					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	4Q 2020	1Q 2021	2Q 2021	3Q 2021
Barto	00706-1	X	X	X	
Bernville	00787-1	X	X	X	
Dillsburg	00748-4	X	X	X	
Glendon	00818-3	X	X	X	
Lickdale	00625-2	X	X	X	
Lickdale	00626-2	X	X		
Lyons	00729-1	X	X	X	
Mc Knights Gap	00774-1	X	X		
Menges Mills	00543-4	X	X	X	
Mountain	00743-4		X	X	
North Hanover	00505-4	X		X	
South Hamburg	00741-1	X	X		
South Hamburg	00801-1	X	X	X	
Schuylkill Ave	00157-1	X	X	X	
Shawnee	00833-3	X	X	X	
South Easton	00057-3	X	X		
State Street	00620-1	X	X		
Yorkana	00715-4	X	X		
Zionsview	00717-4	X	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	00706-1	Replace/repair high priority items identified during overhead circuit inspection	Complete	Apr-21
Barto	00706-1	Install additional line sectionalizing device	Complete	Apr-21
Bernville	00787-1	On-cycle tree trimming	To be completed 2021	95%
Dillsburg	00748-4	Overhead circuit inspection	Complete	Sep-21
Glendon	00818-3	Mainline 34.5kV forestry aerial patrol	Complete	Jul-21
Lickdale	00625-2	Targeted forestry inspection	To be completed 2021	0%
Lickdale	00626-2	Targeted forestry inspection	To be completed 2021	0%
Lincoln	00771-4	On-cycle tree trimming	To be completed 2021	0%
Menges Mills	00543-4	On-cycle tree trimming	Complete	Aug-21
Shawnee	00833-3	On-cycle tree trimming	Complete	Jul-21
Shawnee	00833-3	Mainline forestry aerial patrol	Complete	Jul-21
Zionsview	00717-4	Replace/repair high priority items identified during overhead circuit inspection	To be completed 2021	94%

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
1	Madera	00166-22	Philipsburg	1,574	59	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	5.96	Trees Off Row-Tree	95%	1Q 2021	
	SAIDI	2,196.39	Unknown	3%	2Q 2021	
	SAIFI	5.04	Lightning	1%	3Q 2021	
	CAIDI	435.63	All Other	2%		
	Customer Minutes	3,457,122				
	Customers Affected	7,936				
	Remedial Action Planned or Taken				Status	Progress
	Circuit inspection				Complete	Sep-20
	Repair damage caused by trees during a storm				Complete	Mar-21
	Repair damage caused by trees during a storm				Complete	Jul-21
	Repair damage caused by trees during a storm				Complete	Aug-21
	Rank	Substation	Circuit	District	Customers	Outages
2	Dubois	00137-23	Dubois	3,089	121	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	5.84	Trees Off Row-Tree	85%	4Q 2020	
	SAIDI	1,096.80	Trees Off Row-Limb	6%	1Q 2021	
	SAIFI	5.02	Forced Outage	5%	2Q 2021	
	CAIDI	218.45	All Other	5%	3Q 2021	
	Customer Minutes	3,388,013				
	Customers Affected	15,509				
	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	Mar-21
	Repair damage caused by trees during a storm				Complete	Apr-21
	Install advanced Dx protective devices				Complete	Aug-21

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
3	Grover	00527-63	Towanda	1,055	85
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	4.56	Equipment Failure	38%	4Q 2020
	SAIDI	2,510.23	Trees Off Row-Limb	33%	1Q 2021
	SAIFI	6.95	Trees Off Row-Tree	17%	2Q 2021
	CAIDI	361.00	All Other	12%	3Q 2021
	Customer Minutes	2,648,292			
	Customers Affected	7,336			
	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	Jan-21
	Repair equipment failure			Complete	Jun-21
	Targeted circuit rehabilitation			Complete	Jun-21
	Install advanced Dx protective devices			Complete	May-21
Rank	Substation	Circuit	District	Customers	Outages
4	Saxton	00625-73	Altoona	1,075	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	3.25	Trees Off Row-Tree	87%	1Q 2021
	SAIDI	1,754.24	Equipment Failure	10%	2Q 2021
	SAIFI	3.71	Forced Outage	2%	3Q 2021
	CAIDI	472.99	All Other	2%	
	Customer Minutes	1,885,803			
	Customers Affected	3,987			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Jan-21
	Repair equipment failure			Complete	Feb-21
	Repair damage caused by trees			Complete	Aug-21
	Repair damage caused by trees during a storm			Complete	Sep-21
	Rank	Substation	Circuit	District	Customers
5	Falls	00297-65	Montrose	757	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.99	Trees Off Row-Tree	82%	1Q 2021
	SAIDI	2,293.60	Unknown	10%	2Q 2021
	SAIFI	3.68	Ice	4%	3Q 2021
	CAIDI	623.88	All Other	4%	
	Customer Minutes	1,736,257			
	Customers Affected	2,783			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by ice			Complete	Jan-21
	Repair damage caused by trees during a storm			Complete	Jul-21
	Repair damage caused by trees during a storm			Complete	Mar-21

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
6	Tiffany	00435-65	Montrose	1,377	58
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.82	Trees Off Row-Tree	42%	4Q 2020
	SAIDI	1,186.41	Lightning	21%	1Q 2021
	SAIFI	5.24	Other Electric Utility	14%	2Q 2021
	CAIDI	226.24	All Other	24%	3Q 2021
	Customer Minutes	1,633,687			
	Customers Affected	7,221			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Nov-20
	Repair damage caused by trees during a storm			Complete	Nov-20
	Repair damage caused by lightning			Complete	Jun-21
	Repair damage caused by trees during a storm			Complete	Jul-21
	Circuit inspection			Complete	Sep-21
Rank	Substation	Circuit	District	Customers	Outages
7	Marienville	00328-51	Oil City	1,206	54
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.44	Trees Off Row-Tree	82%	4Q 2020
	SAIDI	1,175.64	Unknown	6%	1Q 2021
	SAIFI	3.63	Lightning	5%	2Q 2021
	CAIDI	323.78	All Other	7%	3Q 2021
	Customer Minutes	1,417,827			
	Customers Affected	4,379			
	Remedial Action Planned or Taken			Status	Progress
	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
8	Russell Hill	00282-65	Montrose	1,007	72
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.28	Trees Off Row-Tree	67%	4Q 2020
	SAIDI	1,311.43	Wind	12%	1Q 2021
	SAIFI	3.09	Line Failure	11%	2Q 2021
	CAIDI	424.09	All Other	10%	3Q 2021
	Customer Minutes	1,320,614			
	Customers Affected	3,114			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Dec-20
	Repair damage caused by trees during a storm			Complete	Mar-21
	Repair damage caused by wind			Complete	Apr-21
	Install advanced Dx protective devices			Complete	Jun-21

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
9	Revloc	00069-72	Altoona	559	7	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.06	Trees Off Row-Tree	94%	1Q 2021	
	SAIDI	2,134.81	Trees Off Row-Limb	6%	2Q 2021	
	SAIFI	4.06	Lightning	1%	3Q 2021	
	CAIDI	525.71	All Other	0%		
	Customer Minutes	1,193,358				
	Customers Affected	2,270				
	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	Jan-21
	Repair damage caused by trees				Complete	Feb-21
	Rank	Substation	Circuit	District	Customers	Outages
10	Piney	00523-51	Oil City	1,501	79	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.86	Trees Off Row-Tree	48%	4Q 2020	
	SAIDI	718.09	Line Failure	15%	1Q 2021	
	SAIFI	5.92	Animal	10%	2Q 2021	
	CAIDI	121.24	All Other	27%	3Q 2021	
	Customer Minutes	1,077,849				
	Customers Affected	8,890				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by lightning				Complete	Sep-20
	Install new radio controlled switch				Complete	Sep-20
	Repair damage caused by trees				Complete	Nov-20
	On cycle tree trimming				Complete	Dec-20
Repair line failure				Complete	Mar-21	
Targeted circuit rehabilitation				To be Completed 2022	0%	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
11	Union City	00206-43	Erie	2,862	102	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.81	Trees Off Row-Tree	69%	4Q 2020	
	SAIDI	366.31	Unknown	7%	2Q 2021	
	SAIFI	2.82	Forced Outage	7%	3Q 2021	
	CAIDI	129.88	All Other	17%		
	Customer Minutes	1,048,368				
	Customers Affected	8,072				
	Remedial Action Planned or Taken				Status	Progress
	Targeted circuit rehabilitation				Complete	Oct-20
	Install new radio controlled switch				Complete	Dec-20
	Repair damage caused by trees during a storm				Complete	Mar-21
	Restore fuse operation of unknown cause				Complete	May-21
	Repair damage caused by trees during a storm				Complete	Jul-21
Install advanced Dx protective devices				To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages	
12	Samuel Rea Car Shop	00031-71	Altoona	1,837	19	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.76	Equipment Failure	99%	2Q 2021	
	SAIDI	557.52	Animal	1%	3Q 2021	
	SAIFI	8.33	Forced Outage	0%		
	CAIDI	66.92	All Other	0%		
	Customer Minutes	1,024,166				
	Customers Affected	15,305				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	May-21
Rank	Substation	Circuit	District	Customers	Outages	
13	Madera	00165-22	Philipsburg	1,479	34	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.73	Equipment Failure	51%	4Q 2020	
	SAIDI	679.42	Lightning	20%	1Q 2021	
	SAIFI	4.38	Animal	12%	2Q 2021	
	CAIDI	155.29	All Other	1%	3Q 2021	
	Customer Minutes	1,004,864				
	Customers Affected	6,471				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by animal				Complete	Oct-20
Repair equipment failure				Complete	Mar-21	
Repair damage caused by lightning				Complete	Jun-21	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
14	Rolling Meadows	00310-31	Erie	4,023	47	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.73	Human Error - Company	42%	1Q 2021	
	SAIDI	249.67	Equipment Failure	28%	2Q 2021	
	SAIFI	2.56	Line Failure	20%	3Q 2021	
	CAIDI	97.38	All Other	10%		
	Customer Minutes	1,004,408				
	Customers Affected	10,314				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	Jul-20
	Repair damage caused by human error-company				Complete	Mar-21
	Repair line failure				Complete	Sep-21
	Rank	Substation	Circuit	District	Customers	Outages
15	N Meshoppen Tran	00534-65	Montrose	831	74	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.69	Trees Off Row-Tree	73%	4Q 2020	
	SAIDI	1,177.52	Lightning	15%	1Q 2021	
	SAIFI	2.46	Unknown	4%	2Q 2021	
	CAIDI	478.96	All Other	8%	3Q 2021	
	Customer Minutes	978,521				
	Customers Affected	2,043				
	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	Jan-21
	Repair damage caused by lightning				Complete	Jul-21
	Rank	Substation	Circuit	District	Customers	Outages
16	Seward	00075-11	Johnstown	888	38	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.65	Equipment Failure	68%	2Q 2021	
	SAIDI	1,081.10	Trees Off Row-Limb	16%	3Q 2021	
	SAIFI	3.90	Trees Off Row-Tree	11%		
	CAIDI	277.30	All Other	4%		
	Customer Minutes	960,015				
	Customers Affected	3,462				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	May-21
	Repair damage caused by trees				Complete	Jun-21
	Repair damage caused by trees during a storm				Complete	Jul-21

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
17	Philipsburg	00162-22	Philipsburg	2,715	66	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.58	Unknown	40%	4Q 2020	
	SAIDI	338.12	Trees Off Row-Tree	28%	1Q 2021	
	SAIFI	2.88	Equipment Failure	12%	2Q 2021	
	CAIDI	117.32	All Other	20%	3Q 2021	
	Customer Minutes	917,994				
	Customers Affected	7,825				
	Remedial Action Planned or Taken				Status	Progress
	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
18	Fallen Timbers	00995-22	Philipsburg	602	19	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.54	Trees Off Row - Tree	74%	1Q 2021	
	SAIDI	1,488.24	Line Failure	21%	2Q 2021	
	SAIFI	6.70	All Other	5%	3Q 2021	
	CAIDI	222.15				
	Customer Minutes	895,919				
	Customers Affected	4,033				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Mar-21
	Repair damage caused by trees during a storm				Complete	May-21
	Repair line failure				Complete	May-21
	Rank	Substation	Circuit	District	Customers	Outages
19	Warren South	00220-41	Warren	2,378	82	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.54	Trees Off Row-Tree	69%	4Q 2020	
	SAIDI	375.12	Forced Outage	16%	1Q 2021	
	SAIFI	2.37	Equipment Failure	5%	2Q 2021	
	CAIDI	158.36	All Other	10%	3Q 2021	
	Customer Minutes	892,033				
	Customers Affected	5,633				
	Remedial Action Planned or Taken				Status	Progress
	Circuit inspection				Complete	Sep-20
	Install advanced Dx protective devices				Complete	Nov-20
	Repair equipment failure				Complete	Jan-21
	Repair damage caused by trees during a storm				Complete	Jul-21

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
20	Springboro	00237-52	Meadville	2,757	82	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.42	Equipment Failure	40%	4Q 2020	
	SAIDI	298.46	Trees Off Row-Tree	21%	1Q 2021	
	SAIFI	2.64	Ice	10%	2Q 2021	
	CAIDI	113.09	All Other	29%	3Q 2021	
	Customer Minutes	822,843				
	Customers Affected	7,276				
	Remedial Action Planned or Taken				Status	Progress
	Install advanced Dx protective devices				Complete	Oct-20
	Repair equipment failure				Complete	Nov-20
	Repair damage caused by ice				Complete	Dec-20
	Circuit inspection				Complete	May-21
	Repair damage caused by trees during a storm				Complete	Jul-21
	Repair equipment failure				Complete	Aug-21
Install advanced Dx protective devices				To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages	
21	Ppl West	PL097-62	Towanda	104	14	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.41	Other Electric Utility	71%	3Q 2021	
	SAIDI	7,860.81	Trees Off Row-Tree	20%		
	SAIFI	8.36	Trees Off Row-Limb	9%		
	CAIDI	940.76	All Other	1%		
	Customer Minutes	817,524				
	Customers Affected	869				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Aug-21
	Contacted PPL for outage mitigation				Complete	Sep-21

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
22	Tunkhannock	00533-65	Montrose	1,244	62	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.39	Trees Off Row-Tree	42%	4Q 2020	
	SAIDI	649.40	Unknown	28%	1Q 2021	
	SAIFI	3.11	Equipment Failure	16%	2Q 2021	
	CAIDI	208.69	All Other	14%	3Q 2021	
	Customer Minutes	807,858				
	Customers Affected	3,871				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Apr-21
	Restore recloser operation of unknown cause				Complete	Jun-21
	Install advanced Dx protective devices				Complete	Jun-21
	Repair equipment failure				Complete	Jul-21
	Rank	Substation	Circuit	District	Customers	Outages
23	Crown	00519-51	Oil City	645	67	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.34	Trees Off Row-Tree	78%	4Q 2020	
	SAIDI	1,205.96	Equipment Failure	9%	1Q 2021	
	SAIFI	3.88	Trees Off Row-Limb	4%	2Q 2021	
	CAIDI	311.01	All Other	9%	3Q 2021	
	Customer Minutes	777,844				
	Customers Affected	2,501				
	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	Mar-21
	Repair damage caused by trees during a storm				Complete	Jun-21
	Repair equipment failure				Complete	Jul-21
	On cycle tree trimming				To be Completed 2021	98%

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
24	East Pike	00095-13	Indiana	3,254	34	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.29	Equipment Failure	53%	3Q 2021	
	SAIDI	230.15	Trees On Row	22%		
	SAIFI	1.80	Lightning	17%		
	CAIDI	127.60	All Other	8%		
	Customer Minutes	748,910				
	Customers Affected	5,869				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	Aug-21
	Repair damage caused by trees during a storm				Complete	Aug-21
	Repair damage caused by lightning				Complete	Aug-21
	Rank	Substation	Circuit	District	Customers	Outages
25	Logan	00700-81	Lewistown	1,007	47	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.27	Trees Off Row-Tree	86%	4Q 2020	
	SAIDI	732.55	Forced Outage	8%	1Q 2021	
	SAIFI	3.14	Vehicle	1%	3Q 2021	
	CAIDI	232.93	All Other	4%		
	Customer Minutes	737,675				
	Customers Affected	3,167				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Aug-21
Rank	Substation	Circuit	District	Customers	Outages	
26	French Road	00219-31	Erie	1,484	13	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.25	Line Failure	96%	3Q 2021	
	SAIDI	490.30	Unknown	2%		
	SAIFI	1.82	Equipment Failure	2%		
	CAIDI	269.48	All Other	0%		
	Customer Minutes	727,602				
	Customers Affected	2,700				
	Remedial Action Planned or Taken				Status	Progress
	Repair line failure				Complete	Sep-21
Repair line failure				Complete	Sep-21	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
27	Titusville	00514-51	Oil City	521	22	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.13	Trees Off Row-Tree	88%	2Q 2021	
	SAIDI	1,253.68	Vehicle	10%	3Q 2021	
	SAIFI	2.16	Equipment Failure	1%		
	CAIDI	579.56	All Other	1%		
	Customer Minutes	653,168				
	Customers Affected	1,127				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Mar-21
	Repair damage caused by trees during a storm				Complete	Jun-21
	Repair damage caused by vehicle accident				Complete	Jun-21
	Rank	Substation	Circuit	District	Customers	Outages
28	Wyalusing	00532-62	Towanda	743	61	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.12	Ice	39%	1Q 2021	
	SAIDI	877.43	Trees Off Row-Tree	28%	2Q 2021	
	SAIFI	5.81	Equipment Failure	14%	3Q 2021	
	CAIDI	151.02	All Other	18%		
	Customer Minutes	651,932				
	Customers Affected	4,317				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by ice				Complete	Jan-21
	Repair damage caused by trees during a storm				Complete	Mar-21
	Repair equipment failure				Complete	Sep-21
	Rank	Substation	Circuit	District	Customers	Outages
29	Lake Como	00788-65	Montrose	591	38	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.10	Trees Off Row-Tree	89%	4Q 2020	
	SAIDI	1,075.92	Lightning	5%	1Q 2021	
	SAIFI	3.76	Equipment Failure	4%	3Q 2021	
	CAIDI	286.17	All Other	2%		
	Customer Minutes	635,870				
	Customers Affected	2,222				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Mar-21
	Circuit inspection				Complete	Jun-21
	Install advanced Dx protective devices				Complete	Jun-21
	Repair damage caused by trees				Complete	Jul-21

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
30	Greenwood	00041-71	Altoona	1,213	16	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.08	Wind	50%	4Q 2020	
	SAIDI	516.73	Trees Off Row - Tree	46%	1Q 2021	
	SAIFI	1.74	All Other	4%	2Q 2021	
	CAIDI	296.77			3Q 2021	
	Customer Minutes	626,788				
	Customers Affected	2,112				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by wind				Complete	Mar-21
	Repair damage caused by trees during a storm				Complete	May-21
	Circuit inspection				To be Completed 2021	0%
	Rank	Substation	Circuit	District	Customers	Outages
31	Blairsville East	00080-13	Indiana	1,333	29	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.07	Trees Off Row-Tree	69%	4Q 2020	
	SAIDI	465.93	Vehicle	16%	1Q 2021	
	SAIFI	4.90	Equipment Failure	8%	2Q 2021	
	CAIDI	95.05	All Other	7%	3Q 2021	
	Customer Minutes	621,081				
	Customers Affected	6,534				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by a vehicle				Complete	Mar-21
	Repair equipment failure				Complete	May-21
	Repair damage caused by trees during a storm				Complete	Jul-21
	Targeted circuit rehabilitation				Complete	Aug-21
Rank	Substation	Circuit	District	Customers	Outages	
32	Wellsboro	00325-63	Mansfield Pa	310	9	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.07	Trees Off Row-Tree	54%	2Q 2021	
	SAIDI	1,995.13	Equipment Failure	38%	3Q 2021	
	SAIFI	5.30	Line Failure	7%		
	CAIDI	376.44	All Other	0%		
	Customer Minutes	618,491				
	Customers Affected	1,643				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Dec-20
	Repair equipment failure				Complete	Jun-21
	Repair line failure				Complete	Aug-21

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
33	Tower 51	00051-11	Johnstown	578	27	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.99	Trees Off Row-Tree	75%	2Q 2021	
	SAIDI	989.25	Equipment Failure	15%	3Q 2021	
	SAIFI	4.90	All Other	10%		
	CAIDI	201.90				
	Customer Minutes	571,787				
	Customers Affected	2,832				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	May-21
	Repair damage caused by trees during a storm				Complete	Jun-21
	Repair damage caused by trees during a storm				Complete	Jul-21
	Repair equipment failure				Complete	Aug-21
	Rank	Substation	Circuit	District	Customers	Outages
34	Natl Forge Sw Station	00577-41	Warren	1,104	53	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.98	Trees Off Row-Tree	54%	4Q 2020	
	SAIDI	516.06	Unknown	18%	1Q 2021	
	SAIFI	3.46	Wind	16%	2Q 2021	
	CAIDI	149.03	All Other	12%	3Q 2021	
	Customer Minutes	569,735				
	Customers Affected	3,823				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by wind				Complete	Nov-20
	Install advanced Dx protective devices				Complete	Apr-21
	Repair damage caused by trees during a storm				Complete	Jun-21
	Restore recloser operation of unknown cause				Complete	Jul-21
	Circuit inspection				Complete	Sep-21
Rank	Substation	Circuit	District	Customers	Outages	
35	Tionesta	00344-51	Oil City	517	20	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.97	Trees Off Row-Tree	87%	3Q 2021	
	SAIDI	1,086.05	Forced Outage	6%		
	SAIFI	1.93	Equipment Failure	4%		
	CAIDI	563.74	All Other	3%		
	Customer Minutes	561,488				
	Customers Affected	996				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees				Complete	Jul-21
Repair damage caused by trees				Complete	Sep-21	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
36	Cranberry	00350-51	Oil City	1,073	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.92	Trees Off Row-Tree	59%	1Q 2021
	SAIDI	498.38	Equipment Failure	22%	2Q 2021
	SAIFI	2.14	Vehicle	9%	3Q 2021
	CAIDI	233.21	All Other	10%	
	Customer Minutes	534,759			
	Customers Affected	2,293			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Mar-21
	Repair equipment failure			Complete	Jun-21
Rank	Substation	Circuit	District	Customers	Outages
37	Thompson	00446-65	Montrose	1,241	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.92	Trees Off Row-Tree	33%	3Q 2021
	SAIDI	427.97	Unknown	32%	
	SAIFI	2.56	Equipment Failure	24%	
	CAIDI	167.07	All Other	11%	
	Customer Minutes	531,116			
	Customers Affected	3,179			
	Remedial Action Planned or Taken			Status	Progress
	Replaced fuse blown due to lightning			Complete	Jul-21
	Repair damage caused by trees during a storm			Complete	Jul-21
Repair equipment failure			Complete	Sep-21	
Rank	Substation	Circuit	District	Customers	Outages
38	Meshoppen	00283-65	Montrose	387	16
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.91	Trees Off Row-Tree	42%	4Q 2020
	SAIDI	1,369.10	Unknown	24%	1Q 2021
	SAIFI	2.28	Forced Outage	11%	2Q 2021
	CAIDI	601.41	All Other	23%	3Q 2021
	Customer Minutes	529,841			
	Customers Affected	881			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees			Complete	Mar-21
	Restore fuse operation of unknown cause			Complete	Jan-21
Repair damage caused by trees during a storm			Complete	May-21	
Circuit inspection			Complete	Jun-21	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
39	N Meshoppen Tran	00531-65	Montrose	403	46	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.90	Trees Off Row-Tree	46%	3Q 2021	
	SAIDI	1,294.67	Lightning	29%		
	SAIFI	4.53	Unknown	10%		
	CAIDI	285.89	All Other	15%		
	Customer Minutes	521,753				
	Customers Affected	1,825				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	May-21
	Repair damage caused by lightning				Complete	Jul-21
	Rank	Substation	Circuit	District	Customers	Outages
40	East Towanda	00525-62	Towanda	668	49	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.89	Trees Off Row-Tree	50%	1Q 2021	
	SAIDI	769.81	Unknown	21%	2Q 2021	
	SAIFI	2.12	Wind	12%	3Q 2021	
	CAIDI	362.65	All Other	17%		
	Customer Minutes	514,232				
	Customers Affected	1,418				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Nov-20
	Restore fuse operation of unknown cause				Complete	Jan-21
	Repair damage caused by wind				Complete	Mar-21
Repair damage caused by trees during a storm				Complete	Jul-21	
Rank	Substation	Circuit	District	Customers	Outages	
41	Thompson	00436-65	Montrose	1,367	58	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.88	Trees Off Row-Tree	57%	3Q 2021	
	SAIDI	373.90	Equipment Failure	13%		
	SAIFI	1.88	Vehicle	10%		
	CAIDI	198.73	All Other	20%		
	Customer Minutes	511,125				
	Customers Affected	2,572				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	Mar-21
	Repair damage caused by trees				Complete	Jul-21
	Repair damage caused by trees				Complete	Sep-21

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
42	Spangler	00052-72	Altoona	1,494	15	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.88	Trees Off Row-Tree	99%	1Q 2021	
	SAIDI	340.18	Animal	1%	2Q 2021	
	SAIFI	2.09	Equipment Failure	0%	3Q 2021	
	CAIDI	162.63	All Other	0%		
	Customer Minutes	508,231				
	Customers Affected	3,125				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	Apr-20
	Repair damage caused by trees during a storm				Complete	Mar-21
	Repair damage caused by trees				Complete	Aug-21
Rank	Substation	Circuit	District	Customers	Outages	
43	East Hickory	00200-41	Warren	477	30	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.86	Trees Off Row-Tree	96%	2Q 2021	
	SAIDI	1,049.99	Animal	1%	3Q 2021	
	SAIFI	3.14	Trees - Sec/Service	1%		
	CAIDI	334.79	All Other	2%		
	Customer Minutes	500,846				
	Customers Affected	1,496				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Jun-21
	Repair damage caused by trees during a storm				Complete	Jun-21
	Rank	Substation	Circuit	District	Customers	Outages
44	Somerset	00013-12	Somerset	2,043	40	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.85	Trees Off Row-Tree	60%	3Q 2021	
	SAIDI	242.76	Equipment Failure	20%		
	SAIFI	2.15	Wind	14%		
	CAIDI	112.95	All Other	6%		
	Customer Minutes	495,967				
	Customers Affected	4,391				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	Feb-21
	Repair damage caused by trees during a storm				Complete	May-21
	Repair damage caused by trees during a storm				Complete	Aug-21

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
45	Logan	00701-81	Lewistown	1,373	25	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.85	Vehicle	54%	3Q 2021	
	SAIDI	357.86	Line Failure	29%		
	SAIFI	1.78	Trees Off Row-Tree	8%		
	CAIDI	200.79	All Other	9%		
	Customer Minutes	491,341				
	Customers Affected	2,447				
	Remedial Action Planned or Taken				Status	Progress
	Repaired damage caused by a vehicle				Complete	Jul-21
	Repair line failure				Complete	Sep-21
	Rank	Substation	Circuit	District	Customers	Outages
46	Samuel Rea Car Shop	00032-71	Altoona	820	27	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.85	Line Failure	62%	2Q 2021	
	SAIDI	598.05	Bird	13%	3Q 2021	
	SAIFI	3.88	Lightning	12%		
	CAIDI	154.12	All Other	14%		
	Customer Minutes	490,400				
	Customers Affected	3,182				
	Remedial Action Planned or Taken				Status	Progress
	Repair line failure				Complete	May-21
	Repair damage caused by bird				Complete	Apr-21
	Repair damage caused by trees during a storm				Complete	May-21
Rank	Substation	Circuit	District	Customers	Outages	
47	N Meshoppen Tran	00530-65	Montrose	495	31	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.84	Trees Off Row-Tree	75%	1Q 2021	
	SAIDI	990.33	Line Failure	13%	2Q 2021	
	SAIFI	4.47	Unknown	6%	3Q 2021	
	CAIDI	221.72	All Other	6%		
	Customer Minutes	490,214				
	Customers Affected	2,211				
	Remedial Action Planned or Taken				Status	Progress
	Repair line failure				Complete	Dec-20
Repair damage caused by trees during a storm				Complete	Mar-21	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
48	Claysburg	00044-71	Altoona	1,193	29	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.84	Trees Off Row-Tree	56%	3Q 2021	
	SAIDI	406.37	Forced Outage	15%		
	SAIFI	2.02	Vehicle	14%		
	CAIDI	200.83	All Other	15%		
	Customer Minutes	484,800				
	Customers Affected	2,414				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Jun-21
	Repair equipment failure				Complete	Aug-21
	Repair damage caused by a vehicle accident				Complete	Sep-21
	Rank	Substation	Circuit	District	Customers	Outages
49	Shawville	00151-21	Clearfield	2,249	34	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.83	Equipment Failure	40%	1Q 2021	
	SAIDI	213.69	Trees Off Row-Tree	27%	2Q 2021	
	SAIFI	3.45	Lightning	19%	3Q 2021	
	CAIDI	61.99	All Other	14%		
	Customer Minutes	480,598				
	Customers Affected	7,753				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Mar-21
	Repair equipment failure				Complete	Mar-21
	Repair damage caused by lightning				Complete	Aug-21
	Rank	Substation	Circuit	District	Customers	Outages
50	Millcreek	00055-11	Johnstown	1,826	16	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.81	Forced Outage	42%	2Q 2021	
	SAIDI	258.45	Trees Off Row-Tree	27%	3Q 2021	
	SAIFI	2.75	Vehicle	18%		
	CAIDI	94.05	All Other	13%		
	Customer Minutes	471,934				
	Customers Affected	5,018				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	Mar-21
	Repair damage caused by trees				Complete	Aug-21

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
51	Brookville West	00121-23	Dubois	769	38	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.81	Trees Off Row-Tree	41%	4Q 2020	
	SAIDI	608.88	Equipment Failure	32%	2Q 2021	
	SAIFI	2.11	Trees Off Row-Limb	13%	3Q 2021	
	CAIDI	288.14	All Other	14%		
	Customer Minutes	468,231				
	Customers Affected	1,625				
	Remedial Action Planned or Taken				Status	Progress
	Repair equipment failure				Complete	Nov-20
	Repair damage caused by trees during a storm				Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages	
52	Erie South	00259-31	Erie	2,649	67	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.80	Forced Outage	51%	1Q 2021	
	SAIDI	175.88	Trees Off Row-Tree	28%	3Q 2021	
	SAIFI	2.33	Vehicle	10%		
	CAIDI	75.55	All Other	12%		
	Customer Minutes	465,910				
	Customers Affected	6,167				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm					Jun-21
	Repair equipment failure					Jul-21
Repair damage caused by vehicle accident					Sep-21	
Rank	Substation	Circuit	District	Customers	Outages	
53	Tiffany	00440-65	Montrose	1,208	27	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.80	Trees Off Row-Tree	54%	3Q 2021	
	SAIDI	384.16	Equipment Failure	22%		
	SAIFI	4.04	Lightning	12%		
	CAIDI	95.00	All Other	12%		
	Customer Minutes	464,069				
	Customers Affected	4,885				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by lightning				Complete	Jul-21
	Repair damage caused by trees				Complete	Jul-21
Repair equipment failure				Complete	Jul-21	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
54	Punxsutawney	00118-23	Dubois	1,207	29	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.79	Line Failure	36%	4Q 2020	
	SAIDI	380.23	Trees Off Row-Tree	32%	3Q 2021	
	SAIFI	4.34	Animal	16%		
	CAIDI	87.55	All Other	16%		
	Customer Minutes	458,936				
	Customers Affected	5,242				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by animal				Complete	Jul-21
	Repair damage caused by trees during a storm				Complete	Aug-21
	Repair line failure				Complete	Aug-21
	Rank	Substation	Circuit	District	Customers	Outages
55	Punxsutawney	00117-23	Dubois	304	18	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.78	Trees Off Row-Tree	74%	3Q 2021	
	SAIDI	1,492.74	Lightning	24%		
	SAIFI	2.97	Unknown	1%		
	CAIDI	501.98	All Other	1%		
	Customer Minutes	453,794				
	Customers Affected	904				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by lightning				Complete	Jun-21
	Repair damage caused by trees during a storm				Complete	Aug-21
	Rank	Substation	Circuit	District	Customers	Outages
	56	Glen Campbell	00680-21	Clearfield	440	34
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		0.76	Trees Off Row-Tree	82%	3Q 2021	
SAIDI		1,005.40	Equipment Failure	9%		
SAIFI		7.08	Trees Off Row-Limb	5%		
CAIDI		141.97	All Other	4%		
Customer Minutes		442,377				
Customers Affected		3,116				
Remedial Action Planned or Taken				Status	Progress	
Repair damage caused by trees during a storm				Complete	Jul-21	
Repair damage caused by trees during a storm				Complete	Sep-21	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
57	Portage	00635-72	Altoona	193	9
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.75	Equipment Failure	51%	3Q 2021
	SAIDI	2,259.94	Vehicle	27%	
	SAIFI	2.68	Trees Off Row-Tree	22%	
	CAIDI	842.02	All Other	0%	
	Customer Minutes	436,168			
	Customers Affected	518			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Mar-21
	Repair damage caused by vehicle accident			Complete	Sep-21
	Repair damage caused by trees during a storm			Complete	Sep-21
	Rank	Substation	Circuit	District	Customers
58	North Towanda	00521-62	Towanda	973	56
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.74	Trees Off Row-Tree	75%	3Q 2021
	SAIDI	440.15	Equipment Failure	12%	
	SAIFI	2.45	Unknown	5%	
	CAIDI	179.94	All Other	8%	
	Customer Minutes	428,264			
	Customers Affected	2,380			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Feb-21
	Repair damage caused by trees during a storm			Complete	Jun-21
	Repair damage caused by trees during a storm			Complete	Jul-21
	Rank	Substation	Circuit	District	Customers
59	Snakespring	00628-73	Altoona	1,019	39
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.73	Trees Off Row-Tree	42%	1Q 2021
	SAIDI	418.27	Equipment Failure	35%	2Q 2021
	SAIFI	2.08	Trees Off Row-Limb	13%	3Q 2021
	CAIDI	201.33	All Other	11%	
	Customer Minutes	426,213			
	Customers Affected	2,117			
	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	
60	North Orwell	00300-61	Towanda	367	17	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.73	Trees Off Row-Tree	97%	3Q 2021	
	SAIDI	1,150.12	Unknown	3%		
	SAIFI	3.36	All Other	0%		
	CAIDI	342.61				
	Customer Minutes	422,094				
	Customers Affected	1,232				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	May-21
	Repair damage caused by trees during a storm				Complete	Jul-21
	Rank	Substation	Circuit	District	Customers	Outages
61	Reeder Street	00039-11	Johnstown	1,697	22	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.72	Trees Off Row-Tree	67%	2Q 2021	
	SAIDI	246.44	Line Failure	28%	3Q 2021	
	SAIFI	2.42	Equipment Failure	2%		
	CAIDI	101.88	All Other	2%		
	Customer Minutes	418,206				
	Customers Affected	4,105				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	May-21
	Repair line failure				Complete	May-21
	Rank	Substation	Circuit	District	Customers	Outages
62	Glory	00106-13	Indiana	265	22	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	0.71	Trees Off Row-Tree	92%	3Q 2021	
	SAIDI	1,544.54	Wind	3%		
	SAIFI	3.80	Equipment Failure	1%		
	CAIDI	406.86	All Other	4%		
	Customer Minutes	409,302				
	Customers Affected	1,006				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Jul-21
	Repair damage caused by trees				Complete	Sep-21

Penelec					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	4Q 2020	1Q 2021	2Q 2021	3Q 2021
Birmingham	00168-22	X		X	
Blairsville East	00082-13	X		X	
Blossburg	00310-63		X	X	
Bradford South	00106-42	X	X	X	
Brookville	00125-23	X	X	X	
Corry East	00247-43	X	X		
Dubois Central	00119-23	X	X		
East Hickory	00201-41	X	X	X	
East Sayre	00518-61	X	X	X	
French Road	00222-31	X	X		
Hooversville	00018-12	X	X		
Hooversville	00019-12	X	X		
Knox	00323-51	X	X		
Laurel Lake Tran	00449-65	X	X		
Lewis Run	00408-42	X	X	X	
Lewis Run	00409-42	X	X	X	
Mansfield	00559-63	X	X		
McVeytown	00112-81	X	X		
Mill Street	00144-42	X	X	X	
Morgan Street	00233-52	X	X	X	
North Warren	00207-41	X	X		
North Warren	00596-41	X	X	X	
Northeast	00592-31	X	X	X	
Rockwood	00023-12	X	X		
Scalp Level	00932-11		X	X	
Somerset	00017-12	X	X		
Stoystown	00402-12	X	X		
Two Mile	00127-42	X	X	X	
Union City	00208-43	X	X	X	
Warren 5th Avenue	00250-41	X		X	
Wellsboro	00324-63	X	X		

Penelec				
Unranked circuits with remedial actions scheduled to be or recently completed				
Substation	Circuit	Remedial Action Planned or Taken	Status of Remedial Work Completed	Progress of Remedial Work or Date Completed
Clearfield	00148-21	On cycle tree trimming	Complete	Aug-21
Corry East	00247-43	On cycle tree trimming	To be completed 2021	92%
East Sayre	00518-61	Targeted circuit rehabilitation	To be Completed 2022	90%
Farmers Valley	00125-42	Install advanced Dx protective devices	Complete	Sep-21
Lowell Avenue	00518-31	Circuit inspection	Complete	Sep-21
McVeytown	00112-81	On cycle tree trimming	To be completed 2021	99%
Rockwood	00023-12	On cycle tree trimming	Complete	Aug-21
Stoystown	00402-12	On cycle tree trimming	Complete	Aug-21

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
1	Camp Reynolds	W-134	Clark	1,744	86	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	6.62	Trees Off Row-Tree	88%	4Q 2020	
	SAIDI	631.73	Line Failure	4%	1Q 2021	
	SAIFI	1.59	Bird	2%	2Q 2021	
	CAIDI	398	All Other	7%	3Q 2021	
	Customer Minutes	1,101,738				
	Customers Affected	2,768				
	Remedial Action Planned or Taken				Status	Progress
	Repair line failure				Complete	Oct-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Repair damage caused by animal contact				Complete	May-21
	Repair damage caused by trees during a storm				Complete	Jul-21
	Repair damage caused by trees during a storm				Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages	
2	Mcdowell	W-121	Clark	699	36	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.74	Trees Off Row-Tree	87%	3Q 2021	
	SAIDI	1,126.77	Unknown	3%		
	SAIFI	2.83	Vehicle	3%		
	CAIDI	398	All Other	7%		
	Customer Minutes	787,609				
	Customers Affected	1,981				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Jul-21
	Repair damage caused by trees during a storm				Complete	Jul-21
	Rank	Substation	Circuit	District	Customers	Outages
	3	Ingomar	D620	Zelienople	1,268	16
		Reliability		Outage by Cause		Previously Ranked
SAIDI Impact		4.44	Trees Off Row-Tree	94%	3Q 2021	
SAIDI		582.96	Animal	2%		
SAIFI		2.97	Trees Off Row-Limb	2%		
CAIDI		196	All Other	2%		
Customer Minutes		739,199				
Customers Affected		3,766				
Remedial Action Planned or Taken				Status	Progress	
Repair damage caused by tree.				Complete	Jul-21	
Repair damage caused by trees during a storm				Complete	Aug-21	
Repair damage caused by trees during a storm				Complete	Sep-21	

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
4	Koppel	D-531	New Castle	975	31	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.79	Trees Off Row-Tree	81%	4Q 2020	
	SAIDI	646.56	Line Failure	9%	1Q 2021	
	SAIFI	1.28	Equipment Failure	5%	2Q 2021	
	CAIDI	505	All Other	5%	3Q 2021	
	Customer Minutes	630,399				
	Customers Affected	1,248				
	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
	Repair damage caused by tree.				Complete	Jun-21
	Rank	Substation	Circuit	District	Customers	Outages
5	Seneca	W700	Zelienople	1,014	41	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.61	Trees Off Row-Tree	81%	4Q 2020	
	SAIDI	592.50	Equipment Failure	10%	3Q 2021	
	SAIFI	2.73	Line Failure	4%		
	CAIDI	217	All Other	5%		
	Customer Minutes	600,798				
	Customers Affected	2,773				
	Remedial Action Planned or Taken				Status	Progress
	Pole was replaced and equipment repaired				Complete	Dec-20
	Repair damage caused by trees during a storm				Complete	Jul-21
	Repair damage caused by trees during a storm				Complete	Sep-21
	Rank	Substation	Circuit	District	Customers	Outages
6	Mercer	W-167	Clark	852	40	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.73	Trees Off Row-Tree	82%	4Q 2020	
	SAIDI	533.10	Equipment Failure	6%	1Q 2021	
	SAIFI	1.12	Line Failure	6%	2Q 2021	
	CAIDI	478	All Other	7%	3Q 2021	
	Customer Minutes	454,198				
	Customers Affected	950				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Nov-20
	Repair line failure				Complete	May-21
	Repair equipment failure during storm				Complete	Sep-21

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
7	Chippewa	D-558	Zelienople	1,117	13	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.70	Trees Off Row-Tree	91%	2Q 2021	
	SAIDI	401.55	Vehicle	7%	3Q 2021	
	SAIFI	1.31	Bird	1%		
	CAIDI	306	All Other	1%		
	Customer Minutes	448,527				
	Customers Affected	1,465				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by trees during a storm				Complete	Nov-20
	Repair damage caused by a vehicle				Complete	Jun-21
	Rank	Substation	Circuit	District	Customers	Outages
8	Richard	W745	Zelienople	639	20	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.69	Trees Off Row-Tree	74%	2Q 2021	
	SAIDI	699.92	Trees Off Row-Limb	25%	3Q 2021	
	SAIFI	4.17	Trees On Row	1%		
	CAIDI	168	All Other	0%		
	Customer Minutes	447,252				
	Customers Affected	2,666				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by tree				Complete	Mar-21
	Repair damage caused by trees during a storm				Complete	Jun-21
	Repair damage caused by tree				Complete	Jul-21
Repair damage caused by trees during a storm				Complete	Aug-21	
Rank	Substation	Circuit	District	Customers	Outages	
9	Warrendale	D625	Zelienople	1,276	21	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	2.61	Trees Off Row-Tree	86%	3Q 2021	
	SAIDI	340.20	Equipment Failure	10%		
	SAIFI	2.44	Animal	3%		
	CAIDI	139	All Other	2%		
	Customer Minutes	434,097				
	Customers Affected	3,115				
	Remedial Action Planned or Taken				Status	Progress
	Repair damage caused by tree				Complete	Jul-21
	Repair damage caused by trees during a storm				Complete	Aug-21
	Repair damage caused by trees during a storm				Complete	Sep-21

Penn Power					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	4Q 2020	1Q 2021	2Q 2021	3Q 2021
Conneaut	W-174		X	X	
Grant Street	W-421	X	X		
Hartstown	W-126		X	X	
Knox	D-509	X	X		
Perry	W-156	X	X	X	

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

West Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
1	Avella	W Middletown	Washington	1,056	85	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.9	Trees off ROW	65%	Q4 2020	
	SAIDI	3,318	Unknown	11%	Q1 2021	
	SAIFI	6.94	Vehicle	11%	Q2 2021	
	CAIDI	478	All Other	13%	Q3 2021	
	Customer Minutes	3,503,826				
	Customers Affected	7,333				
	Remedial Action Planned or Taken			Status	Progress	
	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			Complete	Jun-21	
	Repair damage caused by a tree during a storm			Complete	Jun-21	
	Repair damage caused by a vehicle			Complete	Jul-21	
Rank	Substation	Circuit	District	Customers	Outages	
2	Amity	Banetown	Washington	1,479	79	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.8	Trees off ROW	90%	Q4 2020	
	SAIDI	1879	Line Failure	5%	Q2 2021	
	SAIFI	5.14	Unknown	3%	Q3 2021	
	CAIDI	366	All Other	2%		
	Customer Minutes	2,778,969				
	Customers Affected	7,602				
	Remedial Action Planned or Taken			Status	Progress	
	Forced outage to repair damage			Complete	Oct-20	
	Repair damage caused by a tree during a storm			Complete	May-21	
	Repair damage caused by a tree during a storm			Complete	Aug-21	
	Rank	Substation	Circuit	District	Customers	Outages
	3	Treveskyn	Treveskyn	Boyce	1,369	32
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		3.4	Trees off ROW	96%	Q3 2021	
SAIDI		1808	Line Failure	2%		
SAIFI		2.73	Forced Outage	1%		
CAIDI		662	All Other	1%		
Customer Minutes		2,474,641				
Customers Affected		3,737				
Remedial Action Planned or Taken			Status	Progress		
Overhead Circuit Inspection			Complete	Apr-21		
Repair damage caused by a tree during a storm			Complete	Aug-21		

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
4	Rutan	Bristoria	Jefferson	1130	102
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.9	Trees off ROW	64%	Q4 2020
	SAIDI	1,865	Line Failure	16%	Q1 2021
	SAIFI	2.86	Unknown	14%	Q2 2021
	CAIDI	653	All Other	6%	Q3 2021
	Customer Minutes	2,107,254			
	Customers Affected	3,229			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure during a storm			Complete	Nov-20
	Repair line failure			Complete	Mar-21
	Restore unknown outage during a storm			Complete	Jun-21
Repair damage caused by a tree during a storm			Complete	Aug-21	
Rank	Substation	Circuit	District	Customers	Outages
5	McDonald	Noblestown	Boyce	1,832	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.5	Unknown	83%	Q3 2021
	SAIDI	985	Trees off ROW	10%	
	SAIFI	1.98	Trees on ROW	4%	
	CAIDI	497	All Other	3%	
	Customer Minutes	1,803,697			
	Customers Affected	3,628			
	Remedial Action Planned or Taken			Status	Progress
Restore unknown outage			Complete	Aug-21	
Rank	Substation	Circuit	District	Customers	Outages
6	Robbins	Balkan	Jeannette	1694	16
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.2	Trees off ROW	75%	Q3 2021
	SAIDI	924	Trees on ROW	25%	
	SAIFI	3.47	All Other	0%	
	CAIDI	266			
	Customer Minutes	1,564,696			
	Customers Affected	5,877			
	Remedial Action Planned or Taken			Status	Progress
Repair damage caused by a tree during a storm			Complete	Aug-21	
On-cycle tree trimming			Complete	Sep-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
7	Karns City	Kaylor	Butler	1155	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.1	Trees off ROW	87%	Q4 2020
	SAIDI	1,308	Line Failure	10%	Q1 2021
	SAIFI	2.7	Unknown	1%	Q2 2021
	CAIDI	485	All Other	2%	Q3 2021
	Customer Minutes	1,510,379			
	Customers Affected	3,116			
	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
	Zone 1 Infrared Inspection			Complete	Jun-21
	Repair damage caused by a tree during a storm			Complete	Apr-21
	Repair line failure			Complete	Sep-21
Rank	Substation	Circuit	District	Customers	Outages
8	Sardis	Mamont	Arnold	1,070	8
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2	Trees off ROW	88%	Q4 2020
	SAIDI	1375	Trees on ROW	12%	Q1 2021
	SAIFI	1.7	All Other	0%	Q2 2021
	CAIDI	807			Q3 2021
	Customer Minutes	1,471,600			
	Customers Affected	1,824			
	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			Complete	Sep-21

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
9	Piney Fork	Gillhall	Charleroi	2,182	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2	Line Failure	38%	Q4 2020
	SAIDI	658	Vehicle	33%	Q1 2021
	SAIFI	2.84	Trees off ROW	11%	Q2 2021
	CAIDI	232	All Other	18%	Q3 2021
	Customer Minutes	1,436,056			
	Customers Affected	6,190			
	Remedial Action Planned or Taken			Status	Progress
	Restore unknown outage			Complete	Oct-20
	Repair damage caused by a tree during a storm			Complete	Feb-21
	Zone 1 Infrared Inspection			Complete	May-21
	Repair damage caused by a tree during a storm			Complete	Jun-21
	Repair line failure			Complete	Aug-21
Rank	Substation	Circuit	District	Customers	Outages
10	Vandergrift	Grifflo Park	Arnold	2,735	58
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2	Trees off ROW	72%	Q4 2020
	SAIDI	515	Equipment Failure	13%	Q1 2021
	SAIFI	2.44	Human Error - Company	8%	Q2 2021
	CAIDI	211	All Other	7%	Q3 2021
	Customer Minutes	1,408,093			
	Customers Affected	6,674			
	Remedial Action Planned or Taken			Status	Progress
	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			Complete	Jun-21
	Repair damage caused by a tree during a storm			Complete	Jun-21
	Repair damage caused by a tree during a storm			Complete	Aug-21

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
11	Thomas	Thomas	Boyce	1,346	56
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.9	Trees off ROW	40%	Q4 2020
	SAIDI	1043	Vehicle	26%	Q1 2021
	SAIFI	3.86	Unknown	17%	Q2 2021
	CAIDI	270	All Other	17%	Q3 2021
	Customer Minutes	1,403,427			
	Customers Affected	5,192			
	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
	Forced outage to repair damage during a storm			Complete	Jun-21
	Repair damage caused by a vehicle during a storm			Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages
12	Waterville	Waterville	State College	357	36
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.9	Trees off ROW	51%	Q4 2020
	SAIDI	3841	Other Electric Utility	47%	Q1 2021
	SAIFI	12.18	Unknown	2%	Q2 2021
	CAIDI	315	All Other	0%	Q3 2021
	Customer Minutes	1,371,326			
	Customers Affected	4,348			
	Remedial Action Planned or Taken			Status	Progress
	On-cycle tree trimming			Complete	Nov-20
	Restore outage caused by other electric utility during a storm			Complete	Mar-21
	Restore outage caused by other electric utility			Complete	Jun-21
	Repair damage caused by a tree during a storm			Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages
13	Flintstone	Chaneyville	Hyndman	576	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.7	Trees off ROW	73%	Q3 2021
	SAIDI	2117	Trees on ROW	26%	
	SAIFI	5.26	Forced Outage	0.2%	
	CAIDI	402	All Other	0.8%	
	Customer Minutes	1,219,324			
	Customers Affected	3,030			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-21
On-cycle tree trimming			To be completed 2021	99%	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
14	Cecil	Murray Hill	Boyce	1791	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.7	Trees off ROW	90%	Q3 2021
	SAIDI	670	Forced Outage	4%	
	SAIFI	2.43	Trees on ROW	3%	
	CAIDI	276	All Other	3%	
	Customer Minutes	1,200,303			
	Customers Affected	4,348			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-21
Rank	Substation	Circuit	District	Customers	Outages
15	Bethel Park	Dashwood	Boyce	2,161	22
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.6	Trees off ROW	63%	Q3 2021
	SAIDI	545	Trees on ROW	20%	
	SAIFI	2	Line Failure	7%	
	CAIDI	273	All Other	10%	
	Customer Minutes	1,178,314			
	Customers Affected	4,312			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-21
Rank	Substation	Circuit	District	Customers	Outages
16	Dutch Fork	Claysville	Washington	1582	72
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.6	Trees off ROW	68%	Q4 2020
	SAIDI	724	Vehicle	11%	Q2 2021
	SAIFI	2.13	Equipment Failure	8%	Q3 2021
	CAIDI	340	All Other	13%	
	Customer Minutes	1,146,128			
	Customers Affected	3,367			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Nov-20
Repair damage caused by a vehicle			Complete	Apr-21	
Repair damage caused by a tree			Complete	Sep-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
17	Avella	Penowa	Washington	629	66
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.6	Trees off ROW	67%	Q2 2021
	SAIDI	1818	Unknown	26%	Q3 2021
	SAIFI	3.48	Trees on ROW	4%	
	CAIDI	523	All Other	3%	
	Customer Minutes	1,143,691			
	Customers Affected	2,186			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Mar-21
	Repair damage caused by a tree during a storm			Complete	Jun-21
	Restore unknown outage during a storm			Complete	Jun-21
	Repair damage caused by a tree during a storm			Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages
18	Bentleyville	Ellsworth	Charleroi	1,264	35
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.6	Forced Outage	57%	Q3 2021
	SAIDI	900	Trees off ROW	33%	
	SAIFI	2.4	Unknown	9%	
	CAIDI	375	All Other	1%	
	Customer Minutes	1,138,171			
	Customers Affected	3,035			
	Remedial Action Planned or Taken			Status	Progress
	Forced outage to repair damage during a storm			Complete	Aug-21
Rank	Substation	Circuit	District	Customers	Outages
19	Gordon	Wolfdale	Washington	2088	62
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Trees off ROW	63%	Q3 2021
	SAIDI	493	Wind	11%	
	SAIFI	2.06	Line Failure	8%	
	CAIDI	239	All Other	18%	
	Customer Minutes	1,029,007			
	Customers Affected	4,303			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	May-21
Repair damage caused by a tree during a storm			Complete	Aug-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
20	Driftwood	Driftwood	St. Marys	898	31
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Human Error - Non-company	49%	Q4 2020
	SAIDI	1107	Equipment Failure	30%	Q1 2021
	SAIFI	2.33	Trees off ROW	15%	Q2 2021
	CAIDI	475	All Other	6%	Q3 2021
	Customer Minutes	993,767			
	Customers Affected	2,093			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Dec-20
	Repair damage caused by wind during a storm			Complete	Mar-21
	Repair damage caused by Human Error Non-Company			Complete	Apr-21
	Repair damage caused by a tree			Complete	Sep-21
Rank	Substation	Circuit	District	Customers	Outages
21	East Butler	East Butler	Butler	550	9
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.3	Trees off ROW	91%	Q3 2021
	SAIDI	1740	Line Failure	7%	
	SAIFI	2.02	Vehicle	1%	
	CAIDI	861	All Other	1%	
	Customer Minutes	957,132			
	Customers Affected	1,112			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Aug-21
Rank	Substation	Circuit	District	Customers	Outages
22	Crossgates	Robinhood	Boyce	1,090	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.3	Trees off ROW	65%	Q2 2021
	SAIDI	877	Trees on ROW	28%	Q3 2021
	SAIFI	2.6	Forced Outage	5%	
	CAIDI	337	All Other	2%	
	Customer Minutes	956,186			
	Customers Affected	2,836			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	May-21
Repair damage caused by a tree during a storm			Complete	Jul-21	

West Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
23	Frazier	Star Junction	Pleasant Valley	1,713	19	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.3	Vehicle	75%	Q4 2020	
	SAIDI	551	Equipment Failure	15%	Q1 2021	
	SAIFI	3.29	Trees off ROW	6%	Q2 2021	
	CAIDI	168	All Other	4%	Q3 2021	
	Customer Minutes	944,597				
	Customers Affected	5,630				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by a vehicle			Complete	Oct-20	
	Repair line failure			Complete	Jan-21	
	Repair damage caused by a tree			Complete	Apr-21	
	Repair equipment failure			Complete	Jul-21	
	On-cycle tree trimming			Complete	Sep-21	
Rank	Substation	Circuit	District	Customers	Outages	
24	Port Matilda	Port Matilda	State College	1,441	60	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	1.3	Trees off ROW	74%	Q2 2021	
	SAIDI	653	Equipment Failure	23%	Q3 2021	
	SAIFI	2.79	Unknown	1%		
	CAIDI	234	All Other	2%		
	Customer Minutes	941,691				
	Customers Affected	4,027				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by a tree			Complete	Jun-21	
	Repair equipment failure			Complete	Aug-21	
	Overhead circuit inspection			To be completed 2021	99%	
	Rank	Substation	Circuit	District	Customers	Outages
	25	Smith	Francis Mine	Washington	1,436	60
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		1.3	Trees off ROW	64%	Q1 2021	
SAIDI		650	Line Failure	22%	Q2 2021	
SAIFI		3.08	Trees on ROW	7%	Q3 2021	
CAIDI		211	All Other	7%		
Customer Minutes		933,033				
Customers Affected		4,428				
Remedial Action Planned or Taken			Status	Progress		
Repair damage caused by a tree during a storm			Complete	Mar-21		
Repair damage caused by a tree during a storm			Complete	Jun-21		
On-cycle tree trimming			Complete	Aug-21		
Repair damage caused by a tree			Complete	Sep-21		

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
26	Pangburn Hill	Pangburn Hill	Charleroi	751	26
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.3	Trees off ROW	96%	Q2 2021
	SAIDI	1226	Equipment Failure	2%	Q3 2021
	SAIFI	3.15	Wind	2%	
	CAIDI	389	All Other	0%	
	Customer Minutes	920,834			
	Customers Affected	2,365			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Apr-21
	Repair damage caused by a tree during a storm			Complete	Aug-21
Rank	Substation	Circuit	District	Customers	Outages
27	Weedville	Weedville	St. Marys	1,431	45
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees off ROW	76%	Q4 2020
	SAIDI	599	Human Error - Non-company	14%	Q1 2021
	SAIFI	3	Forced Outage	5%	Q2 2021
	CAIDI	199	All Other	5%	Q3 2021
	Customer Minutes	856,816			
	Customers Affected	4,297			
	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
Repair damage caused by a tree			Complete	May-21	
Forced outage to repair damage during a storm			Complete	Jul-21	
Rank	Substation	Circuit	District	Customers	Outages
28	Shingletown	Windmill Rd.	State College	1,067	19
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees off ROW	84%	Q3 2021
	SAIDI	781	Equipment Failure	15%	
	SAIFI	4.02	Animal	0.3%	
	CAIDI	194	All Other	0.7%	
	Customer Minutes	833,092			
	Customers Affected	4,287			
	Remedial Action Planned or Taken			Status	Progress
Repair damage caused by a tree during a storm			Complete	Jul-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
29	Dry Run	Town	Charleroi	1,814	16
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	67%	Q2 2021
	SAIDI	457	Line Failure	17%	Q3 2021
	SAIFI	3.38	Forced Outage	13%	
	CAIDI	135	All Other	3%	
	Customer Minutes	829,298			
	Customers Affected	6,133			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jun-21
	Repair equipment failure			Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages
30	Marvindale	Clermont	St. Marys	857	20
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	98%	Q4 2020
	SAIDI	967	Lightning	1%	Q1 2021
	SAIFI	1.95	Equipment Failure	0.2%	Q2 2021
	CAIDI	497	All Other	0.8%	Q3 2021
	Customer Minutes	828,602			
	Customers Affected	1,668			
	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	Mar-21
Repair damage caused by a tree during a storm			Complete	Apr-21	
Repair damage caused by lightning			Complete	Jul-21	
Rank	Substation	Circuit	District	Customers	Outages
31	Robbins	Rilton	Jeannette	1,537	22
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	88%	Q4 2020
	SAIDI	538	Trees on ROW	8%	Q1 2021
	SAIFI	2.8	Vehicle	1%	Q2 2021
	CAIDI	193	All Other	3%	Q3 2021
	Customer Minutes	827,482			
	Customers Affected	4,296			
	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	Jun-21
Repair damage caused by a tree during a storm			Complete	Aug-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
32	Fountaindale	Carroll Valley	Waynesboro	1263	58
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	89%	Q3 2021
	SAIDI	650	Unknown	5%	
	SAIFI	2.91	Forced Outage	2%	
	CAIDI	223	All Other	4%	
	Customer Minutes	820,778			
	Customers Affected	3,681			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Sep-21
	On-cycle tree trimming			To be completed 2021	98%
Rank	Substation	Circuit	District	Customers	Outages
33	Franklin	Rogersville	Jefferson	833	65
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	86%	Q4 2020
	SAIDI	981	Equipment Failure	6%	Q1 2021
	SAIFI	3.07	Unknown	5%	Q2 2021
	CAIDI	319	All Other	3%	Q3 2021
	Customer Minutes	816,916			
	Customers Affected	2,561			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Oct-20
	Restore unknown outage during a storm			Complete	Mar-21
Repair damage caused by a tree			Complete	May-21	
Repair equipment failure			Complete	Aug-21	
Rank	Substation	Circuit	District	Customers	Outages
34	Floreffe	Calamity Hollow	Charleroi	795	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	77%	Q3 2021
	SAIDI	998	Line Failure	23%	
	SAIFI	5.32	All Other	0%	
	CAIDI	188			
	Customer Minutes	793,576			
	Customers Affected	4,229			
Remedial Action Planned or Taken			Status	Progress	
Repair damage caused by a tree during a storm			Complete	Aug-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
35	Bentleyville	Jonestown	Charleroi	1,504	33
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	75%	Q3 2021
	SAIDI	523	Equipment Failure	17%	
	SAIFI	3.78	Ice	3%	
	CAIDI	139	All Other	5%	
	Customer Minutes	787,053			
	Customers Affected	5,681			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-21
Rank	Substation	Circuit	District	Customers	Outages
36	Enlow	Summit	Boyce	1,806	16
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	55%	Q4 2020
	SAIDI	432	Trees on ROW	40%	Q2 2021
	SAIFI	2.8	Line Failure	4%	Q3 2021
	CAIDI	154	All Other	1%	
	Customer Minutes	779,386			
	Customers Affected	5,054			
	Remedial Action Planned or Taken			Status	Progress
	Repair line failure			Complete	Nov-20
Repair damage caused by a tree during a storm			Complete	Jun-21	
Repair damage caused by a tree during a storm			Complete	Aug-21	
Rank	Substation	Circuit	District	Customers	Outages
37	King Farm	Church St.	Pleasant Valley	1,620	13
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Equipment Failure	61%	Q3 2021
	SAIDI	471	Forced Outage	32%	
	SAIFI	2.2	Line Failure	6%	
	CAIDI	214	All Other	1%	
	Customer Minutes	762,265			
	Customers Affected	3,568			
	Remedial Action Planned or Taken			Status	Progress
	Zone 1 Infrared Inspection			Complete	Aug-21
Repair equipment failure			Complete	Sep-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
38	Fowler	Bald Eagle	State College	427	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	82%	Q3 2021
	SAIDI	1777	Forced Outage	13%	
	SAIFI	3.13	Equipment Failure	4%	
	CAIDI	567	All Other	1%	
	Customer Minutes	758,677			
	Customers Affected	1,337			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jul-21
	Overhead circuit inspection			Complete	Jul-21
Rank	Substation	Circuit	District	Customers	Outages
39	Smithton	Yukon	Charleroi	1297	27
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Trees off ROW	65%	Q4 2020
	SAIDI	577	Line Failure	23%	Q1 2021
	SAIFI	2.48	Equipment Failure	10%	Q3 2021
	CAIDI	233	All Other	2%	
	Customer Minutes	748,816			
	Customers Affected	3,217			
	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	
Repair equipment failure during a storm			Complete	Aug-21	
Rank	Substation	Circuit	District	Customers	Outages
40	Saltsburg	Saltsburg	Arnold	1410	61
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Trees off ROW	53%	Q3 2021
	SAIDI	520	Line Failure	28%	
	SAIFI	2.52	Equipment Failure	12%	
	CAIDI	206	All Other	7%	
	Customer Minutes	732,704			
	Customers Affected	3,551			
Remedial Action Planned or Taken			Status	Progress	
Repair line failure			Complete	Jul-21	

West Penn					
Unranked circuits appearing 2 or more quarters in the last 4 quarters					
Substation	Circuit	4Q 2020	1Q 2021	2Q 2021	3Q 2021
Amity	Amity	X	X	X	
Belmon	Fayette City	X	X	X	
Bethlen	Darlington	X	X	X	
Branchton	Forestville	X	X		
California	River	X	X		
Charleroi	Speers	X	X		
Fayetteville	Keystone	X	X	X	
Franklin	South Waynesburg	X		X	
Kane	Russell City	X	X	X	
Lagonda	Taylorstown	X	X	X	
Lovedale	Township	X	X		
Murrycrest	Sardis Road	X	X	X	
Mushroom	Mushroom	X	X	X	
North Washington	Oklahoma	X	X	X	
Roundhill	Roundhill	X	X		
Scottdale	Commercial		X	X	
Shaffers Corner	Seventh St Rd		X	X	
Smithton	Fitzhenry	X	X	X	
Smithton	Smithton	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
Smithton	Smithton	Overhead circuit inspection	Complete	Aug-21
Charleroi	Speers	On-cycle tree trimming	In Progress	99%
Buckeye No.3	Paisley	Overhead circuit inspection	In Progress	99%
Mushroom	Mushroom	Overhead circuit inspection	In Progress	12%
Bethlen	Darlington	On-cycle tree trimming	In Progress	92%
Fayetteville	Keystone	On-cycle tree trimming	Complete	Aug-21
West Waynesboro	Trinity	Overhead circuit inspection	Complete	Jul-21

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			
3rd Quarter 2021 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	2	\$10,125.00	\$6,008.00
Excavated in Tolerance	13	\$63,917.00	\$41,661.00
Excavation Inconsistent with Ticket Scope	5	\$18,472.00	\$17,272.00
Excavation Prior to Lawful Start Date	4	\$10,428.00	\$3,158.00
Expired Ticket	3	\$6,330.00	\$5,332.00
Hand Digging	0	\$16,284.00	\$16,284.00
Marked Improperly	9	\$98,234.00	\$7,573.00
No Ticket	20	\$62,454.00	\$39,144.00
Total	56	\$286,244.00	\$136,432.00

Penelec – Third Party Line Hit Incidents			
3rd Quarter 2021 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	4	\$0.00	\$0.00
Excavated in Tolerance	57	\$75,723.00	\$45,272.00
Excavation Inconsistent with Ticket Scope	4	\$2,758.00	\$1,444.00
Excavation Prior to Lawful Start Date	5	\$1,410.00	\$756.00
Expired Ticket	6	\$5,162.00	\$544.00
Hand Digging	1	\$4,613.00	\$4,613.00
Marked Improperly	51	\$116,008.00	\$23,900.00
No Ticket	59	\$64,898.00	\$33,108.00
Total	187	\$270,572.00	\$109,637.00

Penn Power – Third Party Line Hit Incidents			
3rd Quarter 2021 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	0	\$0.00	\$0.00
Excavated in Tolerance	10	\$11,104.00	\$1,026.00
Excavation Inconsistent with Ticket Scope	3	\$4,743.00	\$2,257.00
Excavation Prior to Lawful Start Date	2	\$6,672.00	\$0.00
Expired Ticket	1	\$4,418.00	\$4,418.00
Hand Digging	0	\$0.00	\$0.00
Marked Improperly	3	\$14,524.00	\$304.00
No Ticket	3	\$4,867.00	\$4,867.00
Total	22	\$46,328.00	\$12,872.00

West Penn – Third Party Line Hit Incidents			
3rd Quarter 2021 12-Month Rolling			
Cause of Line Hit	Number of Incidents	Invoice Amount (\$)	Recovery Amount (\$)
Dig In - Other	17	\$11,585.00	\$0.00
Excavated in Tolerance	38	\$34,382.00	\$8,047.00
Excavation Inconsistent with Ticket Scope	11	\$10,624.00	\$6,054.00
Excavation Prior to Lawful Start Date	4	\$3,356.00	\$0.00
Expired Ticket	9	\$14,125.00	\$9,145.00
Hand Digging	7	\$0.00	\$0.00
Marked Improperly	43	\$96,837.00	\$15,115.00
No Ticket	69	\$70,852.00	\$38,689.00
Total	198	\$241,761.00	\$77,050.00

Cause of Line Hit	Definition
Dig In - Other	Still under investigation
Excavated in Tolerance	Excavator didn't use prudent digging techniques within the Tolerance Zone
Excavation Inconsistent with Ticket Scope	Excavation outside dig box and/or scope of ticket
Excavation Prior to Lawful Start Date	Three business days prior to start of excavation from when the ticket was called in to mark
Expired Ticket	After ten business days have passed, the ticket is considered expired
Hand Digging	Excavator was hand digging within the Tolerance Zone, however the facility was still hit
Marked Improperly	Ticket called in, facility and/or equipment was not marked properly
No Ticket	No contact was made to create a dig-request ticket

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Joint 3rd 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).

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Dated: February 1, 2022



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