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July 30, 2021

**VIA E-FILING**

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

**Re: Joint 2<sup>nd</sup> Quarter 2021 Reliability Report – Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company – Public Version; Docket No. M-2016-2522508**

Dear Secretary Chiavetta:

Pursuant to 52 Pa. Code § 57.195(d) and (e), enclosed for filing on behalf of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company and West Penn Power Company (collectively, the “Companies”) are the Joint 2<sup>nd</sup> Quarter 2020 Reliability Report – Public Version (“Joint Report”).

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

Please feel free to contact me if you have any questions or need additional information regarding this matter.

Sincerely,



Tori L. Giesler

Enclosures

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



## Joint 2021 2<sup>nd</sup> 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 2<sup>nd</sup> 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.<sup>1</sup>*

*Major Event(s)*

None of the Companies experienced a major event during the reporting period ending June 30, 2021.

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

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

*Reliability Index Values*

2Q 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
<b>SAIFI</b>	1.15	1.38	1.23	1.26	1.52	1.66	1.12	1.34	0.70	1.05	1.26	1.10
<b>CAIDI</b>	117	140	168	117	141	152	101	121	171	170	204	209
<b>SAIDI</b>	135	194	206	148	213	252	113	162	119	179	257	230
<b>MAIFI<sup>2</sup></b>			0.640			0.762			0.046			
<b>Customers Served<sup>3</sup></b>	572,570			580,276			166,080			721,800		
<b>Number of Sustained Interruptions</b>	12,784			16,647			3,518			14,765		
<b>Customers Affected</b>	702,592			962,076			115,558			793,886		
<b>Customer Minutes</b>	117,799,915			146,427,821			19,788,633			166,209,285		
<b>Number of Customer Momentary Interruptions</b>	366,721			442,512			7,585					

<sup>2</sup> MAIFI values are not available for West Penn.

<sup>3</sup> Represents the average number of customers served during the reporting period.

## **Unique Events Occurring in 2Q 2021:**

### **Met-Ed**

- Beginning the morning of Friday, April 30, 2021, a cold front with high winds moved across Pennsylvania, including the Met-Ed service territory. The front formed a storm system which produced sustained high winds with maximum winds gusts up to 61-miles per hour. See Attachment B for the wind report for April 30, 2021. The reliability impact of the storm was 11.9 minutes of System Average Interruption Duration Index (“SAIDI”), 0.04 of System Average Interruption Frequency Index (“SAIFI”), and an overall storm Customer Average Interruption Duration Index (“CAIDI”) of 268.95 minutes.
- Beginning the afternoon of Wednesday, May 26, 2021, a slow-moving cold front with strong thunderstorms, lightning, and high winds moved across Pennsylvania, including the Met-Ed service territory. The front formed a storm system which produced sustained high winds with maximum wind gusts up to 60-miles per hour. Data indicate the reliability impact of the storm was 6.3 minutes of SAIDI, 0.03 of SAIFI, and an overall storm CAIDI of 246.4 minutes.
- Beginning the afternoon of Monday, June 21, 2021, a cold front with strong thunderstorms, lightning, and high winds moved across Pennsylvania, including the Met-Ed service territory. The front formed a storm system which produced sustained high winds and periods of heavy rain with maximum wind gusts up to 45-miles per hour. Data indicate the reliability impact of the storm was 16.7 minutes of SAIDI, 0.04 of SAIFI, and an overall storm CAIDI of 375.3 minutes.

### **Penelec**

- Beginning the morning of Friday, April 30, 2021, a cold front with high winds moved across Pennsylvania, including the Penelec service territory. The front formed a storm system which produced sustained high winds with maximum winds gusts in excess of 50-miles per hour. Data indicate the reliability impact of the storm was 8.2 minutes of SAIDI, 0.07 of SAIFI, and an overall storm CAIDI of 122.7 minutes.
- Beginning Tuesday afternoon, June 29, 2021, warm temperatures, and sufficient moisture ahead of a slow-moving cold front brought thunderstorm activity across the state on June 29 and 30. The cold front passed through Penelec’s 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 40-miles per hour. Data indicate the reliability impact of the storm was 8.7 minutes of SAIDI, 0.04 of SAIFI, and an overall storm CAIDI of 217.8 minutes.

## **West Penn**

- Beginning Monday morning June 14, 2021, a storm front began to move through Pennsylvania, including the West Penn service territory. This front brought scattered storm systems which produced sustained high winds and periods of heavy rain with maximum wind gusts up to 60-miles per hour in some areas. Data indicate the reliability impact of the storm was 2.5 minutes of SAIDI, 0.02 of SAIFI, and an overall storm CAIDI of 121.9 minutes.
- Beginning late Monday morning June 21, 2021, a cold front with strong thunderstorms, lightning and high winds moved across Pennsylvania, including West Penn's service territory. The front formed a storm system which produced sustained high winds and periods of heavy rain with maximum wind gusts up to 53-miles per hour. Data indicate the reliability impact of the storm was 16.6 minutes of SAIDI, 0.06 of SAIFI, and an overall storm CAIDI of 270.1 minutes.
- Beginning Tuesday afternoon, June 29, 2021, warm temperatures and sufficient 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. Data indicates 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.

*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				
2nd Quarter 2021 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	57,562,600	3,303	196,859	48.86%
Equipment failure	22,119,219	2,772	181,013	18.78%
Vehicle	6,032,253	408	36,754	5.12%
Unknown	5,642,032	1,229	42,720	4.79%
Line failure	5,196,975	832	30,992	4.41%
Trees off ROW - limb	5,050,234	527	27,218	4.29%
Forced outage	3,979,710	488	64,966	3.38%
Animal	2,562,163	1,247	26,624	2.18%
Wind	1,849,105	154	9,660	1.57%
Object contact with line	1,530,170	67	7,690	1.30%
Lightning	1,193,990	218	9,229	1.01%
Trees on ROW	1,153,978	118	4,010	0.98%
Human error - company	1,103,465	72	41,427	0.94%
Trees - sec/service	851,374	499	1,676	0.72%
Overload	785,209	101	11,069	0.67%
Human error - non-company	584,936	73	4,396	0.50%
Bird	315,167	537	3,633	0.27%
Ice	89,700	17	145	0.08%
Other electric utility	56,275	7	551	0.05%
UG dig-up	47,591	28	215	0.04%
Fire	24,506	11	666	0.02%
Customer equipment	23,015	47	774	0.02%
Other utility - non-electric	20,239	4	130	0.02%
Previous lightning	15,469	17	108	0.01%
Vandalism	10,540	8	67	0.01%
<b>Total</b>	<b>117,799,915</b>	<b>12,784</b>	<b>702,592</b>	<b>100%</b>

### Proposed Solutions – Met-Ed

Met-Ed analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending June 30, 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") programs<sup>4</sup> 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.

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<sup>4</sup> 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

<b>Outage by Cause</b>				
<b>2nd Quarter 2021 12-Month Rolling</b>	<b>Penelec</b>			
<b>Cause</b>	<b>Customer Minutes</b>	<b>Number of Sustained Interruptions</b>	<b>Customers Affected</b>	<b>% Based on Customer Minutes</b>
Trees off ROW - tree	62,610,685	3,065	252,328	42.76%
Equipment failure	29,490,569	3,175	228,625	20.14%
Line failure	9,846,000	1,847	81,385	6.72%
Unknown	7,365,620	1,894	115,501	5.03%
Forced outage	6,989,591	1,244	63,135	4.77%
Lightning	5,422,617	547	36,300	3.70%
Vehicle	5,266,402	498	34,123	3.60%
Trees off ROW - limb	4,091,247	389	24,646	2.79%
Animal	3,542,189	1,495	36,593	2.42%
Other electric utility	2,411,211	163	17,954	1.65%
Wind	2,391,431	245	10,269	1.63%
Ice	1,920,015	151	5,563	1.31%
Trees - sec/service	1,186,503	876	3,255	0.81%
Human error - non-company	942,602	139	6,516	0.64%
Bird	841,926	507	11,375	0.57%
Human error - company	648,615	75	17,451	0.44%
Overload	426,251	48	5,088	0.29%
UG dig-up	350,049	63	1,234	0.24%
Trees on ROW	229,016	71	911	0.16%
Customer equipment	139,418	25	5,218	0.10%
Object contact with line	133,003	45	901	0.09%
Switching Error	102,987	6	2,996	0.07%
Fire	34,733	18	375	0.02%
Contamination	18,304	33	195	0.01%
Other utility - non-electric	13,580	5	48	0.01%
Vandalism	9,183	10	67	0.01%
Previous lightning	3,916	12	23	0.00%
Call error	158	1	1	0.00%
<b>Total</b>	<b>146,427,821</b>	<b>16,647</b>	<b>962,076</b>	<b>100%</b>

### Proposed Solutions – Penelec

Penelec analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending June 30, 2021 and the associated actions designed to address these outage causes.

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

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

Outages by Cause – Penn Power

<b>Outage by Cause</b>				
<b>2nd Quarter 2021 12-Month Rolling</b>	<b>Penn Power</b>			
<b>Cause</b>	<b>Customer Minutes</b>	<b>Number of Sustained Interruptions</b>	<b>Customers Affected</b>	<b>% Based on Customer Minutes</b>
Trees off ROW - tree	11,387,420	1,017	43,134	57.55%
Vehicle	1,838,639	150	14,462	9.29%
Line failure	1,492,325	360	8,564	7.54%
Equipment failure	1,394,715	351	12,340	7.05%
Trees off ROW - limb	1,019,652	183	8,425	5.15%
Lightning	706,390	195	4,696	3.57%
Animal	592,096	432	7,210	2.99%
Bird	386,349	428	4,406	1.95%
Unknown	344,719	118	3,970	1.74%
Forced outage	213,373	74	3,252	1.08%
Trees - sec/service	146,631	134	370	0.74%
Human error - company	81,180	15	3,187	0.41%
Human error - non-company	72,778	19	469	0.37%
Overload	52,197	11	584	0.26%
Object contact with line	23,011	6	189	0.12%
Ice	18,069	2	27	0.09%
UG dig-up	9,855	11	124	0.05%
Trees on ROW	7,298	4	125	0.04%
Fire	963	1	9	0.00%
Customer equipment	309	2	2	0.00%
Previous lightning	304	3	4	0.00%
Contamination	256	1	8	0.00%
Vandalism	104	1	1	0.00%
<b>Total</b>	<b>19,788,633</b>	<b>3,518</b>	<b>115,558</b>	<b>100%</b>

### Proposed Solutions – Penn Power

Penn Power analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending June 30, 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.

Penn Power reviews vehicle-caused outages to determine if they are repeat locations 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.

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

<b>Outage by Cause</b>				
<b>2nd Quarter 2021 12-Month Rolling</b>	<b>West Penn</b>			
<b>Cause</b>	<b>Customer Minutes</b>	<b>Number of Sustained Interruptions</b>	<b>Customers Affected</b>	<b>% Based on Customer Minutes</b>
Trees off ROW - tree	90,538,687	4,482	272,175	54.47%
Equipment failure	17,541,082	2,208	117,656	10.55%
Unknown	12,331,337	1,602	94,713	7.42%
Line failure	11,644,811	1,764	65,986	7.01%
Vehicle	8,655,122	573	60,961	5.21%
Trees on ROW	7,165,177	553	26,890	4.31%
Forced outage	4,880,111	593	60,914	2.94%
Trees off ROW - limb	3,614,004	271	24,459	2.17%
Wind	3,449,542	193	11,200	2.08%
Animal	1,477,792	1,254	19,540	0.89%
Human error - non-company	1,293,319	90	6,142	0.78%
Lightning	814,402	151	4,576	0.49%
Other electric utility	657,894	17	2,227	0.40%
Trees - sec/service	499,929	437	759	0.30%
Human error - company	402,354	48	14,664	0.24%
Ice	298,888	18	1,196	0.18%
Overload	275,801	12	4,181	0.17%
Bird	230,184	394	2,917	0.14%
Object contact with line	169,733	29	1,211	0.10%
Fire	146,893	11	875	0.09%
UG dig-up	58,472	46	375	0.04%
Customer equipment	46,621	12	245	0.03%
Other utility - non-electric	12,616	3	17	0.01%
Previous Lightning	4,080	1	4	0.00%
Vandalism	434	3	3	0.00%
<b>Total</b>	<b>166,209,285</b>	<b>14,765</b>	<b>793,886</b>	<b>100%</b>

### Proposed Solutions – West Penn

West Penn analyzes its outage data to develop solutions for improving reliability. The following paragraphs identify the top outage causes for the rolling twelve-month period ending June 30, 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	2Q	YTD	Annual	2Q	YTD	Annual	2Q	YTD	Annual	2Q	YTD
Forestry	Transmission (Miles)	288.35	24.82	171.72	485.79	184.86	318.97	137.78	61.44	89.78	167.08	25.01	127.75
	Distribution (Miles)	2,925	690	1,419	3,703	887	1,814	1,162	192	507	4,675	1,101	2,259
Transmission	Aerial Patrols	2	1	1	2	1	1	2	1	1	2	1	1
	Groundline	1,167	34	34	3,049	675	699	484	58	288	2,072	777	1,117
Substation	Substation Inspections Class A	418	0	209	784	0	392	148	0	74	950	2	477
	Substation Inspections Class B	418	209	209	784	392	392	148	74	74	950	477	477
	Substation Inspections Class C	1,672	418	836	3,136	784	1,568	592	148	296	3,800	960	1,910
	Transformers	148	65	104	419	83	339	14	0	0	347	90	261
	Breakers	78	12	40	433	212	350	9	5	5	388	157	185
	Relay Schemes	276	46	152	259	84	144	22	4	8	106	24	36
Distribution	Capacitors	4,767	0	4,777	8,667	0	8,667	984	27	1,011	1,312	0	1,312
	Poles	28,001	7,077	7,436	41,584	5,712	5,712	10,960	0	0	49,815	6,148	6,205
	Reclosers	1,200	246	1,225	2,586	0	0	966	0	969	4,020	580	4,020
	Radio-Controlled Switches	1,308	312	654	2,646	934	1,328	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 Expenditures<sup>5</sup>*

This portion of the report is confidential.

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<sup>5</sup> 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 Capital<sup>6</sup> Expenditures<sup>7</sup>*

This portion of the report is confidential.

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

<sup>7</sup> 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).<sup>8</sup>*

*Staffing Levels*

Met-Ed 2021												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2022 <sup>11</sup>
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other <sup>9</sup>	Retirement	Voluntary Separation	Other <sup>10</sup>	
Distribution	Line Leader	48	49					4	3			
	Line Troubleshooter	35	35					1			1	
	Lineman	140	161				24	1			4	
Substation	Substation Leader	14	15					2			1	
	Substation Employee	67	74				9	2			4	
Transmission	Line Leader	2	2									
	Lineman	10	9								1	
<b>Total</b>		<b>316</b>	<b>345</b>			<b>0</b>	<b>33</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>11</b>	

<sup>8</sup> 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.

<sup>9</sup> Includes transfers and promotions.

<sup>10</sup> Includes transfers, voluntary separations, and promotions.

<sup>11</sup> Hiring plan to be provided annually in the 4Q report.

Penelec 2021												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2022 <sup>14</sup>
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other <sup>12</sup>	Retirement	Voluntary Separation	Other <sup>13</sup>	
Distribution	Line Leader	63	63					3	1		2	
	Line Troubleshooter	70	68					1			3	
	Lineman	142	163				22	32			33	
Substation	Substation Leader	29	27					1	1		2	
	Substation Employee	45	50				6	8			9	
Transmission	Line Leader	4	4									
	Lineman	18	18									
<b>Total</b>		<b>371</b>	<b>393</b>				<b>28</b>	<b>45</b>	<b>2</b>		<b>49</b>	

<sup>12</sup> Includes transfers and promotions.

<sup>13</sup> Includes transfers, involuntary separations, and promotions.

<sup>14</sup> 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 <sup>17</sup>
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other <sup>15</sup>	Retirement	Voluntary Separation	Other <sup>16</sup>	
Distribution	Line Leader	25	25									
	Line Troubleshooter	9	9									
	Lineman	42	45				3					
Substation	Substation Leader	5	5									
	Substation Employee	18	19					4		3		
Transmission	Line Leader	1	1									
	Lineman	5	5									
<b>Total</b>		<b>105</b>	<b>109</b>			<b>0</b>	<b>3</b>	<b>4</b>	<b>0</b>	<b>3</b>	<b>0</b>	

<sup>15</sup> Includes transfers, promotions, and promotions within a position.

<sup>16</sup> Includes transfers, involuntary separations, promotions, and promotions within a position.

<sup>17</sup> 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 <sup>20</sup>
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other <sup>18</sup>	Retirement	Voluntary Separation	Other <sup>19</sup>	
Distribution	Line Leader	63	65					6			4	
	Line Troubleshooter	59	60					4	1		2	
	Lineman	133	152				22	55			58	
Substation	Substation Leader	22	22									
	Substation Employee	74	81				8	10			11	
Transmission	Line Leader	2	2									
	Lineman	8	7								1	
<b>Total</b>		<b>361</b>	<b>389</b>				<b>30</b>	<b>75</b>	<b>1</b>	<b>0</b>	<b>76</b>	

<sup>18</sup> Includes transfers, promotions, and promotions within a position.

<sup>19</sup> Includes transfers, involuntary separations, promotions, and promotions within a position.

<sup>20</sup> 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 have been placed in work pods to limit employees’ potential exposure. Each pod ranges between three and eight crew members. For an event, the entire pod team is called making every effort to keep pod members together without mixing different pod teams. Met-Ed has continued this process change that can impact the call-out response time and percentages.

ATTACHMENT A

Worst Performing Circuits - Reliability Indices

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	No Bangor	00826-3	Easton	3,256	126	1	2,176,436	7,014	3.80	668.44	2.15	310.30	0.13
2	Dillsburg	00748-4	Dillsburg	1,794	61	2	1,984,907	5,306	3.47	1,106.41	2.96	374.09	0.33
3	Mountain	00744-4	Dillsburg	1,819	75	0	1,842,754	5,398	3.22	1,013.06	2.97	341.38	0.00
4	Lynnville	00737-1	Hamburg	1,074	132	2	1,470,289	2,998	2.57	1,368.98	2.79	490.42	0.87
5	Huffs Church	00600-1	Boyertown	1,501	125	1	1,336,526	3,786	2.33	890.42	2.52	353.02	0.00
6	Orrtanna	00761-4	Gettysburg	485	19	2	1,326,461	1,630	2.32	2,734.97	3.36	813.78	0.00
7	Shawnee	00822-3	Stroudsburg	3,110	40	3	1,128,059	5,738	1.97	362.72	1.85	196.59	0.01
8	Lincoln	00771-4	Gettysburg	1,603	37	0	1,100,605	2,365	1.92	686.59	1.48	465.37	0.00
9	Barto	00706-1	Boyertown	2,943	130	0	1,061,636	4,905	1.85	360.73	1.67	216.44	2.00
10	Baldy	00738-1	Reading	863	34	1	1,051,126	3,874	1.84	1,217.99	4.49	271.33	0.00
11	S Hamb	00801-1	Hamburg	1,785	53	2	1,002,253	7,786	1.75	561.49	4.36	128.73	0.00
12	Glendon	00818-3	Easton	1,639	24	1	974,480	4,151	1.70	594.56	2.53	234.76	0.04
13	Flying Hills	00777-1	Reading	1,786	82	0	955,833	3,235	1.67	535.18	1.81	295.47	0.00
14	Shawnee	00860-3	Stroudsburg	3,007	55	1	947,518	5,387	1.65	315.10	1.79	175.89	2.15
15	W Boyertown	00715-1	Boyertown	1,692	65	3	943,553	8,589	1.65	557.66	5.08	109.86	1.00
16	No Bangor	00813-3	Easton	1,327	38	0	943,249	2,958	1.65	710.81	2.23	318.88	0.06
17	Bernville	00787-1	Hamburg	1,561	66	1	895,098	2,497	1.56	573.41	1.60	358.47	1.74
18	Collins	00760-2	Lebanon	1,112	37	0	891,126	3,876	1.56	801.37	3.49	229.91	0.00
19	Carsonia	00764-1	Reading	2,881	59	1	877,481	4,762	1.53	304.58	1.65	184.27	0.05
20	Shawnee	00833-3	Stroudsburg	1,688	33	2	870,197	4,807	1.52	515.52	2.85	181.03	0.74
21	Zionsview	00717-4	York	779	37	2	857,676	4,559	1.50	1,101.00	5.85	188.13	0.00
22	Painted Sky	00650-1	Reading	1,781	14	2	813,053	3,841	1.42	456.51	2.16	211.68	0.00
23	Mountain	00742-4	Dillsburg	1,446	36	0	792,713	2,170	1.38	548.21	1.50	365.31	0.00
24	Swatara Hill	00765-2	Lebanon	592	33	1	784,051	1,629	1.37	1,324.41	2.75	481.31	5.18
25	Lyons	00729-1	Reading	1,298	81	0	777,758	2,896	1.36	599.20	2.23	268.56	0.00
26	Swatara Hill	00763-2	Lebanon	1,534	44	1	767,726	4,034	1.34	500.47	2.63	190.31	5.01
27	Baldy	00736-1	Reading	1,023	51	1	741,128	2,407	1.29	724.47	2.35	307.91	0.66
28	Lickdale	00625-2	Lebanon	1,008	68	1	719,206	3,023	1.26	713.50	3.00	237.91	3.00

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
29	Pleasantville	00142-1	Boyertown	817	66	0	709,359	1,915	1.24	868.25	2.34	370.42	0.00
30	Violet Hill	00527-4	York	1,167	25	4	682,087	4,905	1.19	584.48	4.20	139.06	0.00
31	Schuylkill Ave	00157-1	Reading	1,674	11	2	680,047	3,611	1.19	406.24	2.16	188.33	0.98
32	Mountain	00743-4	Dillsburg	1,029	32	1	677,458	3,594	1.18	658.37	3.49	188.50	0.00
33	No Bangor	00838-3	Easton	1,701	47	2	669,832	3,692	1.17	393.79	2.17	181.43	0.12
34	North Hanover	00505-4	Hanover	1,314	17	1	649,192	1,949	1.13	494.06	1.48	333.09	0.00
35	Adamstown	00755-1	Reading	1,439	31	1	649,121	3,125	1.13	451.09	2.17	207.72	0.94
36	Tolna	00792-4	York	1,778	25	0	627,469	5,125	1.10	352.91	2.88	122.43	0.09
37	Walker	00865-3	Stroudsburg	2,830	49	1	615,701	4,599	1.08	217.56	1.63	133.88	0.00
38	Gardners	00750-4	Gettysburg	1,247	24	0	613,944	2,231	1.07	492.34	1.79	275.19	0.00
39	Menges Mills	00543-4	Hanover	1,588	39	1	611,200	2,811	1.07	384.89	1.77	217.43	0.03

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Two Mile	00127-42	Bradford	1,281	39	0	3,210,712	3,991	5.53	2,506.41	3.12	804.49	0.000
2	Grover	00527-63	Towanda	1,057	73	4	2,614,225	6,493	4.51	2,473.25	6.14	402.62	0.220
3	Warren South	00220-41	Warren	2,381	98	0	2,455,682	5,873	4.23	1,031.37	2.47	418.13	0.016
4	Bradford South	00106-42	Bradford	1,186	40	0	2,200,699	2,229	3.79	1,855.56	1.88	987.30	0.000
5	Dubois	00137-23	Dubois	3,111	106	1	2,094,460	14,070	3.61	673.24	4.52	148.86	0.377
6	Tiffany	00435-65	Montrose	1,477	58	8	2,094,332	7,761	3.61	1,417.96	5.25	269.85	3.943
7	Falls	00297-65	Montrose	781	26	0	1,757,748	3,417	3.03	2,250.64	4.38	514.41	5.169
8	Lewis Run	00408-42	Bradford	1,172	52	1	1,676,269	4,842	2.89	1,430.26	4.13	346.19	0.000
9	Madera	00166-22	Philipsburg	1,427	54	2	1,657,493	4,041	2.86	1,161.52	2.83	410.17	1.617
10	Russell Hill	00282-65	Montrose	1,000	91	1	1,576,654	4,349	2.72	1,576.65	4.35	362.53	0.000
11	Marienville	00328-51	Oil City	1,205	56	0	1,426,775	4,409	2.46	1,184.05	3.66	323.61	0.993
12	North Warren	00596-41	Warren	1,127	65	1	1,342,373	2,521	2.31	1,191.10	2.24	532.48	3.114
13	Greenwood	00041-71	Altoona	1,213	23	4	1,289,933	4,309	2.22	1,063.42	3.55	299.36	0.000
14	Rolling Meadows	00310-31	Erie	4,391	57	0	1,262,712	11,804	2.18	287.57	2.69	106.97	0.478
15	Revloc	00069-72	Altoona	558	9	4	1,194,400	2,280	2.06	2,140.50	4.09	523.86	0.000
16	Fallen Timbers	00995-22	Philipsburg	794	26	9	1,138,978	4,976	1.96	1,434.48	6.27	228.89	0.065
17	Madera	00165-22	Philipsburg	1,434	45	1	1,133,488	6,261	1.95	790.44	4.37	181.04	0.099
18	Saxton Sub	00625-73	Altoona	1,090	30	0	1,108,452	2,455	1.91	1,016.93	2.25	451.51	0.000
19	Samuel Rea Car Shop	00031-71	Altoona	1,834	21	3	1,030,059	15,377	1.78	561.65	8.38	66.99	1.215
20	Natl Forge Sw Sta	00577-41	Warren	1,166	45	0	1,014,157	6,939	1.75	869.77	5.95	146.15	2.397
21	Mill Street	00144-42	Bradford	963	13	1	996,141	1,568	1.72	1,034.41	1.63	635.29	2.988
22	Philipsburg	00162-22	Philipsburg	2,714	63	0	926,842	9,091	1.60	341.50	3.35	101.95	2.485
23	Tunkhannock	00533-65	Montrose	1,243	50	0	912,282	4,306	1.57	733.94	3.46	211.86	3.084
24	East Hickory	00201-41	Warren	308	18	3	855,457	827	1.47	2,777.46	2.69	1,034.41	4.312
25	N Meshoppen Tran	00534-65	Montrose	831	60	0	842,598	1,991	1.45	1,013.96	2.40	423.20	0.057
26	Seward	00075-11	Johnstown	932	33	2	833,575	4,001	1.44	894.39	4.29	208.34	2.672
27	Blairsville East	00080-13	Indiana	931	24	0	801,742	5,136	1.38	861.16	5.52	156.10	1.146
28	Piney	00523-51	Oil City	1,504	58	0	761,852	4,999	1.31	506.55	3.32	152.40	0.489

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
29	Titusville Sub	00514-51	Oil City	512	23	0	679,653	1,625	1.17	1,327.45	3.17	418.25	0.000
30	Morgan Street	00233-52	Meadville	839	28	1	653,192	2,099	1.13	778.54	2.50	311.19	0.000
31	Blairsville East	00082-13	Indiana	1,562	37	0	650,753	3,383	1.12	416.62	2.17	192.36	0.296
32	Springboro	00237-52	Meadville	2,761	75	0	634,338	6,914	1.09	229.75	2.50	91.75	1.372
33	Grandview	00353-51	Oil City	861	34	0	632,390	1,419	1.09	734.48	1.65	445.66	0.006
34	Wyalusing Sub	00532-62	Towanda	730	57	3	629,486	4,287	1.08	862.31	5.87	146.84	2.151
35	Union City Sub	00208-43	Erie	1,460	85	2	628,371	3,286	1.08	430.39	2.25	191.23	1.143
36	Crown	00519-51	Oil City	644	56	1	609,086	2,001	1.05	945.79	3.11	304.39	0.427
37	Union City Sub	00206-43	Erie	2,862	95	0	590,652	5,923	1.02	206.38	2.07	99.72	0.355
38	Northeast	00592-31	Erie	1,598	46	5	574,096	4,767	0.99	359.26	2.98	120.43	0.038
39	Wellsboro	00325-63	Mansfield Pa	229	6	2	570,712	1,306	0.98	2,492.19	5.70	436.99	2.092
40	East Towanda	00525-62	Towanda	668	52	0	555,272	1,493	0.96	831.25	2.24	371.92	0.043
41	Meshoppen	00283-65	Montrose	387	14	0	533,627	983	0.92	1,378.88	2.54	542.86	2.845
42	Warren 5Th Avenue	00250-41	Warren	980	33	2	506,757	2,793	0.87	517.10	2.85	181.44	4.894
43	Tower 51	00051-11	Johnstown	578	27	0	502,602	2,079	0.87	869.55	3.60	241.75	0.031
44	East Hickory	00200-41	Warren	465	30	3	495,707	1,426	0.85	1,066.04	3.07	347.62	3.884
45	Cranberry	00350-51	Oil City	1,072	24	1	490,489	2,185	0.85	457.55	2.04	224.48	0.000
46	N Meshoppen Tran	00530-65	Montrose	542	35	0	488,386	1,934	0.84	901.08	3.57	252.53	2.987
47	East Sayre	00518-61	Towanda	949	36	0	460,615	2,354	0.79	485.37	2.48	195.67	0.470
48	Birmingham	00168-22	Philipsburg	1,079	56	1	456,281	2,932	0.79	422.87	2.72	155.62	0.158
49	Lewis Run	00409-42	Bradford	667	32	2	452,588	2,173	0.78	678.54	3.26	208.28	1.978
50	North Towanda	00521-62	Towanda	976	59	1	437,908	2,555	0.75	448.68	2.62	171.39	2.004
51	Spangler Sub	00052-72	Altoona	1,493	17	1	437,019	2,795	0.75	292.71	1.87	156.36	0.000
52	Scalp Level	00932-11	Johnstown	978	26	0	432,578	3,280	0.75	442.31	3.35	131.88	0.000
53	Reeder Street	00039-11	Johnstown	1,781	22	4	432,296	4,084	0.74	242.73	2.29	105.85	1.044
54	Warren South	00255-41	Warren	616	31	2	431,859	1,791	0.74	701.07	2.91	241.13	0.000
55	Brookville	00125-23	Dubois	562	21	0	418,707	1,187	0.72	745.03	2.11	352.74	2.495
56	Samuel Rea Car Shop	00032-71	Altoona	817	19	1	414,931	2,768	0.72	507.87	3.39	149.90	0.685

<b>Penelec</b>													
<b>Circuit Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Average Customers</b>	<b>Outages</b>	<b>Lockouts</b>	<b>Customer Minutes</b>	<b>Customers Affected</b>	<b>SAIDI Impact</b>	<b>SAIDI</b>	<b>SAIFI</b>	<b>CAIDI</b>	<b>MAIFI</b>
57	Shawville	00151-21	Clearfield	2,251	39	2	391,739	7,660	0.68	174.03	3.40	51.14	0.107
58	Snakespring	00628-73	Altoona	1,006	31	4	391,078	2,518	0.67	388.75	2.50	155.31	1.388
59	Cooper	00069-11	Johnstown	691	26	2	374,752	2,553	0.65	542.33	3.69	146.79	1.460
60	Blossburg	00310-63	Mansfield Pa	249	11	1	374,005	872	0.64	1,502.03	3.50	428.90	2.016
61	Titusville Sub	00386-51	Oil City	169	11	6	373,937	871	0.64	2,212.64	5.15	429.32	0.000
62	Revloc	00071-72	Altoona	492	16	3	373,192	1,550	0.64	758.52	3.15	240.77	0.000

Penn Power													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI*
1	Hartstown	W-126	Clark	2,193	81	0	761,190	2,292	4.58	347.10	1.045	332.1	0.0
2	Koppel	D-531	New Castle	973	28	0	661,540	1,329	3.98	679.90	1.366	497.8	0.0
3	Mercer	W-167	Clark	852	36	0	521,240	1,578	3.14	611.78	1.852	330.3	0.0
4	Chippewa	D-558	Zelienople	1,116	17	1	471,877	1,596	2.84	422.83	1.430	295.7	0.0
5	Conneaut	W-174	Clark	1,169	38	1	453,221	1,894	2.73	387.70	1.620	239.3	0.0
6	Camp Reynolds	W-134	Clark	1,744	63	0	411,650	2,095	2.48	236.04	1.201	196.5	0.0
7	Perry	W-156	Clark	1,049	52	0	405,310	1,882	2.47	386.38	1.794	215.4	0.0
8	Richard	W745	Zelienople	633	17	0	336,454	1,846	2.03	531.52	2.916	182.3	0.0
9	Ellwood Sw Str	D590	Zelienople	1,279	33	1	321,582	2,371	1.94	251.43	1.854	135.6	0.0

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	1,111	62	0	3,251,650	5,133	4.50	2,926.78	4.62	633.48
2	Vandergrift	Grifflo Park	Arnold	2,732	63	1	2,401,815	8,754	3.33	879.14	3.20	274.37
3	Driftwood	Driftwood	St Marys	954	32	1	1,979,502	2,816	2.74	2,074.95	2.95	702.95
4	Rutan	Bristoria	Jefferson	1,134	94	0	1,612,525	2,912	2.23	1,421.98	2.57	553.75
5	Sardis	Mamont	Arnold	1,069	7	2	1,470,748	1,822	2.04	1,375.82	1.70	807.22
6	Weedville	Weedville	St Marys	1,409	49	0	1,322,438	4,376	1.83	938.56	3.11	302.20
7	Shaffers Corner	Seventh St Rd	Arnold	1,650	18	3	1,276,501	4,264	1.77	773.64	2.58	299.37
8	Avella	Penowa	Washington Pa	647	48	0	1,213,701	1,264	1.68	1,875.89	1.95	960.21
9	Robbins	Rillton	Jeannette	1,535	24	1	1,117,652	4,274	1.55	728.11	2.78	261.50
10	Frazier	Star Junction	Pleasant Valley	1,712	26	2	1,088,699	2,654	1.51	635.92	1.55	410.21
11	Dutch Fork	Claysville	Washington Pa	1,577	69	0	1,079,593	2,705	1.50	684.59	1.72	399.11
12	Murrycrest	Sardis Road	Jeannette	1,486	37	5	1,072,850	9,266	1.49	721.97	6.24	115.78
13	Fayetteville	Keystone	Waynesboro	1,514	40	1	976,616	2,676	1.35	645.06	1.77	364.95
14	Marvindale	Clermont	St Marys	855	12	0	972,746	2,048	1.35	1,137.71	2.40	474.97
15	Crossgates	Robinhood	Boyce	1,080	27	0	895,332	2,281	1.24	829.01	2.11	392.52
16	Amity	Banetown	Washington Pa	1,479	59	2	883,856	3,398	1.22	597.60	2.30	260.11
17	Smith	Francis Mine	Washington Pa	1,436	58	0	881,830	2,983	1.22	614.09	2.08	295.62
18	Franklin	Rogersville	Jefferson	835	71	1	829,273	2,557	1.15	993.14	3.06	324.31
19	Waterville	Waterville	State College	356	25	1	828,787	2,886	1.15	2,328.05	8.11	287.17
20	Belmon	Fayette City	Charleroi	1,382	24	3	823,122	4,493	1.14	595.60	3.25	183.20
21	Dry Run	Town	Charleroi	1,814	11	4	819,820	6,098	1.14	451.94	3.36	134.44
22	Port Matilda	Port Matilda	State College	1,438	51	3	813,524	3,940	1.13	565.73	2.74	206.48
23	Bethlen	Darlington	Latrobe	1,243	59	0	773,238	2,977	1.07	622.07	2.40	259.74
24	Piney Fork	Gillhall	Charleroi	2,178	18	1	750,862	5,027	1.04	344.75	2.31	149.37
25	Thomas	Thomas	Boyce	1,344	40	0	748,933	3,856	1.04	557.24	2.87	194.23
26	Enlow	Summit	Boyce	1,806	13	0	744,424	5,034	1.03	412.19	2.79	147.88
27	Amity	Amity	Washington Pa	529	33	2	733,370	2,455	1.02	1,386.33	4.64	298.73
28	Pangburn Hill	Pangburn Hill	Charleroi	751	23	2	731,220	2,159	1.01	973.66	2.87	338.68

West Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
29	Diamond Street	Hansen Ave	Butler	1,603	13	4	714,290	3,566	0.99	445.60	2.22	200.31
30	Scottdale	Commercial	Pleasant Valley	1,701	22	1	706,714	3,311	0.98	415.47	1.95	213.44
31	Atherton	East Residential	State College	1,983	17	2	701,275	2,855	0.97	353.64	1.44	245.63
32	Kane	Russell City	St Marys	703	20	0	699,114	1,479	0.97	994.47	2.10	472.69
33	Karns City	Kaylor	Butler	1,157	44	1	686,399	2,805	0.95	593.26	2.42	244.71
34	Mushroom	Mushroom	Kittanning	316	10	0	663,459	725	0.92	2,099.55	2.29	915.12
35	Smithton	Fitzhenry	Charleroi	1,167	23	1	651,289	2,451	0.90	558.09	2.10	265.72
36	North Washington	Oklahoma	Arnold	1,779	26	1	650,143	2,592	0.90	365.45	1.46	250.83
37	West Waynesboro	Trinity	Waynesboro	2,226	29	2	636,596	4,441	0.88	285.98	2.00	143.35
38	Salem	Greenvillage	Waynesboro	1,624	21	4	627,133	3,124	0.87	386.17	1.92	200.75
39	Franklin	South Waynesburg	Jefferson	2,079	41	2	622,986	3,679	0.86	299.66	1.77	169.34
40	Lagonda	Taylorstown	Washington Pa	609	48	0	621,053	1,765	0.86	1,019.79	2.90	351.87

ATTACHMENT B

Worst Performing Circuits – Remedial Actions

As ordered on March 30, 2015 at Docket Nos. D-2014-2365991, D-2014-2365992, D-2014-2365993, and D-2014-2365994, *Implementation Plan of the Focused Management Audit of Metropolitan Edison Company, Pennsylvania Electric Company, Pennsylvania Power Company, and West Penn Power Company* (Appendix A)(1), the Companies are directed to provide additional detail in their 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	3,256	126	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	3.80	Trees Off Row-Tree	71%	3Q 2020	
	SAIDI	668.44	Equipment Failure	13%	4Q 2020	
	SAIFI	2.15	Wind	6%	1Q 2021	
	CAIDI	310	All Other	10%	2Q 2021	
	Customer Minutes	2,176,436				
	Customers Affected	7,014				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Mid-cycle ash tree removal				Complete	May-20
	Mainline forestry aerial patrol				Complete	Jul-20
	Mid-cycle tree trimming from aerial patrol				Complete	Sep-20
	Install TripSaver Recloser				Complete	Dec-20
	Construct circuit tie Phase 1				Complete	May-21
	Construct circuit tie Phase 2				To be completed 2021	90%
Construct circuit tie Phase 3				To be completed 2021	75%	
Mainline forestry aerial patrol				To be completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages	
2	Dillsburg	00748-4	Dillsburg	1,794	61	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	3.47	Trees Off Row-Tree	92%	3Q 2020	
	SAIDI	1,106.41	Vehicle	5%	4Q 2020	
	SAIFI	2.96	Equipment Failure	2%	1Q 2021	
	CAIDI	374	All Other	1%	2Q 2021	
	Customer Minutes	1,984,907				
	Customers Affected	5,306				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Enhanced tree trimming				Complete	Dec-19
Overhead circuit inspection				To be completed 2021	0%	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
3	Mountain	00744-4	Dillsburg	1,819	75	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	3.22	Trees Off Row-Tree	54%	3Q 2020	
	SAIDI	1,013.06	Equipment Failure	31%	4Q 2020	
	SAIFI	2.97	Vehicle	10%	1Q 2021	
	CAIDI	341	All Other	5%	2Q 2021	
	Customer Minutes	1,842,754				
	Customers Affected	5,398				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection				Complete	Jul-20
	Repair/Replace high priority items from Overhead Inspection				Complete	Feb-21
Rank	Substation	Circuit	District	Customers	Outages	
4	Lynnville	00737-1	Hamburg	1,074	132	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.57	Trees Off Row-Tree	76%	3Q 2020	
	SAIDI	1,368.98	Equipment Failure	12%	4Q 2020	
	SAIFI	2.79	Wind	3%	1Q 2021	
	CAIDI	490	All Other	8%	2Q 2021	
	Customer Minutes	1,470,289				
	Customers Affected	2,998				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Replace crossarm brace from inspection #1				Complete	Apr-20
	Replace crossarm brace from inspection #2				Complete	Apr-20
Replace crossarm brace from inspection #3				Complete	Apr-20	
Replace crossarm brace from inspection #4				Complete	Apr-20	
Targeted forestry inspection				Complete	Nov-20	
Target Tree Trimming - Sousley Rd				To be completed 2021	95%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
5	Huffs Church	00600-1	Boyertown	1,501	125
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.33	Trees Off Row-Tree	79%	3Q 2020
	SAIDI	890.42	Trees Off Row-Limb	8%	4Q 2020
	SAIFI	2.52	Unknown	6%	1Q 2021
	CAIDI	353	All Other	7%	2Q 2021
	Customer Minutes	1,336,526			
	Customers Affected	3,786			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection			Complete	Jun-20
	Create additional circuit tie			Complete	Nov-20
	Install Supervisory Control and Data Acquisition (SCADA) switch #1			Complete	Dec-20
	Install Supervisory Control and Data Acquisition (SCADA) switch #2			Complete	Dec-20
	Install Supervisory Control and Data Acquisition (SCADA) switch #3			Complete	Dec-20
On cycle tree trimming			Complete	Dec-20	
Install Supervisory Control and Data Acquisition (SCADA) switch			Complete	Apr-21	
Replace/repair high priority items identified during overhead circuit inspection			Complete	Apr-21	
Targeted forestry inspection			To be completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
6	Orrtanna	00761-4	Gettysburg	485	19
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.32	Trees Off Row-Tree	83%	2Q 2021
	SAIDI	2,734.97	Equipment Failure	17%	
	SAIFI	3.36	Wind	0%	
	CAIDI	814	All Other	0%	
	Customer Minutes	1,326,461			
	Customers Affected	1,630			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
On cycle Tree Trimming			Complete	Mar-20	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
7	Shawnee	00822-3	Stroudsburg	3,110	40
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.97	Trees Off Row-Tree	95%	4Q 2020
	SAIDI	362.72	Forced Outage	1%	1Q 2021
	SAIFI	1.85	Trees - Sec/Service	1%	2Q 2021
	CAIDI	197	All Other	2%	
	Customer Minutes	1,128,059			
	Customers Affected	5,738			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Mainline forestry aerial patrol			Complete	Jul-20
	Post storm aerial patrol			Complete	Aug-20
	Install Supervisory Control and Data Acquisition (SCADA) switch			Complete	Sep-20
	Post storm mainline circuit patrol			Complete	Nov-20
	Install Supervisory Control and Data Acquisition (SCADA) recloser			Complete	Feb-21
Mainline forestry aerial patrol			To be completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
8	Lincoln	00771-4	Gettysburg	1,603	37
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.92	Trees Off Row-Tree	92%	2Q 2021
	SAIDI	686.59	Equipment Failure	6%	
	SAIFI	1.48	Unknown	0%	
	CAIDI	465	All Other	1%	
	Customer Minutes	1,100,605			
	Customers Affected	2,365			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	On cycle Tree Trimming			To be completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
9	Barto	00706-1	Boyertown	2,943	130
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.85	Trees Off Row-Tree	39%	3Q 2020
	SAIDI	360.73	Vehicle	21%	4Q 2020
	SAIFI	1.67	Line Switching	15%	1Q 2021
	CAIDI	216	All Other	25%	2Q 2021
	Customer Minutes	1,061,636			
	Customers Affected	4,905			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Mainline pole replacement from inspection #2			Complete	Jul-20
	On cycle tree trimming			Complete	Nov-20
	Overhead circuit inspection			Complete	Sep-20
Replace/repair high priority items identified during overhead circuit inspection			Complete	Apr-21	
Install additional line sectionalizing device			Complete	Apr-21	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
10	Baldy	00738-1	Reading	863	34
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.84	Equipment Failure	61%	3Q 2020
	SAIDI	1,217.99	Trees Off Row-Tree	35%	4Q 2020
	SAIFI	4.49	Trees Off Row-Limb	2%	1Q 2021
	CAIDI	271	All Other	1%	2Q 2021
	Customer Minutes	1,051,126			
	Customers Affected	3,874			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Targeted forestry inspection			Complete	Apr-20
	Mainline Pole Replacements			Complete	Aug-20
	Install Supervisory Control and Data Acquisition (SCADA) Engineering Review			Complete	Jan-21
	Overhead circuit inspection			Complete	Apr-21
	On cycle Tree Trimming			To be completed 2021	99%
Rank	Substation	Circuit	District	Customers	Outages
11	S Hamb	00801-1	Hamburg	1,785	53
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.75	Equipment Failure	46%	3Q 2020
	SAIDI	561.49	Trees Off Row-Tree	30%	4Q 2020
	SAIFI	4.36	Wind	8%	1Q 2021
	CAIDI	129	All Other	15%	2Q 2021
	Customer Minutes	1,002,253			
	Customers Affected	7,786			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	On cycle Tree Trimming			Complete	Jul-20
	Thermovision and overhead inspection			Complete	Jul-20
	Install TripSaver Recloser #1			Complete	Dec- 20
	Install TripSaver Recloser #2			Complete	Dec- 20

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
12	Glendon	00818-3	Easton	1,639	24	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.70	Trees Off Row-Tree	51%	3Q 2020	
	SAIDI	594.56	Equipment Failure	42%	4Q 2020	
	SAIFI	2.53	Forced Outage	4%	1Q 2021	
	CAIDI	235	All Other	4%	2Q 2021	
	Customer Minutes	974,480				
	Customers Affected	4,151				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Thermovision and overhead inspection				Complete	Jun-20
	Overhead circuit inspection				Complete	Aug-20
	On cycle tree trimming				Complete	Sep-20
	Mainline forestry aerial patrol				To be completed 2021	0%
	Rank	Substation	Circuit	District	Customers	Outages
13	Flying Hills	00777-1	Reading	1,786	82	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.67	Trees Off Row-Tree	49%	3Q 2020	
	SAIDI	535.18	Equipment Failure	20%	4Q 2020	
	SAIFI	1.81	Trees Off Row-Limb	10%	1Q 2021	
	CAIDI	295	All Other	22%	2Q 2021	
	Customer Minutes	955,833				
	Customers Affected	3,235				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection				Complete	Mar-20
	On cycle tree trimming				Complete	Mar-20
	Replace/repair high priority items identified during overhead circuit inspection				Complete	Mar-20
	Install TripSaver Recloser #1				Complete	Dec-20
	Install TripSaver Recloser #2				Complete	Dec-20
Install TripSaver Recloser #3				Complete	Dec-20	
Replace/repair high priority items identified during overhead circuit inspection				Complete	May-21	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
14	Shawnee	00860-3	Stroudsburg	3,007	55	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.65	Trees Off Row-Tree	62%	2Q 2021	
	SAIDI	315.10	Object Contact With Line	11%		
	SAIFI	1.79	Lightning	7%		
	CAIDI	176	All Other	20%		
	Customer Minutes	947,518				
	Customers Affected	5,387				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Thermovision and overhead inspection				Complete	May-20
	Circuit protection coordination review				Complete	Oct-20
	Install Tripsaver Recloser				Complete	Dec-20
	Apply new recloser settings				Complete	Jan-21
	Rank	Substation	Circuit	District	Customers	Outages
15	W Boyertown	00715-1	Boyertown	1,692	65	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.65	Trees Off Row-Tree	57%	3Q 2020	
	SAIDI	557.66	Line Failure	12%	4Q 2020	
	SAIFI	5.08	Trees Off Row-Limb	11%	1Q 2021	
	CAIDI	110	All Other	21%	2Q 2021	
	Customer Minutes	943,553				
	Customers Affected	8,589				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Thermovision and overhead inspection				Complete	May-20
	Replace arrester from thermovision inspection #1				Complete	Jul-20
	Replace arrester from thermovision inspection #2				Complete	Jul-20
	Replace arrester from thermovision inspection #3				Complete	Jul-20
	Replace arrester from thermovision inspection #4				Complete	Jul-20
Replace cutout from thermovision inspection				Complete	Sep-20	
Mainline recloser upgrade and circuit coordination improvements				Complete	Jan-21	
Install TripSaver				Complete	Dec-20	
Overhead circuit inspection				Complete	Apr-21	
On cycle tree trimming				To be completed 2021	99%	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
16	No Bangor	00813-3	Easton	1,327	38	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.65	Trees Off Row-Tree	49%	1Q 2021	
	SAIDI	710.81	Human Error -Non-Company	23%	2Q 2021	
	SAIFI	2.23	Equipment Failure	17%		
	CAIDI	319	All Other	10%		
	Customer Minutes	943,249				
	Customers Affected	2,958				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Thermovision and overhead inspection				Complete	May-20
	Repair priority items from thermovision inspection				To be completed 2021	75%
	Mainline forestry aerial patrol				To be completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages	
17	Bernville	00787-1	Hamburg	1,561	66	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.56	Trees Off Row-Tree	39%	3Q 2020	
	SAIDI	573.41	Vehicle	25%	4Q 2020	
	SAIFI	1.60	Equipment Failure	14%	1Q 2021	
	CAIDI	358	All Other	22%	2Q 2021	
	Customer Minutes	895,098				
	Customers Affected	2,497				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection				Complete	Jun-20
	Replace Recloser				Complete	Jul-20
	Install TripSaver Recloser #1				Complete	Dec-20
Install TripSaver Recloser #2				Complete	Dec-20	
On cycle tree trimming				To be completed 2021	79%	
Rank	Substation	Circuit	District	Customers	Outages	
18	Collins	00760-2	Lebanon	1,112	37	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.56	Trees Off Row-Tree	44%	2Q 2021	
	SAIDI	801.37	Line Failure	26%		
	SAIFI	3.49	Unknown	13%		
	CAIDI	230	All Other	17%		
	Customer Minutes	891,126				
	Customers Affected	3,876				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Thermovision inspection				Complete	Dec-20
On cycle tree trimming				Complete	Jun-21	

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
19	Carsonia	00764-1	Reading	2,881	59	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.53	Trees Off Row-Tree	78%	4Q 2020	
	SAIDI	304.58	Forced Outage	8%	1Q 2021	
	SAIFI	1.65	Equipment Failure	5%	2Q 2021	
	CAIDI	184	All Other	8%		
	Customer Minutes	877,481				
	Customers Affected	4,762				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Targeted forestry inspection				Complete	Apr-20
	Create additional circuit tie				Complete	Nov-20
	Targeted forestry inspection				Complete	Jun-21
	Targeted tree trimming - Wood Lane				To be completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages	
20	Shawnee	00833-3	Stroudsburg	1,688	33	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.52	Equipment Failure	51%	3Q 2020	
	SAIDI	515.52	Trees Off Row-Tree	36%	4Q 2020	
	SAIFI	2.85	Line Failure	5%	1Q 2021	
	CAIDI	181	All Other	8%	2Q 2021	
	Customer Minutes	870,197				
	Customers Affected	4,807				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Mainline forestry aerial patrol				Complete	Jul-20
	Post storm aerial patrol				Complete	Aug-20
	Repair items identified during post storm aerial patrol				Complete	Aug-20
	Thermovision and overhead inspection				Complete	May-20
On cycle tree trimming				Complete	Jul-21	
Replace recloser				Complete	Mar-21	
Mainline forestry aerial patrol				To be completed 2021	0%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
21	Zionsview	00717-4	York	779	37
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.50	Trees Off Row-Tree	58%	4Q 2020
	SAIDI	1,101.00	Vehicle	21%	1Q 2021
	SAIFI	5.85	Trees Off Row-Limb	19%	2Q 2021
	CAIDI	188	All Other	2%	
	Customer Minutes	857,676			
	Customers Affected	4,559			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection			Complete	Oct-20
	Replace/repair priority-one items identified during overhead circuit inspection			Complete	Aug-20
	Install additional line sectionalizing device			Complete	Jan-21
	Replace/repair high priority items identified during overhead circuit inspection			To be completed 2021	94%
	Rank	Substation	Circuit	District	Customers
22	Painted Sky	00650-1	Reading	1,781	14
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.42	Trees Off Row-Tree	67%	2Q 2021
	SAIDI	456.51	Vehicle	23%	
	SAIFI	2.16	Line Failure	9%	
	CAIDI	212	All Other	1%	
	Customer Minutes	813,053			
	Customers Affected	3,841			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead mainline circuit inspection			Complete	Aug-20
	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	Outages
23	Mountain	00742-4	Dillsburg	1,446	36
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.38	Trees Off Row-Tree	55%	2Q 2021
	SAIDI	548.21	Trees Off Row-Limb	21%	
	SAIFI	1.50	Wind	14%	
	CAIDI	365	All Other	9%	
	Customer Minutes	792,713			
	Customers Affected	2,170			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection			Complete	Mar-20
Repair/Replace high priority items from Overhead Inspection			Complete	Feb-21	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
24	Swatara Hill	00765-2	Lebanon	592	33
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.37	Trees Off Row-Tree	51%	3Q 2020
	SAIDI	1,324.41	Trees On Row	42%	4Q 2020
	SAIFI	2.75	Equipment Failure	7%	1Q 2021
	CAIDI	481	All Other	1%	2Q 2021
	Customer Minutes	784,051			
	Customers Affected	1,629			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	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
25	Lyons	00729-1	Reading	1,298	81
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.36	Trees Off Row-Tree	63%	3Q 2020
	SAIDI	599.20	Trees Off Row-Limb	25%	4Q 2020
	SAIFI	2.23	Unknown	7%	1Q 2021
	CAIDI	269	All Other	4%	2Q 2021
	Customer Minutes	777,758			
	Customers Affected	2,896			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	On cycle tree trimming			Complete	Aug-20
	Install TripSaver			Complete	Dec-20
	Install Supervisory Control and Data Acquisition (SCADA) switch			Complete	Dec-20
	Install Supervisory Control and Data Acquisition (SCADA) switch			Complete	Dec-20
Install Supervisory Control and Data Acquisition (SCADA) switch			Complete	Dec-20	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
26	Swatara Hill	00763-2	Lebanon	1,534	44
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.34	Trees Off Row-Tree	61%	1Q 2021
	SAIDI	500.47	Equipment Failure	19%	2Q 2021
	SAIFI	2.63	Trees Off Row-Limb	9%	
	CAIDI	190	All Other	10%	
	Customer Minutes	767,726			
	Customers Affected	4,034			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Install TripSaver			Complete	Jul-20
	Add Supervisory Control and Data Acquisition (SCADA) device #1			Complete	Oct-20
	Targeted forestry inspection			To be completed 2021	0%
	Install Supervisory Control and Data Acquisition (SCADA) device #1			To be completed 2021	50%
	Install Supervisory Control and Data Acquisition (SCADA) device #2			To be completed 2021	50%
Install Supervisory Control and Data Acquisition (SCADA) device #3			To be completed 2021	50%	
Rank	Substation	Circuit	District	Customers	Outages
27	Baldy	00736-1	Reading	1,023	51
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.29	Trees Off Row-Tree	83%	4Q 2020
	SAIDI	724.47	Trees Off Row-Limb	5%	1Q 2021
	SAIFI	2.35	Lightning	5%	2Q 2021
	CAIDI	308	All Other	7%	
	Customer Minutes	741,128			
	Customers Affected	2,407			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Targeted forestry inspection			Complete	May-20
	Targeted forestry inspection			Complete	Dec-20
	Install Supervisory Control and Data Acquisition (SCADA) Engineering Review			Complete	Jan-21
	On cycle tree trimming			Complete	Jul-21
	Overhead circuit inspection			Complete	Apr-21

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
28	Lickdale	00625-2	Lebanon	1,008	68
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.26	Trees Off Row-Tree	71%	3Q 2020
	SAIDI	713.50	Animal	11%	4Q 2020
	SAIFI	3.00	Unknown	10%	1Q 2021
	CAIDI	238	All Other	8%	2Q 2021
	Customer Minutes	719,206			
	Customers Affected	3,023			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead inspection			Complete	Nov-20
	Targeted forestry inspection			To be completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
29	Pleasantville	00142-1	Boyertown	817	66
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.24	Trees Off Row-Tree	88%	4Q 2020
	SAIDI	868.25	Ice	3%	1Q 2021
	SAIFI	2.34	Unknown	3%	2Q 2021
	CAIDI	370	All Other	6%	
	Customer Minutes	709,359			
	Customers Affected	1,915			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Targeted forestry inspections - Haas Ln and Mine Rd			Complete	Jun-21
	Targeted tree trimming - Haas Ln			To be completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
30	Violet Hill	00527-4	York	1,167	25
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.19	Trees Off Row-Tree	58%	1Q 2021
	SAIDI	584.48	Unknown	22%	2Q 2021
	SAIFI	4.20	Trees On Row	11%	
	CAIDI	139	All Other	9%	
	Customer Minutes	682,087			
	Customers Affected	4,905			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	On cycle Tree Trimming			Complete	May-21
	Joint Planning meeting with AEC for Potential SCADA/Sectionalizing devices			To be completed 2021	50%

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
31	Schuylkill Ave	00157-1	Reading	1,674	11	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.19	Trees Off Row-Tree	94%	3Q 2020	
	SAIDI	406.24	Forced Outage	4%	4Q 2020	
	SAIFI	2.16	Equipment Failure	1%	1Q 2021	
	CAIDI	188	All Other	1%	2Q 2021	
	Customer Minutes	680,047				
	Customers Affected	3,611				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Replace mainline crossarms, insulators, cutouts				Complete	Jun-20
	Targeted forestry inspection				Complete	Jul-20
	Substation Coordination Improvement				Complete	Aug-20
	Rank	Substation	Circuit	District	Customers	Outages
32	Mountain	00743-4	Dillsburg	1,029	32	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.18	Trees Off Row-Tree	58%	3Q 2020	
	SAIDI	658.37	Trees Off Row-Limb	25%	1Q 2021	
	SAIFI	3.49	Line Failure	15%	2Q 2021	
	CAIDI	188	All Other	2%		
	Customer Minutes	677,458				
	Customers Affected	3,594				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Targeted Zone 2 Circuit Rehabilitation				Complete	Feb-20
	Overhead circuit inspection				Complete	Mar-20
	Rank	Substation	Circuit	District	Customers	Outages
	33	No Bangor	00838-3	Easton	1,701	47
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>		
SAIDI Impact		1.17	Equipment Failure	32%	2Q 2021	
SAIDI		393.79	Trees Off Row-Tree	31%		
SAIFI		2.17	Unknown	31%		
CAIDI		181	All Other	6%		
Customer Minutes		669,832				
Customers Affected		3,692				
<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>	
Replace recloser				Complete	Dec-20	
Overhead circuit inspection				Complete	Apr-21	
Repair priority items from overhead circuit inspection				Complete	May-21	
Mainline forestry aerial patrol				To be completed 2021	0%	
Repair priority items from thermovision inspection				To be completed 2021	50%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
34	North Hanover	00505-4	Hanover	1,314	17
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.13	Trees Off Row-Tree	64%	3Q 2020
	SAIDI	494.06	Trees Off Row-Limb	30%	4Q 2020
	SAIFI	1.48	Unknown	4%	2Q 2021
	CAIDI	333	All Other	2%	
	Customer Minutes	649,192			
	Customers Affected	1,949			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	On cycle Tree Trimming			Complete	May-21
Rank	Substation	Circuit	District	Customers	Outages
35	Adamstown	00755-1	Reading	1,439	31
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.13	Trees Off Row-Tree	58%	4Q 2020
	SAIDI	451.09	Equipment Failure	34%	1Q 2021
	SAIFI	2.17	Line Failure	3%	2Q 2021
	CAIDI	208	All Other	5%	
	Customer Minutes	649,121			
	Customers Affected	3,125			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection			Complete	Mar-20
	Targeted forestry inspection			Complete	May-20
	Mainline recloser upgrade			Complete	Jul-20
	Targeted forestry inspection			Complete	Dec-20
On cycle tree trimming			To be completed 2021	43%	
Rank	Substation	Circuit	District	Customers	Outages
36	Tolna	00792-4	York	1,778	25
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.10	Equipment Failure	94%	2Q 2021
	SAIDI	352.91	Forced Outage	5%	
	SAIFI	2.88	Unknown	1%	
	CAIDI	122	All Other	1%	
	Customer Minutes	627,469			
	Customers Affected	5,125			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Engineering Circuit Review			To be completed 2021	0%	

<b>Met-Ed</b>					
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
37	Walker	00865-3	Stroudsburg	2,830	49
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.08	Trees Off Row-Tree	44%	2Q 2021
	SAIDI	217.56	Equipment Failure	21%	
	SAIFI	1.63	Unknown	20%	
	CAIDI	134	All Other	16%	
	Customer Minutes	615,701			
	Customers Affected	4,599			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Thermovision and overhead inspection			Complete	May-20
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
38	Gardners	00750-4	Gettysbur	1,247	24
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.07	Trees Off Row-Tree	88%	2Q 2021
	SAIDI	492.34	Vehicle	9%	
	SAIFI	1.79	Forced Outage	2%	
	CAIDI	275	All Other	1%	
	Customer Minutes	613,944			
	Customers Affected	2,231			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection			Complete	Sep-20
Repair/Replace high priority items from Overhead Inspection			Complete	Apr-21	
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
39	Menges Mills	00543-4	Hanover	1,588	39
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.07	Trees Off Row-Tree	89%	4Q 2020
	SAIDI	384.89	Unknown	6%	1Q 2021
	SAIFI	1.77	Line Failure	4%	2Q 2021
	CAIDI	217	All Other	1%	
	Customer Minutes	611,200			
	Customers Affected	2,811			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	On cycle Tree Trimming			To be completed 2021	97%

<b>Met-Ed</b>					
<b>Unranked circuits appearing 2 or more quarters in the last 4 quarters</b>					
<b>Substation</b>	<b>Circuit</b>	<b>3Q 2020</b>	<b>4Q 2020</b>	<b>1Q 2021</b>	<b>2Q 2021</b>
Dillsburg	00746-4	X	X		
Fox Hills	00852-3	X	X		
Lickdale	00626-2		X	X	
Mc Knights Gap	00774-1	X	X	X	
Mohnton Sta	00144-1	X	X		
South Hamburg	00741-1		X	X	
Shawnee	00899-3	X	X		
South Easton	00057-3		X	X	
State Street	00620-1		X	X	
Windsor	00795-4	X	X		
Yorkana	00715-4	X	X	X	
Yorkana	00716-4	X	X		

<b>Met-Ed</b>				
<b>Unranked circuits with remedial actions scheduled to be or recently completed</b>				
<b>Substation</b>	<b>Circuit</b>	<b>Remedial Action Planned or Taken</b>	<b>Status of Remedial Work</b>	<b>Progress of Remedial Work or Date Completed</b>
Berville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) recloser #3	Complete	Feb-21
Crossroads	00728-4	Install Supervisory Control and Data Acquisition (SCADA) switch	Complete	Feb-21
Fairview	00519-4	Add Supervisory Control and Data Acquisition (SCADA) to recloser #2	Complete	Mar-21
Lickdale	00626-2	Targeted forestry inspection	To be completed 2021	0%
Mc Knights Gap	00774-1	Overhead circuit inspection	Complete	Jan-21
Ottsville	00660-3	On cycle Tree Trimming	Complete	Apr-21
Pine Lane	00720-1	Install TripSaver	Complete	Jan-21
S Hamb	00740-1	Install TripSaver	Complete	Apr-21
Shawnee	00899-3	On cycle tree trimming	To be completed 2021	95%
Snydersville	00620-3	Overhead circuit inspection	Complete	Mar-21
Snydersville	00620-3	Repair/replace priority items from circuit inspection	Complete	May-21
State Street	00620-1	Overhead circuit inspection	Complete	May-21

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
1	Two Mile	00127-42	Bradford	1,281	39
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	5.53	Trees Off ROW-Tree	55%	3Q 2020
	SAIDI	2,506.41	Equipment Failure	39%	4Q 2020
	SAIFI	3.12	Trees - Sec/Service	5%	1Q 2021
	CAIDI	804.49	All Other	1%	2Q 2021
	Customer Minutes	3,210,712			
	Customers Affected	3,991			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees			Complete	Jul-20
	Install advanced Dx protective devices			Complete	Aug-20
	Repair damage caused by trees during a storm			Complete	Aug-20
	Circuit inspection			Complete	Sep-20
	Repair equipment failure			Complete	Jan-21
Rank	Substation	Circuit	District	Customers	Outages
2	Grover	00527-63	Towanda	1,057	73
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	4.51	Equipment Failure	38%	3Q 2020
	SAIDI	2,473.25	Trees Off ROW-Limb	32%	4Q 2020
	SAIFI	6.14	Trees Off ROW-Tree	20%	1Q 2021
	CAIDI	402.62	All Other	10%	2Q 2021
	Customer Minutes	2,614,225			
	Customers Affected	6,493			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jul-20
	Repair damage caused by trees during a storm			Complete	Nov-20
	Repair damage caused by trees during a storm			Complete	Jan-21
	Repair equipment failure			Complete	Jun-21
	Install advanced Dx protective devices			Complete	May-21
Targeted circuit rehabilitation			Complete	Jun-21	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
3	Warren South	00220-41	Warren	2,381	98	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	4.23	Trees Off ROW-Tree	86%	3Q 2020	
	SAIDI	1,031.37	Forced Outage	6%	4Q 2020	
	SAIFI	2.47	Lightning	4%	1Q 2021	
	CAIDI	418.13	All Other	5%	2Q 2021	
	Customer Minutes	2,455,682				
	Customers Affected	5,873				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by trees during a storm			Complete	Aug-20	
	Repair damage caused by trees during a storm			Complete	Aug-20	
	Circuit inspection			Complete	Sep-20	
	Install advanced Dx protective devices			Complete	Nov-20	
Rank	Substation	Circuit	District	Customers	Outages	
4	Bradford South	00106-42	Bradford	1,186	40	
	Reliability		Outage by Cause		Previously Ranked	
	SAIDI Impact	3.79	Trees Off ROW-Tree	83%	3Q 2020	
	SAIDI	1,855.56	Human Error -Non-Company	5%	4Q 2020	
	SAIFI	1.88	Equipment Failure	5%	1Q 2021	
	CAIDI	987.30	All Other	6%	2Q 2021	
	Customer Minutes	2,200,699				
	Customers Affected	2,229				
	Remedial Action Planned or Taken			Status	Progress	
	Repair damage caused by trees during a storm			Complete	Aug-20	
	Repair damage caused by trees during a storm			Complete	Sep-20	
	Rank	Substation	Circuit	District	Customers	Outages
	5	Dubois	00137-23	Dubois	3,111	106
Reliability		Outage by Cause		Previously Ranked		
SAIDI Impact		3.61	Trees Off ROW-Tree	71%	3Q 2020	
SAIDI		673.24	Trees Off ROW-Limb	9%	4Q 2020	
SAIFI		4.52	Forced Outage	7%	1Q 2021	
CAIDI		148.86	All Other	13%	2Q 2021	
Customer Minutes		2,094,460				
Customers Affected		14,070				
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			To be Completed 2021	0%		

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
6	Tiffany	00435-65	Montrose	1,477	58	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	3.61	Trees Off ROW-Tree	34%	3Q 2020	
	SAIDI	1,417.96	Line Failure	20%	4Q 2020	
	SAIFI	5.25	Lightning	16%	1Q 2021	
	CAIDI	269.85	All Other	30%	2Q 2021	
	Customer Minutes	2,094,332				
	Customers Affected	7,761				
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>	
	Repair Line failure			Complete	Aug-20	
	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	
	Circuit inspection			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages	
7	Falls	00297-65	Montrose	781	26	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	3.03	Trees Off ROW-Tree	85%	3Q 2020	
	SAIDI	2,250.64	Unknown	10%	4Q 2020	
	SAIFI	4.38	Ice	4%	1Q 2021	
	CAIDI	514.41	All Other	2%	2Q 2021	
	Customer Minutes	1,757,748				
	Customers Affected	3,417				
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>	
	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	
	Rank	Substation	Circuit	District	Customers	Outages
	8	Lewis Run	00408-42	Bradford	1,172	52
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>		
SAIDI Impact		2.89	Trees Off ROW-Tree	85%	1Q 2021	
SAIDI		1,430.26	Human Error -Non-Company	5%	2Q 2021	
SAIFI		4.13	Equipment Failure	3%		
CAIDI		346.19	All Other	6%		
Customer Minutes		1,676,269				
Customers Affected		4,842				
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>		
Repair damage caused by trees during a storm			Complete	Aug-20		
Repair damage caused by trees during a storm			Complete	Sep-20		
On cycle tree trimming			To be Completed 2021	46%		
Install advanced Dx protective devices			To be Completed 2021	0%		

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
9	Madera	00166-22	Philipsburg	1,427	54	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.86	Trees Off ROW-Tree	91%	3Q 2020	
	SAIDI	1,161.52	Unknown	4%	4Q 2020	
	SAIFI	2.83	Animal	3%	1Q 2021	
	CAIDI	410.17	All Other	2%	2Q 2021	
	Customer Minutes	1,657,493				
	Customers Affected	4,041				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Install advanced Dx protective devices				Complete	Aug-20
	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	May-21
Rank	Substation	Circuit	District	Customers	Outages	
10	Russell Hill	00282-65	Montrose	1,000	91	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.72	Trees Off ROW-Tree	66%	3Q 2020	
	SAIDI	1,576.65	Wind	10%	4Q 2020	
	SAIFI	4.35	Line Failure	9%	1Q 2021	
	CAIDI	362.53	All Other	15%	2Q 2021	
	Customer Minutes	1,576,654				
	Customers Affected	4,349				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm				Complete	Jul-20
	Repair damage caused by a vehicle accident				Complete	Jul-20
	Repair line failure				Complete	Dec-20
	Repair damage caused by trees during a storm				Complete	Mar-21
Repair damage caused by wind				Complete	Apr-21	
Install advanced Dx protective devices				Complete	Jun-21	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
11	Marienville	00328-51	Oil City	1,205	56
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.46	Trees Off ROW-Tree	82%	3Q 2020
	SAIDI	1,184.05	Unknown	10%	4Q 2020
	SAIFI	3.66	Line Failure	2%	1Q 2021
	CAIDI	323.61	All Other	6%	2Q 2021
	Customer Minutes	1,426,775			
	Customers Affected	4,409			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	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	0%
	Rank	Substation	Circuit	District	Customers
12	North Warren	00596-41	Warren	1,127	65
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.31	Trees Off ROW-Tree	84%	3Q 2020
	SAIDI	1,191.10	Line Failure	4%	4Q 2020
	SAIFI	2.24	Lightning	3%	1Q 2021
	CAIDI	532.48	All Other	9%	2Q 2021
	Customer Minutes	1,342,373			
	Customers Affected	2,521			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Aug-20
	Repair damage caused by trees during a storm			Complete	Sep-20
Rank	Substation	Circuit	District	Customers	Outages
13	Greenwood	00041-71	Altoona	1,213	23
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.22	Equipment Failure	57%	1Q 2021
	SAIDI	1,063.42	Wind	24%	2Q 2021
	SAIFI	3.55	Trees Off ROW-Tree	16%	
	CAIDI	299.36	All Other	1%	
	Customer Minutes	1,289,933			
	Customers Affected	4,309			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Aug-20
	Repair equipment failure			Complete	Sep-20
	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%	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
14	Rolling Meadows	00310-31	Erie	4,391	57	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.18	Line Failure	38%	1Q 2021	
	SAIDI	287.57	Human Error - Company	36%	2Q 2021	
	SAIFI	2.69	Equipment Failure	17%		
	CAIDI	106.97	All Other	9%		
	Customer Minutes	1,262,712				
	Customers Affected	11,804				
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>	
	Circuit inspection			Complete	Aug-20	
	Repair line failure			Complete	Sep-20	
	Install advanced Dx protective devices			Complete	Nov-20	
	Repair damage caused by human error-company			Complete	Mar-21	
	Rank	Substation	Circuit	District	Customers	Outages
15	Revloc	00069-72	Altoona	558	9	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.06	Trees Off ROW-Tree	89%	1Q 2021	
	SAIDI	2,140.50	Trees Off ROW-Limb	6%	2Q 2021	
	SAIFI	4.09	Line Failure	5%		
	CAIDI	523.86	All Other	1%		
	Customer Minutes	1,194,400				
	Customers Affected	2,280				
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>	
	On cycle tree trimming			Complete	Nov-20	
	Repair damage caused by trees during a storm			Complete	Feb-21	
	Repair damage caused by trees during a storm			Complete	Mar-21	
	Rank	Substation	Circuit	District	Customers	Outages
	16	Fallen Timbers	00995-22	Philipsburg	794	26
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>		
SAIDI Impact		1.96	Equipment Failure	41%	4Q 2020	
SAIDI		1,434.48	Trees Off ROW-Tree	29%	1Q 2021	
SAIFI		6.27	Trees Off ROW-Limb	14%	2Q 2021	
CAIDI		228.89	All Other	15%		
Customer Minutes		1,138,978				
Customers Affected		4,976				
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>		
Repair equipment failure			Complete	Jul-20		
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		

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
17	Madera	00165-22	Philipsburg	1,434	45
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.95	Equipment Failure	59%	1Q 2021
	SAIDI	790.44	Lightning	17%	2Q 2021
	SAIFI	4.37	Animal	11%	
	CAIDI	181.04	All Other	13%	
	Customer Minutes	1,133,488			
	Customers Affected	6,261			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Aug-20
	On cycle tree trimming			Complete	May-20
	Repair damage caused by trees during a storm			Complete	Aug-20
	Repair damage caused by animal			Complete	Oct-20
	Repair equipment failure			Complete	Mar-21
Repair line failure			Complete	Jun-21	
Rank	Substation	Circuit	District	Customers	Outages
18	Saxton Sub	00625-73	Altoona	1,090	30
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.91	Trees Off ROW-Tree	77%	2Q 2021
	SAIDI	1,016.93	Equipment Failure	20%	
	SAIFI	2.25	Lightning	2%	
	CAIDI	451.51	All Other	1%	
	Customer Minutes	1,108,452			
	Customers Affected	2,455			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jan-21
	Repair equipment failure			Complete	Feb-21
Rank	Substation	Circuit	District	Customers	Outages
19	Samuel Rea Car Shop	00031-71	Altoona	1,834	21
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.78	Equipment Failure	98%	3Q 2020
	SAIDI	561.65	Animal	1%	4Q 2020
	SAIFI	8.38	Unknown	1%	1Q 2021
	CAIDI	66.99	All Other	0%	2Q 2021
	Customer Minutes	1,030,059			
	Customers Affected	15,377			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair equipment failure			Complete	May-21	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
20	Natl Forge Sw Sta	00577-41	Warren	1,166	45
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.75	Trees Off ROW-Tree	77%	4Q 2020
	SAIDI	869.77	Equipment Failure	10%	1Q 2021
	SAIFI	5.95	Wind	9%	2Q 2021
	CAIDI	146.15	All Other	4%	
	Customer Minutes	1,014,157			
	Customers Affected	6,939			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Aug-20
	Repair damage caused by trees			Complete	Aug-20
	Repair damage caused by trees			Complete	Sep-20
	Repair damage caused by wind			Complete	Nov-20
	Install advanced Dx protective devices			Complete	Apr-21
	Repair damage caused by trees during a storm			Complete	Jun-21
Circuit inspection			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
21	Mill Street	00144-42	Bradford	963	13
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.72	Trees Off ROW-Tree	51%	4Q 2020
	SAIDI	1,034.41	Equipment Failure	44%	1Q 2021
	SAIFI	1.63	Lightning	4%	2Q 2021
	CAIDI	635.29	All Other	2%	
	Customer Minutes	996,141			
	Customers Affected	1,568			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Aug-20
	Repair damage caused by trees during a storm			Complete	Aug-20
On cycle tree trimming			To be Completed 2021	95%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
22	Philipsburg	00162-22	Philipsburg	2,714	63
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.60	Unknown	39%	3Q 2020
	SAIDI	341.50	Trees Off ROW-Tree	24%	4Q 2020
	SAIFI	3.35	Equipment Failure	21%	1Q 2021
	CAIDI	101.95	All Other	17%	2Q 2021
	Customer Minutes	926,842			
	Customers Affected	9,091			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Apr-20
	Circuit inspection			Complete	May-20
	Install advanced Dx protective devices			Complete	Aug-20
	Repair equipment failure			Complete	Dec-20
	Repair damage caused by ice			Complete	Dec-20
Repair damage caused by trees during a storm			Complete	Mar-21	
Rank	Substation	Circuit	District	Customers	Outages
23	Tunkhannock	00533-65	Montrose	1,243	50
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.57	Trees Off ROW-Tree	55%	3Q 2020
	SAIDI	733.94	Unknown	29%	1Q 2021
	SAIFI	3.46	Trees - Sec/Service	4%	2Q 2021
	CAIDI	211.86	All Other	11%	
	Customer Minutes	912,282			
	Customers Affected	4,306			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Apr-20
	Restore recloser operation of unknown cause			Complete	Aug-20
	Restore recloser operation of unknown cause			Complete	Jun-21
	Install advanced Dx protective devices			Complete	Jun-21
	Rank	Substation	Circuit	District	Customers
24	East Hickory	00201-41	Warren	308	18
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.47	Trees Off ROW-Tree	93%	2Q 2021
	SAIDI	2,777.46	Trees - Sec/Service	3%	
	SAIFI	2.69	Lightning	3%	
	CAIDI	1,034.41	All Other	1%	
	Customer Minutes	855,457			
	Customers Affected	827			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Aug-20
Repair damage caused by trees during a storm			Complete	Apr-21	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
25	N Meshoppen Tran	00534-65	Montrose	831	60
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.45	Trees Off ROW-Tree	82%	3Q 2020
	SAIDI	1,013.96	Equipment Failure	5%	4Q 2020
	SAIFI	2.40	Lightning	5%	1Q 2021
	CAIDI	423.20	All Other	8%	2Q 2021
	Customer Minutes	842,598			
	Customers Affected	1,991			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jul-20
	Repair damage caused by trees during a storm			Complete	Nov-20
	Repair damage caused by trees during a storm			Complete	Jan-21
	Rank	Substation	Circuit	District	Customers
26	Seward	00075-11	Johnstown	932	33
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.44	Equipment Failure	78%	3Q 2020
	SAIDI	894.39	Trees Off ROW-Tree	17%	4Q 2020
	SAIFI	4.29	Forced Outage	4%	1Q 2021
	CAIDI	208.34	All Other	0%	2Q 2021
	Customer Minutes	833,575			
	Customers Affected	4,001			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	May-21
	Repair damage caused by trees during a storm			Complete	Jun-21
Rank	Substation	Circuit	District	Customers	Outages
27	Blairsville East	00080-13	Indiana	931	24
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.38	Trees Off ROW-Tree	77%	3Q 2020
	SAIDI	861.16	Vehicle	12%	4Q 2020
	SAIFI	5.52	Equipment Failure	6%	1Q 2021
	CAIDI	156.10	All Other	5%	2Q 2021
	Customer Minutes	801,742			
	Customers Affected	5,136			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Aug-20
	Repair damage caused by trees during a storm			Complete	Aug-20
	Repair damage caused by a vehicle			Complete	Mar-21
Targeted circuit rehabilitation			Complete	May-21	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
28	Piney	00523-51	Oil City	1,504	58
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.31	Trees Off ROW-Tree	48%	3Q 2020
	SAIDI	506.55	Lightning	20%	4Q 2020
	SAIFI	3.32	Line Failure	20%	1Q 2021
	CAIDI	152.40	All Other	11%	2Q 2021
	Customer Minutes	761,852			
	Customers Affected	4,999			
	Remedial Action Planned or Taken			Status	Progress
	Install advanced Dx protective devices			Complete	Aug-20
	Repair damage caused by lightning			Complete	Sep-20
	Install new radio controlled switch			Complete	Sep-20
	On cycle tree trimming			Complete	Dec-20
	Repair line failure			Complete	Mar-21
Targeted circuit rehabilitation			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
29	Titusville Sub	00514-51	Oil City	512	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.17	Trees Off ROW-Tree	85%	2Q 2021
	SAIDI	1,327.45	Vehicle	10%	
	SAIFI	3.17	Trees Off ROW-Limb	4%	
	CAIDI	418.25	All Other	2%	
	Customer Minutes	679,653			
	Customers Affected	1,625			
	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
Rank	Substation	Circuit	District	Customers	Outages
30	Morgan Street	00233-52	Meadville	839	28
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.13	Vehicle	89%	1Q 2021
	SAIDI	778.54	Trees Off ROW-Tree	6%	2Q 2021
	SAIFI	2.50	Forced Outage	3%	
	CAIDI	311.19	All Other	3%	
	Customer Minutes	653,192			
	Customers Affected	2,099			
	Remedial Action Planned or Taken			Status	Progress
Repair damage caused by vehicle accident			Complete	Sep-20	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
31	Blairsville East	00082-13	Indiana	1,562	37	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.12	Forced Outage		42%	3Q 2020
	SAIDI	416.62	Trees Off ROW-Tree		32%	4Q 2020
	SAIFI	2.17	Line Failure		12%	1Q 2021
	CAIDI	192.36	All Other		15%	2Q 2021
	Customer Minutes	650,753				
	Customers Affected	3,383				
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>	
	Repair line failure			Complete	Jul-20	
	Repair equipment failure			Complete	Aug-20	
	On cycle tree trimming			Complete	Oct-20	
	Repair damage caused by trees during a storm			Complete	Jun-21	
	Rank	Substation	Circuit	District	Customers	Outages
32	Springboro	00237-52	Meadville	2,761	75	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.09	Line Failure		41%	3Q 2020
	SAIDI	229.75	Ice		13%	4Q 2020
	SAIFI	2.50	Equipment Failure		9%	1Q 2021
	CAIDI	91.75	All Other		37%	2Q 2021
	Customer Minutes	634,338				
	Customers Affected	6,914				
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>	
	Repair line failure			Complete	Sep-20	
	Install advanced Dx protective devices			Complete	Oct-20	
	Repair equipment failure			Complete	Nov-20	
	Repair damage caused by ice			Complete	Dec-20	
	Circuit inspection			Complete	May-21	
Install advanced Dx protective devices			To be Completed 2021	0%		
Rank	Substation	Circuit	District	Customers	Outages	
33	Grandview	00353-51	Oil City	861	34	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.09	Equipment Failure		56%	2Q 2021
	SAIDI	734.48	Trees Off ROW-Tree		31%	
	SAIFI	1.65	Trees Off ROW-Limb		5%	
	CAIDI	445.66	All Other		8%	
	Customer Minutes	632,390				
	Customers Affected	1,419				
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>	
	Repair damage caused by trees during a storm			Complete	Aug-20	
Repair equipment failure			Complete	Mar-21		

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
34	Wyalusing Sub	00532-62	Towanda	730	57
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.08	Ice	41%	3Q 2020
	SAIDI	862.31	Trees Off ROW-Tree	21%	4Q 2020
	SAIFI	5.87	Equipment Failure	20%	1Q 2021
	CAIDI	146.84	All Other	18%	2Q 2021
	Customer Minutes	629,486			
	Customers Affected	4,287			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Sep-20
	Repair damage caused by ice			Complete	Jan-21
	Repair damage caused by trees during a storm			Complete	Mar-21
	Rank	Substation	Circuit	District	Customers
35	Union City Sub	00208-43	Erie	1,460	85
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.08	Trees Off ROW-Tree	73%	4Q 2020
	SAIDI	430.39	Equipment Failure	12%	1Q 2021
	SAIFI	2.25	Forced Outage	5%	2Q 2021
	CAIDI	191.23	All Other	10%	
	Customer Minutes	628,371			
	Customers Affected	3,286			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees			Complete	Jul-20
	Repair damage caused by trees			Complete	Nov-20
	Repair equipment failure			Complete	Jan-21
	Circuit inspection			Complete	Jun-21
Rank	Substation	Circuit	District	Customers	Outages
36	Crown	00519-51	Oil City	644	56
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.05	Trees Off ROW-Tree	80%	3Q 2020
	SAIDI	945.79	Unknown	6%	4Q 2020
	SAIFI	3.11	Trees Off ROW-Limb	5%	1Q 2021
	CAIDI	304.39	All Other	9%	2Q 2021
	Customer Minutes	609,086			
	Customers Affected	2,001			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	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
	On cycle tree trimming			To be Completed 2021	96%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
37	Union City Sub	00206-43	Erie	2,862	95
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.02	Trees Off ROW-Tree	56%	2Q 2021
	SAIDI	206.38	Equipment Failure	13%	
	SAIFI	2.07	Unknown	10%	
	CAIDI	99.72	All Other	21%	
	Customer Minutes	590,652			
	Customers Affected	5,923			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Aug-20
	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
Install advanced Dx protective devices			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
38	Northeast	00592-31	Erie	1,598	46
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.99	Animal	67%	1Q 2021
	SAIDI	359.26	Equipment Failure	14%	2Q 2021
	SAIFI	2.98	Unknown	11%	
	CAIDI	120.43	All Other	9%	
	Customer Minutes	574,096			
	Customers Affected	4,767			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Sep-20
	Repair damage caused by animal			Complete	Sep-20
	Repair damage caused by animal			Complete	Oct-20
	Install advanced Dx protective devices			To be Completed 2021	0%
	Rank	Substation	Circuit	District	Customers
39	Wellsboro	00325-63	Mansfield Pa	229	6
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.98	Trees Off ROW-Tree	59%	3Q 2020
	SAIDI	2,492.19	Equipment Failure	41%	4Q 2020
	SAIFI	5.70	Forced Outage	0%	2Q 2021
	CAIDI	436.99	All Other	0%	
	Customer Minutes	570,712			
	Customers Affected	1,306			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Dec-20
Repair equipment failure			Complete	Jun-21	

<b>Penelec</b>						
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>	
40	East Towanda	00525-62	Towanda	668	52	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	0.96	Trees Off ROW-Tree	55%	3Q 2020	
	SAIDI	831.25	Unknown	18%	4Q 2020	
	SAIFI	2.24	Wind	11%	1Q 2021	
	CAIDI	371.92	All Other	16%	2Q 2021	
	Customer Minutes	555,272				
	Customers Affected	1,493				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	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
	<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
41	Meshoppen	00283-65	Montrose	387	14	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	0.92	Trees Off ROW-Tree	42%	4Q 2020	
	SAIDI	1,378.88	Line Failure	22%	2Q 2021	
	SAIFI	2.54	Unknown	16%		
	CAIDI	542.86	All Other	20%		
	Customer Minutes	533,627				
	Customers Affected	983				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair line failure				Complete	Jul-20
	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	
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>	
42	Warren 5Th Avenue	00250-41	Warren	980	33	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	0.87	Trees Off ROW-Tree	34%	2Q 2021	
	SAIDI	517.10	Unknown	31%		
	SAIFI	2.85	Equipment Failure	22%		
	CAIDI	181.44	All Other	13%		
	Customer Minutes	506,757				
	Customers Affected	2,793				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm				Complete	Aug-20
	Repair equipment failure				Complete	Oct-20
	Restore fuse operation of unknown cause				Complete	May-21

<b>Penelec</b>					
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
43	Tower 51	00051-11	Johnstown	578	27
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.87	Trees Off ROW-Tree	72%	2Q 2021
	SAIDI	869.55	Trees Off ROW-Limb	18%	
	SAIFI	3.60	Vehicle	6%	
	CAIDI	241.75	All Other	4%	
	Customer Minutes	502,602			
	Customers Affected	2,079			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	May-21
	Repair damage caused by trees during a storm			Complete	Jun-21
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
44	East Hickory	00200-41	Warren	465	30
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.85	Trees Off ROW-Tree	95%	1Q 2021
	SAIDI	1,066.04	Lightning	1%	2Q 2021
	SAIFI	3.07	Trees - Sec/Service	1%	
	CAIDI	347.62	All Other	2%	
	Customer Minutes	495,707			
	Customers Affected	1,426			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jun-21
	Repair damage caused by trees during a storm			Complete	Jun-21
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
45	Cranberry	00350-51	Oil City	1,072	24
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.85	Trees Off ROW-Tree	66%	1Q 2021
	SAIDI	457.55	Equipment Failure	23%	2Q 2021
	SAIFI	2.04	Wind	8%	
	CAIDI	224.48	All Other	2%	
	Customer Minutes	490,489			
	Customers Affected	2,185			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Mar-21
	Repair equipment failure			Complete	Jun-21

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
46	N Meshoppen Tran	00530-65	Montrose	542	35	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	0.84	Trees Off ROW-Tree	77%	3Q 2020	
	SAIDI	901.08	Line Failure	13%	4Q 2020	
	SAIFI	3.57	Unknown	4%	1Q 2021	
	CAIDI	252.53	All Other	6%	2Q 2021	
	Customer Minutes	488,386				
	Customers Affected	1,934				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair line failure				Complete	Dec-20
	Repair damage caused by trees during a storm				Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages	
47	East Sayre	00518-61	Towanda	949	36	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	0.79	Trees Off ROW-Tree	50%	3Q 2020	
	SAIDI	485.37	Lightning	17%	4Q 2020	
	SAIFI	2.48	Equipment Failure	16%	2Q 2021	
	CAIDI	195.67	All Other	17%		
	Customer Minutes	460,615				
	Customers Affected	2,354				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by lightning				Complete	Aug-20
	Repair equipment failure				Complete	Jan-21
Repair damage caused by trees during a storm				Complete	Jun-21	
Targeted circuit rehabilitation				To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages	
48	Birmingham	00168-22	Philipsburg	1,079	56	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	0.79	Trees Off ROW-Tree	78%	3Q 2020	
	SAIDI	422.87	Lightning	17%	4Q 2020	
	SAIFI	2.72	Unknown	2%	1Q 2021	
	CAIDI	155.62	All Other	4%	2Q 2021	
	Customer Minutes	456,281				
	Customers Affected	2,932				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Install advanced Dx protective devices				Complete	Aug-20
	Repair damage from lightning				Complete	Aug-20
Repair damage caused by trees during a storm				Complete	Aug-20	
Repair damage caused by trees during a storm				Complete	Jun-21	
Circuit inspection				To be Completed 2021	0%	
Install advanced Dx protective devices				To be Completed 2021	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
49	Lewis Run	00409-42	Bradford	667	32
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.78	Trees Off ROW-Tree	50%	1Q 2021
	SAIDI	678.54	Equipment Failure	43%	2Q 2021
	SAIFI	3.26	Line Failure	5%	
	CAIDI	208.28	All Other	2%	
	Customer Minutes	452,588			
	Customers Affected	2,173			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by trees during a storm			Complete	Aug-20
	Repair equipment failure			Complete	Sep-20
	Circuit inspection			To be Completed 2021	0%
	Rank	Substation	Circuit	District	Customers
50	North Towanda	00521-62	Towanda	976	59
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.75	Trees Off ROW-Tree	69%	3Q 2020
	SAIDI	448.68	Equipment Failure	14%	1Q 2021
	SAIFI	2.62	Unknown	9%	2Q 2021
	CAIDI	171.39	All Other	8%	
	Customer Minutes	437,908			
	Customers Affected	2,555			
	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
51	Spangler Sub	00052-72	Altoona	1,493	17
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.75	Trees Off ROW-Tree	96%	2Q 2021
	SAIDI	292.71	Equipment Failure	2%	
	SAIFI	1.87	Animal	1%	
	CAIDI	156.36	All Other	1%	
	Customer Minutes	437,019			
	Customers Affected	2,795			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Mar-21

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
52	Scalp Level	00932-11	Johnstown	978	26
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.75	Lightning	41%	3Q 2020
	SAIDI	442.31	Trees Off ROW-Tree	31%	4Q 2020
	SAIFI	3.35	Forced Outage	26%	1Q 2021
	CAIDI	131.88	All Other	3%	2Q 2021
	Customer Minutes	432,578			
	Customers Affected	3,280			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by lightning			Complete	Jul-20
	Repair damage caused by trees during a storm			Complete	Jan-21
	Repair damage caused by trees during a storm			Complete	Mar-21
	Rank	Substation	Circuit	District	Customers
53	Reeder Street	00039-11	Johnstown	1,781	22
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.74	Trees Off ROW-Tree	67%	2Q 2021
	SAIDI	242.73	Line Failure	28%	
	SAIFI	2.29	Equipment Failure	3%	
	CAIDI	105.85	All Other	2%	
	Customer Minutes	432,296			
	Customers Affected	4,084			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	May-21
	Repair line failure			Complete	May-21
Rank	Substation	Circuit	District	Customers	Outages
54	Warren South	00255-41	Warren	616	31
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.74	Trees Off ROW-Tree	78%	3Q 2020
	SAIDI	701.07	Wind	17%	1Q 2021
	SAIFI	2.91	Trees - Sec/Service	2%	2Q 2021
	CAIDI	241.13	All Other	4%	
	Customer Minutes	431,859			
	Customers Affected	1,791			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Aug-20
Repair damage caused by trees during a storm			Complete	Jun-21	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
55	Brookville	00125-23	Dubois	562	21	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	0.72	Trees Off ROW-Tree	75%	1Q 2021	
	SAIDI	745.03	Equipment Failure	13%	2Q 2021	
	SAIFI	2.11	Vehicle	7%		
	CAIDI	352.74	All Other	6%		
	Customer Minutes	418,707				
	Customers Affected	1,187				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm				Complete	Nov-20
	Repair equipment failure				Complete	Mar-21
	Targeted circuit rehabilitation				To be Completed 2021	0%
	Rank	Substation	Circuit	District	Customers	Outages
56	Samuel Rea Car Shop	00032-71	Altoona	817	19	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	0.72	Line Failure	69%	2Q 2021	
	SAIDI	507.87	Bird	15%		
	SAIFI	3.39	Trees Off ROW-Tree	11%		
	CAIDI	149.90	All Other	4%		
	Customer Minutes	414,931				
	Customers Affected	2,768				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair line failure				Complete	Mar-21
	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	
57	Shawville	00151-21	Clearfield	2,251	39	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	0.68	Equipment Failure	55%	3Q 2020	
	SAIDI	174.03	Trees Off ROW-Tree	25%	1Q 2021	
	SAIFI	3.40	Unknown	8%	2Q 2021	
	CAIDI	51.14	All Other	11%		
	Customer Minutes	391,739				
	Customers Affected	7,660				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm				Complete	Mar-21
	Repair equipment failure				Complete	Mar-21

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
58	Snakespring	00628-73	Altoona	1,006	31
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.67	Trees Off ROW-Tree	38%	2Q 2021
	SAIDI	388.75	Equipment Failure	38%	
	SAIFI	2.50	Trees Off ROW-Limb	14%	
	CAIDI	155.31	All Other	11%	
	Customer Minutes	391,078			
	Customers Affected	2,518			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Dec-20
	Repair equipment failure			Complete	Mar-21
Rank	Substation	Circuit	District	Customers	Outages
59	Cooper	00069-11	Johnstown	691	26
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.65	Trees Off ROW-Tree	56%	2Q 2021
	SAIDI	542.33	Equipment Failure	22%	
	SAIFI	3.69	Line Failure	20%	
	CAIDI	146.79	All Other	2%	
	Customer Minutes	374,752			
	Customers Affected	2,553			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jun-21
	Repair line failure			Complete	May-21
Repair equipment failure			Complete	May-21	
Rank	Substation	Circuit	District	Customers	Outages
60	Blossburg	00310-63	Mansfield Pa	249	11
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.64	Equipment Failure	76%	4Q 2020
	SAIDI	1,502.03	Wind	17%	2Q 2021
	SAIFI	3.50	Vehicle	3%	
	CAIDI	428.90	All Other	4%	
	Customer Minutes	374,005			
	Customers Affected	872			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Jul-20
Repair damage caused by wind			Complete	Mar-21	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
61	Titusville Sub	00386-51	Oil City	169	11	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	0.64	Trees Off ROW-Tree	75%	2Q 2021	
	SAIDI	2,212.64	Equipment Failure	11%		
	SAIFI	5.15	Lightning	7%		
	CAIDI	429.32	All Other	7%		
	Customer Minutes	373,937				
	Customers Affected	871				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair equipment failure				Complete	Jul-20
	Repair damage caused by trees during a storm				Complete	Mar-21
	Repair damage caused by trees during a storm				Complete	Jun-21
Rank	Substation	Circuit	District	Customers	Outages	
62	Revloc	00071-72	Altoona	492	16	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	0.64	Line Failure	86%	3Q 2020	
	SAIDI	758.52	Equipment Failure	10%	4Q 2020	
	SAIFI	3.15	Human Error -Non-Company	3%	1Q 2021	
	CAIDI	240.77	All Other	1%	2Q 2021	
	Customer Minutes	373,192				
	Customers Affected	1,550				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair line failure				Complete	Aug-20

<b>Penelec</b>					
<b>Unranked circuits appearing 2 or more quarters in the last 4 quarters</b>					
<b>Substation</b>	<b>Circuit</b>	<b>3Q 2020</b>	<b>4Q 2020</b>	<b>1Q 2021</b>	<b>2Q 2021</b>
Church	00427-34	X	X		
Clearfield	00148-21	X	X		
Corry East	00247-43	X	X	X	
Dubois Central	00119-23	X	X	X	
French Road	00222-31	X	X	X	
Hooversville	00018-12	X	X	X	
Hooversville	00019-12	X	X	X	
Industrial Park	00796-65	X		X	
Knox	00323-51		X	X	
Lake Como	00788-65	X	X	X	
Laurel Lake Tran	00449-65	X	X	X	
Logan	00700-81	X	X	X	
Mansfield	00559-63	X	X	X	
McVeytown	00112-81	X	X	X	
Meyersdale North	00022-12	X	X		
North Warren	00207-41	X	X	X	
Rockwood	00023-12	X	X	X	
Somerset	00017-12	X	X	X	
Stoystown	00402-12	X	X	X	
Wellsboro	00324-63	X	X	X	

<b>Penelec</b>				
<b>Unranked circuits with remedial actions scheduled to be or recently completed</b>				
<b>Substation</b>	<b>Circuit</b>	<b>Remedial Action Planned or Taken</b>	<b>Status of Remedial Work Completed</b>	<b>Progress of Remedial Work or Date Completed</b>
Birmingham	00168-22	Circuit inspection	To be Completed 2021	0%
Birmingham	00168-22	Install advanced Dx protective devices	To be Completed 2021	0%
Carlisle Pike	00643-83	Circuit inspection	To be Completed 2021	0%
Carlisle Pike	00643-83	On cycle tree trimming	Complete	Mar-21
Church	00427-34	On cycle tree trimming	To be Completed 2021	0%
Church	00427-34	Circuit inspection	To be Completed 2021	0%
Clearfield	00148-21	On cycle tree trimming	To be Completed 2021	28%
Clearfield	00148-21	Install new radio controlled switch	Complete	Feb-21
Farmers Valley	00125-42	Install advanced Dx protective devices	To be Completed 2021	0%
Hilltop	00040-11	Circuit inspection	To be Completed 2021	0%
Lowell Avenue	00518-31	Circuit inspection	To be Completed 2021	0%
Marienville	00327-51	Install new radio controlled recloser	To be Completed 2021	99%
Punxsutawney	00118-23	On cycle tree trimming	To be Completed 2021	0%
Union City	00206-43	Install advanced Dx protective devices	To be Completed 2021	0%

<b>Penn Power</b>						
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>	
1	Hartstown	W-126	Clark	2,193	81	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	4.6	Trees Off ROW-Tree	75%	1Q 2021	
	SAIDI	347	Line Failure	8%	2Q 2021	
	SAIFI	1.05	Trees Off ROW-Limb	5%		
	CAIDI	332	All Other	12%		
	Customer Minutes	761,190				
	Customers Affected	2,292				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by animal contact				Complete	Aug-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Repair line failure				Complete	Nov-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Repair damage caused by trees during a storm				Complete	Jun-21
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>	
2	Koppel	D-531	New Castle	973	28	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	4.0	Trees Off ROW-Tree	82%	4Q 2020	
	SAIDI	680	Line Failure	9%	1Q 2021	
	SAIFI	1.37	Equipment Failure	5%	2Q 2021	
	CAIDI	498	All Other	4%		
	Customer Minutes	661,540				
	Customers Affected	1,329				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	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
	<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
	3	Mercer	W-167	Clark	852	36
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>		
SAIDI Impact		3.1	Trees Off ROW-Tree	90%	4Q 2020	
SAIDI		612	Line Failure	3%	1Q 2021	
SAIFI		1.85	Animal	2%	2Q 2021	
CAIDI		330	All Other	5%		
Customer Minutes		521,240				
Customers Affected		1,578				
<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>	
Repair damage caused by tree.				Complete	Sep-20	
Repair damage caused by trees during a storm				Complete	Nov-20	
Repair line failure				Complete	May-21	

Penn Power					
Rank					
4	Chippewa	D-558	Zelienople	1116	17
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.8	Trees Off ROW-Tree	91%	2Q 2021
	SAIDI	423	Vehicle	6%	
	SAIFI	1.43	Bird	1%	
	CAIDI	296	All Other	2%	
	Customer Minutes	471,877			
	Customers Affected	1,596			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	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
5	Conneaut	W-174	Clark	1169	38
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.7	Trees Off ROW-Tree	94%	1Q 2021
	SAIDI	388	Trees Off ROW-Limb	2%	2Q 2021
	SAIFI	1.62	Animal	1%	
	CAIDI	239	All Other	3%	
	Customer Minutes	453,221			
	Customers Affected	1,894			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jul-20
	Repair damage caused by trees during a storm			Complete	Nov-20
Rank	Substation	Circuit	District	Customers	Outages
6	Camp Reynolds	W-134	Clark	1744	63
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.5	Trees Off ROW-Tree	70%	4Q 2020
	SAIDI	236	Line Failure	12%	1Q 2021
	SAIFI	1.20	Animal	4%	2Q 2021
	CAIDI	196	All Other	14%	
	Customer Minutes	411,650			
	Customers Affected	2,095			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	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	

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
7	Perry	W-156	Clark	1049	52	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.5	Trees Off ROW-Tree	49%	3Q 2020	
	SAIDI	386	Bird	10%	4Q 2020	
	SAIFI	1.79	Forced Outage	9%	1Q 2021	
	CAIDI	215	All Other	32%	2Q 2021	
	Customer Minutes	405,310				
	Customers Affected	1,882				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage from bird nest				Complete	Jul-20
	Restore switching needed for scheduled repairs				Complete	Jul-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Replace crossarm				Complete	Apr-21
Rank	Substation	Circuit	District	Customers	Outages	
8	Richard	W745	Zelienople	633	17	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.0	Trees Off ROW-Tree	98%	2Q 2021	
	SAIDI	532	Trees On ROW	1%		
	SAIFI	2.92				
	CAIDI	182	All Other	1%		
	Customer Minutes	336,454				
	Customers Affected	1,846				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm				Complete	Aug-20
	Repair damage caused by tree.				Complete	Mar-21
	Repair damage caused by trees during a storm				Complete	Jun-21
	Rank	Substation	Circuit	District	Customers	Outages
	9	Ellwood Sw Str	D590	Zelienople	1279	33
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>		
SAIDI Impact		1.9	Trees Off ROW-Tree	52%	2Q 2021	
SAIDI		251	Vehicle	42%		
SAIFI		1.85	Line Failure	2%		
CAIDI		136	All Other	4%		
Customer Minutes		321,582				
Customers Affected		2,371				
<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>	
Repair damage caused by a vehicle				Complete	Sep-20	
Repair damage caused by trees during a storm				Complete	Nov-20	
Repair damage caused by tree				Complete	Apr-21	

<b>Penn Power</b>					
<b>Unranked circuits appearing 2 or more quarters in the last 4 quarters</b>					
<b>Substation</b>	<b>Circuit</b>	<b>3Q 2020</b>	<b>4Q 2020</b>	<b>1Q 2021</b>	<b>2Q 2021</b>
BMF	W-760	X	X		
Grant Street	W-421	X	X	X	
Hadley	W-195	X		X	
Knox	D-509	X	X	X	
Seneca	W-700	X	X		

<b>Penn Power</b>				
<b>Unranked circuits with remedial actions scheduled to be or recently completed</b>				
<b>Substation</b>	<b>Circuit</b>	<b>Remedial Action Planned</b>	<b>Status of Remedial Work</b>	<b>Progress of Remedial Work</b>
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 Pa	1,111	62
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	4.5	Trees off ROW	67%	Q3 2020
	SAIDI	2,927	Unknown	12%	Q4 2020
	SAIFI	4.62	Equipment Failure	10%	Q1 2021
	CAIDI	633	All Other	11%	Q2 2021
	Customer Minutes	3,251,650			
	Customers Affected	5,133			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure during a storm			Complete	Jul-20
	Restore unknown outage during a storm			Complete	Nov-20
	Repair damage caused by a tree during a storm			Complete	Feb-21
	Overhead circuit inspection			Complete	Jun-21
	Repair damage caused by a tree during a storm			Complete	Jun-21
Rank	Substation	Circuit	District	Customers	Outages
2	Vandergrift	Grifflo Park	Arnold	2,732	63
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	3.3	Trees off ROW	39%	Q3 2020
	SAIDI	879	Wind	32%	Q4 2020
	SAIFI	3	Unknown	11%	Q1 2021
	CAIDI	274	All Other	18%	Q2 2021
	Customer Minutes	2,401,815			
	Customers Affected	8,754			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Restore unknown outage during a storm			Complete	Aug-20
	Repair damage caused by wind during a storm			Complete	Aug-20
	Repair damage caused by a tree			Complete	Dec-20
	Repair damage caused by a tree during a storm			Complete	Mar-21
	On Cycle Tree Trimming			Complete	Jun-21
Repair damage caused by a tree during a storm			Complete	Jun-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
3	Driftwood	Driftwood	St Marys	954	32
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.7	Trees off ROW	57%	Q3 2020
	SAIDI	2,075	Human Error Non-Company	24%	Q4 2020
	SAIFI	2.95	Equipment Failure	15%	Q1 2021
	CAIDI	703	All Other	4%	Q2 2021
	Customer Minutes	1,979,502			
	Customers Affected	2,816			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree during a storm			Complete	Aug-20
	Repair equipment failure			Complete	Dec-20
	Repair damage caused by wind during a storm			Complete	Mar-21
	Repair damage caused by Human Error Non-Company			Complete	Apr-21
Rank	Substation	Circuit	District	Customers	Outages
4	Rutan	Bristoria	Jefferson	1,134	94
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.2	Trees off ROW	58%	Q3 2020
	SAIDI	1,422	Unknown	19%	Q4 2020
	SAIFI	2.57	Line Failure	17%	Q1 2021
	CAIDI	554	All Other	6%	Q2 2021
	Customer Minutes	1,612,525			
	Customers Affected	2,912			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree during a storm			Complete	Jul-20
	Repair equipment failure during a storm			Complete	Nov-20
	Repair line failure			Complete	Mar-21
	Restore unknown outage during a storm			Complete	Jun-21
Rank	Substation	Circuit	District	Customers	Outages
5	Sardis	Mamont	Arnold	1069	7
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2	Trees off ROW	88%	Q4 2020
	SAIDI	1,376	Trees on ROW	12%	Q1 2021
	SAIFI	1.7	All Other	0%	Q2 2021
	CAIDI	807			
	Customer Minutes	1,470,748			
	Customers Affected	1,822			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Repair equipment failure during a storm			Complete	Mar-21
Overhead circuit inspection			To be completed 2021	29%	

West Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
6	Weedville	Weedville	St Marys	1409	49	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.8	Trees off ROW	80%	Q3 2020	
	SAIDI	939	Human Error Non-Company	18%	Q4 2020	
	SAIFI	3.11	Forced Outage	1%	Q1 2021	
	CAIDI	302	All Other	1%	Q2 2021	
	Customer Minutes	1,322,438				
	Customers Affected	4,376				
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>	
	Zone 1 Infrared Inspection			Complete	Jul-20	
	Restore outage caused by human error non-company			Complete	Sep-20	
	Repair damage caused by a tree during a storm			Complete	Nov-20	
	Repair damage caused by a tree during a storm			Complete	Mar-21	
	Repair damage caused by a tree			Complete	May-21	
Rank	Substation	Circuit	District	Customers	Outages	
7	Shaffers Corner	Seventh St Rd	Arnold	1,650	18	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.8	Trees off ROW	95%	Q1 2021	
	SAIDI	774	Forced Outage	2%	Q2 2021	
	SAIFI	2.58	Trees on ROW	1%		
	CAIDI	299	All Other	2%		
	Customer Minutes	1,276,501				
	Customers Affected	4,264				
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>	
	Forced outage to repair damage			Complete	Mar-21	
	Repair damage caused by a tree during a storm			Complete	Jun-21	
	Zone 1 Infrared Inspection			Complete	Jun-21	
	Rank	Substation	Circuit	District	Customers	Outages
	8	Avella	Penowa	Washington Pa	647	48
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>		
SAIDI Impact		1.7	Trees off ROW	73%	Q2 2021	
SAIDI		1,876	Unknown	25%		
SAIFI		1.95	Trees on ROW	2%		
CAIDI		960	All Other	0%		
Customer Minutes		1,213,701				
Customers Affected		1,264				
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>		
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		

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
9	Robbins	Rillton	Jeannette	1,535	24
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.5	Trees off ROW	95%	Q4 2020
	SAIDI	728	Vehicle	3%	Q1 2021
	SAIFI	2.78	Line Failure	1%	Q2 2021
	CAIDI	262	All Other	1%	
	Customer Minutes	1,117,652			
	Customers Affected	4,274			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Repair damage caused by a tree during a storm			Complete	Jun-21
Rank	Substation	Circuit	District	Customers	Outages
10	Frazier	Star Junction	Pleasant Valley	1,712	26
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.5	Vehicle	65%	Q4 2020
	SAIDI	636	Trees off ROW	31%	Q1 2021
	SAIFI	1.55	Trees on ROW	2%	Q2 2021
	CAIDI	410	All Other	2%	
	Customer Minutes	1,088,699			
	Customers Affected	2,654			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a vehicle			Complete	Oct-20
	Repair line failure			Complete	Jan-21
Repair damage caused by a tree			Complete	Apr-21	
On Cycle Tree Trimming			To be completed 2021	99%	
Rank	Substation	Circuit	District	Customers	Outages
11	Dutch Fork	Claysville	Washington Pa	1,577	69
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.5	Trees off ROW	72%	Q3 2020
	SAIDI	685	Vehicle	12%	Q4 2020
	SAIFI	1.72	Equipment Failure	9%	Q2 2021
	CAIDI	399	All Other	7%	
	Customer Minutes	1,079,593			
	Customers Affected	2,705			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Zone 1 Infrared Inspection			Complete	Jul-20
	Repair damage caused by a tree during a storm			Complete	Aug-20
Repair damage caused by a tree during a storm			Complete	Nov-20	
Repair damage caused by a vehicle			Complete	Apr-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
12	Murrycrest	Sardis Road	Jeannette	1,486	37
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.5	Trees off ROW	72%	Q3 2020
	SAIDI	722	Trees on ROW	11%	Q4 2020
	SAIFI	6.24	Forced Outage	8%	Q1 2021
	CAIDI	116	All Other	9%	Q2 2021
	Customer Minutes	1,072,850			
	Customers Affected	9,266			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree			Complete	Sep-20
	Repair damage caused by a tree during a storm			Complete	Dec-20
	Repair equipment failure			Complete	Mar-21
	On Cycle Tree Trimming			Complete	Apr-21
	Forced outage to repair damage			Complete	Apr-21
Rank	Substation	Circuit	District	Customers	Outages
13	Fayetteville	Keystone	Waynesboro	1,514	40
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.4	Trees off ROW	68%	Q3 2020
	SAIDI	645	Trees on ROW	14%	Q4 2020
	SAIFI	1.77	Wind	8%	Q1 2021
	CAIDI	365	All Other	10%	Q2 2021
	Customer Minutes	976,616			
	Customers Affected	2,676			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree during a storm			Complete	Jul-20
	Restore unknown outage			Complete	Oct-20
	Repair equipment failure			Complete	Jan-21
	Repair damage caused by a tree during a storm			Complete	Jun-21
	On Cycle Tree Trimming			To be completed 2021	97%

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
14	Marvindale	Clermont	St Marys	855	12
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.3	Trees off ROW	100%	Q3 2020
	SAIDI	1138	All Other	0%	Q4 2020
	SAIFI	2.4			Q1 2021
	CAIDI	475			Q2 2021
	Customer Minutes	972,746			
	Customers Affected	2,048			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Jul-20
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Repair damage caused by a tree			Complete	Mar-21
	Repair damage caused by a tree during a storm			Complete	Apr-21
Rank	Substation	Circuit	District	Customers	Outages
15	Crossgates	Robinhood	Boyce	1080	27
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees off ROW	60%	Q2 2021
	SAIDI	829	Trees on ROW	30%	
	SAIFI	2.11	Forced Outage	5%	
	CAIDI	393	All Other	5%	
	Customer Minutes	895,332			
	Customers Affected	2,281			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	May-21
Rank	Substation	Circuit	District	Customers	Outages
16	Amity	Banetown	Washington Pa	1,479	59
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.2	Trees off ROW	73%	Q3 2020
	SAIDI	598	Line Failure	15%	Q4 2020
	SAIFI	2.3	Unknown	8%	Q2 2021
	CAIDI	260	All Other	4%	
	Customer Minutes	883,856			
	Customers Affected	3,398			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Jul-20
	Repair damage caused by a tree during a storm			Complete	Aug-20
Forced outage to repair damage			Complete	Oct-20	
Repair damage caused by a tree during a storm			Complete	May-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
17	Smith	Francis Mine	Washington Pa	1,436	58
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.2	Trees off ROW	63%	Q1 2021
	SAIDI	614	Line Failure	24%	Q2 2021
	SAIFI	2.08	Trees on ROW	5%	
	CAIDI	296	All Other	8%	
	Customer Minutes	881,830			
	Customers Affected	2,983			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	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			To be completed 2021	95%
Rank	Substation	Circuit	District	Customers	Outages
18	Franklin	Rogersville	Jefferson	835	71
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.1	Trees off ROW	83%	Q3 2020
	SAIDI	993	Unknown	13%	Q4 2020
	SAIFI	3.06	Line Failure	3%	Q1 2021
	CAIDI	324	All Other	1%	Q2 2021
	Customer Minutes	829,273			
	Customers Affected	2,557			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Zone 1 Infrared Inspection			Complete	Jul-20
	Restore unknown outage			Complete	Sep-20
	Repair damage caused by a tree			Complete	Oct-20
Restore unknown outage during a storm			Complete	Mar-21	
Repair damage caused by a tree			Complete	May-21	
Rank	Substation	Circuit	District	Customers	Outages
19	Waterville	Waterville	State College	356	25
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.1	Other Electric Utility	76%	Q3 2020
	SAIDI	2,328	Trees off ROW	19%	Q4 2020
	SAIFI	8.11	Unknown	4%	Q1 2021
	CAIDI	287	All Other	1%	Q2 2021
	Customer Minutes	828,787			
	Customers Affected	2,886			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Restore outage caused by other electric utility			Complete	Jul-20
	On cycle tree trimming			Complete	Nov-20
	Restore outage caused by other electric utility during a storm			Complete	Mar-21
Restore outage caused by other electric utility			Complete	Jun-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
20	Belmon	Fayette City	Charleroi	1,382	24
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.1	Equipment Failure	47%	Q3 2020
	SAIDI	596	Trees off ROW	45%	Q4 2020
	SAIFI	3.25	Unknown	4%	Q1 2021
	CAIDI	183	All Other	4%	Q2 2021
	Customer Minutes	823,122			
	Customers Affected	4,493			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree			Complete	Jul-21
	Repair equipment failure during a storm			Complete	Aug-21
	Repair damage caused by a tree during a storm			Complete	Mar-21
	Overhead circuit inspection			Complete	Mar-21
	Forced outage to repair damage			Complete	Jun-21
Rank	Substation	Circuit	District	Customers	Outages
21	Dry Run	Town	Charleroi	1,814	11
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.1	Trees off ROW	67%	Q2 2021
	SAIDI	452	Line Failure	17%	
	SAIFI	3.36	Forced Outage	13%	
	CAIDI	134	All Other	3%	
	Customer Minutes	819,820			
	Customers Affected	6,098			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree during a storm			Complete	Jun-21
Rank	Substation	Circuit	District	Customers	Outages
22	Port Matilda	Port Matilda	State College	1,438	51
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.1	Trees off ROW	75%	Q2 2021
	SAIDI	566	Equipment Failure	24%	
	SAIFI	2.74	Trees on ROW	0.3%	
	CAIDI	206	All Other	1%	
	Customer Minutes	813,524			
	Customers Affected	3,940			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree			Complete	Jun-21
Overhead circuit inspection			To be completed 2021	73%	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
23	Bethlen	Darlington	Latrobe	1,243	59
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	92%	Q3 2020
	SAIDI	622	Line Failure	4%	Q4 2020
	SAIFI	2.4	Equipment Failure	2%	Q1 2021
	CAIDI	260	All Other	2%	Q2 2021
	Customer Minutes	773,238			
	Customers Affected	2,977			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jul-20
	Repair damage caused by a tree			Complete	Dec-20
	Repair damage caused by a tree			Complete	Mar-21
	Repair line failure during a storm			Complete	Jun-21
	On Cycle Tree Trimming			To be completed 2021	67%
Rank	Substation	Circuit	District	Customers	Outages
24	Piney Fork	Gillhall	Charleroi	2,178	18
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Trees off ROW	70%	Q3 2020
	SAIDI	345	Unknown	20%	Q4 2020
	SAIFI	2.31	Line Failure	5%	Q1 2021
	CAIDI	149	All Other	5%	Q2 2021
	Customer Minutes	750,862			
	Customers Affected	5,027			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-20
	Restore unknown outage			Complete	Oct-20
	Repair damage caused by a tree during a storm			Complete	Feb-21
	Zone 1 Infrared Inspection			Complete	May-21
	Repair damage caused by a tree during a storm			Complete	Jun-21

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
25	Thomas	Thomas	Boyce	1,344	40
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.00	Equipment Failure	43%	Q4 2020
	SAIDI	557	Trees off ROW	23%	Q1 2021
	SAIFI	2.87	Wind	20%	Q2 2021
	CAIDI	194	All Other	14%	
	Customer Minutes	748,933			
	Customers Affected	3,856			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	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
Rank	Substation	Circuit	District	Customers	Outages
26	Enlow	Summit	Boyce	1,806	13
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.03	Trees off ROW	87%	Q3 2020
	SAIDI	412	Trees on ROW	10%	Q4 2020
	SAIFI	3	Line Failure	2%	Q2 2021
	CAIDI	148	All Other	1%	
	Customer Minutes	744,424			
	Customers Affected	5,034			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair line failure			Complete	Sep-20
	Repair line failure			Complete	Nov-20
	Repair damage caused by a tree during a storm			Complete	Jun-21
Rank	Substation	Circuit	District	Customers	Outages
27	Amity	Amity	Washington Pa	529	33
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1	Trees off ROW	64%	Q3 2020
	SAIDI	1386	Unknown	20%	Q4 2020
	SAIFI	4.64	Trees on ROW	5%	Q1 2021
	CAIDI	299	All Other	11%	Q2 2021
	Customer Minutes	733,370			
	Customers Affected	2,455			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree during a storm			Complete	Aug-20
	Repair damage caused by a tree during a storm			Complete	Nov-20
	On Cycle Tree Trimming			Complete	Dec-20
Repair damage caused by a tree			Complete	Mar-21	
Repair damage caused by a tree during a storm			Complete	May-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
28	Pangburn Hill	Pangburn Hill	Charleroi	751	23
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1	Trees off ROW	95%	Q2 2021
	SAIDI	974	Equipment Failure	2%	
	SAIFI	2.87	Wind	2%	
	CAIDI	339	All Other	1%	
	Customer Minutes	731,220			
	Customers Affected	2,159			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree			Complete	Apr-21
Rank	Substation	Circuit	District	Customers	Outages
29	Diamond Street	Hansen Ave	Butler	1,603	13
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1	Trees off ROW	84%	Q2 2021
	SAIDI	446	Equipment Failure	15%	
	SAIFI	2.22	Vehicle	1%	
	CAIDI	200	All Other	0%	
	Customer Minutes	714,290			
	Customers Affected	3,566			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	On Cycle Tree Trimming			Complete	Oct-20
Repair equipment failure			Complete	Apr-21	
Rank	Substation	Circuit	District	Customers	Outages
30	Scottdale	Commercial	Pleasant Valley	1,701	22
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1	Vehicle	68%	Q1 2021
	SAIDI	415	Trees off ROW	24%	Q2 2021
	SAIFI	1.95	Forced Outage	6%	
	CAIDI	213	All Other	2%	
	Customer Minutes	706,714			
	Customers Affected	3,311			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a vehicle			Complete	Jan-21
Repair damage caused by a tree during a storm			Complete	May-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
31	Atherton	East Residential	State College	1,983	17
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1	Equipment Failure	94%	Q2 2021
	SAIDI	354	Trees off ROW	3%	
	SAIFI	1.44	Unknown	2%	
	CAIDI	246	All Other	1%	
	Customer Minutes	701,275			
	Customers Affected	2,855			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	May-21
Rank	Substation	Circuit	District	Customers	Outages
32	Kane	Russell City	St Marys	703	20
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1	Trees off ROW	78%	Q4 2020
	SAIDI	994	Line Failure	19%	Q1 2021
	SAIFI	2.1	Unknown	2%	Q2 2021
	CAIDI	473	All Other	1%	
	Customer Minutes	699,114			
	Customers Affected	1,479			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	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	Jun-21	
Rank	Substation	Circuit	District	Customers	Outages
33	Karns City	Kaylor	Butler	1157	44
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1	Trees off ROW	54%	Q3 2020
	SAIDI	593	Unknown	43%	Q4 2020
	SAIFI	2.42	Trees on ROW	1%	Q1 2021
	CAIDI	245	All Other	2%	Q2 2021
	Customer Minutes	686,399			
	Customers Affected	2,805			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree during a storm			Complete	Jul-20
Restore unknown outage during a storm			Complete	Aug-20	
Repair damage caused by a tree during a storm			Complete	Nov-20	
Repair damage caused by a tree during a storm			Complete	Mar-21	
Zone 1 Infrared Inspection			Complete	Jun-21	
Repair damage caused by a tree during a storm			Complete	Apr-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
34	Mushroom	Mushroom	Kittanning	316	10
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees off ROW	97%	Q3 2020
	SAIDI	2100	Equipment Failure	3%	Q4 2020
	SAIFI	2.29	All Other	0%	Q1 2021
	CAIDI	915			Q2 2021
	Customer Minutes	663,459			
	Customers Affected	725			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Aug-20
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Repair damage caused by a tree			Complete	Feb-21
	Overhead circuit inspection			To be completed 2021	5%
	Rank	Substation	Circuit	District	Customers
35	Smithton	Fitzhenry	Charleroi	1,167	23
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Vehicle	45%	Q3 2020
	SAIDI	558	Line Failure	31%	Q4 2020
	SAIFI	2.1	Equipment Failure	21%	Q1 2021
	CAIDI	266	All Other	3%	Q2 2021
	Customer Minutes	651,289			
	Customers Affected	2,451			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Sep-20
	Repair line failure			Complete	Dec-20
	Repair damage caused by a vehicle			Complete	Mar-21
	Zone 1 Infrared Inspection			Complete	May-21
	Repair damage caused by a vehicle			Complete	Apr-21

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
36	North Washington	Oklahoma	Arnold	1,779	26
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.9	Trees off ROW	45%	Q4 2020
	SAIDI	365	Trees on ROW	29%	Q1 2021
	SAIFI	1.46	Unknown	24%	Q2 2021
	CAIDI	251	All Other	2%	
	Customer Minutes	650,143			
	Customers Affected	2,592			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection			Complete	Sep-20
	Restore unknown outage during a storm			Complete	Nov-20
	On Cycle Tree Trimming			Complete	Nov-20
	Repair damage caused by a tree			Complete	Mar-21
	Repair damage caused by a tree			Complete	Jun-21
Rank	Substation	Circuit	District	Customers	Outages
37	West Waynesboro	Trinity	Waynesboro	2,226	29
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.9	Trees off ROW	47%	Q2 2021
	SAIDI	286	Vehicle	24%	
	SAIFI	2	Unknown	21%	
	CAIDI	143	All Other	8%	
	Customer Minutes	636,596			
	Customers Affected	4,441			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree during a storm			Complete	Jun-21
	Overhead circuit inspection			To be completed 2021	99%
Rank	Substation	Circuit	District	Customers	Outages
38	Salem	Greenvillage	Waynesboro	1,624	21
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.9	Equipment Failure	51%	Q2 2021
	SAIDI	386	Vehicle	48%	
	SAIFI	1.92	Animal	0.3%	
	CAIDI	201	All Other	1%	
	Customer Minutes	627,133			
	Customers Affected	3,124			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by a vehicle			Complete	Apr-21	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
39	Franklin	South Waynesburg	Jefferson	2,079	41
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.9	Trees off ROW	83%	Q4 2020
	SAIDI	300	Human Error Non-Company	8%	Q2 2021
	SAIFI	1.77	Forced Outage	3%	
	CAIDI	169	All Other	6%	
	Customer Minutes	622,986			
	Customers Affected	3,679			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree			Complete	Oct-20
	Repair damage caused by Human Error Non-Company			Complete	Apr-21
	Rank	Substation	Circuit	District	Customers
40	Lagonda	Taylorstown	Washington Pa	609	48
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.9	Trees off ROW	57%	Q4 2020
	SAIDI	1020	Equipment Failure	17%	Q1 2021
	SAIFI	2.9	Unknown	15%	Q2 2021
	CAIDI	352	All Other	11%	
	Customer Minutes	621,053			
	Customers Affected	1,765			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection			Complete	Jul-20
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Restore unknown outage			Complete	Jan-21
Repair damage caused by a tree			Complete	Jun-21	

<b>West Penn</b>					
<b>Unranked circuits appearing 2 or more quarters in the last 4 quarters</b>					
<b>Substation</b>	<b>Circuit</b>	<b>3Q 2020</b>	<b>4Q 2020</b>	<b>1Q 2021</b>	<b>2Q 2021</b>
Branchton	Forestville		X	X	
Buckeye No.3	Paisley	X		X	
California	River	X	X	X	
Charleroi	Speers	X	X	X	
Hilliards	Hilliards	X	X		
Lovedale	Township	X	X	X	
McConnellsburg	South	X		X	
Monongahela	Park Ave	X	X		
Portersville	Portersville	X		X	
Roundhill	Roundhill		X	X	
Smithton	Smithton	X	X	X	
Smithton	Yukon		X	X	
Westraver	Pittsburgh Coal	X	X		

<b>West Penn</b>				
<b>Unranked circuits with remedial actions scheduled to be or recently completed</b>				
<b>Substation</b>	<b>Circuit</b>	<b>Remedial Action Planned</b>	<b>Status of Remedial Work</b>	<b>Progress of Remedial Work</b>
Smithton	Smithton	Overhead circuit inspection	In Progress	98%
Charleroi	Speers	On cycle tree trimming	In Progress	97%
Buckeye No.3	Paisley	Overhead circuit inspection	In Progress	96%
Portersville	Portersville	Zone 1 infrared inspection	Complete	Jun-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.*

<b>Met-Ed –Third Party Line Hit Incidents</b>			
<b>2nd Quarter 2021 12-Month Rolling</b>			
<b>Cause of Line Hit</b>	<b>Number of Incidents</b>	<b>Invoice Amount (\$)</b>	<b>Recovery Amount (\$)</b>
Dig In - Other	24	\$13,113.00	\$9,098.00
Excavated in Tolerance	73	\$193,151.00	\$131,639.00
Excavation Inconsistent with Ticket Scope	39	\$48,882.00	\$45,284.00
Excavation Prior to Lawful Start Date	6	\$24,228.00	\$0.00
Expired Ticket	19	\$20,940.00	\$18,054.00
Hand Digging	7	\$64,721.00	\$63,221.00
Marked Improperly	44	\$301,245.00	\$43,352.00
No Ticket	116	\$172,908.00	\$108,480.00
<b>Total</b>	<b>328</b>	<b>\$839,188.00</b>	<b>\$419,128.00</b>

<b>Penelec – Third Party Line Hit Incidents</b>			
<b>2nd Quarter 2021 12-Month Rolling</b>			
<b>Cause of Line Hit</b>	<b>Number of Incidents</b>	<b>Invoice Amount (\$)</b>	<b>Recovery Amount (\$)</b>
Dig In - Other	25	\$395.00	\$395.00
Excavated in Tolerance	133	\$189,366.00	\$92,994.00
Excavation Inconsistent with Ticket Scope	9	\$29,154.00	\$24,433.00
Excavation Prior to Lawful Start Date	10	\$1,476.00	\$1,476.00
Expired Ticket	6	\$4,671.00	\$4,671.00
Hand Digging	9	\$15,003.00	\$15,003.00
Marked Improperly	112	\$306,133.00	\$68,260.00
No Ticket	149	\$119,209.00	\$90,023.00
<b>Total</b>	<b>453</b>	<b>\$665,407.00</b>	<b>\$297,255.00</b>

<b>Penn Power – Third Party Line Hit Incidents</b>			
<b>2nd Quarter 2021 12-Month Rolling</b>			
<b>Cause of Line Hit</b>	<b>Number of Incidents</b>	<b>Invoice Amount (\$)</b>	<b>Recovery Amount (\$)</b>
Dig In - Other	5	\$8,527.00	\$891.00
Excavated in Tolerance	50	\$32,021.00	\$6,409.00
Excavation Inconsistent with Ticket Scope	10	\$8,693.00	\$0.00
Excavation Prior to Lawful Start Date	6	\$16,704.00	\$3,114.00
Expired Ticket	14	\$13,352.00	\$13,352.00
Hand Digging	0	\$0.00	\$0.00
Marked Improperly	11	\$38,044.00	\$912.00
No Ticket	50	\$38,279.00	\$27,461.00
<b>Total</b>	<b>146</b>	<b>\$155,620.00</b>	<b>\$52,139.00</b>

<b>West Penn – Third Party Line Hit Incidents</b>			
<b>2nd Quarter 2021 12-Month Rolling</b>			
<b>Cause of Line Hit</b>	<b>Number of Incidents</b>	<b>Invoice Amount (\$)</b>	<b>Recovery Amount (\$)</b>
Dig In - Other	47	\$53,427.00	\$8,751.00
Excavated in Tolerance	40	\$66,563.00	\$14,308.00
Excavation Inconsistent with Ticket Scope	20	\$47,889.00	\$26,704.00
Excavation Prior to Lawful Start Date	7	\$10,068.00	\$0.00
Expired Ticket	17	\$42,378.00	\$27,447.00
Hand Digging	15	\$0.00	\$0.00
Marked Improperly	76	\$330,978.00	\$86,296.00
No Ticket	142	\$375,939.00	\$251,131.00
<b>Total</b>	<b>364</b>	<b>\$927,242.00</b>	<b>\$414,637.00</b>

<b>Cause of Line Hit</b>	<b>Definition</b>
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 2<sup>nd</sup> Quarter 2021 Reliability Report – :**  
**Metropolitan Edison Company, :**  
**Pennsylvania Electric Company :**  
**Pennsylvania Power Company and West :**  
**Penn Power Company – Public Version :**

**CERTIFICATE OF SERVICE**

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

Service by electronic mail, as follows:

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Dated: July 30, 2021

  
\_\_\_\_\_  
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West Penn Power Company