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February 1, 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 4<sup>th</sup> Quarter 2020 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”) is the Joint 4<sup>th</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)
- J. Van Zant – Bureau of Technical Utility Services (via email)



## Joint 2020 4<sup>th</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 4<sup>th</sup> Quarter 2020 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)*

FirstEnergy Company	Customers Affected	Time and Duration of the Event		Cause of the Event	Commission Approval Status
Penelec	90,058	Duration	106 hours, 50 minutes	High Winds and Rain	Approved January 4, 2021
		Start Date/Time	November 15, 2020 0758		
		End Date/Time	November 19, 2020 1848 <sup>2</sup>		

<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.

<sup>2</sup> Please note that the end time in the Penelec Major Event Report, which was filed on December 22, 2020 indicates that the Major Event ended on November 19, 2020 at 1848. However, the Major Event approval letter, issued on January 4, 2021, indicated an incorrect Major Event end time of November 19, 2020 at 0848 which is believed to be a typo.

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

*Reliability Index Values*

4Q 2020 (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	1.27	1.26	1.52	1.58	1.12	1.34	0.97	1.05	1.26	1.12
<b>CAIDI</b>	117	140	150	117	141	136	101	121	185	170	204	216
<b>SAIDI</b>	135	194	190	148	213	214	113	162	179	179	257	241
<b>MAIFI<sup>3</sup></b>			0.625			0.547			0.013			
<b>Customers Served<sup>4</sup></b>	569,922			579,765			165,229			720,861		
<b>Number of Sustained Interruptions</b>	11,695			13,636			3,309			12,603		
<b>Customers Affected</b>	724,138			914,716			159,907			806,924		
<b>Customer Minutes</b>	108,430,636			124,129,511			29,576,002			173,878,127		
<b>Number of Customer Momentary Interruptions</b>	356,165			316,918			2,188					

<sup>3</sup> MAIFI values are not available for West Penn.

<sup>4</sup> Represents the average number of customers served during the reporting period.

### **Unique Events Occurring in 4Q 2020:**

#### Met-Ed

- Beginning Sunday, November 1, 2020, and continuing into Monday, November 2, 2020, a cold front moved across Pennsylvania, including the Met-Ed service territory. The front caused wind gusts up to 49 miles per hour on Sunday and gusts up to 53 miles per hour on Monday. The reliability impact of the storm was 13.1 minutes of System Average Interruption Duration Index (“SAIDI”), 0.05 of System Average Interruption Frequency Index (“SAIFI”), and an overall storm Customer Average Interruption Duration Index (“CAIDI”) of 274.8 minutes.
- Beginning Sunday afternoon November 15, 2020, and continuing into the early morning hours Monday, a storm line moved across Pennsylvania, including the Met-Ed service territory. This storm produced heavy rain and damaging high winds with wind gusts up to 62 miles per hour. The reliability impact of the storm was 21.1 minutes of SAIDI, 0.06 of SAIFI, and an overall storm CAIDI of 354.1 minutes.
- Beginning Thursday afternoon December 24, 2020, and continuing into the early morning hours of Friday, a storm front moved across Pennsylvania, including the Met-Ed service territory. This storm produced freezing rain and winds with wind gusts up to 53 miles per hour. The reliability impact of the storm was 5.7 minutes of SAIDI, 0.01 of SAIFI, and an overall storm CAIDI of 468.5 minutes.

#### Penelec

- Beginning Sunday morning, November 1, 2020, a cold front moved throughout Pennsylvania, including Penelec’s service territory. This front caused sustained winds and rain accumulation with wind gusts of up to 47 miles per hour. The sustained wind gusts continued into Monday containing wind gusts as high as 37 miles per hour. The reliability impact of the storm was 9.5 minutes of SAIDI, 0.05 of SAIFI, and an overall storm CAIDI of 188.9 minutes.
- Beginning Sunday, November 15, 2020 and continuing into Monday, November 16, 2020, a cold front moved through Pennsylvania, including the Penelec service territory. This front produced rain and wind gusts up to 63 miles per hour. The wind continued into Monday with wind gusts as high as 52 miles per hour. The reliability impact of the storm was 76.5 minutes of SAIDI, 0.16 of SAIFI, and an overall storm CAIDI of 492.26 minutes.

## Penn Power

- Beginning Sunday, November 15, 2020, and continuing into Monday, November 16, 2020, a cold front moved through Pennsylvania, including the Penn Power service territory. This front produced nearly one inch of rain and winds with maximum wind gusts upwards of 60 miles per hour in some areas. The reliability impact of the storm was 33.7 minutes of SAIDI, 0.06 of SAIFI, and an overall storm CAIDI of 524.5 minutes.

## West Penn

- Beginning the morning of Sunday, November 1, 2020, a cold front moved through Pennsylvania, including the West Penn service territory. This front caused sustained winds of 36 miles per hour and wind gusts of up to 47 miles per hour. This front also caused sustained winds of 24 miles per hour and gusts as high as 37 miles per hour on Monday, November 2, 2020. The reliability impact of the storm was 3.8 minutes of SAIDI, 0.02 of SAIFI, and an overall storm CAIDI of 175.34 minutes.
- Beginning Sunday, November 15, 2020 and continuing into Monday, November 16, 2020, a cold front moved through Pennsylvania, including the West Penn service territory. This front produced rain and wind gusts up to 62 miles per hour. The reliability impact of the storm was 37.9 minutes of SAIDI, 0.08 of SAIFI, and an overall storm CAIDI of 452.45 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				
4th Quarter 2020 12-Month Rolling	Met-Ed			
Cause	Customer Minutes	Number of Sustained Interruptions	Customers Affected	% Based on Customer Minutes
Trees off ROW - tree	48,549,233	2,649	191,603	44.77%
Equipment failure	22,581,868	2,531	210,543	20.83%
Unknown	6,576,461	1,296	52,395	6.07%
Vehicle	5,498,890	288	37,423	5.07%
Line failure	4,929,387	638	30,105	4.55%
Trees off ROW - limb	4,263,830	456	32,417	3.93%
Animal	3,385,034	1,641	34,635	3.12%
Forced outage	3,096,904	405	68,151	2.86%
Human error - company	1,743,545	44	14,051	1.61%
Lightning	1,502,403	199	16,883	1.39%
Wind	1,425,945	102	5,210	1.32%
Object contact with line	1,373,360	54	7,050	1.27%
Bird	885,374	486	6,234	0.82%
Trees on ROW	781,139	129	4,062	0.72%
Trees - sec/service	698,141	489	1,667	0.64%
Overload	533,825	82	4,522	0.49%
Human error - non-company	355,871	79	2,907	0.33%
Ice	77,199	5	90	0.07%
Other utility - non-electric	51,106	6	517	0.05%
Customer equipment	28,594	42	1,839	0.03%
Fire	28,176	10	668	0.03%
UG dig-up	25,876	26	106	0.02%
Other electric utility	12,435	5	745	0.01%
Previous lightning	11,158	25	41	0.01%
Vandalism	10,346	6	65	0.01%
Contamination	2,790	1	15	0.00%
Switching error	1,746	1	194	0.00%
<b>Total</b>	<b>108,430,636</b>	<b>11,695</b>	<b>724,138</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 December 31, 2020, 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 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.

Outages by Cause – Penelec

<b>Outage by Cause</b>				
<b>4th Quarter 2020 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	52,288,425	1,851	218,025	42.12%
Equipment failure	22,297,624	2,542	207,549	17.96%
Line failure	12,647,351	1,576	116,363	10.19%
Unknown	6,770,019	1,828	94,806	5.45%
Forced outage	6,236,141	1,067	57,218	5.02%
Lightning	5,955,919	472	45,378	4.80%
Vehicle	4,301,987	276	31,973	3.47%
Animal	3,544,285	1,732	40,869	2.86%
Trees off ROW - limb	2,897,316	349	26,135	2.33%
Ice	1,160,046	81	3,989	0.93%
Human error - company	1,091,074	64	30,775	0.88%
Trees - sec/service	906,947	745	2,277	0.73%
Bird	859,558	452	11,195	0.69%
Human error - non-company	696,685	91	5,000	0.56%
Wind	618,531	73	2,038	0.50%
Other electric utility	595,449	111	2,865	0.48%
Object contact with line	364,945	42	3,563	0.29%
Overload	253,046	45	4,854	0.20%
Trees on ROW	242,135	78	1,953	0.20%
Vandalism	100,732	11	687	0.08%
Fire	73,903	18	646	0.06%
Other utility - non-electric	72,742	6	437	0.06%
UG dig-up	49,945	50	413	0.04%
Customer equipment	44,837	25	4,208	0.04%
Contamination	35,864	31	141	0.03%
Switching Error	17,859	4	1,325	0.01%
Previous lightning	5,988	15	33	0.00%
Call error	158	1	1	0.00%
<b>Total</b>	<b>124,129,511</b>	<b>13,636</b>	<b>914,716</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 December 31, 2020 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>4th Quarter 2020 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	18,160,342	955	64,830	61.40%
Equipment failure	2,504,223	344	21,390	8.47%
Lightning	1,960,314	188	12,013	6.63%
Line failure	1,848,398	295	12,110	6.25%
Vehicle	1,783,784	108	15,507	6.03%
Trees off ROW - limb	1,184,689	177	8,543	4.01%
Animal	716,852	439	8,519	2.42%
Unknown	430,209	112	5,011	1.45%
Bird	312,081	360	3,526	1.06%
Trees - sec/service	239,505	196	518	0.81%
Forced outage	186,090	56	3,018	0.63%
Human error - non-company	83,423	20	768	0.28%
Human error - company	73,449	11	3,179	0.25%
Overload	53,779	12	694	0.18%
Ice	15,525	3	23	0.05%
Object contact with line	10,083	5	114	0.03%
UG dig-up	6,283	10	73	0.02%
Trees on ROW	3,501	4	27	0.01%
Fire	1,395	2	13	0.00%
Customer equipment	1,101	7	9	0.00%
Previous lightning	720	4	14	0.00%
Contamination	256	1	8	0.00%
<b>Total</b>	<b>29,576,002</b>	<b>3,309</b>	<b>159,907</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 December 31, 2020 and the associated actions designed to address these outage causes.

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

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

Outages by Cause – West Penn

<b>Outage by Cause</b>				
<b>4th Quarter 2020 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	98,131,899	3,377	292,690	56.44%
Equipment failure	16,761,688	1,993	113,674	9.64%
Unknown	13,485,815	1,668	95,580	7.76%
Line failure	11,845,950	1,294	69,706	6.81%
Vehicle	7,460,060	295	57,578	4.29%
Trees on ROW	6,819,284	464	23,900	3.92%
Forced outage	4,934,014	513	57,945	2.84%
Wind	4,454,155	195	16,072	2.56%
Trees off ROW - limb	3,020,726	193	21,738	1.74%
Animal	2,244,348	1,424	25,196	1.29%
Lightning	1,073,444	130	10,380	0.62%
Human error - non-company	749,389	65	7,158	0.43%
Object contact with line	685,260	40	2,507	0.39%
Human error - company	529,883	36	3,772	0.30%
Trees - sec/service	499,388	440	757	0.29%
Other electric utility	381,977	9	1,140	0.22%
Bird	256,169	383	3,657	0.15%
Vandalism	192,375	4	485	0.11%
Fire	129,083	5	655	0.07%
UG dig-up	73,974	38	1,524	0.04%
Overload	43,072	5	462	0.02%
Ice	38,930	7	84	0.02%
Customer equipment	31,174	16	147	0.02%
Other utility - non-electric	25,713	6	92	0.01%
Previous Lightning	10,357	3	25	0.01%
<b>Total</b>	<b>173,878,127</b>	<b>12,603</b>	<b>806,924</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 December 31, 2020, and the associated actions designed to address these outage causes.

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

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

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

Information is not required for the 4<sup>th</sup> Quarter report.

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

Information is not required for the 4<sup>th</sup> Quarter report.

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

Information is not required for the 4<sup>th</sup> Quarter report.

*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>5</sup>*

*Staffing Levels*

Met-Ed 2020												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2021
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other <sup>6</sup>	Retirement	Voluntary Separation	Other <sup>7</sup>	
Distribution	Line Leader	53	52	47	48			1				
	Line Troubleshooter	33	33	34	34							
	Lineman	125	125	144	146	3		22			23	25
Substation	Substation Leader	15	15	15	15							
	Substation Employee	69	68	69	69			13			13	9
Transmission	Line Leader	2	2	2	2							
	Lineman	9	8	8	7						1	
<b>Total</b>		<b>306</b>	<b>303</b>	<b>319</b>	<b>321</b>	<b>3</b>	<b>0</b>	<b>36</b>	<b>0</b>	<b>0</b>	<b>37</b>	<b>34</b>

<sup>5</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. For each staff member added, provide information on whether they were a new hire, if they are already at the journeyman, or other experienced level of training. For each staff member lost, provide the reason for the loss (retirement, voluntary separation, etc.). The number of staff in each category that the Company is planning to hire in the next calendar year.

<sup>6</sup> Includes transfers and promotions.

<sup>7</sup> Includes transfers, voluntary separations, and promotions.

Penelec 2020												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2021
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other <sup>8</sup>	Retirement	Voluntary Separation	Other <sup>9</sup>	
Distribution	Line Leader	67	66	63	62			1			2	
	Line Troubleshooter	63	62	63	69			7			1	
	Lineman	142	140	159	149			1		1	10	22
Substation	Substation Leader	35	32	32	31			2			3	
	Substation Employee	39	39	46	46							6
Transmission	Line Leader	5	5	5	4					1		
	Lineman	19	19	19	19							
<b>Total</b>		<b>370</b>	<b>363</b>	<b>387</b>	<b>380</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>2</b>	<b>16</b>	<b>28</b>

<sup>8</sup> Includes transfers and promotions.

<sup>9</sup> Includes transfers, involuntary separations, and promotions.

Penn Power 2020												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2021
Department	Position	1Q	2Q	3Q	4Q	New Hire – Experienced	New Hire – PSI Student	Other <sup>10</sup>	Retirement	Voluntary Separation	Other <sup>11</sup>	
Distribution	Line Leader	22	21	25	25							
	Line Troubleshooter	9	8	9	9							
	Lineman	47	46	42	44		2					3
Substation	Substation Leader	5	5	5	5							
	Substation Employee	21	20	20	20							
Transmission	Line Leader	1	1	1	1							
	Lineman	5	5	4	2			1			3	
<b>Total</b>		<b>110</b>	<b>106</b>	<b>106</b>	<b>106</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>

<sup>10</sup> Includes transfers, promotions, and promotions within a position.

<sup>11</sup> Includes transfers, involuntary separations, promotions and promotions within a position.

West Penn 2020												
		Staffing Level				Staff Added in Quarter			Staff Lost in Quarter			Plan to Hire in 2021
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	62	65	65	64			8			9	
	Line Troubleshooter	60	57	57	60			8	1		4	
	Lineman	123	121	142	135			1			8	22
Substation	Substation Leader	21	22	22	22							
	Substation Employee	72	71	75	74			8			9	8
Transmission	Line Leader	1	1	2	2							
	Lineman	4	4	6	6							
<b>Total</b>		<b>343</b>	<b>341</b>	<b>369</b>	<b>363</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>1</b>	<b>0</b>	<b>30</b>	<b>30</b>

<sup>12</sup> Includes transfers, promotions, and promotions within a position.

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

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

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

*Contractor Expenditures*

Contractor expenses are billed on a lump sum basis and as such, hourly information is not available.

This portion of the report is confidential.

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

*Call-out Acceptance Rate*

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

This portion of the report is confidential.

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

*Call-out Response*

This portion of the report is confidential.

**Call-Out Procedure:**

When an event occurs, Met-Ed, Penelec, Penn Power, and West Penn dispatch a troubleman to find and assess the cause of the outage. If the troubleman is unable to repair the damage and a crew is required, the troubleman will inform the Distribution Control Center (“DCC”). The DCC and/or the Customer Operations Center’s person on duty will then initiate the call-out process until desired staffing levels required to complete the restoration have been achieved.

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

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

ATTACHMENT A

Worst Performing Circuits - Reliability Indices

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	No Bangor	00826-3	Easton	3,229	104	2	1,843,469	8,154	3.23	570.91	2.53	226.08	1.043
2	Dillsburg	00748-4	Dillsburg	1,796	69	1	1,764,432	3,524	3.10	982.42	1.96	500.69	0.690
3	Mountain	00744-4	Dillsburg	1,845	57	0	1,616,876	5,113	2.84	876.36	2.77	316.23	0.000
4	Bernville	00787-1	Hamburg	1,690	77	0	1,494,370	3,107	2.62	884.24	1.84	480.97	0.000
5	Barto	00706-1	Boyertown	2,926	137	1	1,390,941	10,029	2.44	475.37	3.43	138.69	0.000
6	Carsonia	00764-1	Reading	2,876	63	1	1,295,833	8,437	2.27	450.57	2.93	153.59	1.056
7	W Boyertown	00715-1	Boyertown	1,691	64	3	1,258,604	10,119	2.21	744.30	5.98	124.38	0.999
8	Shawnee	00822-3	Stroudsburg	3,527	51	5	1,187,978	5,840	2.08	336.82	1.66	203.42	1.802
9	Schuylkill Ave	00157-1	Reading	1,664	9	3	1,183,548	5,085	2.08	711.27	3.06	232.75	0.000
10	Lynnville	00737-1	Hamburg	1,073	101	3	1,179,467	2,872	2.07	1,099.22	2.68	410.68	2.484
11	Shawnee	00833-3	Stroudsburg	1,437	28	1	1,024,266	5,502	1.80	712.78	3.83	186.16	1.715
12	S Hamb	00801-1	Hamburg	2,096	61	2	1,009,575	6,353	1.77	481.67	3.03	158.91	0.000
13	Glendon	00818-3	Easton	1,638	22	1	985,409	4,298	1.73	601.59	2.62	229.27	0.037
14	Lyons	00729-1	Reading	1,293	86	0	949,418	3,414	1.67	734.28	2.64	278.10	0.000
15	Flying Hills	00777-1	Reading	1,786	88	0	936,135	3,056	1.64	524.15	1.71	306.33	0.001
16	Baldy	00738-1	Reading	863	38	1	881,708	3,519	1.55	1,021.68	4.08	250.56	0.000
17	Shawnee	00899-3	Stroudsburg	1,754	56	0	880,819	2,551	1.55	502.18	1.45	345.28	1.141
18	Mc Knights Gap	00774-1	Reading	1,387	44	0	853,525	4,145	1.50	615.37	2.99	205.92	0.000
19	Swatara Hill	00765-2	Lebanon	611	39	1	788,888	2,042	1.38	1,291.14	3.34	386.33	1.957
20	Zionsview	00717-4	York	1,429	55	2	763,175	5,650	1.34	534.06	3.95	135.08	0.000
21	Huffs Church	00600-1	Boyertown	1,508	103	0	761,856	2,295	1.34	505.21	1.52	331.96	0.000
22	Adamstown	00755-1	Reading	1,352	33	0	750,938	3,215	1.32	555.43	2.38	233.57	1.998
23	Lickdale	00625-2	Lebanon	1,009	80	0	716,299	2,472	1.26	709.91	2.45	289.76	1.999
24	Yorkana	00715-4	York	1,803	66	1	707,200	4,348	1.24	392.24	2.41	162.65	0.000
25	Baldy	00736-1	Reading	1,019	57	1	686,700	2,355	1.20	673.90	2.31	291.59	0.000
26	North Hanover	00505-4	Hanover	1,314	25	1	680,663	1,982	1.19	518.01	1.51	343.42	0.000
27	S Hamb	00741-1	Hamburg	1,603	66	2	594,981	3,711	1.04	371.17	2.32	160.33	0.000
28	Lickdale	00626-2	Lebanon	1,478	38	1	584,267	2,623	1.03	395.31	1.77	222.75	3.108

Met-Ed													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
29	Crossroads	00728-4	York	1,186	49	0	579,148	1,828	1.02	488.32	1.54	316.82	0.000
30	Menges Mills	00543-4	Hanover	1,585	34	1	571,138	2,804	1.00	360.34	1.77	203.69	0.028
31	Mohnton	00144-1	Reading	973	15	1	557,080	1,632	0.98	572.54	1.68	341.35	0.000
32	Fox Hill	00852-3	Stroudsburg	794	31	0	555,490	1,958	0.97	699.61	2.47	283.70	0.000
33	South Easton	00057-3	Easton	626	5	1	550,920	1,201	0.97	880.06	1.92	458.72	0.000
34	State Street	00620-1	Hamburg	888	13	3	530,647	3,064	0.93	597.58	3.45	173.19	0.000
35	Dillsburg	00746-4	Dillsburg	2,575	41	0	527,003	4,257	0.92	204.66	1.65	123.80	2.001
36	Pleasantville	00142-1	Boyertown	815	50	0	526,736	1,623	0.92	646.30	1.99	324.54	0.000
37	Shawnee	00815-3	Stroudsburg	1,288	24	1	524,110	5,625	0.92	406.92	4.37	93.18	0.000
38	Windsor	00795-4	York	1,028	70	0	522,757	2,783	0.92	508.52	2.71	187.84	0.000
39	Yorkana	00716-4	York	1,348	27	2	512,143	5,317	0.90	379.93	3.94	96.32	0.000

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
1	Warren South	00220-41	Warren	2,493	98	0	2,506,043	4,750	1,005.23	1.91	527.59	0.59	1,468.000
2	Bradford South	00106-42	Bradford	1,184	41	0	2,234,656	2,706	1,887.38	2.29	825.82	0.00	0.000
3	Two Mile	00127-42	Bradford	1,280	41	0	2,215,534	3,551	1,730.89	2.77	623.92	0.00	0.000
4	Tiffany	00435-65	Montrose	1,420	51	3	1,765,219	5,237	1,243.11	3.69	337.07	1.57	2,225.000
5	North Warren	00596-41	Warren	1,126	70	3	1,731,094	5,391	1,537.38	4.79	321.11	2.45	2,761.000
6	Dubois	00137-23	Dubois	3,149	108	0	1,728,930	11,395	549.04	3.62	151.73	1.02	3,212.000
7	North Warren	00207-41	Warren	1,362	93	4	1,570,982	8,198	1,153.44	6.02	191.63	3.20	4,355.000
8	Lewis Run	00408-42	Bradford	1,175	45	0	1,522,700	3,241	1,295.91	2.76	469.82	0.00	0.000
9	Meyersdale North	00022-12	Somerset	1,547	45	1	1,375,980	4,043	889.45	2.61	340.34	0.00	0.000
10	Marienville	00328-51	Oil City	1,200	66	0	1,058,916	4,571	882.43	3.81	231.66	1.36	1,633.000
11	Natl Forge SW	00577-41	Warren	1,219	54	1	999,048	11,301	819.56	9.27	88.40	4.88	5,948.000
12	Mill Street	00144-42	Bradford	962	16	1	998,975	1,612	1,038.44	1.68	619.71	2.99	2,877.000
13	Piney	00523-51	Oil City	1,503	61	1	989,672	5,809	658.46	3.86	170.37	1.55	2,326.000
14	Philipsburg	00162-22	Philipsburg	2,706	56	1	984,079	7,124	363.67	2.63	138.14	0.62	1,669.000
15	French Road	00222-31	Erie	1,715	24	1	965,734	4,130	563.11	2.41	233.83	0.33	574.000
16	East Hickory	00201-41	Warren	321	24	2	935,590	940	2,914.61	2.93	995.31	3.11	997.000
17	Springboro	00237-52	Meadville	2,534	78	0	905,560	7,784	357.36	3.07	116.34	2.97	7,516.000
18	Somerset	00017-12	Somerset	1,369	45	1	834,528	2,186	609.59	1.60	381.76	0.33	458.000
19	Hooversville	00019-12	Somerset	1,805	48	0	760,750	5,826	421.47	3.23	130.58	0.96	1,734.000
20	Greenwood	00041-71	Altoona	1,230	25	2	753,234	2,650	612.39	2.15	284.24	1.00	1,230.000
21	Mcveytown	00112-81	Lewistown	1,298	53	0	728,477	2,874	561.23	2.21	253.47	0.00	0.000
22	Grover	00527-63	Towanda	1,054	73	0	700,965	2,298	665.05	2.18	305.03	0.00	4.000
23	Union City	00208-43	Erie	1,456	91	1	691,490	4,841	474.92	3.32	142.84	1.01	1,476.000
24	Morgan Street	00233-52	Meadville	839	32	1	671,864	1,425	800.79	1.70	471.48	0.46	384.000
25	Hooversville	00018-12	Somerset	748	38	0	669,294	1,762	894.78	2.36	379.85	1.40	1,044.000
26	N Meshoppen Tran	00534-65	Montrose	825	50	0	664,824	2,020	805.85	2.45	329.12	0.00	2.000
27	Lowell Avenue	00518-31	Erie	960	27	0	662,494	1,428	690.10	1.49	463.93	0.38	362.000
28	Carlisle Pike	00643-83	Shippensburg	3,209	36	1	656,437	5,646	204.56	1.76	116.27	0.00	0.000

Penelec													
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI	MAIFI
29	Brookville	00125-23	Dubois	563	27	0	628,076	3,924	1,115.59	6.97	160.06	4.34	2,446.000
30	Dubois Central	00119-23	Dubois	1,235	48	0	623,371	3,286	504.75	2.66	189.71	0.73	902.000
31	Logan	00700-81	Lewistown	1,047	38	0	621,174	5,561	593.29	5.31	111.70	0.97	1,012.000
32	Lewis Run	00409-42	Bradford	643	32	2	611,628	3,670	951.21	5.71	166.66	0.69	446.000
33	Blairsville East	00082-13	Indiana	1,564	34	0	610,905	2,333	390.60	1.49	261.85	0.07	114.000
34	Blairsville East	00080-13	Indiana	897	24	0	600,003	2,695	668.90	3.00	222.64	0.00	0.000
35	Tunkhannock	00533-65	Montrose	1,237	35	0	583,488	2,137	471.70	1.73	273.04	0.00	1.000
36	Northeast	00592-31	Erie	1,600	60	5	581,738	4,903	363.59	3.06	118.65	1.04	1,665.000
37	Union City	00206-43	Erie	2,856	109	0	536,956	5,939	188.01	2.08	90.41	0.84	2,402.000
38	Russell Hill	00282-65	Montrose	1,002	75	1	512,837	2,419	511.81	2.41	212.00	0.00	0.000
39	Clearfield	00148-21	Clearfield	1,846	57	2	461,393	4,870	249.94	2.64	94.74	0.70	1,289.000
40	Birmingham	00168-22	Philipsburg	1,080	55	0	455,366	1,599	421.64	1.48	284.78	0.00	0.000
41	Knox	00323-51	Oil City	1,305	48	1	446,331	3,307	342.02	2.53	134.97	0.00	0.000
42	Laurel Lake	00449-65	Montrose	516	35	6	444,085	2,647	860.63	5.13	167.77	2.55	1,317.000
43	Mansfield	00559-63	Mansfield Pa	493	29	1	427,198	1,570	866.53	3.18	272.10	1.12	554.000
44	Corry East	00247-43	Warren	311	22	0	400,517	526	1,287.84	1.69	761.44	0.65	201.000
45	Rockwood	00023-12	Somerset	230	11	2	398,182	646	1,731.23	2.81	616.38	0.90	208.000
46	Madera	00165-22	Philipsburg	1,408	44	1	393,195	2,210	279.26	1.57	177.92	0.10	142.000
47	Brookville West	00121-23	Dubois	768	31	0	379,296	1,278	493.88	1.66	296.79	0.60	461.000
48	Waverly	00164-66	Towanda	961	24	1	378,077	2,139	393.42	2.23	176.75	0.17	165.000
49	East Sayre	00518-61	Towanda	946	36	0	369,995	2,668	391.12	2.82	138.68	0.60	564.000
50	Stoystown	00402-12	Somerset	318	11	0	368,750	963	1,159.59	3.03	382.92	1.00	319.000
51	Crown	00519-51	Oil City	643	51	1	359,818	1,282	559.59	1.99	280.67	0.43	275.000
52	Warren 5Th Avenue	00250-41	Warren	973	29	1	359,414	1,728	369.39	1.78	207.99	3.92	3,810.000
53	Church	00427-34	Erie	727	40	3	356,184	3,030	489.94	4.17	117.55	0.00	0.000
54	Lake Como	00788-65	Montrose	634	20	2	353,073	1,667	556.90	2.63	211.80	0.06	40.000
55	Falls Creek	00710-23	Dubois	625	20	0	344,995	1,743	551.99	2.79	197.93	0.00	0.000
56	Wellsboro	00324-63	Mansfield Pa	255	21	3	342,397	1,139	1,342.73	4.47	300.61	2.91	742.000

<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	Somerset	00031-12	Somerset	2,093	23	1	340,865	3,183	162.86	1.52	107.09	0.00	0.000
58	Meshoppen	00283-65	Montrose	383	12	0	338,472	1,118	883.74	2.92	302.75	1.00	384.000
59	Hilltop	00040-11	Johnstown	1,341	24	5	331,840	6,944	247.46	5.18	47.79	0.22	297.000
60	Marienville	00327-51	Oil City	745	38	0	322,729	1,201	433.19	1.61	268.72	0.00	0.000
61	Punxsutawney	00118-23	Dubois	1,138	27	0	320,615	2,824	281.74	2.48	113.53	0.73	829.000
62	Farmers Valley	00125-42	Bradford	343	13	1	319,895	546	932.64	1.59	585.89	0.12	41.000

Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
1	Koppel	D-531	New Castle	1,613	34	0	773,169	1,613	4.68	799.55	1.668	479.3
2	Grant Street	W421	New Castle	2,366	10	1	725,226	2,366	4.39	769.88	2.512	306.5
3	BMF	W760	Zelienople	6,431	14	3	702,919	6,431	4.25	295.10	2.700	109.3
4	Perry	W-156	Clark	3,101	60	0	629,205	3,101	3.81	575.67	2.837	202.9
5	Seneca	W700	Zelienople	3,628	64	1	555,651	3,628	3.36	531.72	3.472	153.2
6	Darlington	D-536	Zelienople	1,451	40	0	506,587	1,451	3.07	492.31	1.410	349.1
7	Mercer	W-167	Clark	1,447	32	0	499,413	1,447	3.02	587.54	1.702	345.1
8	Camp Reynolds	W-134	Clark	2,484	67	0	486,754	2,484	2.95	279.74	1.428	196.0
9	Knox	D509	Zelienople	1,573	23	0	480,270	1,573	2.91	491.07	1.608	305.3

West Penn Power												
Circuit Rank	Substation	Circuit	District	Average Customers	Outages	Lockouts	Customer Minutes	Customers Affected	SAIDI Impact	SAIDI	SAIFI	CAIDI
1	Driftwood	Driftwood	St Marys	986	42	0	1,973,225	3,420	2.7	2,001	3.47	577
2	Vandergrift	Grifflo Park	Arnold	2,722	62	0	1,673,678	4,611	2.3	615	1.69	363
3	Smithton	Fitzhenry	Charleroi	1,163	21	1	1,585,036	2,408	2.2	1,363	2.07	658
4	Sardis	Mamont	Arnold	1,069	6	1	1,469,756	1,818	2.0	1,375	1.70	808
5	Lovedale	Township	Charleroi	1,633	46	0	1,413,035	5,038	2.0	865	3.09	280
6	Murrycrest	Sardis Road	Jeannette	1,486	37	6	1,356,063	11,330	1.9	913	7.62	120
7	Rutan	Bristoria	Jefferson	1,141	102	0	1,329,614	2,795	1.8	1,165	2.45	476
8	Marvindale	Clermont	St Marys	852	16	0	1,322,557	3,001	1.8	1,552	3.52	441
9	Weedville	Weedville	St Marys	1,382	51	0	1,312,645	4,023	1.8	950	2.91	326
10	Frazier	Star Junction	Pleasant Valley	1,708	35	2	1,241,100	4,547	1.7	727	2.66	273
11	Avella	W Middletown	Washington Pa	1,153	45	0	1,202,887	3,595	1.7	1,043	3.12	335
12	Charleroi	Speers	Charleroi	1,426	48	3	1,197,568	5,493	1.7	840	3.85	218
13	Dutch Fork	Claysville	Washington Pa	1,611	64	0	1,185,302	2,501	1.6	736	1.55	474
14	Smithton	Smithton	Charleroi	991	27	0	1,161,429	2,791	1.6	1,172	2.82	416
15	Fayetteville	Keystone	Waynesboro	1,514	40	1	1,022,441	2,984	1.4	675	1.97	343
16	Bethlen	Darlington	Latrobe	1,245	64	0	991,493	2,666	1.4	796	2.14	372
17	Piney Fork	Gillhall	Charleroi	2,195	17	1	980,668	5,791	1.4	447	2.64	169
18	California	River	Charleroi	1,757	30	1	966,862	3,975	1.3	550	2.26	243
19	Hilliards	Hilliards	Butler	891	34	1	903,888	2,711	1.3	1,014	3.04	333
20	Belmon	Fayette City	Charleroi	1,381	16	1	858,785	2,496	1.2	622	1.81	344
21	Smithton	Yukon	Charleroi	1,297	24	0	827,490	2,185	1.1	638	1.68	379
22	Enlow	Summit	Boyce	1,806	11	0	815,485	5,836	1.1	452	3.23	140
23	Robbins	Rillton	Jeannette	1,532	30	0	781,411	3,258	1.1	510	2.13	240
24	Westraver	Pittsburgh Coal	Charleroi	1,912	30	1	777,827	4,459	1.1	407	2.33	174
25	Mushroom	Mushroom	Kittanning	317	10	1	773,761	759	1.1	2,441	2.39	1,019
26	Amity	Amity	Washington Pa	528	33	1	762,166	2,888	1.1	1,443	5.47	264
27	Amity	Banetown	Washington Pa	1,477	54	0	753,265	2,298	1.0	510	1.56	328
28	Kane	Russell City	St Marys	704	23	0	733,572	1,468	1.0	1,042	2.09	500
29	Franklin	Rogersville	Jefferson	833	67	2	731,237	3,059	1.0	878	3.67	239
30	North Washington	Oklahoma	Arnold	1,774	22	1	710,142	2,679	1.0	400	1.51	265

<b>West Penn Power</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>
31	Franklin	South Waynesburg	Jefferson	2,078	37	2	700,052	3,323	1.0	337	1.60	211
32	Luzerne	Hiller	Uniontown	1,023	15	1	679,337	4,131	0.9	664	4.04	164
33	Karns City	Kaylor	Butler	1,157	39	1	663,513	2,766	0.9	573	2.39	240
34	Lagonda	Taylorstown	Washington Pa	610	44	0	655,036	2,390	0.9	1,074	3.92	274
35	Waterville	Waterville	State College	355	17	2	652,729	2,518	0.9	1,839	7.09	259
36	Monongahela	Park Ave	Charleroi	1,046	21	1	647,070	2,841	0.9	619	2.72	228
37	Roundhill	Roundhill	Charleroi	970	35	1	633,842	1,770	0.9	653	1.82	358
38	Smith	Burgettstown	Washington Pa	1,893	34	1	631,541	3,764	0.9	334	1.99	168
39	Thomas	Thomas	Boyce	1,341	32	0	623,499	3,134	0.9	465	2.34	199
40	Branchton	Forestville	Butler	1,148	37	0	618,229	1,970	0.9	539	1.72	314

ATTACHMENT B

Worst Performing Circuits – Remedial Actions

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

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
1	No Bangor	00826-3	Easton	3,229	104
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	3.23	Trees Off ROW-Tree	71%	1Q 2020
	SAIDI	570.91	Equipment Failure	12%	2Q 2020
	SAIFI	2.53	Trees Off ROW-Limb	7%	3Q 2020
	CAIDI	226	All Other	10%	4Q 2020
	Customer Minutes	1,843,469			
	Customers Affected	8,154			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Install Supervisory Control and Data Acquisition (SCADA) on recloser			Complete	Jan-20
	Mid-cycle ash tree removal			Complete	May-20
	Mainline forestry aerial patrol			Complete	Jul-20
	Mid-cycle tree trimming from aerial patrol			Complete	Sep-20
	Install TripSaver Recloser			Complete	Dec-20
	Construct circuit tie Phase 1			To be completed 2021	50%
	Construct circuit tie Phase 2			To be completed 2021	50%
	Construct circuit tie Phase 3			To be completed 2021	50%
Rank	Substation	Circuit	District	Customers	Outages
2	Dillsburg	00748-4	Dillsburg	1,796	69
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	3.10	Trees Off ROW-Tree	89%	3Q 2020
	SAIDI	982.42	Vehicle	5%	4Q 2020
	SAIFI	1.96	Equipment Failure	4%	
	CAIDI	501	All Other	1%	
	Customer Minutes	1,764,432			
	Customers Affected	3,524			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Enhanced tree trimming			Complete	Dec-19

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
3	Mountain	00744-4	Dillsburg	1,845	57
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.84	Trees Off ROW-Tree	57%	1Q 2020
	SAIDI	876.36	Equipment Failure	38%	2Q 2020
	SAIFI	2.77	Vehicle	2%	3Q 2020
	CAIDI	316	All Other	4%	4Q 2020
	Customer Minutes	1,616,876			
	Customers Affected	5,113			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Enhanced tree trimming			Complete	Dec-19
	Overhead circuit inspection			Complete	Jul-20
	Rank	Substation	Circuit	District	Customers
4	Bernville	00787-1	Hamburg	1,690	77
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.62	Trees Off ROW-Tree	74%	2Q 2020
	SAIDI	884.24	Equipment Failure	10%	3Q 2020
	SAIFI	1.84	Line Failure	8%	4Q 2020
	CAIDI	481	All Other	8%	
	Customer Minutes	1,494,370			
	Customers Affected	3,107			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Targeted Mainline Circuit Rehabilitation #2			Complete	Jan- 20
	Targeted Mainline Circuit Rehabilitation #3			Complete	Feb- 20
	Replace UG cable in Heidelberg URD			Complete	Jan- 20
	Overhead circuit inspection			Complete	June- 20
	Replace Recloser			Complete	July- 20
	Install TripSaver Recloser #1			Complete	Dec-20
Install TripSaver Recloser #2			Complete	Dec-20	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
5	Barto	00706-1	Boyertown	2,926	137
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.44	Trees Off ROW-Tree	46%	1Q 2020
	SAIDI	475.37	Unknown	17%	2Q 2020
	SAIFI	3.43	Vehicle	15%	3Q 2020
	CAIDI	139	All Other	22%	4Q 2020
	Customer Minutes	1,390,941			
	Customers Affected	10,029			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Install Supervisory Control and Data Acquisition (SCADA) switch #1			Complete	Jan-20
	Install Supervisory Control and Data Acquisition (SCADA) switch #2			Complete	Jan-20
	Install Supervisory Control and Data Acquisition (SCADA) switch #4			Complete	Jan-20
	Install Supervisory Control and Data Acquisition (SCADA) switch #5			Complete	Jan-20
	Install Supervisory Control and Data Acquisition (SCADA) recloser #1			Complete	Feb-20
	Mainline pole replacement from inspection #1			Complete	Jun-20
	Mainline pole replacement from inspection #2			Complete	Jul-20
	On cycle tree trimming			Complete	Nov-20
Overhead circuit inspection			Complete	Sep-20	
Replace/repair high priority items identified during overhead circuit inspection			To be completed 2021	25%	
Rank	Substation	Circuit	District	Customers	Outages
6	Carsonia	00764-1	Reading	2,876	63
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.27	Trees Off ROW-Tree	76%	1Q 2020
	SAIDI	450.57	Equipment Failure	12%	4Q 2020
	SAIFI	2.93	Forced Outage	6%	
	CAIDI	154	All Other	6%	
	Customer Minutes	1,295,833			
	Customers Affected	8,437			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Targeted forestry inspection			Complete	Mar-20
	Targeted overhead circuit inspection			Complete	Mar-20
	Targeted forestry inspection			Complete	Apr-20
	Create additional circuit tie			Complete	Nov-20
	Targeted forestry inspection			To be completed 2021	0%

Met-Ed						
Rank	Substation	Circuit	District	Customers	Outages	
7	W Boyertown	00715-1	Boyertown	1,691	64	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.21	Bird	43%	2Q 2020	
	SAIDI	744.30	Trees Off ROW-Tree	21%	3Q 2020	
	SAIFI	5.98	Object Contact With Line	9%	4Q 2020	
	CAIDI	124	All Other	28%		
	Customer Minutes	1,258,604				
	Customers Affected	10,119				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Replace crossarm from inspection				Complete	Feb-20
	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
Install TripSaver				Complete	Dec-20	
Overhead circuit inspection				To be completed 2021	0%	
On cycle tree trimming				To be completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages	
8	Shawnee	00822-3	Stroudsburg	3,527	51	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.08	Trees Off ROW-Tree	90%	4Q 2020	
	SAIDI	336.82	Equipment Failure	5%		
	SAIFI	1.66	Trees - Sec/Service	1%		
	CAIDI	203	All Other	3%		
	Customer Minutes	1,187,978				
	Customers Affected	5,840				
	<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				To be completed 2021	60%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
9	Schuylkill Ave	00157-1	Reading	1,664	9
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.08	Trees Off ROW-Tree	50%	2Q 2020
	SAIDI	711.27	Vehicle	25%	3Q 2020
	SAIFI	3.06	Equipment Failure	23%	4Q 2020
	CAIDI	233	All Other	2%	
	Customer Minutes	1,183,548			
	Customers Affected	5,085			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Targeted forestry inspection			Complete	Apr-20
	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
10	Lynnville	00737-1	Hamburg	1,073	101
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2.07	Trees Off ROW-Tree	70%	2Q 2020
	SAIDI	1,099.22	Equipment Failure	15%	3Q 2020
	SAIFI	2.68	Unknown	8%	4Q 2020
	CAIDI	411	All Other	8%	
	Customer Minutes	1,179,467			
	Customers Affected	2,872			
	<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
	Replace crossarm brace from inspection #5			Complete	Mar- 20
Targeted forestry inspection			Complete	Nov-20	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
11	Shawnee	00833-3	Stroudsburg	1,437	28
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.80	Equipment Failure	44%	1Q 2020
	SAIDI	712.78	Trees Off ROW-Tree	31%	2Q 2020
	SAIFI	3.83	Unknown	16%	3Q 2020
	CAIDI	186	All Other	8%	4Q 2020
	Customer Minutes	1,024,266			
	Customers Affected	5,502			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Install Supervisory Control and Data Acquisition (SCADA) recloser			Complete	Mar-20
	Construct circuit tie			Complete	Mar-20
	Mainline forestry aerial patrol			Complete	Jul-20
	Post storm aerial patrol			Complete	Aug-20
	Repair items identified during post storm aerial patrol			Complete	Aug-20
	Thermovision and overhead inspection			Complete	May-20
Replace recloser			To be completed 2021	75%	
On cycle tree trimming			To be completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
12	S Hamb	00801-1	Hamburg	2,096	61
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.77	Equipment Failure	46%	2Q 2020
	SAIDI	481.67	Trees Off ROW-Tree	23%	3Q 2020
	SAIFI	3.03	Forced Outage	9%	4Q 2020
	CAIDI	159	All Other	22%	
	Customer Minutes	1,009,575			
	Customers Affected	6,353			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	On cycle Tree Trimming			Complete	July- 20
	Install TripSaver Recloser #1			Complete	Dec- 20
	Install TripSaver Recloser #2			Complete	Dec-20

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
13	Glendon	00818-3	Easton	1,638	22
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.73	Trees Off ROW-Tree	50%	3Q 2020
	SAIDI	601.59	Equipment Failure	41%	4Q 2020
	SAIFI	2.62	Forced Outage	4%	
	CAIDI	229	All Other	6%	
	Customer Minutes	985,409			
	Customers Affected	4,298			
	<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
Rank	Substation	Circuit	District	Customers	Outages
14	Lyons	00729-1	Reading	1,293	86
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.67	Trees Off ROW-Tree	49%	2Q 2020
	SAIDI	734.28	Equipment Failure	21%	3Q 2020
	SAIFI	2.64	Trees Off ROW-Limb	18%	4Q 2020
	CAIDI	278	All Other	12%	
	Customer Minutes	949,418			
	Customers Affected	3,414			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Create additional circuit tie			Complete	Apr-20
	On cycle tree trimming			Complete	Aug-20
Install TripSaver			Complete	Dec-20	
Install Supervisory Control and Data Acquisition (SCADA) switch			Complete	Dec-20	
Install Supervisory Control and Data Acquisition (SCADA) switch			Complete	Dec-20	
Install Supervisory Control and Data Acquisition (SCADA) switch			Complete	Dec-20	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
15	Flying Hills	00777-1	Reading	1,786	88
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.64	Trees Off ROW-Tree	52%	1Q 2020
	SAIDI	524.15	Equipment Failure	20%	2Q 2020
	SAIFI	1.71	Unknown	11%	3Q 2020
	CAIDI	306	All Other	18%	4Q 2020
	Customer Minutes	936,135			
	Customers Affected	3,056			
	<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			To be completed 2021	50%	
Rank	Substation	Circuit	District	Customers	Outages
16	Baldy	00738-1	Reading	863	38
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.55	Equipment Failure	68%	3Q 2020
	SAIDI	1,021.68	Trees Off ROW-Tree	23%	4Q 2020
	SAIFI	4.08	Trees Off ROW-Limb	6%	
	CAIDI	251	All Other	3%	
	Customer Minutes	881,708			
	Customers Affected	3,519			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead mainline circuit inspection			Complete	Mar-20
	Targeted forestry inspection			Complete	Mar-20
	Targeted forestry inspection			Complete	Apr-20
	Mainline Pole Replacements			Complete	Aug-20
	Overhead circuit inspection			To be completed 2021	0%
	On cycle Tree Trimming			To be completed 2021	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
17	Shawnee	00899-3	Stroudsburg	1,754	56
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.55	Trees Off ROW-Tree	59%	1Q 2020
	SAIDI	502.18	Equipment Failure	27%	2Q 2020
	SAIFI	1.45	Wind	5%	3Q 2020
	CAIDI	345	All Other	10%	4Q 2020
	Customer Minutes	880,819			
	Customers Affected	2,551			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Install Supervisory Control and Data Acquisition (SCADA) recloser #2			Complete	Jan-20
	Install Supervisory Control and Data Acquisition (SCADA) recloser #3			Complete	Jan-20
	Install Supervisory Control and Data Acquisition (SCADA) recloser #4			Complete	Jan-20
	Mainline forestry aerial patrol			Complete	Jul-20
	Post storm aerial patrol			Complete	Aug-20
	Repair items identified during post storm aerial patrol			Complete	Aug-20
	On cycle tree trimming			To be completed 2021	0%
	Rank	Substation	Circuit	District	Customers
18	Mc Knights Gap	00774-1	Reading	1,387	44
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.50	Equipment Failure	43%	2Q 2020
	SAIDI	615.37	Trees Off ROW-Tree	38%	3Q 2020
	SAIFI	2.99	Line Failure	12%	4Q 2020
	CAIDI	206	All Other	7%	
	Customer Minutes	853,525			
	Customers Affected	4,145			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Targeted forestry inspection			Complete	Apr-20
	Targeted forestry inspection			Complete	Jun-20
	On cycle tree trimming			Complete	Oct-20
	Install TripSaver Recloser #1			Complete	Dec-20
	Install TripSaver Recloser #2			Complete	Dec-20
	Overhead circuit inspection			To be completed 2021	95%

<b>Met-Ed</b>					
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
19	Swatara Hill	00765-2	Lebanon	611	39
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.38	Trees Off ROW-Tree	76%	3Q 2020
	SAIDI	1,291.14	Equipment Failure	19%	4Q 2020
	SAIFI	3.34	Trees On ROW	3%	
	CAIDI	386	All Other	2%	
	Customer Minutes	788,888			
	Customers Affected	2,042			
	<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
	Targeted forestry inspection			To be completed 2021	0%
	<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>
20	Zionsview	00717-4	York	1,429	55
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.34	Trees Off ROW-Tree	70%	4Q 2020
	SAIDI	534.06	Trees Off ROW-Limb	22%	
	SAIFI	3.95	Forced Outage	3%	
	CAIDI	135	All Other	6%	
	Customer Minutes	763,175			
	Customers Affected	5,650			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection			Complete	Oct-20
	Replace/repair high priority items identified during overhead circuit inspection			Complete	Aug-20
	Replace/repair high priority items identified during overhead circuit inspection			To be completed 2021	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
21	Huffs Church	00600-1	Boyertown	1,508	103
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.34	Trees Off ROW-Tree	46%	2Q 2020
	SAIDI	505.21	Vehicle	29%	3Q 2020
	SAIFI	1.52	Unknown	12%	4Q 2020
	CAIDI	332	All Other	13%	
	Customer Minutes	761,856			
	Customers Affected	2,295			
	<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			To be completed 2021	50%	
Replace/repair high priority items identified during overhead circuit inspection			To be completed 2021	25%	
Rank	Substation	Circuit	District	Customers	Outages
22	Adamstown	00755-1	Reading	1,352	33
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.32	Trees Off ROW-Tree	57%	4Q 2020
	SAIDI	555.43	Line Failure	14%	
	SAIFI	2.38	Trees Off ROW-Limb	13%	
	CAIDI	234	All Other	15%	
	Customer Minutes	750,938			
	Customers Affected	3,215			
	<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	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
23	Lickdale	00625-2	Lebanon	1,009	80
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.26	Trees Off ROW-Tree	57%	3Q 2020
	SAIDI	709.91	Line Failure	11%	4Q 2020
	SAIFI	2.45	Animal	11%	
	CAIDI	290	All Other	21%	
	Customer Minutes	716,299			
	Customers Affected	2,472			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Targeted forestry inspection			To be completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
24	Yorkana	00715-4	York	1,803	66
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.24	Trees Off ROW-Tree	44%	2Q 2020
	SAIDI	392.24	Unknown	22%	3Q 2020
	SAIFI	2.41	Line Failure	20%	4Q 2020
	CAIDI	163	All Other	14%	
	Customer Minutes	707,200			
	Customers Affected	4,348			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Replace/repair high priority items identified during overhead circuit patrol			Complete	Feb-20
Post Storm Patrol			Complete	Apr-20	
On cycle tree trimming			Complete	Nov-20	
Rank	Substation	Circuit	District	Customers	Outages
25	Baldy	00736-1	Reading	1,019	57
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.20	Trees Off ROW-Tree	77%	4Q 2020
	SAIDI	673.90	Trees Off ROW-Limb	15%	
	SAIFI	2.31	Animal	4%	
	CAIDI	292	All Other	4%	
	Customer Minutes	686,700			
	Customers Affected	2,355			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Thermovision and overhead inspection			Complete	Apr-20
Targeted forestry inspection			Complete	May-20	
Targeted forestry inspection			Complete	Dec-20	
Overhead circuit inspection			To be completed 2021	0%	
On cycle tree trimming			To be completed 2021	0%	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
26	North Hanover	00505-4	Hanover	1,314	25
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.19	Trees Off ROW-Tree	65%	3Q 2020
	SAIDI	518.01	Trees Off ROW-Limb	29%	4Q 2020
	SAIFI	1.51	Unknown	5%	
	CAIDI	343	All Other	2%	
	Customer Minutes	680,663			
	Customers Affected	1,982			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Enhanced tree trimming			Complete	Dec-19
	On cycle Tree Trimming			To be completed 2021	0%
	Rank	Substation	Circuit	District	Customers
27	S Hamb	00741-1	Hamburg	1,603	66
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.04	Equipment Failure	34%	4Q 2020
	SAIDI	371.17	Trees Off ROW-Tree	32%	
	SAIFI	2.32	Vehicle	20%	
	CAIDI	160	All Other	14%	
	Customer Minutes	594,981			
	Customers Affected	3,711			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Replace crossarm from inspection			Complete	May- 20
	On cycle Tree Trimming			Complete	Jan- 20
	Rank	Substation	Circuit	District	Customers
28	Lickdale	00626-2	Lebanon	1,478	38
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.03	Trees Off ROW-Tree	75%	1Q 2020
	SAIDI	395.31	Line Failure	12%	4Q 2020
	SAIFI	1.77	Trees Off ROW-Limb	7%	
	CAIDI	223	All Other	5%	
	Customer Minutes	584,267			
	Customers Affected	2,623			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Targeted Mainline Circuit Rehabilitation #1			Complete	Jan-20
	Targeted Mainline Circuit Rehabilitation #2			Complete	Jan-20
	Targeted Mainline Circuit Rehabilitation #3			Complete	Jan-20
	Overhead circuit inspection			Complete	Mar-20
	Install fusing			Complete	Aug-20
	Targeted forestry inspection			To be completed 2021	0%

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
29	Crossroads	00728-4	York	1,186	49
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.02	Equipment Failure	87%	1Q 2020
	SAIDI	488.32	Lightning	6%	2Q 2020
	SAIFI	1.54	Line Failure	3%	4Q 2020
	CAIDI	317	All Other	4%	
	Customer Minutes	579,148			
	Customers Affected	1,828			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Replaced Capacitor control			Complete	Feb-20
	Install TripSaver Recloser			Complete	Dec-20
	Install Supervisory Control and Data Acquisition (SCADA) switch			Complete	Dec-20
	Install Supervisory Control and Data Acquisition (SCADA) switch			To be completed 2021	75%
	Rank	Substation	Circuit	District	Customers
30	Menges Mills	00543-4	Hanover	1,585	34
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.00	Trees Off ROW-Tree	72%	4Q 2020
	SAIDI	360.34	Lightning	16%	
	SAIFI	1.77	Vehicle	6%	
	CAIDI	204	All Other	6%	
	Customer Minutes	571,138			
	Customers Affected	2,804			
	<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
31	Mohnton	00144-1	Reading	973	15
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.98	Trees Off ROW-Tree	90%	1Q 2020
	SAIDI	572.54	Line Failure	5%	2Q 2020
	SAIFI	1.68	Forced Outage	4%	3Q 2020
	CAIDI	341	All Other	1%	4Q 2020
	Customer Minutes	557,080			
	Customers Affected	1,632			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Overhead circuit inspection			Complete	Jan-20
Targeted forestry inspection			Complete	Feb-20	

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
32	Fox Hill	00852-3	Stroudsburg	794	31
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.97	Trees Off ROW-Tree	83%	2Q 2020
	SAIDI	699.61	Equipment Failure	11%	3Q 2020
	SAIFI	2.47	Unknown	3%	4Q 2020
	CAIDI	284	All Other	3%	
	Customer Minutes	555,490			
	Customers Affected	1,958			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Thermovision and overhead inspection			Complete	Apr-20
	Mainline forestry aerial patrol			Complete	Jul-20
	On cycle tree trimming			Complete	Dec-20
	Rank	Substation	Circuit	District	Customers
33	South Easton	00057-3	Easton	626	5
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.97	Object Contact With Line	94%	4Q 2020
	SAIDI	880.06	Equipment Failure	5%	
	SAIFI	1.92	Trees - Sec/Service	1%	
	CAIDI	459	All Other	0%	
	Customer Minutes	550,920			
	Customers Affected	1,201			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage from Nov 2020 storm			Complete	Nov-20
Rank	Substation	Circuit	District	Customers	Outages
34	State Street	00620-1	Hamburg	888	13
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.93	Animal	54%	4Q 2020
	SAIDI	597.58	Trees Off ROW-Tree	39%	
	SAIFI	3.45	Human Error - Company	6%	
	CAIDI	173	All Other	1%	
	Customer Minutes	530,647			
	Customers Affected	3,064			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	On cycle Tree Trimming			Complete	Jan-20
Replace mainline recloser			Complete	Jul-20	
Overhead circuit inspection			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>
35	Dillsburg	00746-4	Dillsburg	2,575	41
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.92	Trees Off ROW-Tree	73%	2Q 2020
	SAIDI	204.66	Wind	13%	3Q 2020
	SAIFI	1.65	Equipment Failure	6%	4Q 2020
	CAIDI	124	All Other	8%	
	Customer Minutes	527,003			
	Customers Affected	4,257			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Install Supervisory Control and Data Acquisition (SCADA) recloser #1			Complete	Dec-20
	Install Supervisory Control and Data Acquisition (SCADA) recloser #2			Complete	Dec-20
	<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>
36	Pleasantville	00142-1	Boyertown	815	50
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.92	Trees Off ROW-Tree	86%	4Q 2020
	SAIDI	646.30	Ice	4%	
	SAIFI	1.99	Animal	4%	
	CAIDI	325	All Other	6%	
	Customer Minutes	526,736			
	Customers Affected	1,623			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	On cycle Tree Trimming			Complete	Dec-19
	Thermovision and overhead inspection			Complete	Mar-20
	<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>
37	Shawnee	00815-3	Stroudsburg	1,288	24
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.92	Trees Off ROW-Tree	66%	4Q 2020
	SAIDI	406.92	Vehicle	25%	
	SAIFI	4.37	Unknown	4%	
	CAIDI	93	All Other	5%	
	Customer Minutes	524,110			
	Customers Affected	5,625			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Thermovision and overhead inspection			Complete	Apr-20
	Mainline forestry aerial patrol			Complete	Jul-20

Met-Ed					
Rank	Substation	Circuit	District	Customers	Outages
38	Windsor	00795-4	York	1,028	70
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.92	Trees Off ROW-Tree	72%	1Q 2020
	SAIDI	508.52	Trees Off ROW-Limb	13%	2Q 2020
	SAIFI	2.71	Equipment Failure	7%	3Q 2020
	CAIDI	188	All Other	8%	4Q 2020
	Customer Minutes	522,757			
	Customers Affected	2,783			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Enhanced Tree Removal			Complete	Dec-19
	Replace/repair high priority items identified during overhead circuit patrol			Complete	Mar-20
	Targeted Mainline Circuit Rehabilitation			Complete	Jun-20
	Install Animal Guard			Complete	Nov-20
	Rank	Substation	Circuit	District	Customers
39	Yorkana	00716-4	York	1,348	27
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.90	Trees Off ROW-Limb	36%	3Q 2020
	SAIDI	379.93	Vehicle	34%	4Q 2020
	SAIFI	3.94	Trees Off ROW-Tree	20%	
	CAIDI	96	All Other	10%	
	Customer Minutes	512,143			
	Customers Affected	5,317			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	On cycle tree trimming			Complete	Jul-20

<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>1Q 2020</b>	<b>2Q 2020</b>	<b>3Q 2020</b>	<b>4Q 2020</b>
Bern Church	00789-1	X	X	X	
Bernville	00786-1	X	X		
Broad Street	00776-2	X	X		
Crossroads	00729-4	X	X		
Fox Hills	00816-3	X	X	X	
Hill	00734-4	X	X		
Hill	00737-4	X	X	X	
Mcsherrystown	00292-4		X	X	
Mountain	00743-4	X	X	X	
North Cornwall	00610-2	X	X		
South Nazareth	00809-3	X	X	X	
Shawnee	00895-3	X	X	X	
Taxville	00575-4	X	X		
Water Gap	00109-3	X	X	X	
Windsor	00797-4	X	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>
Barto	00705-1	Overhead circuit inspection	Complete	Dec-20
Barto	00705-1	Install TripSaver	Complete	Dec-20
Belfast	00812-3	Install Supervisory Control and Data Acquisition (SCADA) switch	Complete	Nov-20
Bern Church	00789-1	Install additional circuit tap protection	Complete	Nov-20
Bern Church	00789-1	Install TripSaver Recloser #1	Complete	Dec-20
Bern Church	00789-1	Install TripSaver Recloser #2	Complete	Dec-20
Bern Church	00789-1	Install TripSaver Recloser #3	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) recloser #3	To be completed 2021	50%
Bernville	00786-1	Install TripSaver Recloser #1	Complete	Dec-20
Bernville	00786-1	Install TripSaver Recloser #2	Complete	Dec-20
Bernville	00786-1	Install TripSaver Recloser #3	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) switch #3	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) switch #4	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) switch #5	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) switch #6	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) switch #7	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) recloser #1	Complete	Dec-20
Bernville	00786-1	Install Supervisory Control and Data Acquisition (SCADA) recloser #2	Complete	Dec-20
Broad Street	00776-2	On cycle tree trimming	Complete	Dec-20
Campbelltown	00731-2	On cycle tree trimming	Complete	Dec-20
Fairview	00519-4	Add Supervisory Control and Data Acquisition (SCADA) to recloser #2	To be completed 2021	50%
Fairview	00519-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #1	Complete	Nov-20
Fairview	00519-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #2	Complete	Nov-20
Fairview	00519-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #3	Complete	Nov-20
Fairview	00519-4	Install Supervisory Control and Data Acquisition (SCADA) recloser #4	Complete	Dec-20
Fairview	00519-4	Add Supervisory Control and Data Acquisition (SCADA) to recloser #1	Complete	Dec-20
Ferndale	00871-3	Install TripSaver Recloser	Complete	Dec-20
Fox Hill	00816-3	Repair items identified during circuit inspection	Complete	Dec-20
Fox Hill	00816-3	On cycle Tree Trimming	Complete	Dec-20
Hill	00734-4	Install TripSaver Recloser #1	Complete	Dec-20
Hill	00734-4	Install TripSaver Recloser #2	Complete	Dec-20
Hill	00737-4	On cycle Tree Trimming	Complete	Dec-20
Lynnville	00735-1	Install TripSaver Recloser #1	Complete	Dec-20
Lynnville	00735-1	Install TripSaver Recloser #2	Complete	Dec-20
Lynnville	00735-1	Install Supervisory Control and Data Acquisition (SCADA) recloser #1	Complete	Dec-20
Lynnville	00735-1	Install Supervisory Control and Data Acquisition (SCADA) switch #4	Complete	Dec-20
Mcherrystown	00292-4	On cycle tree trimming	Complete	Oct-20
Moselem	00782-1	Overhead circuit inspection	Complete	Nov-20
Newberry	00576-4	Repair/replace high priority items identified during inspection	Complete	Oct-20
North Cornwall	00610-2	On cycle Tree Trimming	Complete	Dec-20

<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>
Painted Sky	00650-1	Install additional mainline disconnects	Complete	Oct-20
Raintree	00642-4	Install TripSaver Recloser	Complete	Dec-20
S 6Th St	00415-2	Install fusing on mainline taps	Complete	Nov-20
S Hamb	00743-1	On cycle tree trimming	Complete	Dec-20
S Nazareth	00809-3	Install TripSaver Recloser #1	Complete	Dec-20
Shawnee	00895-3	On cycle tree trimming	Complete	Oct-20
Shawnee	00860-3	Install TripSaver Recloser	Complete	Dec-20
Springwood	00680-4	Install Supervisory Control and Data Acquisition (SCADA) switch #1	Complete	Dec-20
Springwood	00680-4	Install Supervisory Control and Data Acquisition (SCADA) switch #2	Complete	Dec-20
Springwood	00680-4	On cycle tree trimming	Complete	Dec-20
Stouchburg	00758-2	Line project to reconductor 4 spans and improve coordination	Complete	Oct-20
Water Gap	00109-3	Create new source	Complete	Oct-20
Water Gap	00109-3	Overhead circuit inspection	Complete	Oct-20
Windsor	00797-4	Upgrade fusing	Complete	Dec-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
1	Warren South	00220-41	Warren	2,493	98
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1,005.23	Trees Off ROW-Tree	84%	1Q 2020
	SAIDI	1.91	Equipment Failure	9%	2Q 2020
	SAIFI	527.59	Lightning	4%	3Q 2020
	CAIDI	0.59	All Other	4%	4Q 2020
	Customer Minutes	2,506,043			
	Customers Affected	4,750			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Jan-20
	Repair damage caused by trees			Complete	Mar-20
	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
2	Bradford South	00106-42	Bradford	1,184	41
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1,887.38	Trees Off ROW-Tree	92%	3Q 2020
	SAIDI	2.29	Lightning	2%	4Q 2020
	SAIFI	825.82	Line Failure	2%	
	CAIDI	0.00	All Other	3%	
	Customer Minutes	2,234,656			
	Customers Affected	2,706			
	<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	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
3	Two Mile	00127-42	Bradford	1,280	41
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1,730.89	Trees Off ROW-Tree	81%	1Q 2020
	SAIDI	2.77	Trees - Sec/Service	7%	2Q 2020
	SAIFI	623.92	Equipment Failure	6%	3Q 2020
	CAIDI	0.00	All Other	6%	4Q 2020
	Customer Minutes	2,215,534			
	Customers Affected	3,551			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Feb-20
	Repair line failure			Complete	Apr-20
	Repair damage caused by trees			Complete	Jul-20
	Install advanced Dx protective devices			Complete	Aug-20
	Repair damage caused by trees during a storm			Complete	Aug-20
Circuit inspection			Complete	Sep-20	
Rank	Substation	Circuit	District	Customers	Outages
4	Tiffany	00435-65	Montrose	1,420	51
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1,243.11	Trees Off ROW-Tree	56%	2Q 2020
	SAIDI	3.69	Line Failure	23%	3Q 2020
	SAIFI	337.07	Equipment Failure	19%	4Q 2020
	CAIDI	1.57	All Other	3%	
	Customer Minutes	1,765,219			
	Customers Affected	5,237			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Apr-20
	Repair Line failure			Complete	Aug-20
	Repair equipment failure			Complete	Nov-20
	Repair damage caused by trees during a storm			Complete	Nov-20
	Circuit inspection			To be Completed 2021	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
5	North Warren	00596-41	Warren	1,126	70
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1,537.38	Trees Off ROW-Tree	77%	2Q 2020
	SAIDI	4.79	Equipment Failure	10%	3Q 2020
	SAIFI	321.11	Line Failure	3%	4Q 2020
	CAIDI	2.45	All Other	10%	
	Customer Minutes	1,731,094			
	Customers Affected	5,391			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jan-20
	Repair damage caused by trees during a storm			Complete	Jan-20
	Repair equipment failure			Complete	May-20
	Repair damage caused by trees during a storm			Complete	Aug-20
	Repair damage caused by trees during a storm			Complete	Sep-20
Rank	Substation	Circuit	District	Customers	Outages
6	Dubois	00137-23	Dubois	3,149	108
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	549.04	Trees Off ROW-Tree	51%	1Q 2020
	SAIDI	3.62	Equipment Failure	19%	2Q 2020
	SAIFI	151.73	Line Failure	14%	3Q 2020
	CAIDI	1.02	All Other	16%	4Q 2020
	Customer Minutes	1,728,930			
	Customers Affected	11,395			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by line failure			Complete	Jan-20
	Circuit inspection			Complete	Mar-20
	Repair equipment failure			Complete	May-20
	Install advanced Dx protective devices			Complete	Jun-20
	Repair damage caused by trees during a storm			Complete	Nov-20
Install advanced Dx protective devices			To be Completed 2021	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
7	North Warren	00207-41	Warren	1,362	93
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1,153.44	Trees Off ROW-Tree	69%	1Q 2020
	SAIDI	6.02	Ice	15%	2Q 2020
	SAIFI	191.63	Trees On ROW	6%	3Q 2020
	CAIDI	3.20	All Other	10%	4Q 2020
	Customer Minutes	1,570,982			
	Customers Affected	8,198			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jan-20
	Repair damage caused by ice			Complete	Feb-20
	Circuit inspection			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	May-20
	Targeted circuit rehabilitation			Complete	Aug-20
	Install advanced Dx protective devices			Complete	Oct-20
Install new radio-controlled switch			Complete	Jan-21	
Install advanced Dx protective devices			To be Completed 2021	0%	
On cycle tree clearing			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
8	Lewis Run	00408-42	Bradford	1,175	45
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1,295.91	Trees Off ROW-Tree	96%	3Q 2020
	SAIDI	2.76	Lightning	3%	4Q 2020
	SAIFI	469.82	Trees - Sec/Service	0%	
	CAIDI	0.00	All Other	0%	
	Customer Minutes	1,522,700			
	Customers Affected	3,241			
	<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
	Install advanced Dx protective devices			To be Completed 2021	0%
On cycle tree clearing			To be Completed 2021	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
9	Meyersdale North	00022-12	Somerset	1,547	45
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	889.45	Trees Off ROW-Tree	97%	1Q 2020
	SAIDI	2.61	Lightning	1%	2Q 2020
	SAIFI	340.34	Unknown	1%	3Q 2020
	CAIDI	0.00	All Other	1%	4Q 2020
	Customer Minutes	1,375,980			
	Customers Affected	4,043			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Feb-20
	Repair damage caused by trees during a storm			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Jun-20
Rank	Substation	Circuit	District	Customers	Outages
10	Marienville	00328-51	Oil City	1,200	66
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	882.43	Trees Off ROW-Tree	77%	1Q 2020
	SAIDI	3.81	Unknown	13%	2Q 2020
	SAIFI	231.66	Trees Off ROW-Limb	3%	3Q 2020
	CAIDI	1.36	All Other	8%	4Q 2020
	Customer Minutes	1,058,916			
	Customers Affected	4,571			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jan-20
	Install advanced Dx protective devices			Complete	May-20
	Circuit inspection			Complete	Sep-20
Repair damage caused by trees during a storm			Complete	Nov-20	
Install advanced Dx protective devices			To be Completed 2021	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
11	Natl Forge Sw Sta	00577-41	Warren	1,219	54
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	819.56	Trees Off ROW-Tree	77%	3Q 2020
	SAIDI	9.27	Wind	9%	4Q 2020
	SAIFI	88.40	Equipment Failure	7%	
	CAIDI	4.88	All Other	7%	
	Customer Minutes	999,048			
	Customers Affected	11,301			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees			Complete	Aug-20
	Repair damage caused by trees			Complete	Sep-20
	Repair damage caused by wind			Complete	Nov-20
	Circuit inspection			To be Completed 2021	0%
	Install advanced Dx protective devices			To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
12	Mill Street	00144-42	Bradford	962	16
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1,038.44	Trees Off ROW-Tree	48%	4Q 2020
	SAIDI	1.68	Equipment Failure	46%	
	SAIFI	619.71	Lightning	3%	
	CAIDI	2.99	All Other	2%	
	Customer Minutes	998,975			
	Customers Affected	1,612			
	<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 clearing			To be Completed 2021	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
13	Piney	00523-51	Oil City	1,503	61
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	658.46	Trees Off ROW-Tree	47%	1Q 2020
	SAIDI	3.86	Unknown	17%	2Q 2020
	SAIFI	170.37	Lightning	16%	3Q 2020
	CAIDI	1.55	All Other	20%	4Q 2020
	Customer Minutes	989,672			
	Customers Affected	5,809			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jan-20
	Restore breaker operation of unknown cause			Complete	Jan-20
	Repair damage caused by trees during a storm			Complete	Mar-20
	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 clearing			Complete	Dec-20	
Targeted circuit rehabilitation			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
14	Philipsburg	00162-22	Philipsburg	2,706	56
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	363.67	Equipment Failure	56%	1Q 2020
	SAIDI	2.63	Unknown	36%	2Q 2020
	SAIFI	138.14	Ice	5%	4Q 2020
	CAIDI	0.62	All Other	3%	
	Customer Minutes	984,079			
	Customers Affected	7,124			
	<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

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
15	French Road	00222-31	Erie	1,715	24
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	563.11	Trees Off ROW-Tree	54%	2Q 2020
	SAIDI	2.41	Line Failure	21%	3Q 2020
	SAIFI	233.83	Trees Off ROW-Limb	14%	4Q 2020
	CAIDI	0.33	All Other	10%	
	Customer Minutes	965,734			
	Customers Affected	4,130			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Jan-20
	Repair line failure			Complete	Jan-20
	Repair damage caused by trees during a storm			Complete	Jun-20
	Repair damage caused by trees during a storm			Complete	Aug-20
Rank	Substation	Circuit	District	Customers	Outages
16	East Hickory	00201-41	Warren	321	24
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	2,914.61	Trees Off ROW-Tree	90%	3Q 2020
	SAIDI	2.93	Lightning	2%	4Q 2020
	SAIFI	995.31	Trees - Sec/Service	2%	
	CAIDI	3.11	All Other	6%	
	Customer Minutes	935,590			
	Customers Affected	940			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	On cycle tree clearing			Complete	Nov-19
Repair damage caused by trees during a storm			Complete	Aug-20	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
17	Springboro	00237-52	Meadville	2,534	78
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	357.36	Trees Off ROW-Tree	35%	1Q 2020
	SAIDI	3.07	Line Failure	33%	2Q 2020
	SAIFI	116.34	Ice	9%	3Q 2020
	CAIDI	2.97	All Other	24%	4Q 2020
	Customer Minutes	905,560			
	Customers Affected	7,784			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Mar-20
	Repair line failure			Complete	Sep-20
	Install advanced Dx protective devices			Complete	Oct-20
	Repair damage caused by ice			Complete	Dec-20
	Circuit inspection			To be Completed 2021	0%
Install advanced Dx protective devices			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
18	Somerset	00017-12	Somerset	1,369	45
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	609.59	Trees Off ROW-Tree	95%	2Q 2020
	SAIDI	1.60	Lightning	2%	3Q 2020
	SAIFI	381.76	Line Failure	2%	4Q 2020
	CAIDI	0.33	All Other	2%	
	Customer Minutes	834,528			
	Customers Affected	2,186			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Apr-20
	Circuit inspection			To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
19	Hooversville	00019-12	Somerset	1,805	48
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	421.47	Trees Off ROW-Tree	49%	2Q 2020
	SAIDI	3.23	Equipment Failure	27%	3Q 2020
	SAIFI	130.58	Unknown	12%	4Q 2020
	CAIDI	0.96	All Other	12%	
	Customer Minutes	760,750			
	Customers Affected	5,826			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Apr-20
Repair damage caused by trees during a storm			Complete	Apr-20	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
20	Greenwood	00041-71	Altoona	1,230	25
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	612.39	Equipment Failure	93%	3Q 2020
	SAIDI	2.15	Line Failure	5%	4Q 2020
	SAIFI	284.24	Trees On ROW	1%	
	CAIDI	1.00	All Other	1%	
	Customer Minutes	753,234			
	Customers Affected	2,650			
	<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
	Circuit inspection			To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
21	Mcveytown	00112-81	Lewistown	1,298	53
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	561.23	Trees Off ROW-Tree	55%	2Q 2020
	SAIDI	2.21	Line Failure	22%	3Q 2020
	SAIFI	253.47	Unknown	10%	4Q 2020
	CAIDI	0.00	All Other	13%	
	Customer Minutes	728,477			
	Customers Affected	2,874			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair line failure			Complete	Apr-20
	Repair damage caused by a tree during a storm			Complete	Jun-20
	On cycle tree clearing			To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
22	Grover	00527-63	Towanda	1,054	73
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	665.05	Trees Off ROW-Tree	54%	1Q 2020
	SAIDI	2.18	Trees Off ROW-Limb	25%	2Q 2020
	SAIFI	305.03	Ice	9%	3Q 2020
	CAIDI	0.00	All Other	12%	4Q 2020
	Customer Minutes	700,965			
	Customers Affected	2,298			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Apr-20
	Circuit inspection			Complete	May-20
	Repair damage caused by trees during a storm			Complete	Jul-20
Repair damage caused by trees during a storm			Complete	Nov-20	
Targeted circuit rehabilitation			To be Completed 2021	0%	
Install advanced Dx protective devices			To be Completed 2021	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
23	Union City Sub	00208-43	Erie	1,456	91
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	474.92	Trees Off ROW-Tree	65%	3Q 2020
	SAIDI	3.32	Animal	12%	4Q 2020
	SAIFI	142.84	Equipment Failure	7%	
	CAIDI	1.01	All Other	16%	
	Customer Minutes	691,490			
	Customers Affected	4,841			
	<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 animal			Complete	Feb-20
	Repair equipment failure			Complete	Feb-20
	Circuit inspection			To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
24	Morgan Street	00233-52	Meadville	839	32
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	800.79	Vehicle	86%	3Q 2020
	SAIDI	1.70	Trees Off ROW-Tree	8%	4Q 2020
	SAIFI	471.48	Unknown	2%	
	CAIDI	0.46	All Other	4%	
	Customer Minutes	671,864			
	Customers Affected	1,425			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by vehicle accident			Complete	Sep-20	
Rank	Substation	Circuit	District	Customers	Outages
25	Hooversville	00018-12	Somerset	748	38
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	894.78	Trees Off ROW-Tree	80%	2Q 2020
	SAIDI	2.36	Trees Off ROW-Limb	8%	3Q 2020
	SAIFI	379.85	Vehicle	7%	4Q 2020
	CAIDI	1.40	All Other	5%	
	Customer Minutes	669,294			
	Customers Affected	1,762			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Apr-20
	Circuit inspection			To be Completed 2021	0%
Install advanced Dx protective devices			To be Completed 2021	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
26	N Meshoppen Tran	00534-65	Montrose	825	50
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	805.85	Trees Off ROW-Tree	78%	1Q 2020
	SAIDI	2.45	Equipment Failure	10%	2Q 2020
	SAIFI	329.12	Human Error -Non-Company	6%	3Q 2020
	CAIDI	0.00	All Other	6%	4Q 2020
	Customer Minutes	664,824			
	Customers Affected	2,020			
	<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
27	Lowell Avenue	00518-31	Erie	960	27
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	690.10	Trees Off ROW-Tree	68%	1Q 2020
	SAIDI	1.49	Line Failure	23%	4Q 2020
	SAIFI	463.93	Lightning	6%	
	CAIDI	0.38	All Other	3%	
	Customer Minutes	662,494			
	Customers Affected	1,428			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jan-20
Repair line failure			Complete	Dec-20	
Circuit inspection			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
28	Carlisle Pike	00643-83	Shippensburg	3,209	36
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	204.56	Animal	68%	1Q 2020
	SAIDI	1.76	Line Failure	23%	4Q 2020
	SAIFI	116.27	Trees Off ROW-Limb	6%	
	CAIDI	0.00	All Other	3%	
	Customer Minutes	656,437			
	Customers Affected	5,646			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair line failure			Complete	Mar-20
Repair damage caused by an animal			Complete	Dec-20	
Circuit inspection			To be Completed 2021	0%	
On cycle tree clearing			To be Completed 2021	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
29	Brookville	00125-23	Dubois	563	27
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1,115.59	Trees Off ROW-Tree	81%	1Q 2020
	SAIDI	6.97	Vehicle	11%	2Q 2020
	SAIFI	160.06	Forced Outage	3%	3Q 2020
	CAIDI	4.34	All Other	5%	4Q 2020
	Customer Minutes	628,076			
	Customers Affected	3,924			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by vehicle accident			Complete	Jan-20
	Repair damage caused by trees during a storm			Complete	May-20
	Repair damage caused by trees during a storm			Complete	Nov-20
	Targeted circuit rehabilitation			To be Completed 2021	0%
	Rank	Substation	Circuit	District	Customers
30	Dubois Central	00119-23	Dubois	1,235	48
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	504.75	Trees Off ROW-Tree	58%	2Q 2020
	SAIDI	2.66	Equipment Failure	24%	3Q 2020
	SAIFI	189.71	Line Failure	10%	4Q 2020
	CAIDI	0.73	All Other	8%	
	Customer Minutes	623,371			
	Customers Affected	3,286			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Jun-20
	Repair damage caused by trees during a storm			Complete	Jun-20
	Repair damage caused by trees during a storm			Complete	Jun-20
	Repair line failure			Complete	Nov-20
	Rank	Substation	Circuit	District	Customers
31	Logan	00700-81	Lewistown	1,047	38
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	593.29	Trees Off ROW-Tree	74%	1Q 2020
	SAIDI	5.31	Vehicle	10%	2Q 2020
	SAIFI	111.70	Lightning	9%	3Q 2020
	CAIDI	0.97	All Other	6%	4Q 2020
	Customer Minutes	621,174			
	Customers Affected	5,561			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Mar-20
	Circuit inspection			Complete	Apr-20
	Repair damage caused by a vehicle accident			Complete	May-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
32	Lewis Run	00409-42	Bradford	643	32
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	951.21	Equipment Failure	40%	3Q 2020
	SAIDI	5.71	Trees Off ROW-Tree	39%	4Q 2020
	SAIFI	166.66	Forced Outage	11%	
	CAIDI	0.69	All Other	10%	
	Customer Minutes	611,628			
	Customers Affected	3,670			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by vehicle accident			Complete	Feb-20
	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
33	Blairsville East	00082-13	Indiana	1,564	34
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	390.60	Forced Outage	46%	3Q 2020
	SAIDI	1.49	Trees Off ROW-Tree	22%	4Q 2020
	SAIFI	261.85	Line Failure	16%	
	CAIDI	0.07	All Other	16%	
	Customer Minutes	610,905			
	Customers Affected	2,333			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Apr-20
	Install advanced Dx protective devices			Complete	Jun-20
	Repair line failure			Complete	Jul-20
	Repair equipment failure			Complete	Aug-20
	On cycle tree clearing			Complete	Oct-20
Rank	Substation	Circuit	District	Customers	Outages
34	Blairsville East	00080-13	Indiana	897	24
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	668.90	Trees Off ROW-Tree	81%	3Q 2020
	SAIDI	3.00	Equipment Failure	15%	4Q 2020
	SAIFI	222.64	Line Failure	3%	
	CAIDI	0.00	All Other	1%	
	Customer Minutes	600,003			
	Customers Affected	2,695			
	<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
Targeted circuit rehabilitation			To be Completed 2021	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
35	Tunkhannock	00533-65	Montrose	1,237	35
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	471.70	Trees Off ROW-Tree	83%	2Q 2020
	SAIDI	1.73	Unknown	9%	3Q 2020
	SAIFI	273.04	Trees Off ROW-Limb	5%	4Q 2020
	CAIDI	0.00	All Other	3%	
	Customer Minutes	583,488			
	Customers Affected	2,137			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Apr-20
	Install advanced Dx protective devices			To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
36	Northeast	00592-31	Erie	1,600	60
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	363.59	Animal	68%	3Q 2020
	SAIDI	3.06	Equipment Failure	14%	4Q 2020
	SAIFI	118.65	Unknown	10%	
	CAIDI	1.04	All Other	7%	
	Customer Minutes	581,738			
	Customers Affected	4,903			
	<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	Outages
37	Union City Sub	00206-43	Erie	2,856	109
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	188.01	Trees Off ROW-Tree	60%	1Q 2020
	SAIDI	2.08	Equipment Failure	15%	2Q 2020
	SAIFI	90.41	Unknown	7%	3Q 2020
	CAIDI	0.84	All Other	18%	4Q 2020
	Customer Minutes	536,956			
	Customers Affected	5,939			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jan-20
	Repair equipment failure			Complete	Jun-20
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	
Install advanced Dx protective devices			To be Completed 2021	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
38	Russell Hill	00282-65	Montrose	1,002	75
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	511.81	Trees Off ROW-Tree	42%	1Q 2020
	SAIDI	2.41	Line Failure	30%	2Q 2020
	SAIFI	212.00	Vehicle	13%	3Q 2020
	CAIDI	0.00	All Other	15%	4Q 2020
	Customer Minutes	512,837			
	Customers Affected	2,419			
	<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
	Install advanced Dx protective devices			To be Completed 2021	0%
	Rank	Substation	Circuit	District	Customers
39	Clearfield	00148-21	Clearfield	1,846	57
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	249.94	Trees Off ROW-Tree	38%	3Q 2020
	SAIDI	2.64	Equipment Failure	34%	4Q 2020
	SAIFI	94.74	Line Failure	25%	
	CAIDI	0.70	All Other	3%	
	Customer Minutes	461,393			
	Customers Affected	4,870			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Jan-20
	Repair damage caused by trees during a storm			Complete	Mar-20
	Repair line failure			Complete	Jul-20
	On cycle tree clearing			To be Completed 2021	0%
	Install new radio-controlled switch			To be Completed 2021	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
40	Birmingham	00168-22	Philipsburg	1,080	55
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	421.64	Forced Outage	59%	1Q 2020
	SAIDI	1.48	Trees Off ROW-Tree	20%	2Q 2020
	SAIFI	284.78	Lightning	17%	3Q 2020
	CAIDI	0.00	All Other	5%	4Q 2020
	Customer Minutes	455,366			
	Customers Affected	1,599			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by vehicle accident			Complete	Jan-20
	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
	Circuit inspection			To be Completed 2021	0%
Install advanced Dx protective devices			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
41	Knox	00323-51	Oil City	1,305	48
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	342.02	Equipment Failure	75%	4Q 2020
	SAIDI	2.53	Unknown	16%	
	SAIFI	134.97	Trees Off ROW-Tree	4%	
	CAIDI	0.00	All Other	5%	
	Customer Minutes	446,331			
	Customers Affected	3,307			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Apr-20
	Repair equipment failure			Complete	Nov-20
Restore fuse operation of unknown cause			Complete	Dec-20	
Rank	Substation	Circuit	District	Customers	Outages
42	Laurel Lake Sub Tran	00449-65	Montrose	516	35
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	860.63	Trees Off ROW-Tree	36%	1Q 2020
	SAIDI	5.13	Line Failure	34%	2Q 2020
	SAIFI	167.77	Equipment Failure	23%	3Q 2020
	CAIDI	2.55	All Other	6%	4Q 2020
	Customer Minutes	444,085			
	Customers Affected	2,647			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Feb-20
Repair line failure			Complete	Apr-20	
Repair damage caused by trees during a storm			Complete	Aug-20	

Penelec						
Rank	Substation	Circuit	District	Customers	Outages	
43	Mansfield	00559-63	Mansfield Pa	493	29	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	866.53	Equipment Failure	29%	1Q 2020	
	SAIDI	3.18	Vehicle	23%	2Q 2020	
	SAIFI	272.10	Other Electric Utility	22%	3Q 2020	
	CAIDI	1.12	All Other	26%	4Q 2020	
	Customer Minutes	427,198				
	Customers Affected	1,570				
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>	
	Repair equipment failure			Complete	Apr-20	
	Targeted circuit rehabilitation			Complete	Nov-20	
	Repair damage caused by vehicle accident			Complete	Dec-20	
	Circuit inspection			To be Completed 2021	0%	
	Rank	Substation	Circuit	District	Customers	Outages
44	Corry East	00247-43	Warren	311	22	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1,287.84	Trees Off ROW-Tree	94%	3Q 2020	
	SAIDI	1.69	Equipment Failure	3%	4Q 2020	
	SAIFI	761.44	Unknown	2%		
	CAIDI	0.65	All Other	1%		
	Customer Minutes	400,517				
	Customers Affected	526				
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>	
	Repair damage caused by trees during a storm			Complete	Sep-20	
	Repair damage caused by trees during a storm			Complete	Sep-20	
	On cycle tree clearing			To be Completed 2021	0%	
	Rank	Substation	Circuit	District	Customers	Outages
	45	Rockwood	00023-12	Somerset	230	11
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>		
SAIDI Impact		1,731.23	Trees Off ROW-Tree	96%	3Q 2020	
SAIDI		2.81	Forced Outage	3%	4Q 2020	
SAIFI		616.38	Human Error -Non-Company	1%		
CAIDI		0.90	All Other	0%		
Customer Minutes		398,182				
Customers Affected		646				
<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>		
Repair damage caused by trees during a storm			Complete	Apr-20		
Repair damage caused by trees during a storm			Complete	Jul-20		
On cycle tree clearing			To be Completed 2021	0%		

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
46	Madera	00165-22	Philipsburg	1,408	44
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	279.26	Equipment Failure	44%	1Q 2020
	SAIDI	1.57	Animal	31%	4Q 2020
	SAIFI	177.92	Trees Off ROW-Tree	13%	
	CAIDI	0.10	All Other	12%	
	Customer Minutes	393,195			
	Customers Affected	2,210			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Aug-20
	On cycle tree clearing			Complete	May-20
	Repair damage caused by trees during a storm			Complete	Aug-20
	Repair damage caused by animal			Complete	Oct-20
Rank	Substation	Circuit	District	Customers	Outages
47	Brookville West	00121-23	Dubois	768	31
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	493.88	Equipment Failure	42%	4Q 2020
	SAIDI	1.66	Trees Off ROW-Tree	23%	
	SAIFI	296.79	Trees Off ROW-Limb	13%	
	CAIDI	0.60	All Other	22%	
	Customer Minutes	379,296			
	Customers Affected	1,278			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a vehicle			Complete	Jan-20
	Repair damage caused by trees during a storm			Complete	Nov-20
	Repair equipment failure			Complete	Nov-20
	Rank	Substation	Circuit	District	Customers
48	Waverly	00164-66	Towanda	961	24
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	393.42	Equipment Failure	47%	1Q 2020
	SAIDI	2.23	Trees Off ROW-Tree	26%	2Q 2020
	SAIFI	176.75	Forced Outage	24%	4Q 2020
	CAIDI	0.17	All Other	2%	
	Customer Minutes	378,077			
	Customers Affected	2,139			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair equipment failure			Complete	Mar-20
	Repair damage caused by trees during a storm			Complete	Apr-20
	Repair damage caused by vehicle accident			Complete	Oct-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
49	East Sayre	00518-61	Towanda	946	36
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	391.12	Equipment Failure	46%	1Q 2020
	SAIDI	2.82	Lightning	17%	2Q 2020
	SAIFI	138.68	Unknown	16%	3Q 2020
	CAIDI	0.60	All Other	21%	4Q 2020
	Customer Minutes	369,995			
	Customers Affected	2,668			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Circuit inspection			Complete	Apr-20
	Repair equipment failure			Complete	May-20
	Targeted circuit rehabilitation			To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
50	Stoystown	00402-12	Somerset	318	11
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1,159.59	Lightning	81%	3Q 2020
	SAIDI	3.03	Trees Off ROW-Tree	14%	4Q 2020
	SAIFI	382.92	Unknown	4%	
	CAIDI	1.00	All Other	0%	
	Customer Minutes	368,750			
	Customers Affected	963			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by lightning			Complete	Apr-20
	On cycle tree clearing			To be Completed 2021	0%
	Rank	Substation	Circuit	District	Customers
51	Crown	00519-51	Oil City	643	51
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	559.59	Trees Off ROW-Tree	73%	4Q 2020
	SAIDI	1.99	Trees Off ROW-Limb	11%	
	SAIFI	280.67	Unknown	11%	
	CAIDI	0.43	All Other	5%	
	Customer Minutes	359,818			
	Customers Affected	1,282			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by lightning			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Nov-20
	On cycle tree clearing			To be Completed 2021	0%

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
52	Warren 5Th Avenue	00250-41	Warren	973	29
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	369.39	Trees Off ROW-Tree	50%	4Q 2020
	SAIDI	1.78	Equipment Failure	28%	
	SAIFI	207.99	Forced Outage	13%	
	CAIDI	3.92	All Other	9%	
	Customer Minutes	359,414			
	Customers Affected	1,728			
	<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	Oct-20
Rank	Substation	Circuit	District	Customers	Outages
53	Church	00427-34	Erie	727	40
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	489.94	Trees Off ROW-Tree	32%	3Q 2020
	SAIDI	4.17	Equipment Failure	27%	4Q 2020
	SAIFI	117.55	Unknown	20%	
	CAIDI	0.00	All Other	21%	
	Customer Minutes	356,184			
	Customers Affected	3,030			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Restore recloser operation of unknown cause			Complete	Jun-20
	Repair equipment failure			Complete	Jul-20
Repair damage caused by trees during a storm			Complete	Aug-20	
On cycle tree clearing			To be Completed 2021	0%	
Circuit inspection			To be Completed 2021	0%	
Rank	Substation	Circuit	District	Customers	Outages
54	Lake Como	00788-65	Montrose	634	20
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	556.90	Trees Off ROW-Tree	89%	2Q 2020
	SAIDI	2.63	Equipment Failure	6%	3Q 2020
	SAIFI	211.80	Line Failure	4%	4Q 2020
	CAIDI	0.06	All Other	0%	
	Customer Minutes	353,073			
	Customers Affected	1,667			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Apr-20
	Circuit inspection			To be Completed 2021	0%
Install advanced Dx protective devices			To be Completed 2021	0%	

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
55	Falls Creek	00710-23	Dubois	625	20
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	551.99	Trees Off ROW-Tree	34%	4Q 2020
	SAIDI	2.79	Lightning	27%	
	SAIFI	197.93	Equipment Failure	18%	
	CAIDI	0.00	All Other	21%	
	Customer Minutes	344,995			
	Customers Affected	1,743			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair line failure			Complete	Mar-20
	Repair damage caused by trees during a storm			Complete	Apr-20
	Repair damage caused by lightning			Complete	Aug-20
Rank	Substation	Circuit	District	Customers	Outages
56	Wellsboro	00324-63	Mansfield Pa	255	21
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1,342.73	Trees Off ROW-Tree	57%	1Q 2020
	SAIDI	4.47	Unknown	24%	2Q 2020
	SAIFI	300.61	Equipment Failure	9%	3Q 2020
	CAIDI	2.91	All Other	10%	4Q 2020
	Customer Minutes	342,397			
	Customers Affected	1,139			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Restored fuse operation of unknown cause			Complete	Apr-20
	Repair damage caused by trees			Complete	Aug-20
	Rank	Substation	Circuit	District	Customers
57	Somerset	00031-12	Somerset	2,093	23
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	162.86	Unknown	75%	4Q 2020
	SAIDI	1.52	Trees Off ROW-Tree	15%	
	SAIFI	107.09	Line Failure	4%	
	CAIDI	0.00	All Other	6%	
	Customer Minutes	340,865			
	Customers Affected	3,183			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Restored fuse operation of unknown cause			Complete	Apr-20
	Repair damage caused by trees			Complete	Aug-20
	Restore breaker operation of unknown cause			Complete	Dec-20

Penelec					
Rank	Substation	Circuit	District	Customers	Outages
58	Meshoppen	00283-65	Montrose	383	12
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	883.74	Forced Outage	36%	3Q 2020
	SAIDI	2.92	Line Failure	34%	4Q 2020
	SAIFI	302.75	Trees Off ROW-Tree	19%	
	CAIDI	1.00	All Other	11%	
	Customer Minutes	338,472			
	Customers Affected	1,118			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees			Complete	Apr-20
	Repair line failure			Complete	Jul-20
	Circuit inspection			To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
59	Hilltop	00040-11	Johnstown	1,341	24
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	247.46	Trees Off ROW-Tree	73%	4Q 2020
	SAIDI	5.18	Trees Off ROW-Limb	15%	
	SAIFI	47.79	Equipment Failure	10%	
	CAIDI	0.22	All Other	2%	
	Customer Minutes	331,840			
	Customers Affected	6,944			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees			Complete	Apr-20
	Repair damage caused by trees during a storm			Complete	Aug-20
	Circuit inspection			To be Completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
60	Marienville	00327-51	Oil City	745	38
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	433.19	Trees Off ROW-Tree	63%	4Q 2020
	SAIDI	1.61	Bird	20%	
	SAIFI	268.72	Unknown	9%	
	CAIDI	0.00	All Other	9%	
	Customer Minutes	322,729			
	Customers Affected	1,201			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jun-20
	Repair damage caused by trees during a storm			Complete	Nov-20
	Install new radio controlled recloser			Complete	Jan-21

<b>Penelec</b>					
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
61	Punxsutawney	00118-23	Dubois	1,138	27
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	281.74	Line Failure	32%	4Q 2020
	SAIDI	2.48	Lightning	31%	
	SAIFI	113.53	Equipment Failure	18%	
	CAIDI	0.73	All Other	20%	
	Customer Minutes	320,615			
	Customers Affected	2,824			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by lightning			Complete	Aug-20
	Repair line failure			Complete	Oct-20
	Repair damage caused by trees during a storm			Complete	Dec-20
	On cycle tree clearing			To be Completed 2021	0%
<b>Rank</b>	<b>Substation</b>	<b>Circuit</b>	<b>District</b>	<b>Customers</b>	<b>Outages</b>
62	Farmers Valley	00125-42	Bradford	343	13
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	932.64	Trees Off ROW-Tree	86%	4Q 2020
	SAIDI	1.59	Equipment Failure	13%	
	SAIFI	585.89	All Other	1%	
	CAIDI	0.12			
	Customer Minutes	319,895			
	Customers Affected	546			
	<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
	Install advanced Dx protective devices			To be Completed 2021	0%

<b>Penelec</b>					
<b>Unranked circuits appearing 2 or more quarters in the last 4 quarters</b>					
<b>Substation</b>	<b>Circuit</b>	<b>1Q 2020</b>	<b>2Q 2020</b>	<b>3Q 2020</b>	<b>4Q 2020</b>
Ansonia	00740-63	X	X	X	
Covington	00729-63		X	X	
Curryville	00644-71	X	X		
Dubois	00131-23	X	X		
East Pike	00094-13	X	X		
East Pike	00095-13	X	X		
Edgewood	00089-13	X	X		
Erie East	00234-31	X	X		
Fairview Altoona	00005-71	X	X		
Falls	00297-65	X		X	
Green Garden	00539-31	X	X		
Industrial	00170-81	X	X		
Industrial Park	00796-65		X	X	
Lake Como	00786-65	X	X	X	
Lake Como	00787-65	X	X	X	
Logan	00701-81	X	X	X	
Madera	00166-22	X	X		
Meyersdale North	00004-12		X	X	
Port Allegany	00151-42	X	X		
Reedsville	00127-81	X	X		
Sabinsville Trans	00567-63		X	X	
Shawville	00151-21	X	X	X	
Thompson	00436-65	X	X		
Thompson	00442-65	X		X	
Thompson	00446-65	X	X		
Tiffany	00440-65	X	X		
Tyrone North	00643-22	X	X		
Utica Junction	00318-51	X	X		
Utica Junction	00331-51	X	X	X	
Warren South	00219-41	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>
Utica Junction	00331-51	Install advanced Dx protective devices	Complete	Oct-20
Utica Junction	00331-51	On cycle tree clearing	Complete	Dec-20
Lake Como	00787-65	Install advanced Dx protective devices	Complete	Nov-20
Tiffany	00440-65	Targeted circuit rehabilitation	Complete	Oct-20
Curryville	00644-71	On cycle tree clearing	Complete	Dec-20
Port Allegany Sub	00151-42	On cycle tree clearing	Complete	Dec-20
Utica Junction	00318-51	Circuit inspection	Complete	Oct-20
Utica Junction	00318-51	On cycle tree clearing	Complete	Dec-20
Warren South	00219-41	Install advanced Dx protective devices	Complete	Nov-20
Milroy	00128-81	Install new radio-controlled switch	Complete	Nov-20
Rolling Meadows	00310-31	Install advanced Dx protective devices	Complete	Nov-20
Revloc	00069-72	On cycle tree clearing	Complete	Nov-20
New Albany SW Station	00526-62	On cycle tree clearing	Complete	Nov-20
McConnellstown	00099-82	Install advanced Dx protective devices	Complete	Nov-20

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
1	Koppel	D-531	New Castle	1,613	34	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	4.7	Trees Off ROW-Tree	82%	4Q 2020	
	SAIDI	800	Line Failure	7%		
	SAIFI	1.67	Equipment Failure	5%		
	CAIDI	479	All Other	4%		
	Customer Minutes	773,169				
	Customers Affected	1,613				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm				Complete	Jan-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Repair damage caused by trees during a storm				Complete	Nov-20
	Rank	Substation	Circuit	District	Customers	Outages
2	Grant Street	W421	New Castle	2,366	10	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	4.4	Trees Off ROW-Tree	74%	2Q 2020	
	SAIDI	770	Vehicle	20%	3Q 2020	
	SAIFI	2.51	Unknown	5%	4Q 2020	
	CAIDI	307	All Other	1%		
	Customer Minutes	725,226				
	Customers Affected	2,366				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Replace pole				Complete	Mar-20
	Repair damage caused by trees during a storm				Complete	Jun-20
	Repair damage caused by trees during a storm				Complete	Jul-20
	Rank	Substation	Circuit	District	Customers	Outages
3	BMF	W760	Zelienople	6431	14	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	4.3	Trees Off ROW-Tree	72%	1Q 2020	
	SAIDI	295	Trees Off ROW-Limb	23%	2Q 2020	
	SAIFI	2.70	Line Failure	4%	3Q 2020	
	CAIDI	109	All Other	1%	4Q 2020	
	Customer Minutes	702,919				
	Customers Affected	6,431				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm				Complete	Mar-20
	Repair damage caused by trees during a storm				Complete	Jun-20
	Repair damage caused by trees				Complete	Jul-20

Penn Power					
Rank					
4	Perry	W-156	Clark	3101	60
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	3.8	Trees Off ROW-Tree	44%	3Q 2020
	SAIDI	576	Trees Off ROW-Limb	18%	4Q 2020
	SAIFI	2.84	Line Failure	17%	
	CAIDI	203	All Other	21%	
	Customer Minutes	629,205			
	Customers Affected	3,101			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Jan-20
	Repair line failure			Complete	Mar-20
	Repair damage caused by trees during a storm			Complete	Jun-20
	Repair damage from bird nest			Complete	Jul-20
	Restore switching needed for scheduled repairs			Complete	Jul-20
Repair damage caused by trees during a storm			Complete	Nov-20	
Repair damage caused by trees during a storm			Complete	Nov-20	
Rank	Substation	Circuit	District	Customers	Outages
5	Seneca	W700	Zelienople	3628	64
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	3.4	Trees Off ROW-Tree	74%	2Q 2020
	SAIDI	532	Equipment Failure	11%	3Q 2020
	SAIFI	3.47	Line Failure	7%	4Q 2020
	CAIDI	153	All Other	6%	
	Customer Minutes	555,651			
	Customers Affected	3,628			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm			Complete	Mar-20
	Repair damage caused by trees during a storm			Complete	May-20
	Repair line failure			Complete	Jul-20
	Repair damage caused by trees during a storm			Complete	Aug-20
	Pole was replaced and equipment repaired			Complete	Dec-20

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
6	Darlington	D-536	Zelienople	1451	40	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	3.1	Trees Off ROW-Tree	56%	4Q 2020	
	SAIDI	492	Lightning	32%		
	SAIFI	1.41	Vehicle	6%		
	CAIDI	349	All Other	5%		
	Customer Minutes	506,587				
	Customers Affected	1,451				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm				Complete	Jan-20
	Repair damage caused by trees during a storm				Complete	Apr-20
	Repair damage caused by a vehicle				Complete	Dec-20
	Rank	Substation	Circuit	District	Customers	Outages
7	Mercer	W-167	Clark	1447	32	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	3.0	Trees Off ROW-Tree	92%	4Q 2020	
	SAIDI	588	Animal	2%		
	SAIFI	1.70	Bird	2%		
	CAIDI	345	All Other	9%		
	Customer Minutes	499,413				
	Customers Affected	1,447				
	<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
Rank	Substation	Circuit	District	Customers	Outages	
8	Camp Reynolds	W-134	Clark	2484	67	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.9	Trees Off ROW-Tree	78%	1Q 2020	
	SAIDI	280	Line Failure	11%	2Q 2020	
	SAIFI	1.43	Animal	4%	4Q 2020	
	CAIDI	196	All Other	7%		
	Customer Minutes	486,754				
	Customers Affected	2,484				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm				Complete	Jan-20
Repair damage caused by trees during a storm				Complete	Nov-20	

Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
9	Knox	D509	Zelienople	1573	23	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	2.9	Trees Off ROW-Tree	89%	2Q 2020	
	SAIDI	491	Trees Off ROW-Limb	5%	3Q 2020	
	SAIFI	1.61	Equipment Failure	2%	4Q 2020	
	CAIDI	305	All Other	4%		
	Customer Minutes	480,270				
	Customers Affected	1,573				
	<b>Remedial Action Planned or Taken</b>				<b>Status</b>	<b>Progress</b>
	Repair damage caused by trees during a storm				Complete	Apr-20
	Repair damage caused by trees during a storm				Complete	Jun-20
	Repair damage caused by trees				Complete	Jul-20

<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>1Q 2019</b>	<b>2Q 2019</b>	<b>3Q 2019</b>	<b>4Q 2019</b>
Bedford	D-445	X		X	
Enon Valley	D-545		X	X	
Henderson	W-281	X	X		
Stoneboro	W-131	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	Driftwood	Driftwood	St. Marys	986	42
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.7	Trees off ROW	75%	Q2 2020
	SAIDI	2,001	Equipment Failure	15%	Q3 2020
	SAIFI	3.47	Trees on ROW	5%	Q4 2020
	CAIDI	577	All Other	5%	
	Customer Minutes	3,420			
	Customers Affected	1,973,225			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Apr-20
	Repair damage caused by a tree during a storm			Complete	Apr-20
	Overhead circuit inspection			Complete	Apr-20
	Repair damage caused by a tree during a storm			Complete	Aug-20
	Repair equipment failure			Complete	Dec-20
Rank	Substation	Circuit	District	Customers	Outages
2	Vandergrift	Grifflo Park	Arnold	2,722	62
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.3	Wind	46%	Q3 2020
	SAIDI	615	Trees off ROW	16%	Q4 2020
	SAIFI	1.69	Unknown	16%	
	CAIDI	363	All Other	22%	
	Customer Minutes	4,611			
	Customers Affected	1,673,678			
	Remedial Action Planned or Taken			Status	Progress
	Restore unknown outage during a storm			Complete	Aug-20
	Repair damage caused by wind during a storm			Complete	Aug-20
	Repair damage caused by a tree			Complete	Dec-20
	On Cycle Tree Trimming			To be completed 2021	0%
	Rank	Substation	Circuit	District	Customers
3	Smithton	Fitzhenry	Charleroi	1,163	21
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2.2	Trees off ROW	97%	Q2 2020
	SAIDI	1363	Equipment Failure	1%	Q3 2020
	SAIFI	2.07	Line Failure	1%	Q4 2020
	CAIDI	658	All Other	1%	
	Customer Minutes	2,408			
	Customers Affected	1,585,036			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Apr-20
	Repair equipment failure during a storm			Complete	Apr-20
	Repair equipment failure			Complete	Sep-20
	Repair line failure			Complete	Dec-20

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
4	Sardis	Mamont	Arnold	1069	6
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2	Trees off ROW	88%	Q4 2020
	SAIDI	1,375	Trees on ROW	12%	
	SAIFI	1.7	All Other	0%	
	CAIDI	808			
	Customer Minutes	1,818			
	Customers Affected	1,469,756			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Overhead circuit inspection			To be completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
5	Lovedale	Township	Charleroi	1,633	46
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	2	Unknown	38%	Q1 2020
	SAIDI	865	Object Contact with Line	21%	Q2 2020
	SAIFI	3.09	Trees off ROW	20%	Q3 2020
	CAIDI	280	All Other	21%	Q4 2020
	Customer Minutes	5,038			
	Customers Affected	1,413,035			
	Remedial Action Planned or Taken			Status	Progress
	Restore unknown outage during a storm			Complete	Jan-20
	Repair damage caused by a tree during a storm			Complete	Mar-20
	Repair damage caused by a tree during a storm			Complete	Apr-20
	Restore unknown outage during a storm			Complete	Apr-20
	Restore unknown outage			Complete	Jul-20
	Overhead circuit inspection			Complete	Dec-20
Rank	Substation	Circuit	District	Customers	Outages
6	Murrycrest	Sardis Road	Jeannette	1486	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.9	Trees off ROW	77%	Q2 2020
	SAIDI	913	Trees on ROW	9%	Q3 2020
	SAIFI	7.62	Animal	7%	Q4 2020
	CAIDI	120	All Other	7%	
	Customer Minutes	11,330			
	Customers Affected	1,356,063			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Apr-20
	Repair damage caused by an animal			Complete	May-20
	Repair damage caused by a tree			Complete	Sep-20
	Repair damage caused by a tree during a storm			Complete	Dec-20
On Cycle Tree Trimming			To be completed 2021	0%	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
7	Rutan	Bristoria	Jefferson	1141	102
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.8	Trees off ROW	73%	Q1 2020
	SAIDI	1,165	Line Failure	15%	Q2 2020
	SAIFI	2.45	Equipment Failure	8%	Q3 2020
	CAIDI	476	All Other	4%	Q4 2020
	Customer Minutes	2,795			
	Customers Affected	1,329,614			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Jan-20
	Repair line failure			Complete	May-20
	Repair damage caused by a tree during a storm			Complete	Jul-20
	Repair equipment failure during a storm			Complete	Nov-20
	Rank	Substation	Circuit	District	Customers
8	Marvindale	Clermont	St. Marys	852	16
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.8	Trees off ROW	95%	Q2 2020
	SAIDI	1552	Forced Outage	5%	Q3 2020
	SAIFI	3.52	All Other	0%	Q4 2020
	CAIDI	441			
	Customer Minutes	3,001			
	Customers Affected	1,322,557			
	Remedial Action Planned or Taken			Status	Progress
	Forced outage to repair damage during a storm			Complete	Jun-20
	Repair damage caused by a tree during a storm			Complete	Jun-20
	Repair damage caused by a tree			Complete	Jul-20
	Repair damage caused by a tree during a storm			Complete	Nov-20
	Rank	Substation	Circuit	District	Customers
9	Weedville	Weedville	St. Marys	1,382	51
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.8	Trees off ROW	80%	Q1 2020
	SAIDI	950	Human Error Non-Company	9%	Q3 2020
	SAIFI	2.91	Equipment Failure	6%	Q4 2020
	CAIDI	326	All Other	5%	
	Customer Minutes	4,023			
	Customers Affected	1,312,645			
	Remedial Action Planned or Taken			Status	Progress
	Repair equipment failure			Complete	Feb-20
	Repair damage caused by a tree			Complete	Feb-20
	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

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
10	Frazier	Star Junction	Pleasant Valley	1,708	35
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.7	Vehicle	57%	Q4 2020
	SAIDI	727	Trees off ROW	38%	
	SAIFI	2.66	Equipment Failure	3%	
	CAIDI	273	All Other	2%	
	Customer Minutes	4,547			
	Customers Affected	1,241,100			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a vehicle			Complete	Oct-20
Rank	Substation	Circuit	District	Customers	Outages
11	Avella	W Middletown	Washington	1,153	45
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.7	Trees off ROW	47%	Q1 2020
	SAIDI	1043	Equipment Failure	28%	Q3 2020
	SAIFI	3.12	Unknown	10%	Q4 2020
	CAIDI	335	All Other	15%	
	Customer Minutes	3,595			
	Customers Affected	1,202,887			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree during a storm			Complete	Mar-20
	On Cycle Tree Trimming			Complete	Mar-20
	Repair equipment failure during a storm			Complete	Jul-20
	Restore unknown outage during a storm			Complete	Nov-20
	Overhead circuit inspection			To be completed 2021	7%
Rank	Substation	Circuit	District	Customers	Outages
12	Charleroi	Speers	Charleroi	1,426	48
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.7	Trees off ROW	79%	Q2 2020
	SAIDI	840	Line Failure	10%	Q3 2020
	SAIFI	3.85	Equipment Failure	6%	Q4 2020
	CAIDI	218	All Other	5%	
	Customer Minutes	5,493			
	Customers Affected	1,197,568			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree during a storm			Complete	Jun-20
	Repair damage caused by a tree during a storm			Complete	Jun-20
	Repair damage caused by a tree during a storm			Complete	Jul-20
	Repair line failure during a storm			Complete	Nov-20
On Cycle Tree Trimming			To be completed 2021	0%	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
13	Dutch Fork	Claysville	Washington	1611	64
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.6	Trees off ROW	83%	Q1 2020
	SAIDI	736	Equipment Failure	10%	Q2 2020
	SAIFI	1.55	Unknown	3%	Q3 2020
	CAIDI	474	All Other	4%	Q4 2020
	Customer Minutes	2,501			
	Customers Affected	1,185,302			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jan-20
	Repair damage caused by a tree			Complete	Jun-20
	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
Rank	Substation	Circuit	District	Customers	Outages
14	Smithton	Smithton	Charleroi	991	27
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.6	Trees off ROW	82%	Q2 2020
	SAIDI	1172	Line Failure	16%	Q3 2020
	SAIFI	2.82	Unknown	1%	Q4 2020
	CAIDI	416	All Other	1%	
	Customer Minutes	2,791			
	Customers Affected	1,161,429			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Apr-20
	Repair line failure			Complete	Jun-20
	Repair damage caused by a tree			Complete	Jul-20
	Repair line failure			Complete	Oct-20
	Overhead circuit inspection (61041598)			To be completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
15	Fayetteville	Keystone	Waynesboro	1,514	40
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.4	Trees off ROW	61%	Q3 2020
	SAIDI	675	Trees on ROW	13%	Q4 2020
	SAIFI	1.97	Unknown	13%	
	CAIDI	343	All Other	13%	
	Customer Minutes	2,984			
	Customers Affected	1,022,441			
	Remedial Action Planned or Taken			Status	Progress
	Overhead circuit inspection			Complete	Jun-20
	Repair damage caused by a tree during a storm			Complete	Jul-20
Restore unknown outage			Complete	Oct-20	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
16	Bethlen	Darlington	Latrobe	1245	64
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.4	Trees off ROW	80%	Q1 2020
	SAIDI	796	Wind	16%	Q2 2020
	SAIFI	2.14	Unknown	2%	Q3 2020
	CAIDI	372	All Other	2%	Q4 2020
	Customer Minutes	2,666			
	Customers Affected	991,493			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree			Complete	Jan-20
	Repair damage caused by wind during a storm			Complete	Apr-20
	Repair damage caused by a tree during a storm			Complete	Jul-20
	Repair damage caused by a tree			Complete	Dec-20
	On Cycle Tree Trimming			To be completed 2021	0%
Rank	Substation	Circuit	District	Customers	Outages
17	Piney Fork	Gillhall	Charleroi	2,195	17
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.4	Trees off ROW	39%	Q2 2020
	SAIDI	447	Line Failure	39%	Q3 2020
	SAIFI	2.64	Unknown	15%	Q4 2020
	CAIDI	169	All Other	7%	
	Customer Minutes	5,791			
	Customers Affected	980,668			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair line failure during a storm			Complete	Apr-20
	Repair line failure during a storm			Complete	Apr-20
	On Cycle Tree Trimming			Complete	Jun-20
	Repair damage caused by a tree during a storm			Complete	Aug-20
	Restore unknown outage			Complete	Oct-20
Rank	Substation	Circuit	District	Customers	Outages
18	California	River	Charleroi	1,757	30
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.3	Trees off ROW	86%	Q3 2020
	SAIDI	550	Equipment Failure	7%	Q4 2020
	SAIFI	2.26	Unknown	7%	
	CAIDI	243	All Other	0%	
	Customer Minutes	3,975			
	Customers Affected	966,862			
	<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			Complete	Aug-20
Repair damage caused by a tree			Complete	Dec-20	

West Penn Power						
Rank	Substation	Circuit	District	Customers	Outages	
19	Hilliards	Hilliards	Butler	891	34	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.3	Trees off ROW	93%	Q1 2020	
	SAIDI	1014	Wind	3%	Q2 2020	
	SAIFI	3.04	Unknown	3%	Q3 2020	
	CAIDI	333	All Other	1%	Q4 2020	
	Customer Minutes	2,711				
	Customers Affected	903,888				
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>	
	Repair damage caused by a tree during a storm			Complete	Jan-20	
	Repair damage caused by a tree during a storm			Complete	Mar-20	
	Repair damage caused by a tree during a storm			Complete	May-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	
Rank	Substation	Circuit	District	Customers	Outages	
20	Belmon	Fayette City	Charleroi	1381	16	
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>	
	SAIDI Impact	1.2	Trees off ROW	52%	Q3 2020	
	SAIDI	622	Equipment Failure	46%	Q4 2020	
	SAIFI	1.81	Lightning	1%		
	CAIDI	344	All Other	1%		
	Customer Minutes	2,496				
	Customers Affected	858,785				
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>	
	Repair damage caused by a tree			Complete	20-Jul	
	Repair equipment failure during a storm			Complete	20-Aug	
	Overhead circuit inspection			To be completed 2021	0%	
	Rank	Substation	Circuit	District	Customers	Outages
	21	Smithton	Yukon	Charleroi	1297	24
<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>		
SAIDI Impact		1.1	Trees off ROW	74%	Q4 2020	
SAIDI		638	Line Failure	15%		
SAIFI		1.68	Equipment Failure	10%		
CAIDI		379	All Other	1%		
Customer Minutes		2,185				
Customers Affected		827,490				
<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 line failure during a storm			Complete	Dec-20		

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
22	Enlow	Summit	Boyce	1,806	11
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	62%	Q2 2020
	SAIDI	452	Unknown	29%	Q3 2020
	SAIFI	3.23	Line Failure	9%	Q4 2020
	CAIDI	140	All Other	0%	
	Customer Minutes	5,836			
	Customers Affected	815,485			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jun-20
	Restore unknown outage during a storm			Complete	Jun-20
	Repair line failure			Complete	Sep-20
	Repair line failure			Complete	Nov-20
	Rank	Substation	Circuit	District	Customers
23	Robbins	Rillton	Jeannette	1,532	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	91%	Q4 2020
	SAIDI	510	Vehicle	4%	
	SAIFI	2.13	UG Dig-Up	1%	
	CAIDI	240	All Other	4%	
	Customer Minutes	3,258			
	Customers Affected	781,411			
	Remedial Action Planned or Taken			Status	Progress
	On Cycle Tree Trimming			Complete	May-20
	Repair damage caused by a tree during a storm			Complete	Nov-20
Rank	Substation	Circuit	District	Customers	Outages
24	Westraver	Pittsburgh Coal	Charleroi	1,912	30
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1.1	Trees off ROW	95%	Q1 2020
	SAIDI	407	Equipment Failure	2%	Q2 2020
	SAIFI	2.33	Trees on ROW	1%	Q3 2020
	CAIDI	174	All Other	2%	Q4 2020
	Customer Minutes	4,459			
	Customers Affected	777,827			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Mar-20
	Repair damage caused by a tree during a storm			Complete	Apr-20
Repair damage caused by a tree during a storm			Complete	Dec-20	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
25	Mushroom	Mushroom	Kittanning	317	10
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.1	Trees off ROW	82%	Q3 2020
	SAIDI	2441	Line Failure	16%	Q4 2020
	SAIFI	2.39	Equipment Failure	2%	
	CAIDI	1019	All Other	0%	
	Customer Minutes	759			
	Customers Affected	773,761			
	<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
	Overhead circuit inspection			To be completed 2021	0%
	Rank	Substation	Circuit	District	Customers
26	Amity	Amity	Washington	528	33
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1.1	Trees off ROW	60%	Q3 2020
	SAIDI	1443	Unknown	24%	Q4 2020
	SAIFI	5.47	Animal	4%	
	CAIDI	264	All Other	12%	
	Customer Minutes	2,888			
	Customers Affected	762,166			
	<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
	Rank	Substation	Circuit	District	Customers
27	Amity	Banetown	Washington	147	54
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1	Trees off ROW	88%	Q2 2020
	SAIDI	510	Line Failure	6%	Q3 2020
	SAIFI	1.56	Trees on ROW	2%	Q4 2020
	CAIDI	328	All Other	4%	
	Customer Minutes	2,298			
	Customers Affected	753,265			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree			Complete	Apr-20
	Repair damage caused by a tree			Complete	May-20
	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	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
28	Kane	Russell City	St. Marys	704	23
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1	Trees off ROW	78%	Q4 2020
	SAIDI	1042	Line Failure	18%	
	SAIFI	2.09	Unknown	2%	
	CAIDI	500	All Other	2%	
	Customer Minutes	1,468			
	Customers Affected	733,572			
	<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
Rank	Substation	Circuit	District	Customers	Outages
29	Franklin	Rogersville	Jefferson	833	67
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1	Trees off ROW	75%	Q1 2020
	SAIDI	878	Unknown	11%	Q2 2020
	SAIFI	3.67	Forced Outage	8%	Q3 2020
	CAIDI	239	All Other	6%	Q4 2020
	Customer Minutes	3,059			
	Customers Affected	731,237			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree during a storm			Complete	Mar-20
	Repair damage caused by a tree during a storm			Complete	Apr-20
	Zone 1 Infrared Inspection			Complete	Jul-20
	Restore unknown outage			Complete	Sep-20
	Repair damage caused by a tree			Complete	Oct-20
Rank	Substation	Circuit	District	Customers	Outages
30	North Washington	Oklahoma	Arnold	1,774	22
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	1	Trees off ROW	51%	Q4 2020
	SAIDI	400	Trees on ROW	26%	
	SAIFI	1.51	Unknown	21%	
	CAIDI	265	All Other	2%	
	Customer Minutes	2,679			
	Customers Affected	710,142			
	<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	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
31	Franklin	South Waynesburg	Jefferson	2,078	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	1	Trees off ROW	97%	Q4 2020
	SAIDI	337	Unknown	1%	
	SAIFI	1.6	Equipment Failure	1%	
	CAIDI	211	All Other	1%	
	Customer Minutes	3,323			
	Customers Affected	700,052			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree			Complete	Oct-20
Rank	Substation	Circuit	District	Customers	Outages
32	Luzerne	Hiller	Uniontown	1023	15
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Line Failure	37%	Q4 2020
	SAIDI	664	Wind	18%	
	SAIFI	4.04	Fire	15%	
	CAIDI	164	All Other	30%	
	Customer Minutes	4,131			
	Customers Affected	679,337			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a fire			Complete	Oct-20
Repair damage caused by wind during a storm			Complete	Nov-20	
Rank	Substation	Circuit	District	Customers	Outages
33	Karns City	Kaylor	Butler	1157	39
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Unknown	43%	Q3 2020
	SAIDI	573	Trees off ROW	42%	Q4 2020
	SAIFI	2.39	Object Contact with Line	11%	
	CAIDI	240	All Other	4%	
	Customer Minutes	2,766			
	Customers Affected	663,513			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Jul-20
Restore unknown outage during a storm			Complete	Aug-20	
Repair damage caused by a tree during a storm			Complete	Nov-20	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
34	Lagonda	Taylorstown	Washington	610	44
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.9	Trees off ROW	51%	Q4 2020
	SAIDI	1074	Equipment Failure	16%	
	SAIFI	3.92	Unknown	14%	
	CAIDI	274	All Other	19%	
	Customer Minutes	2,390			
	Customers Affected	655,036			
	<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
Rank	Substation	Circuit	District	Customers	Outages
35	Waterville	Waterville	State College	355	17
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.9	Other Electric Utility	56%	Q1 2020
	SAIDI	1839	Trees off ROW	41%	Q2 2020
	SAIFI	7.09	Unknown	2%	Q3 2020
	CAIDI	259	All Other	1%	Q4 2020
	Customer Minutes	2,518			
	Customers Affected	652,729			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree during a storm			Complete	Feb-20
	Restore outage caused by other electric utility			Complete	Jun-20
Restore outage caused by other electric utility			Complete	Jul-20	
On cycle tree trimming			Complete	Nov-20	
Rank	Substation	Circuit	District	Customers	Outages
36	Monongahela	Park Ave.	Charleroi	1,046	21
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.9	Trees off ROW	82%	Q3 2020
	SAIDI	619	Equipment Failure	14%	Q4 2020
	SAIFI	2.72	Line Failure	4%	
	CAIDI	228	All Other	0%	
	Customer Minutes	2,841			
	Customers Affected	647,070			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
	Repair damage caused by a tree			Complete	Jul-20
	Zone 1 Infrared Inspection			Complete	Jul-20
Repair equipment failure			Complete	Sep-20	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
37	Roundhill	Roundhill	Charleroi	970	35
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.9	Trees off ROW	92%	Q4 2020
	SAIDI	653	Line Failure	3%	
	SAIFI	1.82	Vehicle	2%	
	CAIDI	358	All Other	3%	
	Customer Minutes	1,770			
	Customers Affected	633,842			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by a tree			Complete	Jul-20	
Rank	Substation	Circuit	District	Customers	Outages
38	Smith	Burgettstown	Washington	1893	34
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.9	Trees off ROW	49%	Q1 2020
	SAIDI	334	Equipment Failure	40%	Q4 2020
	SAIFI	1.99	Unknown	6%	
	CAIDI	168	All Other	5%	
	Customer Minutes	3,764			
	Customers Affected	631,541			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair equipment failure during a storm			Complete	Mar-20	
Repair damage caused by a tree during a storm			Complete	Dec-20	
Rank	Substation	Circuit	District	Customers	Outages
39	Thomas	Thomas	Boyce	1341	32
	<b>Reliability</b>		<b>Outage by Cause</b>		<b>Previously Ranked</b>
	SAIDI Impact	0.9	Equipment Failure	52%	Q4 2020
	SAIDI	465	Wind	24%	
	SAIFI	2.34	Trees off ROW	18%	
	CAIDI	199	All Other	6%	
	Customer Minutes	3,134			
	Customers Affected	623,499			
	<b>Remedial Action Planned or Taken</b>			<b>Status</b>	<b>Progress</b>
Repair damage caused by wind during a storm			Complete	Nov-20	

West Penn Power					
Rank	Substation	Circuit	District	Customers	Outages
40	Branchton	Forestville	Butler	1148	37
	Reliability		Outage by Cause		Previously Ranked
	SAIDI Impact	0.9	Trees off ROW	65%	Q4 2020
	SAIDI	539	Wind	14%	
	SAIFI	1.72	Line Failure	9%	
	CAIDI	314	All Other	12%	
	Customer Minutes	1,970			
	Customers Affected	618,229			
	Remedial Action Planned or Taken			Status	Progress
	Repair damage caused by a tree during a storm			Complete	Nov-20

<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>1Q 2020</b>	<b>2Q 2020</b>	<b>3Q 2020</b>	<b>4Q 2020</b>
Butler	Center Ave	X	X	X	
Finleyville	Finleyville	X	X	X	
Murrycrest	Christy Road	X	X	X	
North Fayette	Tyre	X		X	
Piney Fork	Cochran Mill	X	X	X	
Piney Fork	Stoltz	X	X	X	
Purcell	Artemas	X	X	X	
Smith	Florence	X	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>
Mather	Jefferson	Overhead circuit inspection	Complete	Oct-20
Whitely	Mt. Morris	Overhead circuit inspection	Complete	Nov-20
Lagonda	Club Forty	On cycle tree trimming	Complete	Dec-20
Kittanning	Garretts Run	On cycle tree trimming	Complete	Oct-20

*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>4th Quarter 2020 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	12	14,296	2,436
Excavated in Tolerance	22	191,562	93,406
Excavation Inconsistent with Ticket Scope	16	22,941	21,741
Excavation Prior to Lawful Start Date	4	11,444	3,368
Expired Ticket	11	27,715	21,647
Hand Digging	3	21,574	21,074
Marked Improperly	18	233,941	108,974
No Ticket	42	48,763	37,442
<b>Total</b>	<b>128</b>	<b>572,236</b>	<b>310,088</b>

<b>Penelec – Third Party Line Hit Incidents</b>			
<b>4th Quarter 2020 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	21	1,303	0
Excavated in Tolerance	50	43,769	19,206
Excavation Inconsistent with Ticket Scope	4	13,861	8,367
Excavation Prior to Lawful Start Date	8	4,593	2,011
Expired Ticket	5	2,929	2,246
Hand Digging	3	5,000	387
Marked Improperly	34	49,973	28,521
No Ticket	56	91,236	55,249
<b>Total</b>	<b>181</b>	<b>212,664</b>	<b>115,987</b>

<b>Penn Power – Third Party Line Hit Incidents</b>			
<b>4th Quarter 2020 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	4	891	0
Excavated in Tolerance	16	6,439	3,123
Excavation Inconsistent with Ticket Scope	3	2,485	0
Excavation Prior to Lawful Start Date	2	1,038	1,038
Expired Ticket	5	4,817	2,122
Hand Digging	0	0	0
Marked Improperly	5	16,167	4,615
No Ticket	24	22,185	11,733
<b>Total</b>	<b>59</b>	<b>54,022</b>	<b>22,631</b>

<b>West Penn – Third Party Line Hit Incidents</b>			
<b>4th Quarter 2020 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	39	44,642	10,280
Excavated in Tolerance	4	6,702	0
Excavation Inconsistent with Ticket Scope	5	8,661	5,798
Excavation Prior to Lawful Start Date	1	0	0
Expired Ticket	7	12,484	8,851
Hand Digging	7	6,900	6,768
Marked Improperly	27	93,653	41,317
No Ticket	51	120,956	87,329
<b>Total</b>	<b>141</b>	<b>293,998</b>	<b>160,343</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 4<sup>th</sup> Quarter 2020 Reliability Report –** :  
**Metropolitan Edison Company,** :  
**Pennsylvania Electric Company** : **Docket No. M-2016-2522508**  
**Pennsylvania Power Company and West** :  
**Penn Power Company – Public Version** :

**CERTIFICATE OF SERVICE**

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

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Dated: February 1, 2021



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