

Darsh Singh, Esq.  
(610) 212-8331  
(330) 315-9263 (Fax)

August 7, 2023

**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: Completed Restoration of Momentary and Sustained Interruptions –  
Pennsylvania Electric Company; Docket No. M-2021-3023564**

Dear Secretary Chiavetta:

Pursuant to 52 Pa. Code § 67.1, Pennsylvania Electric Company (“Penelec”) submits written notification of completed restoration efforts following storm conditions that began on July 20, 2023 that caused multiple service interruptions in the Penelec service territory.

Attached please find the details relative to the impact of this recent outage event and the restoration activities that took place. It should be noted that the review and approval process of this outage information is still in progress at the time of filing this report and as such, all outage information contained in this report should be considered preliminary.

If you have any questions, please contact me at (610) 212-8331.

Sincerely,



Darsh Singh

Enclosures

c: Dan Searfoorce - PaPUC Bureau of Technical Utility Services (via electronic mail)  
Derek Ruhl - PaPUC Bureau of Technical Utility Services (via electronic mail)  
John Van Zant - PaPUC Bureau of Technical Utility Services (via electronic mail)  
Harry Bidelspach – PaPUC Bureau of Technical Utility Services (via electronic mail)



Bradford	3,989	33	12
Cambria	6,312	20	11
Clarion	29	9	4
Clearfield	3,117	32	16
Crawford	3,383	49	87
Cumberland	2,092	16	18
Erie	13,397	106	159
Forest	186	8	16
Franklin	416	13	9
Huntingdon	263	20	4
Indiana	406	20	8
Jefferson	6,783	64	27
Lycoming	161	6	2
Mckean	5,244	53	69
Mifflin	39	7	4
Perry	9	1	1
Potter	254	3	4
Somerset	3,977	30	13
Sullivan	101	4	0
Susquehanna	106	7	3
Tioga	2,592	22	8
Venango	438	33	34
Warren	5,480	72	164
Westmoreland	570	3	2
Wyoming	69	3	3
<b>Total</b>	<b>61,346</b>	<b>668</b>	<b>713</b>

(d) Approximate number of outage cases exceeding 6 or more hours in duration: 350

(e) A listing of each outage case exceeding 6 or more hours in duration:

See Attachment A.

(f) Reason for the interruption or outages: Beginning the afternoon of July 20, 2023, a storm producing heavy rain and high winds moved through Pennsylvania including the Penelec service territory. Penelec experienced wind gusts up to 49 miles per hour and portions of the service territory received up to 2 inches of rain and 2.5 inches in isolated areas in northwest Pennsylvania. See Attachment B for the maximum wind gusts for July 20, 2023, and the 24-hour total precipitation for July 20, 2023.

(g) Damage as a result of the high winds included downed trees/power lines, damaged and broken poles/crossarms, and damaged equipment. Erie, Oil City, and Warren districts were the hardest hit areas. Approximately 56% of the total outages that occurred were

tree related.

Preliminary data indicate the reliability impact of the storm was 31.9 minutes of SAIDI, 0.11 of SAIFI, and an overall storm CAIDI of 300.78 minutes.

- (h) Projected time of restoration: It was estimated that the majority of customers would be restored by 2300 on Saturday, July 22, 2023

See Attachment C for the restoration curve and Attachment D for the order restoration graphs.

- (i) The number of utility workers, contract workers, and workers received as mutual aid assigned specifically to the repair work by general function:

Company	# of Workers	General Function
Penelec Line Crew	37	Line Workers
West Penn Power	3	Line Workers
<b>Subtotal</b>	<b>40</b>	<b>Line Workers</b>
Davey Tree	59	Forestry Contractor
Penn Line	39	Forestry Contractor
Lewis Tree	27	Forestry Contractor
<b>Subtotal</b>	<b>125</b>	<b>Forestry Contractor</b>
Danella Construction of NY INC	48	Line Contractor
Henkels & McCoy	5	Line Contractor
NG Gilbert	12	Line Contractor
JW Didado	7	Line Contractor
New River Electrical Corporation	50	Line Contractor
Thayer PC	10	Line Contractor
<b>Subtotal</b>	<b>132</b>	<b>Line Contractor</b>
Penelec	33	Hazard Responders
Penelec	6	Hazard Dispatchers
Penelec	3	Hazard Managers/Coordinators
<b>Subtotal</b>	<b>42</b>	<b>Hazard Responders</b>
Penelec Support	1	Supporting Roles
Danella Construction of NY INC	10	Supporting Roles
Henkels & McCoy	9	Supporting Roles
<b>Subtotal</b>	<b>20</b>	<b>Support</b>
<b>Grand Total</b>	<b>359</b>	

- (j) The date and time of the first information of a service interruption: July 20, 2023 at 1353.
- (k) The date and time that repair crews were assembled: July 20, 2023 at 1353.
- (l) The actual time that service was restored to the last affected customer: July 24, 2023 at 0145
- (m) A general description of the physical damage sustained by the utility facilities as a result of the interruption/outage:

Equipment	Number
Crossarms Replaced	109
Cutouts Replaced	76
Poles Replaced	39
Transformers Replaced	35
Wire & Cable Replaced (feet)	6,349
Primary Spans Down	342
Secondary Spans Replaced	151

- (n) If the interruption/outage event was weather-related, the utility’s weather reports, outlooks, or scenarios for the day before and the day of the interruption/outage event:

See Attachment E for the weather forecast reports.

- (o) If the interruption/outage event caused approximate outages that exceed 10% or more of the number of customers in the utility’s entire service territory, rank the event in terms of the number and duration of outages and provide 2 comparable events, including the number and duration of outages for those comparable events.

The outages that were a result of this event did exceed 10% or more of customers in the utility’s entire service territory.

The below chart reflects a ranking of the subject event in relation to two comparable Penelec events (based on the number and duration of outages).

Rank by Number of Outages	Operating Company	Date	Event Description	Duration (hours)	Customers Affected
1	Penelec	April 3 to April 6, 2018	High Winds & Thunderstorms	64 hours 49 minutes	62,262
2	Penelec	July 20 to July 24, 2023	Heavy Rain & Wind	83 hours 52 minutes	61,346
3	Penelec	July 6 to July 10, 2021	High Winds & Heavy Rain	105 hours 11 minutes	61,821

Remarks: The storm statistics contained in this report are preliminary. The review and approval of the storm statistics were still in progress as of the time this report was filed.

**Attachment A: A listing of each outage case exceeding six or more hours in duration, including the following information<sup>1</sup>:**

<b>Order #</b>	<b>Approximate Location (County)</b>	<b>Total Number of Customers Affected</b>	<b>Duration of the Outage (minutes)</b>	<b>Initial Date and Time of the Outage</b>	<b>Restoration Date and Time</b>
549160	Erie	10	4,461	7/20/23 19:12	7/23/23 21:33
546454	Warren	12	4,283	7/20/23 19:29	7/23/23 18:52
541874	Mckean	1	4,162	7/20/23 21:08	7/23/23 18:30
544800	Warren	13	4,091	7/20/23 19:54	7/23/23 16:05
541741	Warren	10	3,864	7/20/23 20:46	7/23/23 13:10
541883	Warren	2	3,734	7/20/23 19:55	7/23/23 10:09
543998	Mckean	11	3,506	7/21/23 7:50	7/23/23 18:16
547872	Erie	1	3,274	7/20/23 14:06	7/22/23 20:40
540452	Erie	858	3,274	7/20/23 14:06	7/22/23 20:40
544115	Crawford	1	2,965	7/21/23 8:23	7/23/23 9:48
545699	Warren	4	2,949	7/21/23 13:21	7/23/23 14:30
546455	Warren	2	2,935	7/20/23 19:29	7/22/23 20:24
541248	Warren	8	2,932	7/20/23 19:39	7/22/23 20:31
545535	Warren	7	2,907	7/20/23 19:29	7/22/23 19:56
546920	Warren	8	2,895	7/21/23 21:40	7/23/23 21:55
548432	Warren	6	2,895	7/21/23 21:40	7/23/23 21:55
546460	Warren	25	2,880	7/20/23 19:29	7/22/23 19:29
546290	Erie	5	2,832	7/20/23 19:12	7/22/23 18:24
542592	Warren	61	2,823	7/20/23 19:54	7/22/23 18:57
540916	Erie	3	2,816	7/20/23 18:49	7/22/23 17:45
541102	Crawford	14	2,811	7/20/23 18:38	7/22/23 17:29
547685	Warren	5	2,806	7/20/23 19:29	7/22/23 18:15
541848	Mckean	5	2,789	7/20/23 21:03	7/22/23 19:32
541226	Warren	4	2,788	7/20/23 19:37	7/22/23 18:05
547641	Venango	1	2,772	7/20/23 19:56	7/22/23 18:08
541363	Venango	1	2,770	7/20/23 19:56	7/22/23 18:06
540761	Jefferson	5	2,758	7/20/23 17:29	7/22/23 15:27
540765	Jefferson	1	2,758	7/20/23 17:29	7/22/23 15:27
541963	Warren	46	2,740	7/20/23 21:19	7/22/23 18:59
546277	Erie	48	2,734	7/20/23 19:12	7/22/23 16:46
542966	Warren	37	2,722	7/20/23 19:29	7/22/23 16:51

<sup>1</sup> When applicable, the individual restoration steps for an order are provided for those customers that were out of service for 6 hours or more.

Penelec Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
545147	Erie	1	2,706	7/20/23 22:09	7/22/23 19:15
541053	Crawford	6	2,670	7/20/23 19:12	7/22/23 15:42
544248	Warren	1	2,658	7/21/23 8:42	7/23/23 5:00
542590	Erie	5	2,634	7/20/23 23:42	7/22/23 19:36
541285	Warren	33	2,633	7/20/23 19:46	7/22/23 15:39
544361	Clearfield	5	2,630	7/20/23 21:16	7/22/23 17:06
541110	Crawford	1	2,587	7/20/23 19:23	7/22/23 14:30
541059	Crawford	3	2,571	7/20/23 19:13	7/22/23 14:04
543054	Warren	47	2,531	7/20/23 19:19	7/22/23 13:30
544841	Erie	12	2,518	7/20/23 18:41	7/22/23 12:39
542754	Mckean	9	2,517	7/21/23 0:40	7/22/23 18:37
546513	Mckean	18	2,498	7/20/23 20:43	7/22/23 14:21
541205	Crawford	21	2,467	7/20/23 19:33	7/22/23 12:40
545911	Crawford	1	2,448	7/20/23 19:33	7/22/23 12:21
541939	Warren	30	2,440	7/20/23 21:17	7/22/23 13:57
544443	Jefferson	3	2,429	7/20/23 21:06	7/22/23 13:35
544277	Erie	2	2,414	7/20/23 19:30	7/22/23 11:44
545502	Erie	2	2,414	7/20/23 19:30	7/22/23 11:44
541066	Crawford	13	2,398	7/20/23 19:14	7/22/23 11:12
541527	Forest	29	2,393	7/20/23 20:14	7/22/23 12:07
547913	Erie	8	2,359	7/21/23 20:18	7/23/23 11:37
547911	Erie	34	2,359	7/21/23 20:18	7/23/23 11:37
546255	Clarion	7	2,352	7/20/23 20:34	7/22/23 11:46
541332	Warren	6	2,346	7/20/23 19:50	7/22/23 10:56
541763	Venango	1	2,307	7/20/23 20:53	7/22/23 11:20
541867	Jefferson	19	2,272	7/20/23 20:55	7/22/23 10:47
548620	Warren	2	2,231	7/21/23 23:54	7/23/23 13:05
546565	Warren	41	2,231	7/21/23 23:54	7/23/23 13:05
546272	Erie	64	2,201	7/20/23 19:12	7/22/23 7:53
541616	Clarion	1	2,183	7/20/23 20:27	7/22/23 8:50
543808	Jefferson	4	2,155	7/20/23 21:06	7/22/23 9:01
542652	Venango	25	2,141	7/21/23 0:11	7/22/23 11:52
547332	Venango	11	2,140	7/21/23 0:11	7/22/23 11:51
541831	Forest	1	2,077	7/20/23 20:58	7/22/23 7:35
546840	Venango	6	2,064	7/21/23 8:34	7/22/23 18:58
541284	Warren	29	2,049	7/20/23 19:46	7/22/23 5:55
542829	Indiana	4	2,010	7/21/23 1:12	7/22/23 10:42

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Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
544135	Venango	1	1,956	7/21/23 8:27	7/22/23 17:03
542985	Cumberland	1	1,934	7/21/23 2:08	7/22/23 10:22
545807	Crawford	2	1,929	7/21/23 4:53	7/22/23 13:02
541886	Clarion	6	1,912	7/20/23 21:10	7/22/23 5:02
546931	Warren	6	1,886	7/21/23 21:40	7/23/23 5:06
547223	Mckean	32	1,883	7/21/23 11:07	7/22/23 18:30
542753	Franklin	1	1,864	7/21/23 0:58	7/22/23 8:02
547360	Warren	1	1,839	7/22/23 11:54	7/23/23 18:33
547407	Warren	1	1,808	7/22/23 12:23	7/23/23 18:31
545482	Mckean	22	1,791	7/21/23 14:00	7/22/23 19:51
543767	Forest	5	1,786	7/21/23 6:47	7/22/23 12:33
546909	Erie	8	1,698	7/22/23 4:08	7/23/23 8:26
543949	Franklin	1	1,687	7/21/23 7:35	7/22/23 11:42
546484	Forest	11	1,672	7/21/23 12:04	7/22/23 15:56
544413	Clarion	1	1,657	7/21/23 9:17	7/22/23 12:54
541721	Clarion	3	1,655	7/21/23 9:17	7/22/23 12:52
541683	Clarion	1	1,650	7/21/23 9:17	7/22/23 12:47
540623	Erie	1	1,640	7/20/23 15:44	7/21/23 19:04
547623	Warren	1	1,612	7/22/23 15:33	7/23/23 18:25
541771	Clarion	2	1,596	7/20/23 20:54	7/21/23 23:30
546453	Warren	9	1,596	7/20/23 19:29	7/21/23 22:05
545074	Warren	5	1,589	7/21/23 11:52	7/22/23 14:21
545635	Mckean	14	1,579	7/21/23 14:56	7/22/23 17:15
544371	Warren	8	1,568	7/21/23 9:07	7/22/23 11:15
546271	Erie	156	1,539	7/20/23 19:26	7/21/23 21:05
542461	Crawford	140	1,537	7/20/23 19:14	7/21/23 20:51
541578	Venango	3	1,534	7/20/23 20:22	7/21/23 21:56
544892	Mifflin	2	1,532	7/21/23 11:03	7/22/23 12:35
542266	Erie	1	1,499	7/20/23 22:41	7/21/23 23:40
542461	Crawford	5	1,498	7/20/23 19:14	7/21/23 20:12
543288	Clearfield	7	1,472	7/21/23 4:14	7/22/23 4:46
541002	Crawford	10	1,471	7/20/23 19:09	7/21/23 19:40
545882	Venango	1	1,441	7/21/23 16:42	7/22/23 16:43
543657	Crawford	33	1,441	7/20/23 19:29	7/21/23 19:30
543018	Erie	42	1,435	7/20/23 18:32	7/21/23 18:27
545124	Mckean	34	1,434	7/21/23 12:05	7/22/23 11:59
542244	Crawford	12	1,399	7/20/23 19:11	7/21/23 18:30

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Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
545798	Mckean	1	1,379	7/21/23 15:49	7/22/23 14:48
547357	Warren	9	1,360	7/21/23 19:16	7/22/23 17:56
544661	Warren	436	1,356	7/20/23 19:54	7/21/23 18:30
545860	Mckean	12	1,353	7/20/23 20:23	7/21/23 18:56
542174	Crawford	1	1,349	7/20/23 22:14	7/21/23 20:43
542175	Crawford	2	1,346	7/20/23 22:14	7/21/23 20:40
541472	Venango	32	1,340	7/20/23 20:09	7/21/23 18:29
545997	Crawford	36	1,338	7/20/23 19:11	7/21/23 17:29
545753	Crawford	5	1,338	7/20/23 19:11	7/21/23 17:29
541484	Venango	49	1,329	7/20/23 20:09	7/21/23 18:18
545534	Warren	145	1,324	7/20/23 19:29	7/21/23 17:33
542133	Warren	2	1,312	7/20/23 21:51	7/21/23 19:43
544902	Mckean	27	1,312	7/21/23 11:07	7/22/23 8:59
546116	Mckean	2	1,299	7/20/23 21:06	7/21/23 18:45
546036	Mckean	54	1,298	7/20/23 20:23	7/21/23 18:01
541862	Mckean	2	1,291	7/20/23 21:06	7/21/23 18:37
541787	Mckean	123	1,289	7/20/23 20:56	7/21/23 18:25
541494	Venango	14	1,285	7/20/23 20:10	7/21/23 17:35
541862	Mckean	4	1,284	7/20/23 21:06	7/21/23 18:30
547744	Warren	2	1,283	7/22/23 18:07	7/23/23 15:30
542187	Erie	109	1,277	7/20/23 18:36	7/21/23 15:53
540949	Erie	36	1,276	7/20/23 18:37	7/21/23 15:53
542603	Erie	57	1,275	7/20/23 19:32	7/21/23 16:47
542230	Warren	1	1,272	7/20/23 22:27	7/21/23 19:39
542065	Indiana	1	1,267	7/20/23 21:38	7/21/23 18:45
542684	Indiana	22	1,259	7/20/23 21:38	7/21/23 18:37
541084	Crawford	13	1,238	7/20/23 19:17	7/21/23 15:55
545868	Mckean	1	1,237	7/20/23 20:51	7/21/23 17:28
548657	Warren	16	1,228	7/22/23 17:40	7/23/23 14:08
541903	Mckean	6	1,222	7/20/23 21:14	7/21/23 17:36
547300	Franklin	2	1,201	7/21/23 14:44	7/22/23 10:45
546842	Warren	19	1,197	7/21/23 19:16	7/22/23 15:13
541716	Mckean	15	1,189	7/20/23 20:41	7/21/23 16:30
542255	Clearfield	1	1,184	7/20/23 22:39	7/21/23 18:23
540500	Erie	2	1,168	7/20/23 14:28	7/21/23 9:56
546202	Huntingdon	11	1,163	7/20/23 23:51	7/21/23 19:14
542744	Crawford	21	1,162	7/20/23 19:11	7/21/23 14:33

Penelec Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
540965	Crawford	12	1,161	7/20/23 19:03	7/21/23 14:24
542628	Huntingdon	20	1,155	7/20/23 23:59	7/21/23 19:14
542744	Crawford	21	1,147	7/20/23 19:11	7/21/23 14:18
543815	Jefferson	5	1,142	7/20/23 23:28	7/21/23 18:30
542598	Bedford	18	1,112	7/20/23 23:45	7/21/23 18:17
544409	Cumberland	2	1,104	7/21/23 2:30	7/21/23 20:54
545486	Venango	28	1,100	7/20/23 19:48	7/21/23 14:08
541298	Venango	5	1,100	7/20/23 19:48	7/21/23 14:08
541298	Venango	28	1,100	7/20/23 19:48	7/21/23 14:08
543958	Warren	2	1,094	7/21/23 7:37	7/22/23 1:51
546570	Warren	12	1,092	7/21/23 7:37	7/22/23 1:49
543823	Westmoreland	1	1,089	7/20/23 22:48	7/21/23 16:57
545559	Mckean	23	1,084	7/20/23 20:46	7/21/23 14:50
544954	Clearfield	3	1,082	7/20/23 22:17	7/21/23 16:19
542345	Jefferson	5	1,075	7/20/23 22:45	7/21/23 16:40
543027	Franklin	5	1,067	7/21/23 2:28	7/21/23 20:15
540953	Crawford	17	1,066	7/20/23 18:59	7/21/23 12:45
542769	Cumberland	20	1,064	7/21/23 1:00	7/21/23 18:44
541739	Mckean	58	1,063	7/20/23 20:46	7/21/23 14:29
545167	Blair	2	1,062	7/20/23 23:13	7/21/23 16:55
544800	Warren	64	1,061	7/20/23 19:54	7/21/23 13:35
541625	Mckean	21	1,061	7/20/23 20:27	7/21/23 14:08
541333	Warren	4	1,055	7/20/23 19:51	7/21/23 13:26
542694	Crawford	79	1,054	7/20/23 19:03	7/21/23 12:37
542132	Clearfield	25	1,044	7/20/23 21:51	7/21/23 15:15
545158	Franklin	45	1,044	7/21/23 0:19	7/21/23 17:43
546027	Franklin	47	1,044	7/21/23 0:19	7/21/23 17:43
541333	Warren	11	1,038	7/20/23 19:51	7/21/23 13:09
545944	Tioga	51	1,037	7/20/23 23:49	7/21/23 17:06
542638	Blair	9	1,026	7/20/23 23:50	7/21/23 16:56
542551	Somerset	19	1,026	7/20/23 23:26	7/21/23 16:32
543003	Franklin	5	1,019	7/21/23 2:16	7/21/23 19:15
544862	Lycoming	90	1,014	7/20/23 22:51	7/21/23 15:45
544848	Crawford	19	1,001	7/20/23 19:27	7/21/23 12:08
546841	Warren	83	989	7/21/23 19:16	7/22/23 11:45
542248	Potter	5	983	7/20/23 22:37	7/21/23 15:00
542782	Venango	4	973	7/20/23 21:15	7/21/23 13:28

Penelec Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
543704	Mckean	11	966	7/21/23 6:43	7/21/23 22:49
543032	Jefferson	106	958	7/20/23 20:58	7/21/23 12:56
546094	Mckean	3	957	7/21/23 18:33	7/22/23 10:30
542292	Jefferson	13	955	7/20/23 22:50	7/21/23 14:45
542806	Somerset	48	946	7/20/23 23:21	7/21/23 15:07
541837	Jefferson	106	940	7/20/23 20:58	7/21/23 12:38
540980	Crawford	38	940	7/20/23 19:05	7/21/23 10:45
542243	Blair	10	937	7/20/23 22:33	7/21/23 14:10
547614	Warren	1	935	7/22/23 15:25	7/23/23 7:00
542730	Cumberland	13	929	7/21/23 0:44	7/21/23 16:13
542743	Perry	9	928	7/21/23 0:53	7/21/23 16:21
547311	Crawford	11	927	7/21/23 21:10	7/22/23 12:37
545695	Venango	2	924	7/21/23 15:21	7/22/23 6:45
541524	Crawford	12	921	7/20/23 19:27	7/21/23 10:48
541040	Erie	13	914	7/20/23 19:11	7/21/23 10:25
544607	Forest	71	907	7/20/23 20:05	7/21/23 11:12
545255	Forest	48	906	7/21/23 7:04	7/21/23 22:10
548376	Erie	5	899	7/22/23 19:36	7/23/23 10:35
548370	Warren	1	895	7/23/23 9:12	7/24/23 0:07
543605	Erie	4	886	7/21/23 6:14	7/21/23 21:00
542709	Crawford	27	884	7/21/23 0:32	7/21/23 15:16
541438	Warren	4	884	7/20/23 19:54	7/21/23 10:38
541052	Erie	58	874	7/20/23 19:12	7/21/23 9:46
544277	Erie	5	870	7/20/23 19:30	7/21/23 10:00
544711	Mckean	451	860	7/20/23 20:20	7/21/23 10:40
541984	Potter	116	852	7/20/23 21:23	7/21/23 11:35
541438	Warren	151	850	7/20/23 19:54	7/21/23 10:04
542252	Clearfield	12	848	7/20/23 22:38	7/21/23 12:46
545097	Bradford	214	845	7/20/23 22:59	7/21/23 13:04
545078	Bradford	32	845	7/20/23 22:59	7/21/23 13:04
542188	Clearfield	18	841	7/20/23 22:19	7/21/23 12:20
541650	Mckean	254	841	7/20/23 20:20	7/21/23 10:21
540899	Erie	1	838	7/20/23 18:44	7/21/23 8:42
542742	Franklin	26	837	7/21/23 0:53	7/21/23 14:50
542944	Cumberland	50	827	7/21/23 1:55	7/21/23 15:42
541447	Forest	10	825	7/20/23 20:05	7/21/23 9:50
544442	Mckean	460	820	7/20/23 20:40	7/21/23 10:20

Penelec Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
544863	Jefferson	36	812	7/20/23 21:14	7/21/23 10:46
542352	Bradford	246	810	7/20/23 22:59	7/21/23 12:29
541298	Venango	18	807	7/20/23 19:48	7/21/23 9:15
543407	Erie	1	807	7/21/23 5:13	7/21/23 18:40
541057	Erie	11	806	7/20/23 19:13	7/21/23 8:39
543671	Cumberland	1	791	7/21/23 6:35	7/21/23 19:46
542382	Bradford	398	789	7/20/23 22:59	7/21/23 12:08
542185	Clearfield	71	784	7/20/23 22:17	7/21/23 11:21
541865	Jefferson	9	783	7/20/23 21:07	7/21/23 10:10
542352	Bradford	32	780	7/20/23 22:59	7/21/23 11:59
545077	Bradford	32	780	7/20/23 22:59	7/21/23 11:59
544660	Erie	13	776	7/21/23 2:50	7/21/23 15:46
542360	Bradford	249	775	7/20/23 22:59	7/21/23 11:54
542372	Bradford	293	775	7/20/23 22:59	7/21/23 11:54
542382	Bradford	1	775	7/20/23 22:59	7/21/23 11:54
542352	Bradford	6	775	7/20/23 22:59	7/21/23 11:54
542245	Erie	1	770	7/20/23 22:34	7/21/23 11:24
541777	Jefferson	2	769	7/20/23 20:55	7/21/23 9:44
543096	Cambria	4	765	7/20/23 23:14	7/21/23 11:59
541531	Venango	1	762	7/20/23 20:15	7/21/23 8:57
544403	Mckean	237	762	7/20/23 20:40	7/21/23 9:22
544957	Westmoreland	30	761	7/20/23 22:48	7/21/23 11:29
542547	Mckean	19	755	7/20/23 20:40	7/21/23 9:15
542058	Clearfield	9	754	7/20/23 21:38	7/21/23 10:12
542135	Clearfield	12	750	7/20/23 21:52	7/21/23 10:22
543851	Franklin	7	744	7/21/23 0:31	7/21/23 12:55
542221	Clearfield	35	728	7/20/23 21:52	7/21/23 10:00
542305	Lycoming	51	723	7/20/23 22:51	7/21/23 10:54
546540	Mckean	2	722	7/21/23 12:46	7/22/23 0:48
541051	Erie	2	721	7/20/23 18:12	7/21/23 6:13
542671	Franklin	35	715	7/21/23 0:19	7/21/23 12:14
542383	Erie	5	712	7/20/23 23:03	7/21/23 10:55
542292	Jefferson	5	706	7/21/23 2:59	7/21/23 14:45
542442	Cambria	17	702	7/20/23 23:15	7/21/23 10:57
541984	Potter	133	702	7/20/23 23:53	7/21/23 11:35
542439	Blair	3	701	7/20/23 23:14	7/21/23 10:55
542636	Venango	2	698	7/21/23 11:04	7/21/23 22:42

Penelec Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
543560	Huntingdon	1	695	7/21/23 6:01	7/21/23 17:36
547530	Warren	1	694	7/22/23 14:06	7/23/23 1:40
542945	Somerset	5	684	7/20/23 23:23	7/21/23 10:47
544947	Mckean	7	681	7/21/23 11:18	7/21/23 22:39
540921	Erie	9	680	7/20/23 18:51	7/21/23 6:11
542081	Clearfield	10	676	7/20/23 21:41	7/21/23 8:57
544686	Jefferson	2	670	7/21/23 10:12	7/21/23 21:22
542632	Crawford	28	659	7/21/23 0:01	7/21/23 11:00
545375	Bedford	7	649	7/21/23 5:12	7/21/23 16:01
542438	Blair	8	636	7/20/23 23:14	7/21/23 9:50
542061	Jefferson	38	628	7/20/23 21:38	7/21/23 8:06
543676	Huntingdon	3	625	7/21/23 6:37	7/21/23 17:02
546202	Huntingdon	19	624	7/20/23 23:51	7/21/23 10:15
543847	Jefferson	12	620	7/21/23 7:08	7/21/23 17:28
544282	Jefferson	1	620	7/21/23 8:50	7/21/23 19:10
542345	Jefferson	19	616	7/20/23 22:45	7/21/23 9:01
544593	Huntingdon	79	616	7/20/23 23:59	7/21/23 10:15
542345	Jefferson	4	614	7/20/23 22:45	7/21/23 8:59
546583	Blair	10	613	7/22/23 0:17	7/22/23 10:30
546546	Crawford	4	613	7/21/23 23:27	7/22/23 9:40
543913	Cambria	4	609	7/21/23 7:25	7/21/23 17:34
544859	Cambria	4	609	7/21/23 7:25	7/21/23 17:34
542670	Huntingdon	3	603	7/21/23 0:19	7/21/23 10:22
541051	Erie	5	601	7/20/23 18:12	7/21/23 4:13
547446	Huntingdon	1	578	7/22/23 12:54	7/22/23 22:32
542754	Mckean	3	577	7/21/23 0:40	7/21/23 10:17
543952	Bedford	2	575	7/20/23 23:50	7/21/23 9:25
542159	Clearfield	4	574	7/20/23 22:05	7/21/23 7:39
543546	Clearfield	1	573	7/21/23 5:57	7/21/23 15:30
546202	Huntingdon	6	564	7/21/23 9:50	7/21/23 19:14
542276	Clearfield	30	564	7/20/23 22:46	7/21/23 8:10
542802	Franklin	5	561	7/21/23 1:06	7/21/23 10:27
542736	Cumberland	65	556	7/21/23 0:50	7/21/23 10:06
542732	Wyoming	1	540	7/21/23 0:46	7/21/23 9:46
544550	Clarion	5	540	7/21/23 9:40	7/21/23 18:40
542613	Huntingdon	17	528	7/20/23 23:51	7/21/23 8:39
546978	Susquehanna	12	526	7/22/23 0:24	7/22/23 9:10

Penelec Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
542074	Clearfield	1	525	7/20/23 21:40	7/21/23 6:25
544259	Venango	7	521	7/21/23 8:44	7/21/23 17:25
542722	Cumberland	94	520	7/21/23 0:40	7/21/23 9:20
542622	Clearfield	12	518	7/20/23 23:53	7/21/23 8:31
542482	Blair	29	509	7/20/23 23:23	7/21/23 7:52
541109	Erie	10	496	7/20/23 19:23	7/21/23 3:39
542656	Blair	52	494	7/21/23 0:16	7/21/23 8:30
542681	Franklin	231	493	7/21/23 0:18	7/21/23 8:31
543588	Cumberland	4	491	7/21/23 2:47	7/21/23 10:58
541602	Erie	17	491	7/20/23 20:25	7/21/23 4:36
545011	Blair	2	476	7/21/23 8:02	7/21/23 15:58
543679	Crawford	9	476	7/21/23 6:37	7/21/23 14:33
543900	Clearfield	10	474	7/21/23 7:21	7/21/23 15:15
542615	Somerset	73	474	7/20/23 23:43	7/21/23 7:37
542132	Clearfield	10	470	7/21/23 7:25	7/21/23 15:15
540838	Erie	424	469	7/20/23 18:32	7/21/23 2:21
540797	Erie	38	466	7/20/23 18:02	7/21/23 1:48
542610	Bedford	360	466	7/20/23 23:50	7/21/23 7:36
541816	Jefferson	13	465	7/20/23 20:55	7/21/23 4:40
543397	Bedford	16	462	7/21/23 5:12	7/21/23 12:54
546583	Blair	152	462	7/22/23 0:17	7/22/23 7:59
544862	Lycoming	5	457	7/21/23 8:08	7/21/23 15:45
542734	Susquehanna	16	456	7/21/23 0:48	7/21/23 8:24
542498	Somerset	34	456	7/20/23 23:24	7/21/23 7:00
541513	Erie	5	453	7/20/23 20:12	7/21/23 3:45
545672	Indiana	1	452	7/21/23 13:29	7/21/23 21:01
544933	Tioga	2	450	7/21/23 7:36	7/21/23 15:06
546576	Somerset	15	448	7/22/23 0:06	7/22/23 7:34
548119	Tioga	9	442	7/22/23 4:55	7/22/23 12:17
544154	Erie	1	441	7/21/23 8:29	7/21/23 15:50
544362	Erie	121	435	7/21/23 2:50	7/21/23 10:05
546914	Jefferson	1	435	7/22/23 4:22	7/22/23 11:37
543037	Warren	340	434	7/20/23 19:19	7/21/23 2:33
541091	Warren	184	434	7/20/23 19:19	7/21/23 2:33
543066	Somerset	7	431	7/21/23 2:44	7/21/23 9:55
544928	Huntingdon	1	428	7/21/23 11:15	7/21/23 18:23
541155	Erie	37	423	7/20/23 19:12	7/21/23 2:15

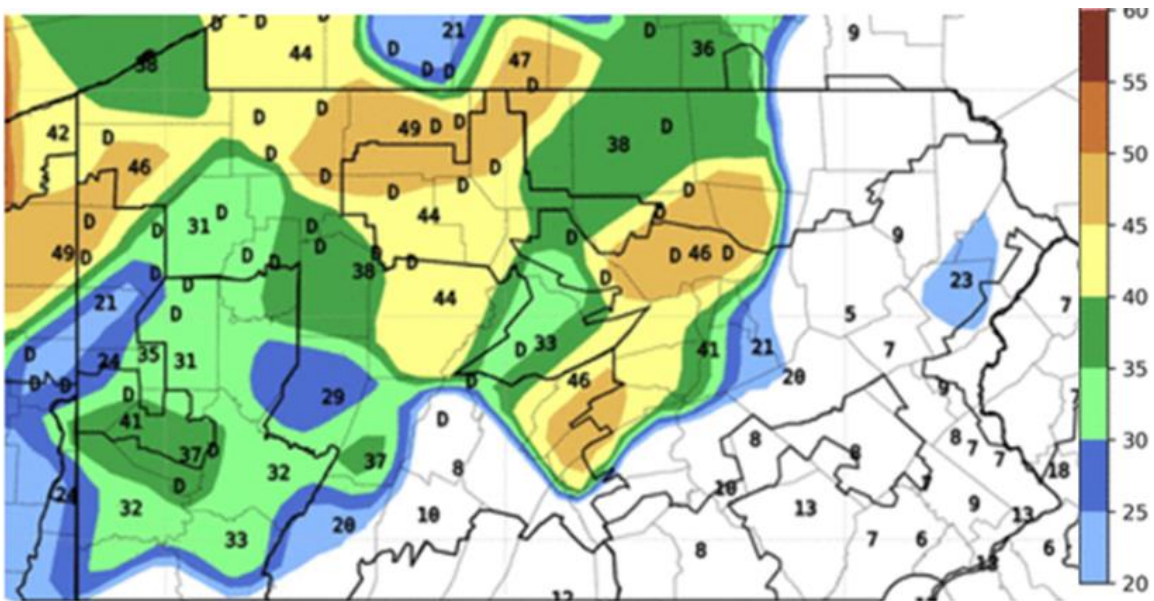
Penelec Storm Report

Order #	Approximate Location (County)	Total Number of Customers Affected	Duration of the Outage (minutes)	Initial Date and Time of the Outage	Restoration Date and Time
546880	Warren	6	419	7/21/23 21:40	7/22/23 4:39
542570	Somerset	9	418	7/20/23 23:37	7/21/23 6:35
540938	Erie	32	417	7/20/23 18:57	7/21/23 1:54
545079	Bradford	37	417	7/21/23 4:58	7/21/23 11:55
543343	Sullivan	37	417	7/21/23 4:58	7/21/23 11:55
540447	Erie	1	415	7/20/23 14:05	7/20/23 21:00
544362	Erie	36	408	7/21/23 2:50	7/21/23 9:38
542591	Blair	909	406	7/20/23 23:43	7/21/23 6:29
541987	Jefferson	7	404	7/20/23 20:55	7/21/23 3:39
541222	Crawford	18	398	7/20/23 19:36	7/21/23 2:14
544645	Venango	6	396	7/21/23 11:04	7/21/23 17:40
542918	Warren	699	393	7/20/23 19:29	7/21/23 2:02
543921	Bedford	4	386	7/21/23 7:29	7/21/23 13:55
545137	Bedford	2	386	7/21/23 7:29	7/21/23 13:55
543288	Clearfield	449	379	7/21/23 4:14	7/21/23 10:33
546150	Mckean	1	378	7/21/23 19:13	7/22/23 1:31
548119	Tioga	46	376	7/22/23 4:55	7/22/23 11:11
548099	Tioga	192	376	7/23/23 4:55	7/23/23 11:11
542662	Venango	33	375	7/20/23 19:33	7/21/23 1:48
543132	Erie	63	374	7/21/23 2:50	7/21/23 9:04
542880	Cambria	1	370	7/21/23 1:20	7/21/23 7:30
545900	Jefferson	1	368	7/21/23 10:02	7/21/23 16:10
542949	Mckean	40	366	7/20/23 20:23	7/21/23 2:29

**Attachment B: Precipitation Reports**

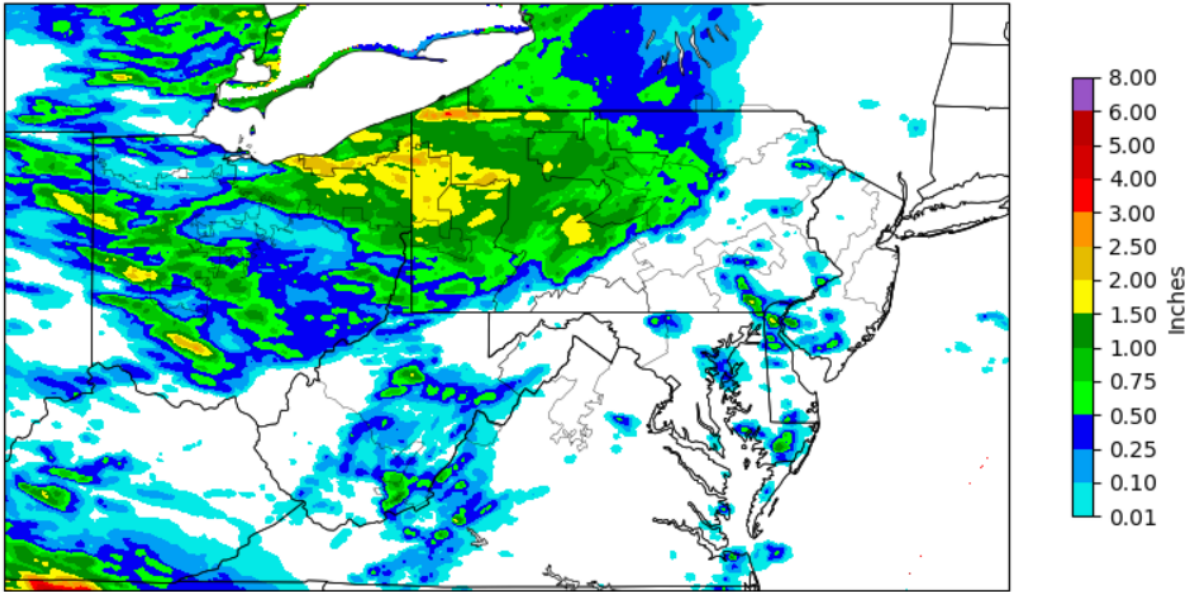
**Wind & Precipitation Reports:** Graphic 1 the maximum wind gusts in the Penelec service territory on July 20, 2023. Graphic 2 illustrates the 24-Hour Total Precipitation in the Penelec service territory on July 20, 2023. The graphics are from the National Oceanic and Atmospheric Administration (“NOAA”).

**Graphic 1: Wind Speeds: Thursday, July 20, 2023**

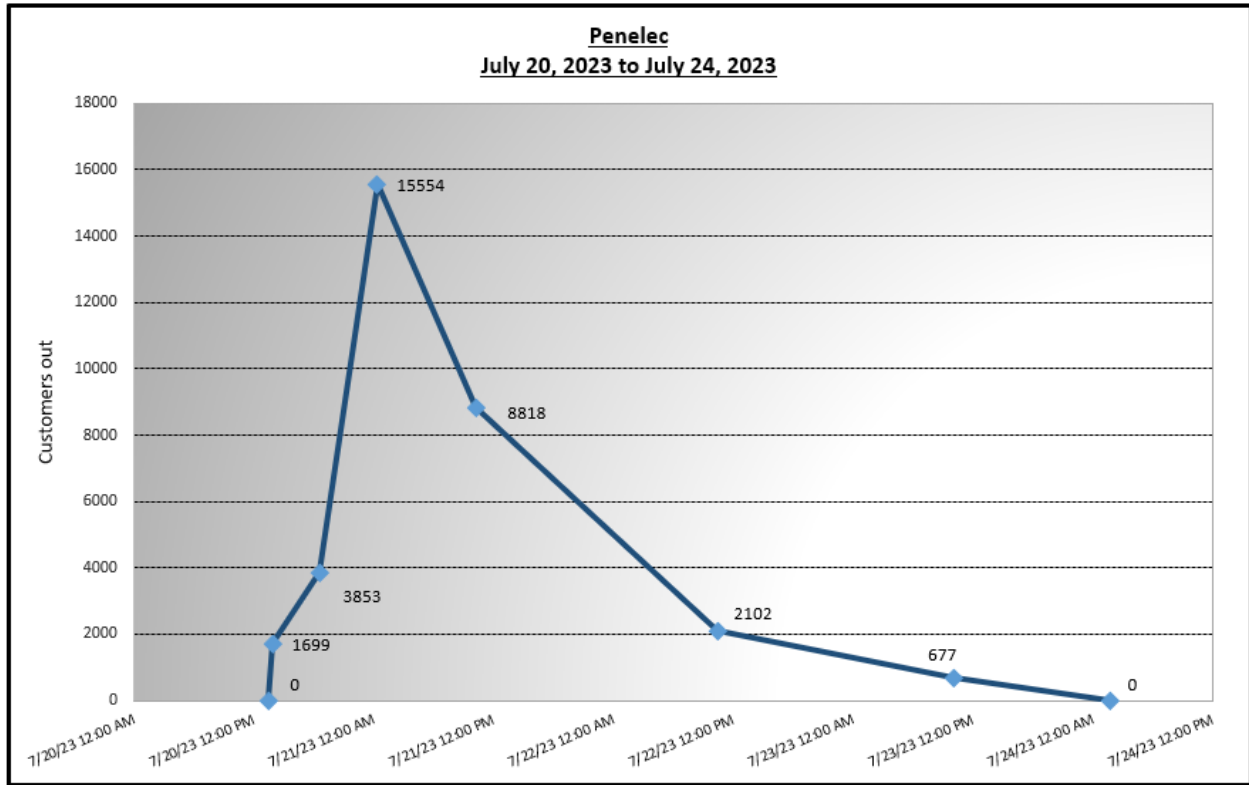


**Graphic 2: 24-Hour Total Precipitation: Thursday, July 20, 2023**

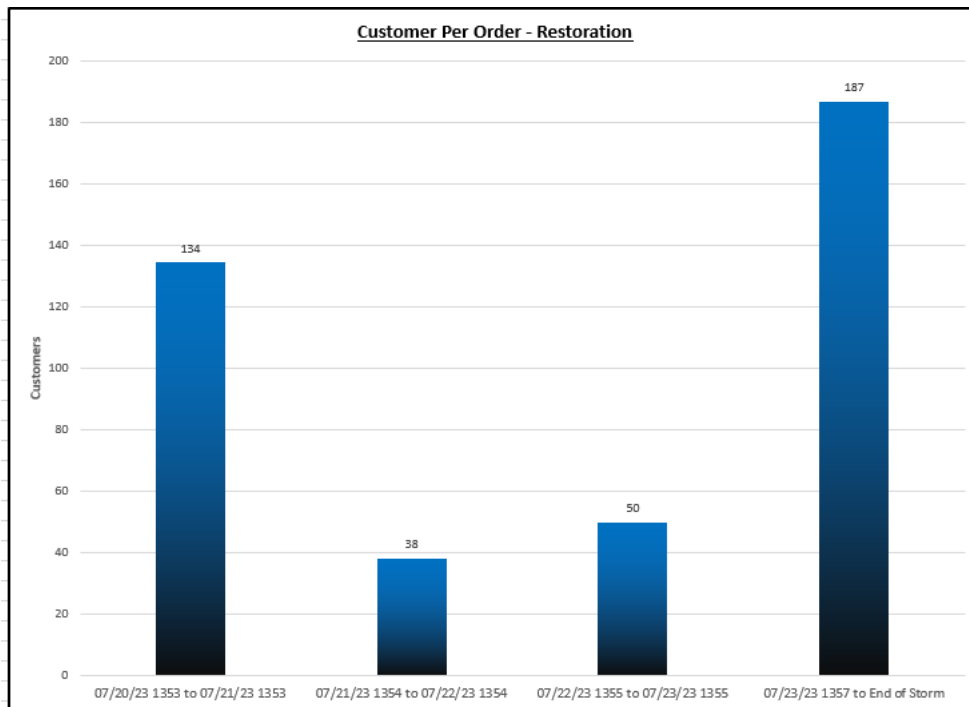
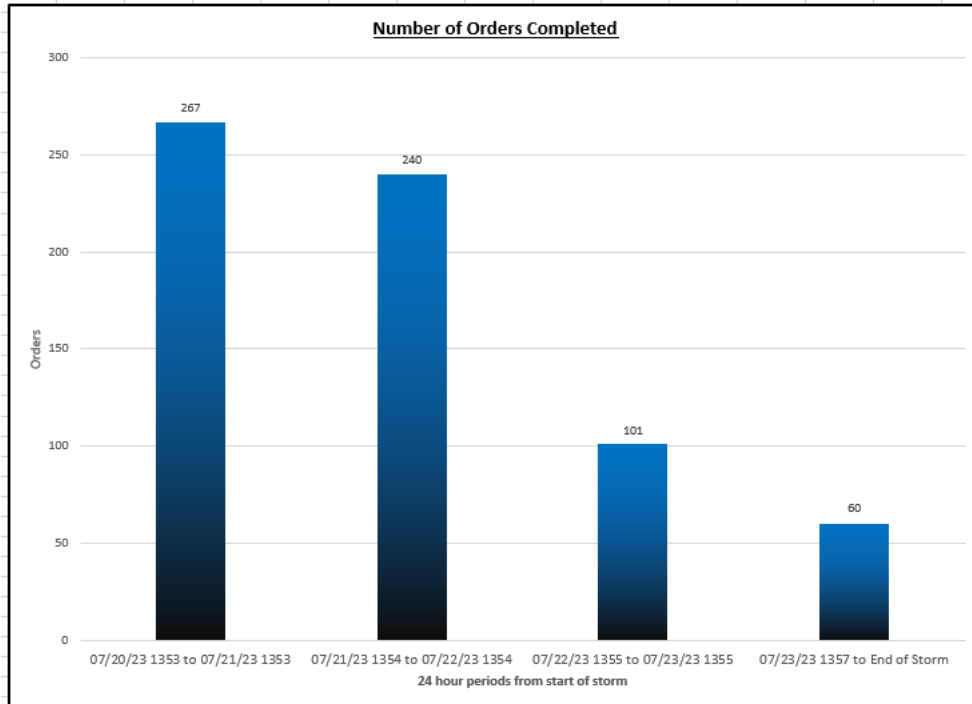
24 Hour Total Precipitation (Liquid Equivalent) for 20230720 from NOAA StageIV



Attachment C: Restoration Curve



**Attachment D: Order Restoration Graphs**

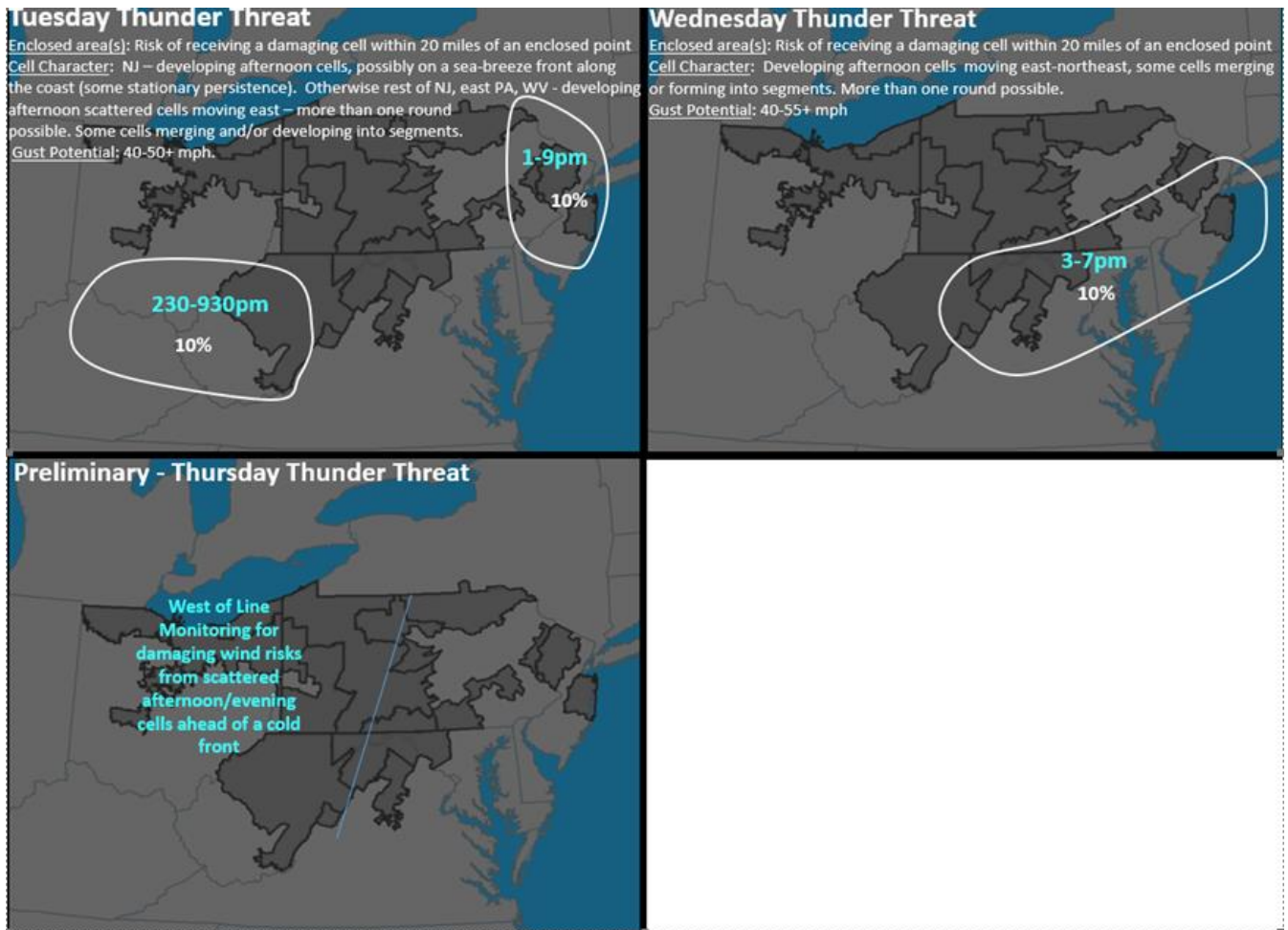


Attachment E: Meteorologist Reports

**Tuesday, July 18, 2023 @ 0852**

1. Today: Added area in WV. Confidence is above normal that there will be activity, and near normal regarding risk levels.
2. Wednesday: Added threat for southeast/east FE. Confidence is above normal cells will form in the outlined area, but slightly below normal for risk levels of damage.
3. Thursday: Added indication of threat from an approaching cold front. Confidence is normal for this panel.

**Next Update:** Wed 11am  
Manousos – 330 396 0059  
Workoff – 716 397 4430



**Wednesday, July 20, 2023 @ 0947**

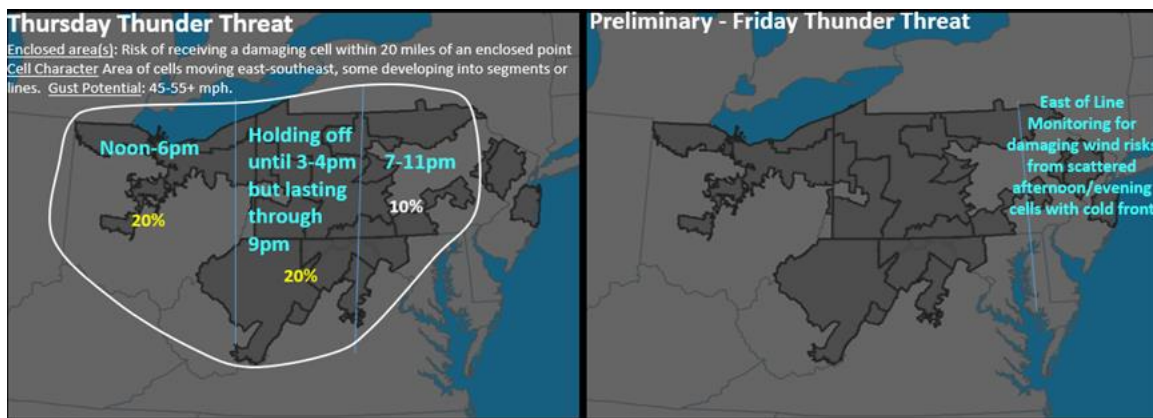
**Changes:**

1. Today: Removed threat.
2. Thursday: Added details of threat level and timing with storms ahead of a front. Confidence is above normal cells will form and push through the outlined area, but slightly below normal with coverage and hence risk levels of damage.
3. Friday: Added indication of residual threat from the. Confidence is normal for this panel.

**Next Update – Thu 11am**

Manousos – 330 396 0059

Workoff – 716 397 4430



**Thursday, July 20, 2023 @ 0913**

**Changes:**

- Separated today into two separate thunderstorm threats, 1) this afternoon across portions of western FE, and 2) a more legitimate threat this evening and overnight for most portions of the northern half of FE as a cold front moves east.
- Extended threat this evening/overnight eastward to include areas of central/eastern PA and NJ.
- Slight increase in severe storm/wind damage potential with the evening/overnight storms across portions OH and western PA.
- Added an area on Friday for scattered severe storm potential across areas of far eastern PA and NJ.

**Notes:**

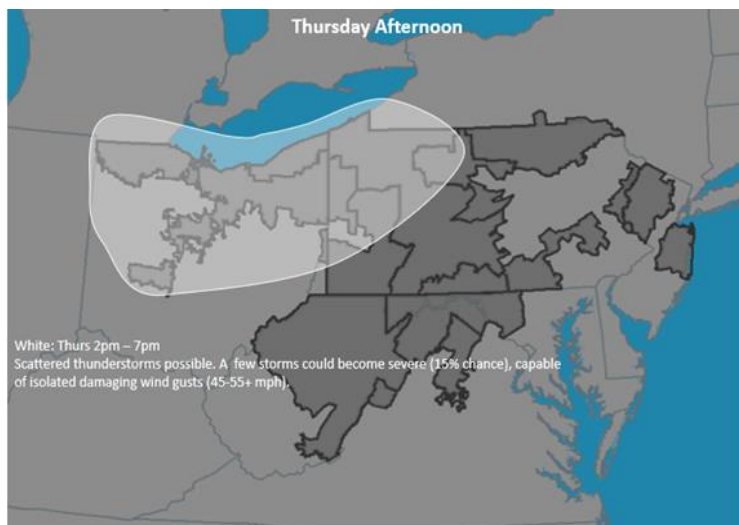
- The timing and intensity of the storms this evening/overnight are still a bit uncertain, as any storms that may develop this afternoon could impact the threat of later storms associated with the cold front. Additional updated alerts may be warranted to change or update the situation.
- Conditions will support at least an isolated damaging wind threat overnight as storms move eastward, even in the early morning hours.
- A round of storms may re-develop mid-day Friday in eastern PA and NJ—although this threat is at least partially tied to overnight activity, and therefore remains a bit uncertain.

See graphics below for further information.

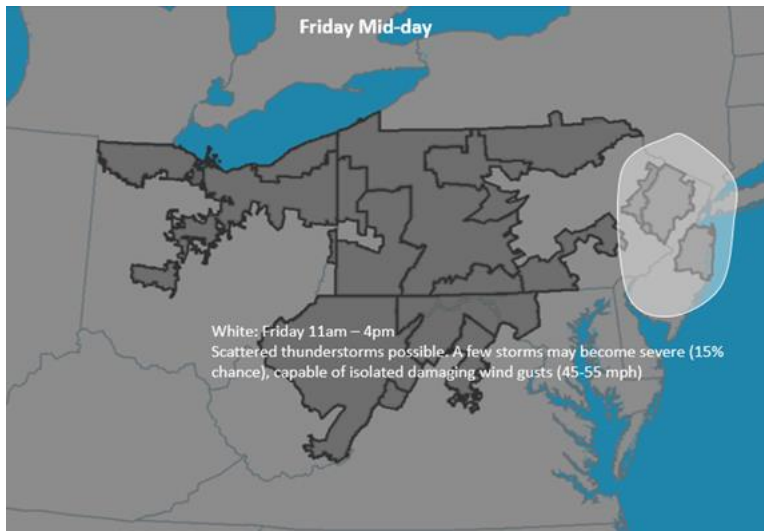
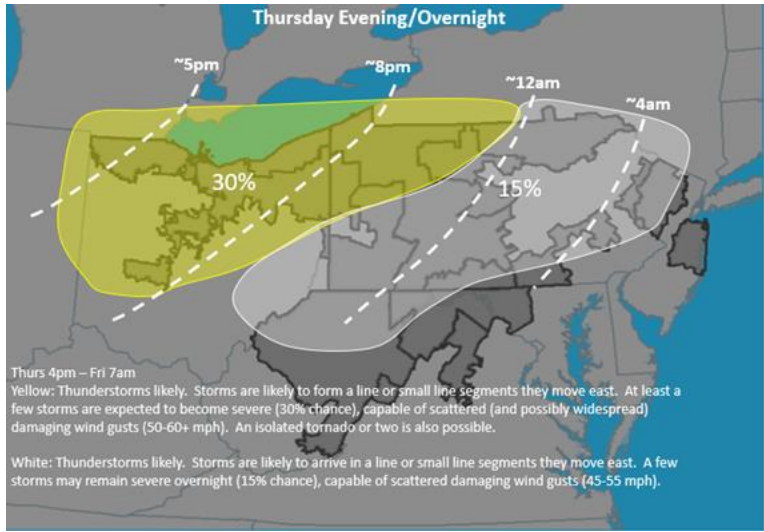
**Next Update by 11am Friday**

Workoff – 716 397 4430

Manousos – 330 396 0059



# Penelec Storm Report



**Thursday, July 20, 2023 @ 1640**

**Changes:**

- Only update this evening is raise risk for severe storms with damaging wind gusts for areas of northeast OH and northwest PA. A line of severe storms has developed over Michigan this afternoon, and will cross Lake Erie and impact these areas later this evening. This line will bring the potential for both widespread and significant (60+ mph) damaging wind gusts.

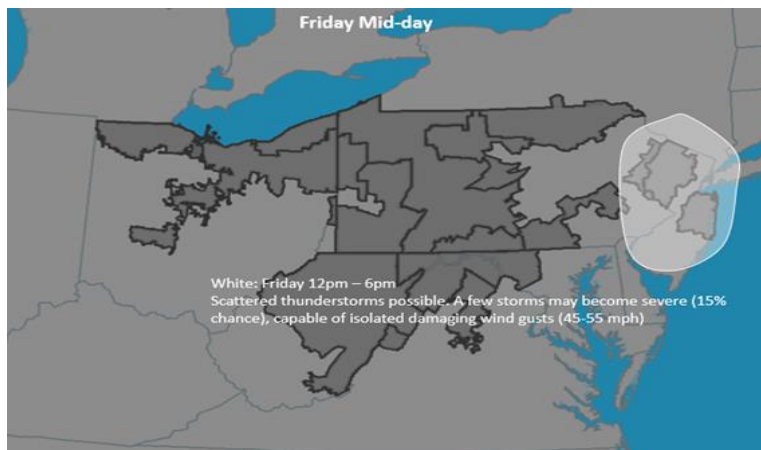
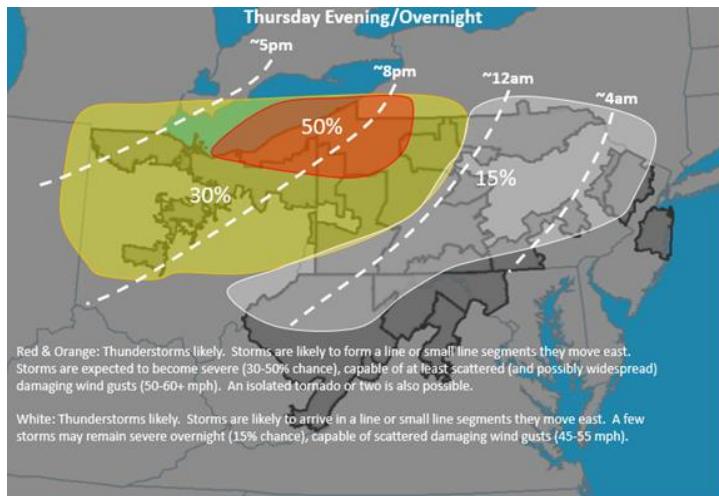
Otherwise, there are no major changes to other areas of the forecast for this evening for tomorrow at this time. Only small adjustment is to timing of potential storms Friday afternoon across eastern PA and NJ.

See graphics below for further information.

**Next Update by 11am Friday**

Workoff – 716 397 4430

Manousos – 330 396 0059



**Friday, July 21, 2023 @ 0856**

**Changes:**

- No major changes today. Just slight updates to threat area and timing. Scattered strong thunderstorms remain possible across far eastern FE this afternoon.

See graphic below for further information.

**Next Update by 11am Friday**

Workoff – 716 397 4430

Manousos – 330 396 0059

