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December 29, 2021

VIA E-FILING

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
Commonwealth Keystone Building
400 North Street, 2nd 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 December 11, 2021 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) 921-6783.

Sincerely,



Tori L. Giesler

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 Bidelsbach – PaPUC Bureau of Technical Utility Services (via electronic mail)

(c) Approximate number of outages for each county affected during the event:

County	Outages	Outage Cases	Trouble Cases
Bedford	409	9	1
Blair	274	13	15
Bradford	1,566	48	27
Cambria	1,640	15	43
Centre	39	3	3
Clarion	492	15	17
Clearfield	608	29	21
Crawford	2,443	24	38
Cumberland	14	2	1
Erie	7,933	172	367
Forest	737	15	7
Franklin	20	1	0
Huntingdon	841	6	2
Indiana	1,295	37	13
Jefferson	1,675	18	8
Lycoming	9	1	0
McKean	1,079	19	17
Mifflin	92	6	9
Perry	27	2	1
Potter	903	8	7
Somerset	757	12	9
Sullivan	97	11	2
Susquehanna	727	42	33
Tioga	850	18	15
Venango	790	36	34
Warren	2,751	26	27
Wayne	15	3	1
Westmoreland	7	1	0
Wyoming	1,765	33	23
Total	29,855	625	741

(d) Approximate number of outage cases exceeding 6 or more hours in duration: 329

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

(d) Reason for the interruption or outages: Beginning Saturday evening, December 11, 2021, a slow-moving cold front producing thunderstorms, rain showers and wind gusts, moved

from west to east across Pennsylvania including the Penelec service territory. Wind gusts in the Penelec service territory exceeded 60-miles per hour on December 11, 2021. See Attachment B for the maximum wind gusts and 24-hour total precipitation for December 11, 2021.

Damage as a result of the high winds included downed trees and power lines, broken poles, and damaged equipment. The Erie, Warren, and Crawford areas were the hardest hit areas. Approximately 57% of the total outages were tree related and 21% of the total outages were wind related. Additionally, a crane needed to be brought in to assist forestry with tree removal.

Preliminary data indicate the reliability impact of the storm was 17.0 minutes of SAIDI, 0.05 of SAIFI, and an overall storm CAIDI of 331.1 minutes.

- (g) Projected time of restoration: It was estimated that the majority of customers would be restored by 2300 on December 12, 2021. The Erie District was estimated to be restored by 1600 on December 13. The Oil City and Montrose Districts were estimated to be restored by 2300 on December 13.

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

- (h) 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	231	Line Workers
Subtotal	231	
Henkels & McCoy	28	Line Contractor
Thayer PC	10	Line Contractor
Subtotal	38	
Asplundh	26	
Davey Tree	8	Forestry Contractor
Hazlett Tree	6	Forestry Contractor
Lewis Tree Service	6	Forestry Contractor
PennLine Services	29	Forestry Contractor
TreeSmiths	22	Forestry Contractor
Subtotal	97	
Penelec	36	Hazard / Damage Assessors
Subtotal	36	
Penelec	108	Supporting Roles

Subtotal	108	
Grand Total	510	

- (i) The date and time of the first information of a service interruption: December 11, 2021 at 0409.
- (j) The date and time that repair crews were assembled: Crews were on duty and pre staged in anticipation of the inclement weather with additional crews brought in to support restoration.
- (k) The actual time that service was restored to the last affected customer: December 14, 2021 at 1220. In addition, Penelec was able to restore approximately 76.6% of the impacted customers in less than six hours from the time of interruption.
- (l) A general description of the physical damage sustained by the utility facilities as a result of the interruption/outage:

Equipment	Number
Primary Spans Down	191
Secondary Spans Replaced	150
Crossarms Replaced	48
Cutouts Replaced	74
Poles Replaced	37
Transformers Replaced	20
Wire & Cable Replaced (feet)	6,520

- (m) 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.

- (n) 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 not exceed 10% or more of customers in the utility’s entire service territory.

Penelec Storm Report

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 information¹:

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
11862357-1	Erie	34	3,501	12/11/2021 1624	12/14/2021 0245
11866730-1	Erie	3	3,278	12/11/2021 1608	12/13/2021 2246
11863436-1	Erie	1	3,184	12/11/2021 1520	12/13/2021 2024
11862723-2	Erie	1	3,179	12/11/2021 1724	12/13/2021 2223
11861986-2	Erie	1	3,170	12/11/2021 1442	12/13/2021 1932
11863640-6	Erie	4	3,040	12/11/2021 1355	12/13/2021 1635
11865277-2	Erie	1	2,946	12/11/2021 1355	12/13/2021 1501
11865902-1	Erie	1	2,946	12/11/2021 1642	12/13/2021 1748
11865902-1	Erie	8	2,946	12/11/2021 1642	12/13/2021 1748
11865902-1	Erie	4	2,946	12/11/2021 1642	12/13/2021 1748
11862284-3	Erie	3	2,922	12/11/2021 1602	12/13/2021 1644
11862287-2	Erie	2	2,871	12/11/2021 1443	12/13/2021 1434
11863098-2	Erie	1	2,857	12/11/2021 1509	12/13/2021 1446
11863803-2	Susquehanna	9	2,788	12/11/2021 2057	12/13/2021 1925
11863798-2	Wyoming	1	2,768	12/11/2021 2056	12/13/2021 1904
11862287-2	Erie	6	2,742	12/11/2021 1443	12/13/2021 1225
11866662-1	Venango	1	2,670	12/11/2021 1725	12/13/2021 1355
11862608-2	Erie	2	2,654	12/11/2021 1701	12/13/2021 1315
11864161-2	Clearfield	1	2,640	12/11/2021 1815	12/13/2021 1415
11862186-2	Erie	18	2,626	12/11/2021 1540	12/13/2021 1126
11864211-4	Venango	1	2,607	12/11/2021 2213	12/13/2021 1740
11863978-1	Wyoming	1	2,594	12/11/2021 2120	12/13/2021 1634
11863311-3	Susquehanna	1	2,593	12/11/2021 1937	12/13/2021 1450
11862448-1	Clarion	4	2,584	12/11/2021 1641	12/13/2021 1145
11862448-1	Clarion	2	2,584	12/11/2021 1641	12/13/2021 1145
11862987-4	Indiana	2	2,575	12/11/2021 1812	12/13/2021 1307
11864902-1	Wyoming	8	2,557	12/11/2021 1826	12/13/2021 1303
11864885-1	Wyoming	7	2,554	12/11/2021 2018	12/13/2021 1452
11863798-2	Wyoming	4	2,534	12/12/2021 0050	12/13/2021 1904
11862493-2	Erie	1	2,523	12/11/2021 1642	12/13/2021 1045
11866513-1	Wyoming	1	2,503	12/11/2021 2017	12/13/2021 1400
11864525-4	Tioga	1	2,475	12/11/2021 1824	12/13/2021 1139
11863404-1	Susquehanna	1	2,453	12/11/2021 1957	12/13/2021 1250

¹ 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
11865174-1	Erie	4	2,438	12/11/2021 1552	12/13/2021 0830
11862930-2	Venango	1	2,434	12/11/2021 1816	12/13/2021 1050
11862987-3	Indiana	1	2,424	12/11/2021 1812	12/13/2021 1036
11862769-3	Erie	1	2,421	12/11/2021 1732	12/13/2021 0953
11863253-1	Susquehanna	8	2,403	12/11/2021 1921	12/13/2021 1124
11863379-2	Sullivan	1	2,386	12/11/2021 1948	12/13/2021 1134
11865245-2	Lycoming	9	2,369	12/11/2021 2151	12/13/2021 1320
11863426-3	Wyoming	1	2,368	12/11/2021 2007	12/13/2021 1135
11865126-1	Susquehanna	23	2,356	12/11/2021 1924	12/13/2021 1040
11862252-3	Erie	3	2,295	12/11/2021 1600	12/13/2021 0615
11863993-1	Bradford	2	2,252	12/11/2021 2123	12/13/2021 1055
11862057-2	Clarion	8	2,240	12/11/2021 1510	12/13/2021 0430
11866743-1	Erie	1	2,234	12/12/2021 1029	12/13/2021 2343
11862643-1	Crawford	1	2,228	12/11/2021 1707	12/13/2021 0615
11865395-2	Wayne	6	2,180	12/11/2021 2237	12/13/2021 1057
11862366-3	Jefferson	1	2,149	12/11/2021 1628	12/13/2021 0417
11862150-2	Erie	9	2,144	12/11/2021 1534	12/13/2021 0318
11862205-3	Erie	1	2,120	12/11/2021 1545	12/13/2021 0305
11865074-2	Erie	1	2,068	12/12/2021 0832	12/13/2021 1900
11864463-2	Forest	22	2,052	12/11/2021 1551	12/13/2021 0203
11862365-2	Clearfield	1	1,981	12/11/2021 1625	12/13/2021 0126
11863315-1	Sullivan	4	1,966	12/11/2021 1937	12/13/2021 0423
11862726-1	Venango	1	1,930	12/11/2021 1725	12/13/2021 0135
11862621-2	Erie	1	1,926	12/11/2021 1703	12/13/2021 0109
11862050-1	Clarion	25	1,890	12/11/2021 1505	12/12/2021 2235
11862306-1	Erie	5	1,885	12/11/2021 1615	12/12/2021 2340
11864901-2	Wyoming	1	1,880	12/12/2021 0655	12/13/2021 1415
11862689-2	Jefferson	31	1,868	12/11/2021 1712	12/13/2021 0020
11865726-1	Erie	2	1,820	12/11/2021 1406	12/12/2021 2026
11862048-2	Erie	6	1,781	12/11/2021 1449	12/12/2021 2030
11861961-1	Erie	10	1,775	12/11/2021 1427	12/12/2021 2002
11861976-2	Erie	11	1,763	12/11/2021 1432	12/12/2021 1955
11862246-1	Venango	1	1,762	12/11/2021 1556	12/12/2021 2118
11862492-2	Clarion	1	1,729	12/11/2021 1643	12/12/2021 2132
11865547-1	Susquehanna	1	1,729	12/12/2021 1233	12/13/2021 1722
11862265-1	Venango	13	1,724	12/11/2021 1554	12/12/2021 2038
11862449-1	Venango	1	1,721	12/11/2021 1641	12/12/2021 2122
11865423-2	Bradford	1	1,692	12/12/2021 1133	12/13/2021 1545

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
11861879-2	Erie	1	1,691	12/11/2021 1359	12/12/2021 1810
11861879-2	Erie	11	1,691	12/11/2021 1359	12/12/2021 1810
11861879-2	Erie	1	1,691	12/11/2021 1359	12/12/2021 1810
11862232-2	Erie	1	1,689	12/11/2021 1552	12/12/2021 2001
11864518-1	Clearfield	1	1,683	12/11/2021 1742	12/12/2021 2145
11862941-2	Jefferson	1	1,673	12/11/2021 1819	12/12/2021 2212
11862201-2	Venango	4	1,669	12/11/2021 1544	12/12/2021 1933
11862697-3	Indiana	1	1,665	12/11/2021 1717	12/12/2021 2102
11865394-1	Susquehanna	11	1,662	12/12/2021 1118	12/13/2021 1500
11865405-2	Wyoming	1	1,661	12/12/2021 1124	12/13/2021 1505
11861868-3	Erie	21	1,656	12/11/2021 1355	12/12/2021 1731
11862230-1	Crawford	15	1,656	12/11/2021 1552	12/12/2021 1928
11863595-1	Clarion	11	1,655	12/11/2021 1635	12/12/2021 2010
11862328-1	Clarion	98	1,653	12/11/2021 1617	12/12/2021 1950
11864751-1	Susquehanna	10	1,653	12/11/2021 1937	12/12/2021 2310
11861879-2	Erie	26	1,650	12/11/2021 1440	12/12/2021 1810
11865394-1	Susquehanna	1	1,647	12/12/2021 1133	12/13/2021 1500
11864036-1	Erie	19	1,615	12/11/2021 1511	12/12/2021 1806
11864971-3	Susquehanna	14	1,612	12/12/2021 0805	12/13/2021 1057
11862941-2	Jefferson	12	1,582	12/11/2021 1950	12/12/2021 2212
11862537-2	Erie	1	1,560	12/11/2021 1653	12/12/2021 1853
11865099-2	Forest	10	1,554	12/12/2021 0846	12/13/2021 1040
11862458-3	Forest	116	1,547	12/11/2021 1629	12/12/2021 1816
11863082-3	Wyoming	4	1,544	12/11/2021 1840	12/12/2021 2024
11862307-1	Venango	7	1,522	12/11/2021 1615	12/12/2021 1737
11865757-1	Venango	2	1,520	12/11/2021 1740	12/12/2021 1900
11862777-2	Jefferson	1	1,510	12/11/2021 1703	12/12/2021 1813
11864133-2	Wyoming	1	1,502	12/11/2021 2158	12/12/2021 2300
11865473-2	Bradford	6	1,499	12/12/2021 1207	12/13/2021 1306
11862607-1	Erie	1	1,489	12/11/2021 1701	12/12/2021 1750
11862527-2	Erie	25	1,488	12/11/2021 1642	12/12/2021 1730
11862527-2	Erie	11	1,488	12/11/2021 1642	12/12/2021 1730
11865096-1	Erie	1	1,481	12/11/2021 1719	12/12/2021 1800
11863704-1	Bradford	128	1,479	12/11/2021 2032	12/12/2021 2111
11865174-1	Erie	33	1,470	12/12/2021 0800	12/13/2021 0830
11863125-2	Clearfield	127	1,460	12/11/2021 1848	12/12/2021 1908
11862634-2	Crawford	10	1,459	12/11/2021 1706	12/12/2021 1725
11862271-1	Venango	26	1,447	12/11/2021 1607	12/12/2021 1614

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
11863490-1	Erie	1	1,442	12/11/2021 2023	12/12/2021 2025
11862527-2	Erie	34	1,440	12/11/2021 1730	12/12/2021 1730
11862531-2	Indiana	49	1,427	12/11/2021 1649	12/12/2021 1636
11862414-1	Forest	36	1,423	12/11/2021 1632	12/12/2021 1615
11862753-2	Crawford	4	1,419	12/11/2021 1729	12/12/2021 1708
11862361-2	Erie	38	1,415	12/11/2021 1615	12/12/2021 1550
11862785-2	McKean	1	1,413	12/11/2021 1737	12/12/2021 1710
11863269-1	Erie	1	1,404	12/11/2021 1758	12/12/2021 1722
11865395-2	Wayne	5	1,402	12/12/2021 1135	12/13/2021 1057
11862778-2	Potter	1	1,396	12/11/2021 1734	12/12/2021 1650
11864545-1	Erie	7	1,392	12/11/2021 1354	12/12/2021 1306
11863318-1	Susquehanna	2	1,386	12/11/2021 1938	12/12/2021 1844
11862638-1	Forest	6	1,384	12/11/2021 1706	12/12/2021 1610
11862653-3	Cambria	1	1,376	12/11/2021 1709	12/12/2021 1605
11863012-3	Tioga	43	1,359	12/11/2021 1824	12/12/2021 1703
11862357-1	Erie	30	1,346	12/11/2021 1624	12/12/2021 1450
11862109-2	Venango	78	1,341	12/11/2021 1524	12/12/2021 1345
11863301-1	Susquehanna	7	1,341	12/11/2021 1927	12/12/2021 1748
11863061-2	Clearfield	6	1,337	12/11/2021 1833	12/12/2021 1650
11865475-1	Warren	1	1,332	12/11/2021 1638	12/12/2021 1450
11863246-1	Susquehanna	11	1,322	12/11/2021 1920	12/12/2021 1722
11861948-2	Erie	64	1,321	12/11/2021 1422	12/12/2021 1223
11861972-1	Crawford	1	1,320	12/11/2021 1434	12/12/2021 1234
11862968-2	Bedford	3	1,320	12/11/2021 1816	12/12/2021 1616
11865506-2	Potter	6	1,311	12/11/2021 1759	12/12/2021 1550
11865506-2	Potter	4	1,311	12/11/2021 1759	12/12/2021 1550
11862338-2	Warren	16	1,307	12/11/2021 1616	12/12/2021 1403
11862821-1	Erie	34	1,305	12/11/2021 1800	12/12/2021 1545
11862629-1	Potter	2	1,303	12/11/2021 1704	12/12/2021 1447
11862613-2	Indiana	4	1,299	12/11/2021 1702	12/12/2021 1441
11862494-3	Erie	62	1,298	12/11/2021 1644	12/12/2021 1422
11865561-1	Erie	2	1,286	12/11/2021 1634	12/12/2021 1400
11862290-1	Erie	50	1,285	12/11/2021 1610	12/12/2021 1335
11862521-1	Erie	1	1,283	12/11/2021 1651	12/12/2021 1414
11865516-1	Wyoming	147	1,282	12/11/2021 1656	12/12/2021 1418
11863311-2	Susquehanna	10	1,279	12/11/2021 1937	12/12/2021 1656
11862380-2	Venango	17	1,275	12/11/2021 1607	12/12/2021 1322
11862210-1	Warren	5	1,273	12/11/2021 1547	12/12/2021 1300

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
11862399-2	Jefferson	62	1,266	12/11/2021 1626	12/12/2021 1332
11862802-2	Venango	4	1,265	12/11/2021 1742	12/12/2021 1447
11862332-1	Clarion	23	1,264	12/11/2021 1613	12/12/2021 1317
11865199-1	Bradford	1	1,264	12/11/2021 2101	12/12/2021 1805
11862101-1	Venango	6	1,262	12/11/2021 1523	12/12/2021 1225
11862773-1	McKean	1	1,257	12/11/2021 1733	12/12/2021 1430
11864147-1	Warren	23	1,256	12/11/2021 1604	12/12/2021 1300
11863282-1	Susquehanna	12	1,251	12/11/2021 1929	12/12/2021 1620
11862572-4	Forest	18	1,250	12/11/2021 1629	12/12/2021 1319
11862572-4	Forest	115	1,249	12/11/2021 1629	12/12/2021 1318
11862272-1	Erie	3	1,248	12/11/2021 1607	12/12/2021 1255
11862572-4	Forest	2	1,248	12/11/2021 1629	12/12/2021 1317
11865682-1	Bradford	1	1,241	12/11/2021 2154	12/12/2021 1835
11865682-1	Bradford	8	1,241	12/11/2021 2154	12/12/2021 1835
11864004-1	Wyoming	7	1,239	12/11/2021 2126	12/12/2021 1805
11864762-1	Bradford	1	1,234	12/11/2021 2006	12/12/2021 1640
11862430-2	McKean	2	1,231	12/11/2021 1635	12/12/2021 1306
11863221-1	Erie	26	1,226	12/11/2021 1916	12/12/2021 1542
11864039-3	Bradford	54	1,221	12/11/2021 2108	12/12/2021 1729
11865575-1	Susquehanna	5	1,214	12/11/2021 1948	12/12/2021 1602
11863164-2	Tioga	82	1,208	12/11/2021 1859	12/12/2021 1507
11864917-1	Erie	1	1,207	12/11/2021 1703	12/12/2021 1310
11863040-1	McKean	2	1,207	12/11/2021 1829	12/12/2021 1436
11864326-3	Tioga	1	1,204	12/11/2021 2239	12/12/2021 1843
11863838-1	Susquehanna	13	1,203	12/11/2021 2102	12/12/2021 1705
11864916-1	Wyoming	1	1,201	12/12/2021 0709	12/13/2021 0310
11862615-2	McKean	7	1,188	12/11/2021 1702	12/12/2021 1250
11864944-1	Susquehanna	26	1,184	12/11/2021 2100	12/12/2021 1644
11864429-1	Wyoming	3	1,184	12/11/2021 2304	12/12/2021 1848
11862477-1	Venango	30	1,180	12/11/2021 1612	12/12/2021 1152
11862305-2	Erie	5	1,169	12/11/2021 1613	12/12/2021 1142
11863306-1	Susquehanna	32	1,166	12/11/2021 1935	12/12/2021 1501
11863347-2	Warren	5	1,162	12/11/2021 1942	12/12/2021 1504
11864234-2	McKean	33	1,160	12/11/2021 1636	12/12/2021 1156
11864199-2	Tioga	1	1,159	12/11/2021 2211	12/12/2021 1730
11864271-1	Susquehanna	4	1,152	12/11/2021 2228	12/12/2021 1740
11863064-3	Erie	18	1,148	12/11/2021 1815	12/12/2021 1323
11862987-3	Indiana	1	1,148	12/12/2021 1528	12/13/2021 1036

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
11862580-2	Wyoming	321	1,146	12/11/2021 1656	12/12/2021 1202
11864916-1	Wyoming	1	1,146	12/12/2021 0709	12/13/2021 0215
11865206-1	Sullivan	1	1,144	12/12/2021 0949	12/13/2021 0453
11862572-2	Forest	297	1,142	12/11/2021 1629	12/12/2021 1131
11862274-3	Venango	2	1,138	12/12/2021 1607	12/13/2021 1105
11862673-3	Erie	27	1,133	12/11/2021 1712	12/12/2021 1205
11862858-1	Indiana	5	1,131	12/11/2021 1803	12/12/2021 1254
11863023-1	Tioga	173	1,121	12/11/2021 1824	12/12/2021 1305
11863009-1	Tioga	162	1,121	12/11/2021 1824	12/12/2021 1305
11863012-1	Tioga	119	1,121	12/11/2021 1824	12/12/2021 1305
11864504-1	Erie	1	1,116	12/11/2021 2326	12/12/2021 1802
11862571-1	Jefferson	10	1,113	12/11/2021 1642	12/12/2021 1115
11865672-1	Susquehanna	12	1,113	12/11/2021 2202	12/12/2021 1635
11863057-2	Warren	4	1,109	12/11/2021 1831	12/12/2021 1300
11862338-2	Warren	109	1,104	12/11/2021 1616	12/12/2021 1040
11862655-1	Warren	1	1,100	12/11/2021 1709	12/12/2021 1129
11863951-1	Erie	2	1,091	12/11/2021 2114	12/12/2021 1525
11864379-1	Clarion	12	1,084	12/11/2021 1700	12/12/2021 1104
11862781-1	Crawford	1	1,081	12/11/2021 1734	12/12/2021 1135
11865325-2	Bradford	5	1,077	12/11/2021 2333	12/12/2021 1730
11862422-1	Erie	4	1,059	12/11/2021 1636	12/12/2021 1015
11862606-2	Erie	51	1,059	12/11/2021 1657	12/12/2021 1036
11862282-1	Crawford	1	1,057	12/11/2021 1608	12/12/2021 0945
11862948-2	Warren	7	1,050	12/11/2021 1715	12/12/2021 1045
11862911-2	Bedford	18	1,048	12/11/2021 1812	12/12/2021 1140
11862718-4	McKean	23	1,044	12/11/2021 1653	12/12/2021 1017
11863399-2	Wyoming	52	1,040	12/11/2021 1954	12/12/2021 1314
11862497-1	Erie	2	1,039	12/11/2021 1648	12/12/2021 1007
11862662-1	Warren	30	1,034	12/11/2021 1706	12/12/2021 1020
11863731-1	Bradford	20	1,033	12/11/2021 2032	12/12/2021 1345
11862992-1	Erie	1	1,029	12/11/2021 1826	12/12/2021 1135
11863537-2	Susquehanna	8	1,028	12/11/2021 2030	12/12/2021 1338
11863422-2	Bedford	1	1,025	12/11/2021 2005	12/12/2021 1310
11863409-3	Susquehanna	2	1,021	12/11/2021 1954	12/12/2021 1255
11863500-1	Tioga	1	1,015	12/11/2021 2025	12/12/2021 1320
11862884-1	Clearfield	1	1,014	12/11/2021 1806	12/12/2021 1100
11864161-1	Clearfield	22	999	12/11/2021 1646	12/12/2021 0925
11862673-3	Erie	6	993	12/11/2021 1932	12/12/2021 1205

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
11864337-1	McKean	8	982	12/11/2021 1847	12/12/2021 1109
11862589-1	Westmoreland	7	962	12/11/2021 1658	12/12/2021 0900
11865969-1	Bradford	1	958	12/12/2021 0547	12/12/2021 2145
11863316-1	Susquehanna	11	943	12/11/2021 1927	12/12/2021 1110
11863537-2	Susquehanna	61	942	12/11/2021 2030	12/12/2021 1212
11864799-2	Potter	11	940	12/12/2021 0054	12/12/2021 1634
11862807-1	Jefferson	1	930	12/11/2021 1745	12/12/2021 0915
11862284-3	Erie	12	928	12/11/2021 1602	12/12/2021 0730
11864959-1	Venango	1	923	12/12/2021 0740	12/12/2021 2303
11865321-1	Venango	1	919	12/12/2021 1049	12/13/2021 0208
11862718-4	McKean	5	917	12/11/2021 1900	12/12/2021 1017
11862606-2	Erie	18	911	12/11/2021 1925	12/12/2021 1036
11865991-1	Bradford	2	910	12/12/2021 2110	12/13/2021 1220
11863113-1	Warren	3	907	12/11/2021 1848	12/12/2021 0955
11863280-1	Susquehanna	1	900	12/11/2021 2100	12/12/2021 1200
11864064-1	Wyoming	37	897	12/11/2021 2143	12/12/2021 1240
11863329-2	Susquehanna	78	896	12/11/2021 1935	12/12/2021 1031
11864937-1	Bradford	4	895	12/11/2021 1920	12/12/2021 1015
11863426-2	Wyoming	14	893	12/11/2021 2007	12/12/2021 1100
11863341-2	Wyoming	58	879	12/11/2021 1920	12/12/2021 0959
11863409-2	Susquehanna	89	878	12/11/2021 1954	12/12/2021 1032
11864937-1	Bradford	2	865	12/11/2021 1920	12/12/2021 0945
11862548-2	Erie	12	864	12/11/2021 1654	12/12/2021 0718
11864929-1	Susquehanna	3	860	12/12/2021 0608	12/12/2021 2028
11862898-1	Bradford	13	858	12/11/2021 1810	12/12/2021 0828
11864937-1	Bradford	2	850	12/11/2021 1920	12/12/2021 0930
11864953-1	Bradford	1	848	12/12/2021 0737	12/12/2021 2145
11862936-1	Blair	1	842	12/11/2021 1817	12/12/2021 0819
11865084-2	Erie	2	833	12/12/2021 0837	12/12/2021 2230
11862815-2	Sullivan	18	830	12/11/2021 1748	12/12/2021 0738
11862827-1	Clearfield	1	816	12/11/2021 1754	12/12/2021 0730
11864737-1	Susquehanna	5	812	12/11/2021 1928	12/12/2021 0900
11863186-1	Erie	1	802	12/11/2021 1909	12/12/2021 0831
11863262-1	Susquehanna	28	793	12/11/2021 1921	12/12/2021 0834
11864777-1	Jefferson	19	788	12/11/2021 1646	12/12/2021 0554
11862240-1	Venango	6	778	12/11/2021 1552	12/12/2021 0450
11862701-1	McKean	6	778	12/11/2021 1717	12/12/2021 0615
11864461-3	Clearfield	4	775	12/11/2021 2318	12/12/2021 1213

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
11862843-1	Venango	35	757	12/11/2021 1745	12/12/2021 0622
11865199-1	Bradford	10	754	12/11/2021 2101	12/12/2021 0935
11863589-1	Tioga	16	743	12/11/2021 2037	12/12/2021 0900
11863977-2	Bradford	33	739	12/11/2021 2107	12/12/2021 0926
11866214-1	Erie	1	734	12/13/2021 0821	12/13/2021 2035
11864823-1	McKean	1	717	12/12/2021 0506	12/12/2021 1703
11862549-1	Crawford	1	711	12/11/2021 1654	12/12/2021 0445
11862548-1	Erie	22	708	12/11/2021 1654	12/12/2021 0442
11864842-1	Susquehanna	1	706	12/12/2021 0523	12/12/2021 1709
11863397-1	Susquehanna	18	703	12/11/2021 1935	12/12/2021 0718
11865086-3	Bradford	2	698	12/12/2021 0837	12/12/2021 2015
11863458-1	Erie	1	684	12/11/2021 2015	12/12/2021 0739
11861959-1	Erie	13	681	12/11/2021 1419	12/12/2021 0140
11862234-1	Erie	21	676	12/11/2021 1514	12/12/2021 0230
11864938-1	Wyoming	26	660	12/12/2021 0305	12/12/2021 1405
11862111-1	Crawford	1	641	12/11/2021 1525	12/12/2021 0206
11863461-1	Perry	2	639	12/11/2021 2011	12/12/2021 0650
11865907-1	Wyoming	1	625	12/12/2021 1805	12/13/2021 0430
11862628-1	Jefferson	62	618	12/11/2021 1702	12/12/2021 0320
11863222-1	Jefferson	356	614	12/11/2021 1646	12/12/2021 0300
11865260-1	Susquehanna	11	609	12/12/2021 0740	12/12/2021 1749
11862274-3	Venango	3	594	12/13/2021 0111	12/13/2021 1105
11864919-2	Erie	1	575	12/12/2021 0711	12/12/2021 1646
11863350-1	Clearfield	49	561	12/11/2021 1939	12/12/2021 0500
11865196-2	Erie	1	558	12/12/2021 0942	12/12/2021 1900
11865758-1	Erie	1	550	12/12/2021 1153	12/12/2021 2103
11866634-1	Erie	1	543	12/13/2021 1257	12/13/2021 2200
11865902-1	Erie	56	530	12/13/2021 0858	12/13/2021 1748
11862366-2	Jefferson	461	522	12/11/2021 1625	12/12/2021 0107
11865010-1	Erie	1	520	12/12/2021 0818	12/12/2021 1658
11862708-1	Erie	9	509	12/11/2021 1706	12/12/2021 0135
11863269-1	Erie	27	507	12/11/2021 1758	12/12/2021 0225
11862366-2	Jefferson	258	506	12/11/2021 1628	12/12/2021 0054
11865290-2	Erie	1	505	12/12/2021 1031	12/12/2021 1856
11862706-2	Cambria	3	499	12/11/2021 1719	12/12/2021 0138
11862848-2	Somerset	6	497	12/11/2021 1800	12/12/2021 0217
11863540-1	Jefferson	4	497	12/11/2021 2033	12/12/2021 0450
11864461-1	Clearfield	8	492	12/11/2021 2318	12/12/2021 0730

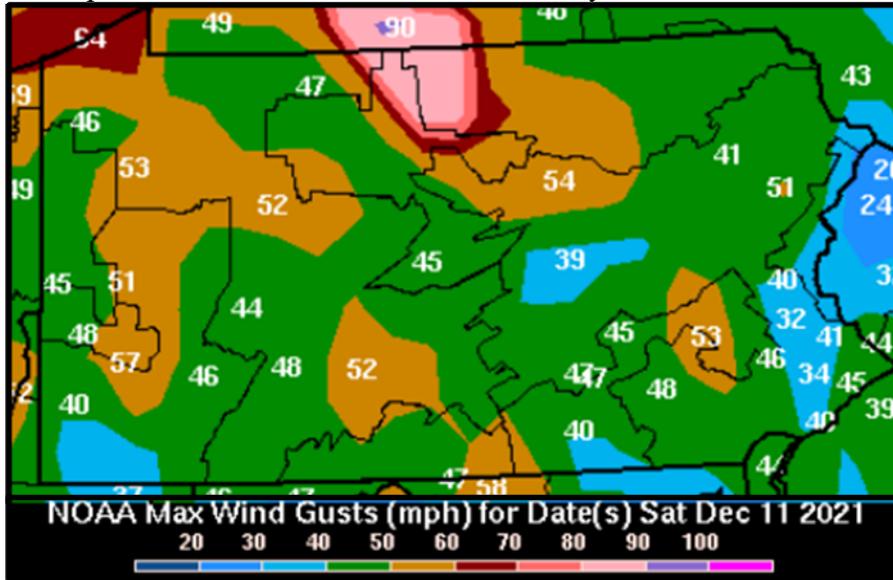
Penelec Storm Report

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
11865656-1	Sullivan	1	492	12/12/2021 1351	12/12/2021 2203
11862856-2	Indiana	6	484	12/11/2021 1800	12/12/2021 0204
11866925-2	Cambria	1	464	12/13/2021 1944	12/14/2021 0328
11866690-2	Warren	3	459	12/13/2021 1345	12/13/2021 2124
11866150-1	Erie	1	458	12/13/2021 0712	12/13/2021 1450
11862540-1	Clearfield	43	451	12/11/2021 1652	12/12/2021 0023
11862968-1	Bedford	177	451	12/11/2021 1816	12/12/2021 0147
11862506-1	Erie	9	446	12/11/2021 1649	12/12/2021 0015
11863461-1	Perry	25	444	12/11/2021 2011	12/12/2021 0335
11865105-2	Tioga	23	439	12/12/2021 0852	12/12/2021 1611
11862151-1	Erie	73	426	12/11/2021 1534	12/11/2021 2240
11863640-1	Erie	6	425	12/11/2021 1355	12/11/2021 2100
11864962-1	Erie	1	425	12/12/2021 0741	12/12/2021 1446
11862489-1	Erie	15	424	12/11/2021 1646	12/11/2021 2350
11862463-1	Sullivan	4	421	12/11/2021 1642	12/11/2021 2343
11866156-1	Erie	1	419	12/13/2021 0714	12/13/2021 1413
11864792-1	Indiana	1	417	12/12/2021 0415	12/12/2021 1112
11862201-1	Venango	173	410	12/11/2021 1815	12/12/2021 0105
11862968-1	Bedford	105	406	12/11/2021 1816	12/12/2021 0102
11866756-1	Wayne	4	397	12/13/2021 1320	12/13/2021 1957
11862305-1	Erie	37	395	12/11/2021 1613	12/11/2021 2248
11866940-1	Erie	1	394	12/13/2021 1608	12/13/2021 2242
11862968-1	Bedford	41	391	12/11/2021 1816	12/12/2021 0047
11861958-1	Erie	1	380	12/11/2021 1426	12/11/2021 2046
11862856-2	Indiana	6	379	12/11/2021 1945	12/12/2021 0204
11865698-1	Tioga	3	375	12/12/2021 1438	12/12/2021 2053
11862739-1	Cambria	1	372	12/11/2021 1728	12/11/2021 2340
11865818-1	Erie	1	371	12/12/2021 1649	12/12/2021 2300
11865917-1	Forest	1	368	12/12/2021 1817	12/13/2021 0025
11862808-2	Clearfield	91	364	12/11/2021 1742	12/11/2021 2346

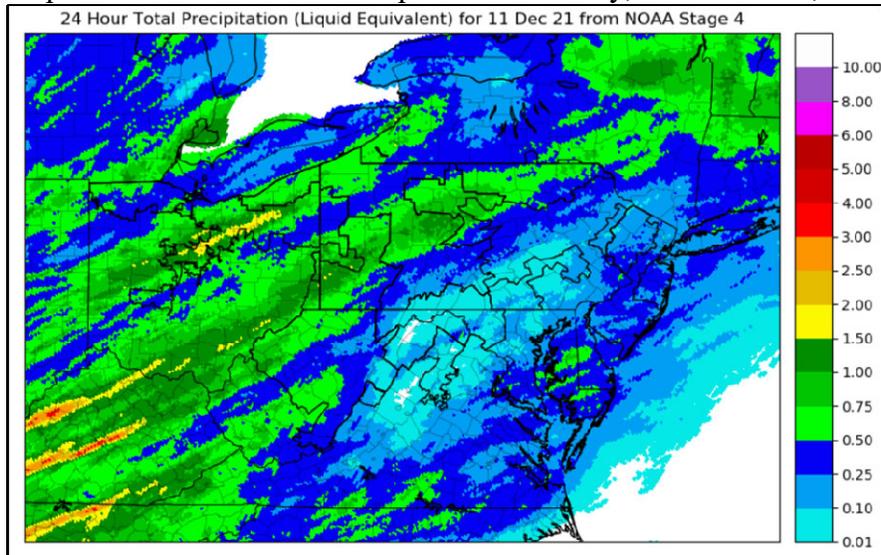
Attachment B: FirstEnergy Wind and Precipitation Report

Wind and Precipitation Reports: Graphic 1 illustrates the maximum wind gusts in the Penelec service territory on December 11, 2021. Graphics 2 illustrates the 24-Hour Total Precipitation in the Penelec service territory on December 11, 2021. The graphics are from the National Oceanic and Atmospheric Administration (“NOAA”).

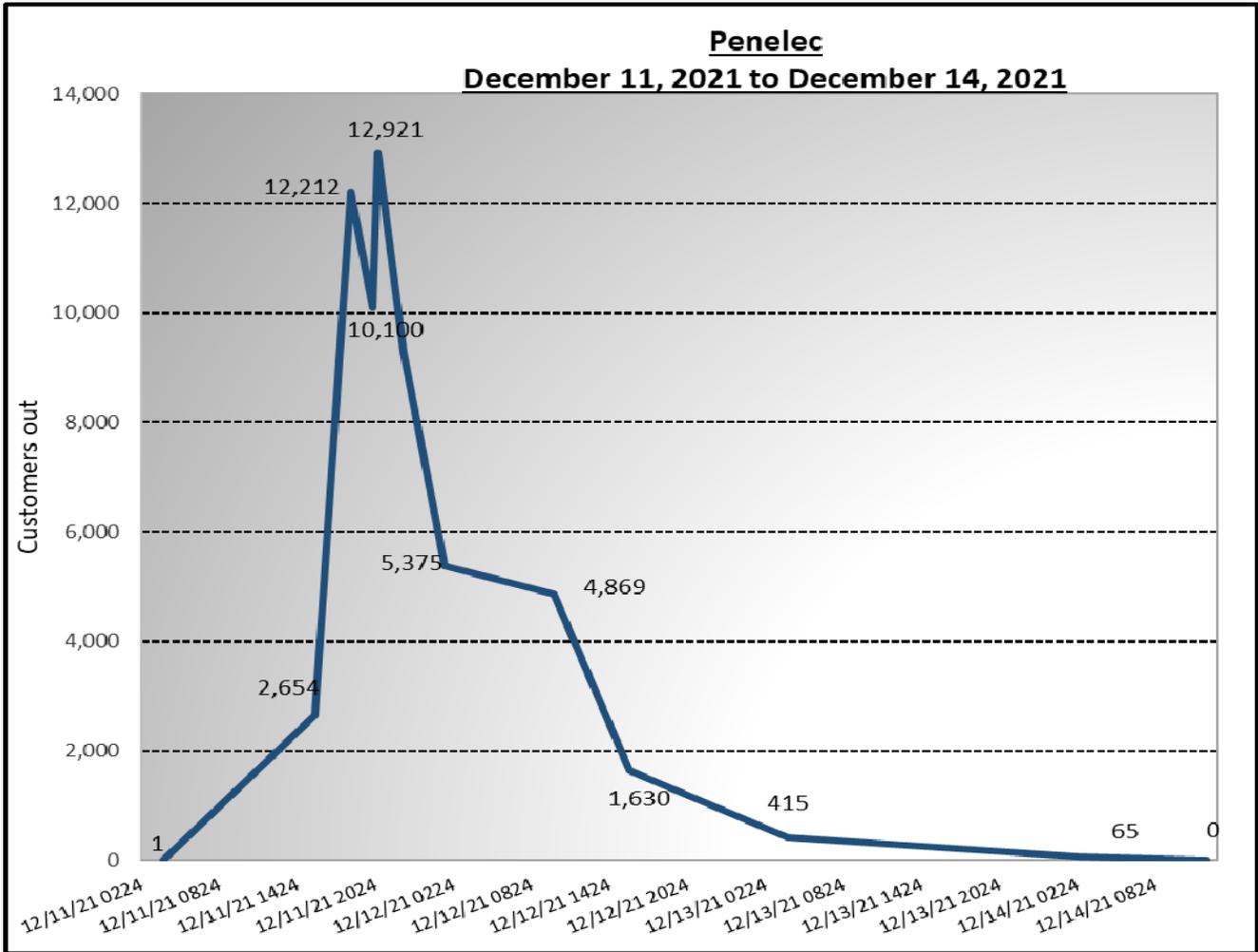
Graphic 1: Maximum Wind Gusts: Saturday, December 11, 2021



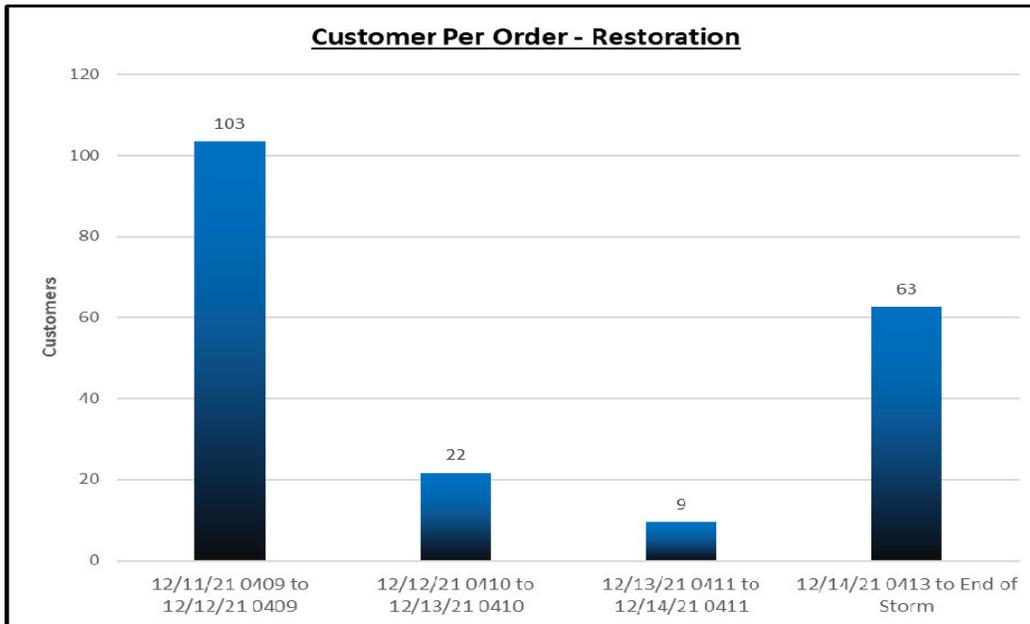
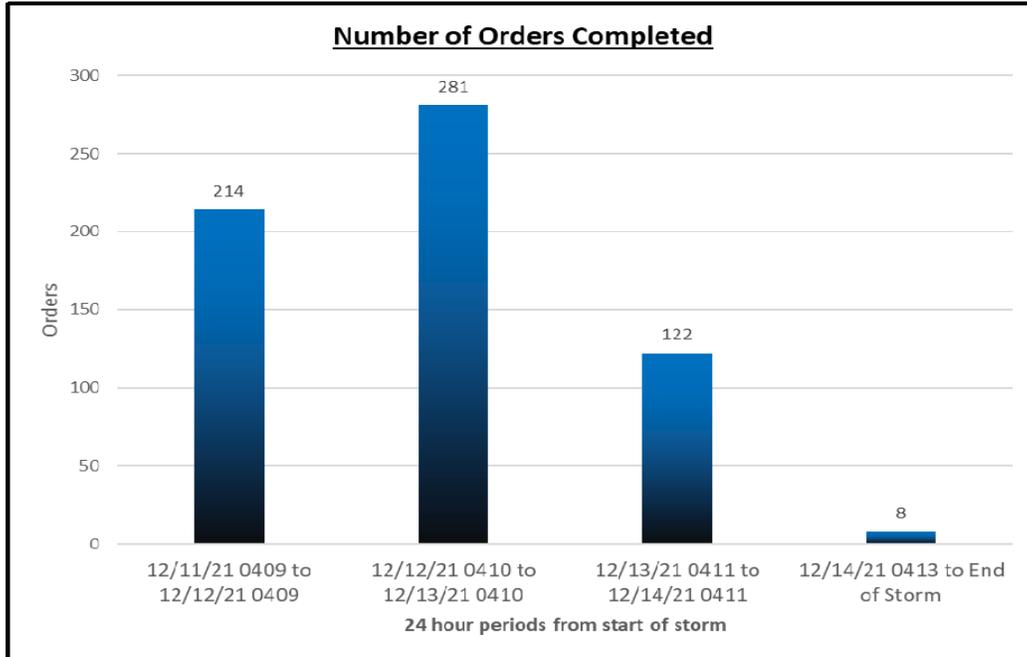
Graphic 2: 24-Hour Total Precipitation: Saturday, December 11, 2021



Attachment C: Restoration Curve



Attachment D: Order Restoration Graphs



Attachment E: FirstEnergy Meteorologist Reports

Wednesday December 08, 2021 @ 0853

New Issuance:

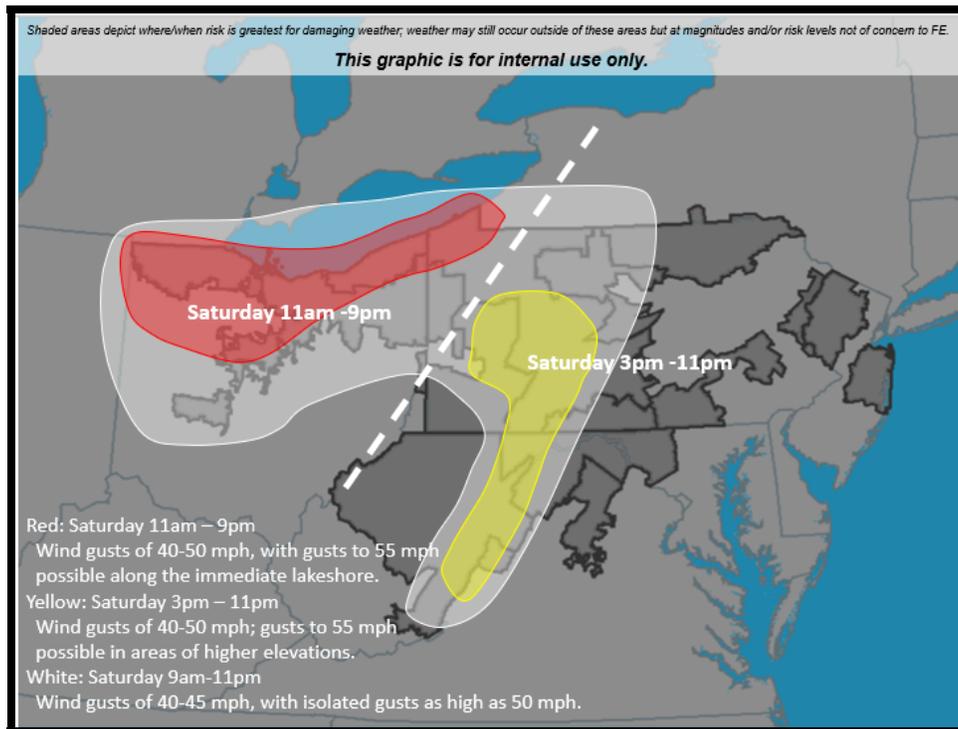
A strengthening storm system will pass to the north of FirstEnergy Friday and Saturday. This will drag a cold front through FirstEnergy Saturday, and likely provide a period of significant wind gusts behind the front—especially for areas of western and central FirstEnergy. The specific details of this event (e.g. timing and magnitude of winds) are still unclear at this point, will likely change, and will be updated and clarified in future alerts as they become available:

A few key notes:

- A) The cold front is expected to pass through western FirstEnergy late Friday/early Saturday—this may contain a period of heavy rain or even strong thunderstorms (may need to be introduced in future alerts).
- B) The cold front is expected to pass through eastern FirstEnergy Saturday afternoon—a brief (4-6 hour) period of strong gusts may need to be introduced for eastern FE in future alerts.

See graphic below for further information.

Next Update by 11am Thursday



Thursday, December 9, 2021 @ 0935

Update:

Significant updates and changes this morning. This is a bit of a complex storm system that provides different threats at different times and locations, which are outlined in the summary and graphics below.

General Summary:

- A sharp cold front will move through FirstEnergy during the day on Saturday, beginning Saturday morning in western FirstEnergy and moving through far eastern FirstEnergy Saturday evening.
- Ahead of the front, breezy conditions and periods of heavy rain are expected, across nearly all of FirstEnergy
- Also ahead of the front, strong/severe thunderstorms appear possible, mainly in western (Sat morning) and eastern (Sat evening) FirstEnergy. This storm threat is uncertain at the moment, but lines of severe storms capable of damaging wind gusts cannot be ruled out.
- A brief blast (~15-30 minutes) of strong wind gusts will be possible at any given location in FirstEnergy as the cold front passes.
- After the front passes, a period of notable wind gusts is expected. Wind gusts are expected to be significant across portions of western FirstEnergy, especially northern Ohio and western Pennsylvania. Areas along the Lake Erie shoreline are most at risk for significant gusts, and 60+ mph gusts appear possible at times late Saturday afternoon/evening in those shoreline areas.
- To recap: 1) Breezy and rainy, perhaps with strong storms, 2) windy as cold front passes, 3) general period of elevated wind gusts after front passes.
- Please read that again.

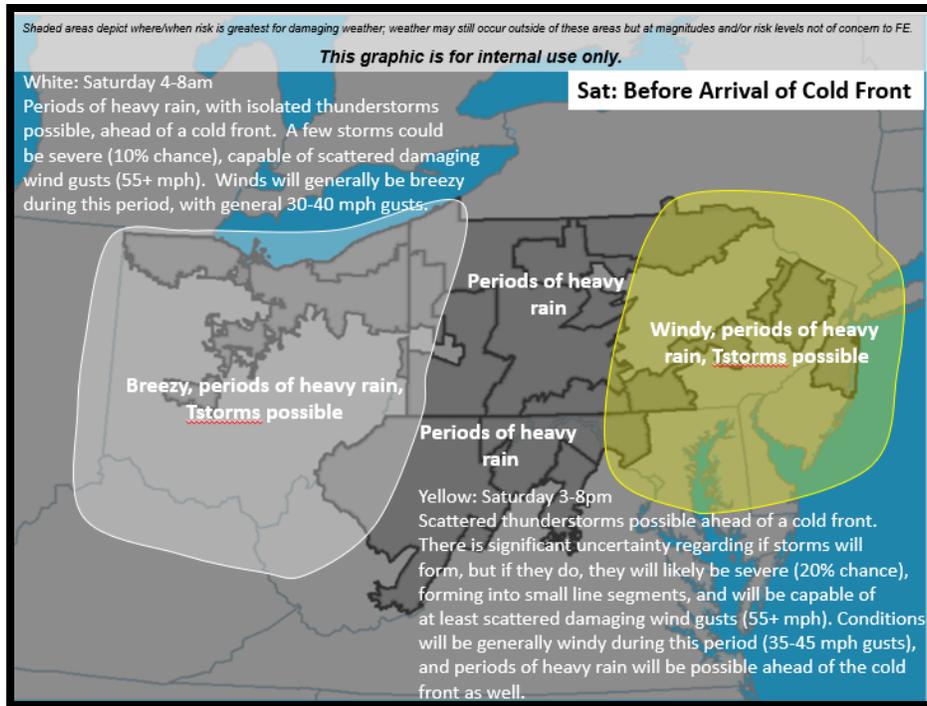
Key threats:

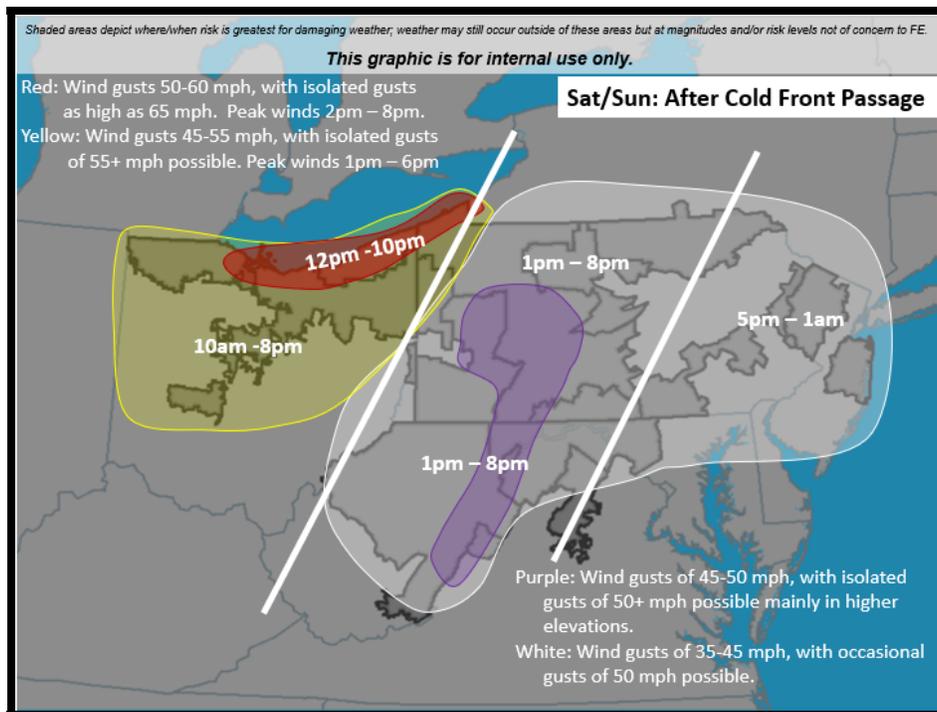
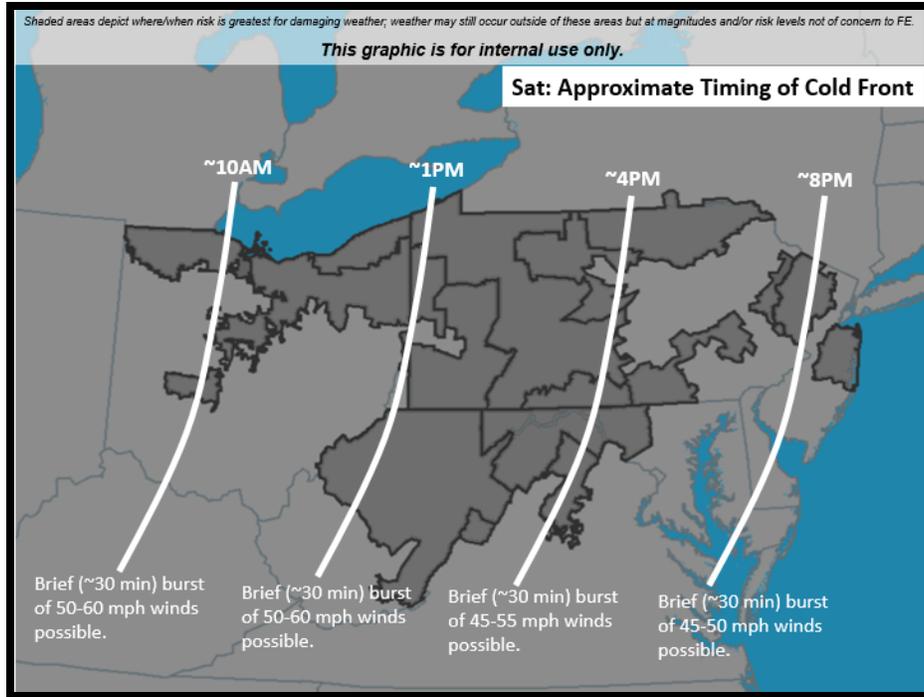
- Areas of northern Ohio and northwestern Pennsylvania—especially areas along the immediate lake shore—appear at risk of a 3-6 hour period of significant wind gusts. General wind gusts will likely exceed 50 mph in these regions, and lake shore areas could see wind gusts in excess of 60 mph.
- The thunderstorm risk—both of western FirstEnergy Saturday morning and eastern FirstEnergy Saturday evening—is what could be classified as “low risk/high impact” at this point. Conditions for storms appear marginal, but will also support a line of severe storms capable of significant damaging wind gusts ***if*** storms are able to develop. The storm risk is tied to the timing/location/strength of the cold front, so updates to this forecast will be important and the details of this threat may change with coming weather alerts.
- The front itself will likely contain a ‘blast’ of wind as it moves through. In western FirstEnergy, this may be in the 50-60 mph range, and in eastern FirstEnergy in the 45-50 mph range.

- For central/southern/eastern FirstEnergy, a general 4-6 hour period of elevated wind gusts (40-50 mph) will be possible after the front passes.

Three graphics are provided below to provide information about the threats before/during/after the cold front.

Next Update by 11am Friday





Friday, December 10, 2021 @ 0920

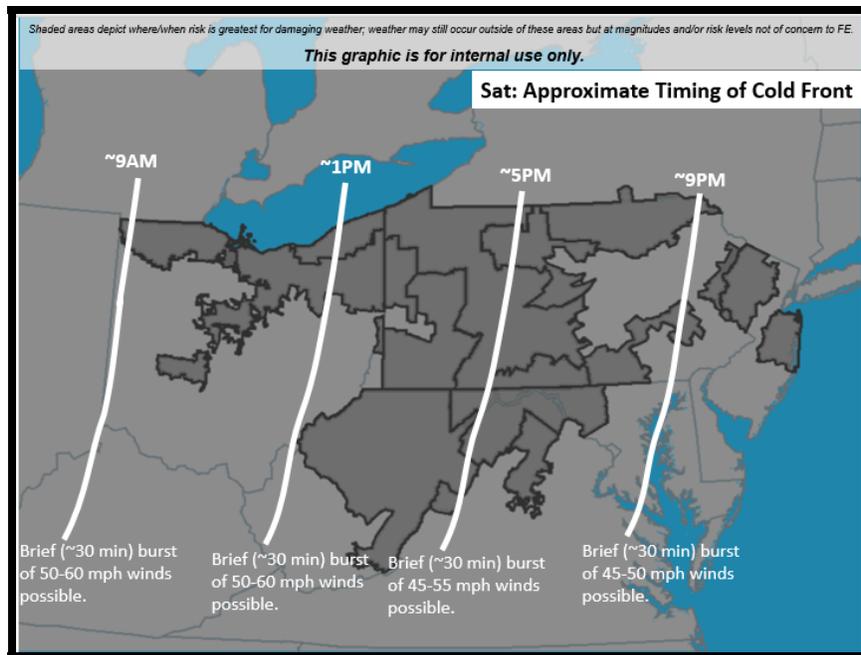
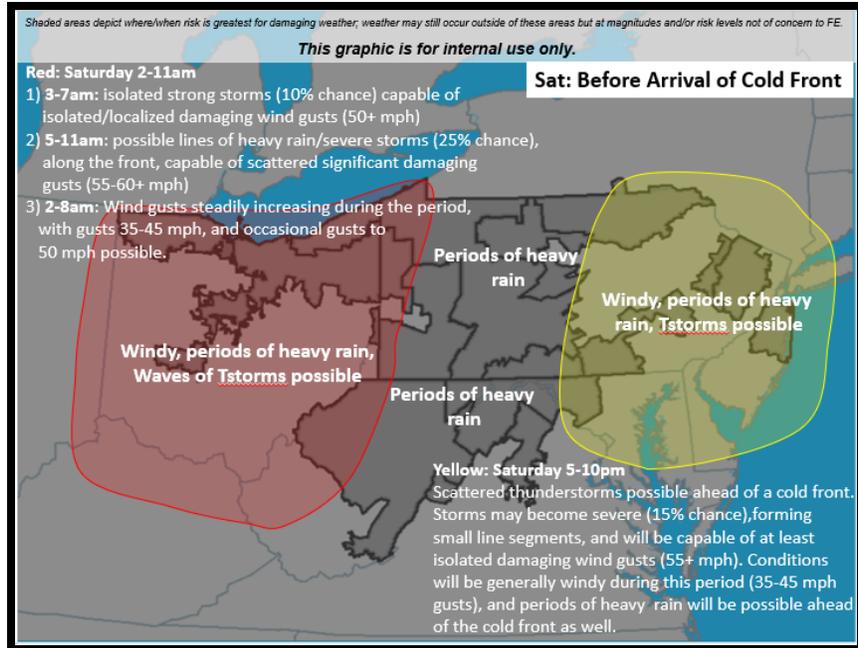
Update:

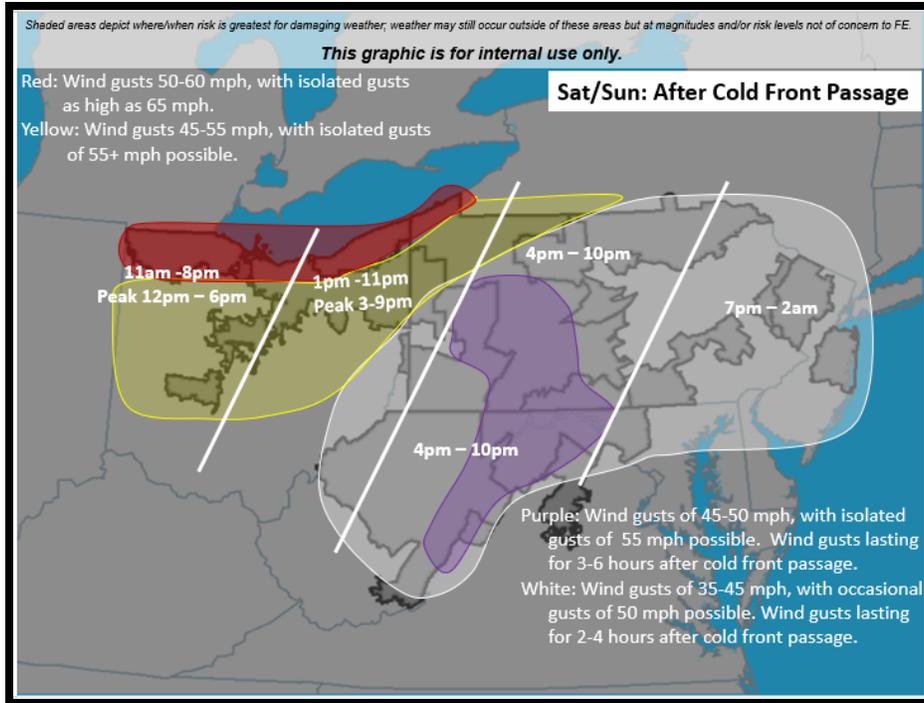
The main concept of this storm system remains on track. However, a general slowing of the cold front resulted in subtle changes to the wind/thunderstorm forecast, which are outlined below:

Notable changes:

- General arrival and progression of the cold front, west-to-east, through FirstEnergy appears to have slowed by a few hours. This will generally push back the arrival of the front/strongest winds across most locations in FirstEnergy. These changes are provided on the updated graphics below.
- Increased the risk of strong winds associated with severe thunderstorms/line of heavy showers across portions of Ohio early Saturday. Two rounds of storm activity are possible—the first an isolated threat early Saturday (3-8am), and the second a more substantial threat as showers/storms may develop along/ahead of the cold front itself (5-11am). Thunder may not actually occur, and damaging wind gusts may occur in lines of heavy showers that develop during this period.
- Added mention of strong wind gusts, outside of any shower/storm activity, across western FirstEnergy early Saturday morning as well. In these areas, gusty winds (40+ mph) will be possible for a few hours early Saturday morning—followed by a lull of a few hours—and then will ramp up again significantly when the cold front passes.
- Expanded the risk of 55-60+ mph gusts to include the entirety of the Lake Erie shoreline and into areas of Toledo Edison.
- Also expanded the risk of occasional 50+ mph gusts to include portions of Maryland and southern Pennsylvania, mainly in the areas of higher elevation.
- Slightly reduced the thunderstorm risk across eastern FirstEnergy. The slower progression of the cold front will reduce the chances of damaging storms developing ahead of the front—but not enough to remove it from the forecast at this time.

Next Update by 11am Saturday





Friday, December 10, 2021 @ 1144

Update:

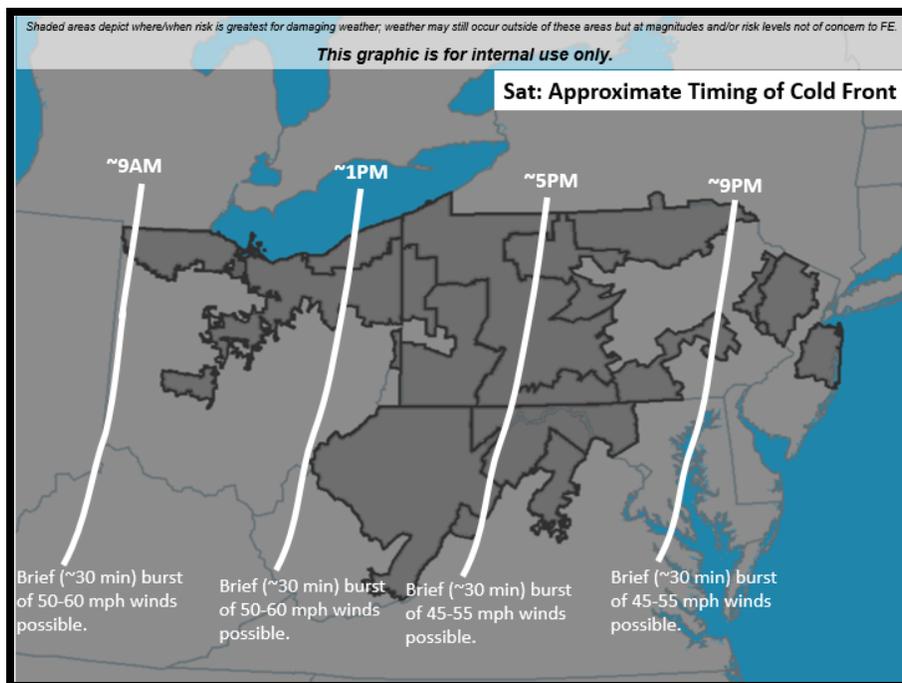
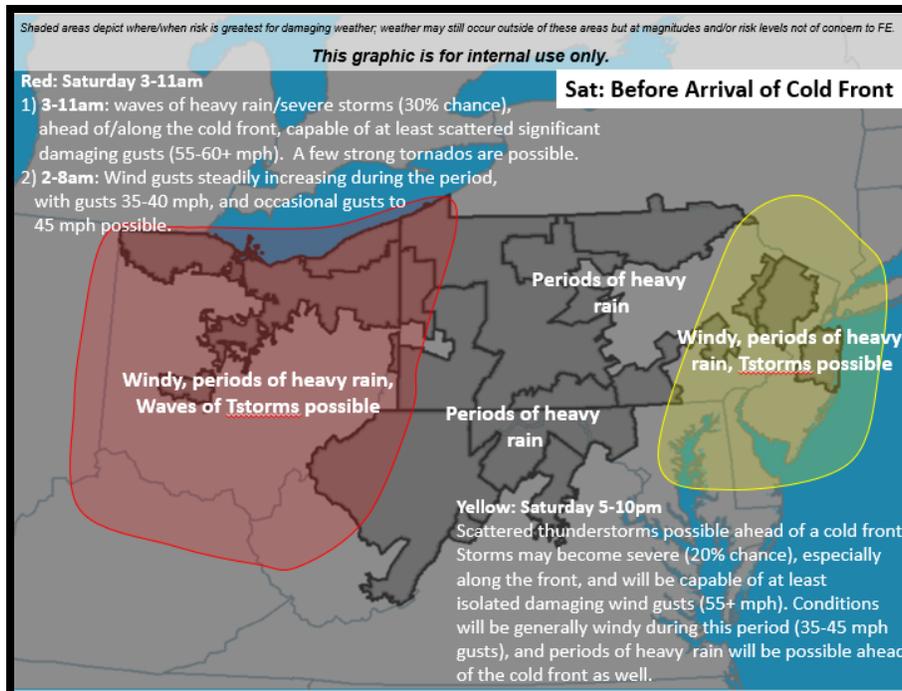
Late night forecast update is needed to address changes in the severe storm potential across Ohio early Saturday, and eastern FirstEnergy Saturday evening.

Notable changes:

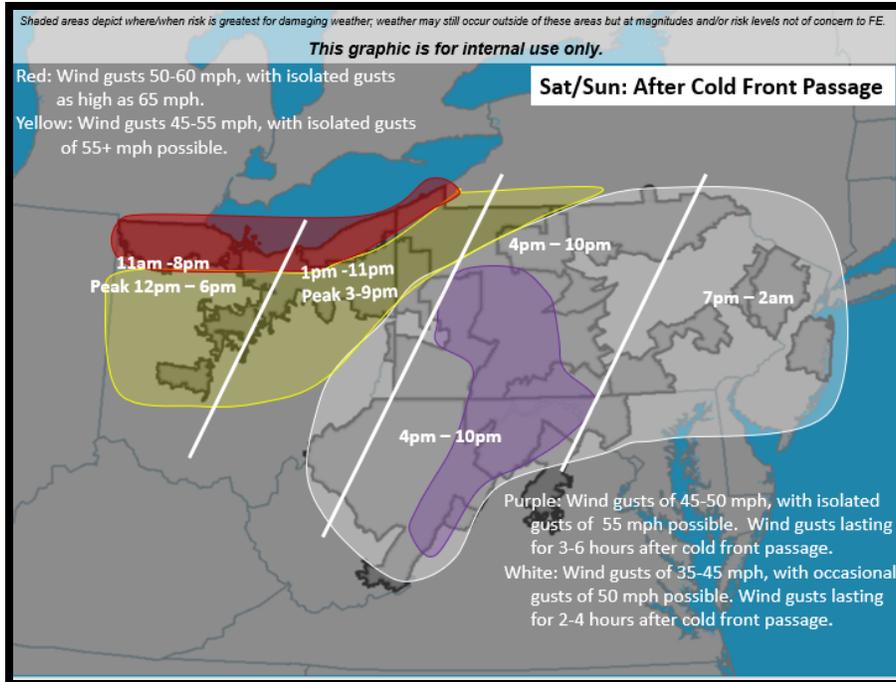
- Waves of severe thunderstorms/heavy rain showers, which will be capable both of damaging (55-60+ mph) wind gusts and potentially strong tornados, will push through portions of Ohio early Saturday. This threat will begin in earnest around 2/3am, and last until the cold front clears the area late Saturday morning.
- While the strongest threat originally appeared to be tied to the cold front later Saturday morning, it's becoming apparent that the threat is more generalized, and storms currently approaching Ohio from both the west and southwest will pose a threat of damaging gusts throughout early Saturday morning.
- Also need to address the developing tornado threat across portions of western/southern Ohio through about 8am Saturday morning—a few isolated strong tornados will be possible across this region.
- Slightly decreased the winds expected early Saturday morning across Ohio (independent of storms). Winds still be gusty across this region (35-40 mph), before experiencing a brief lull prior to the cold front moving through.
- Elsewhere, slightly raised the risk for damaging wind gusts due to severe storms/heavy rain showers along the cold front for portions of far eastern Pennsylvania and New Jersey Saturday evening.
- There are no major changes to the timing of the cold front, or general wind threat at this time. The rest of the forecast remains on track.

See updated graphics below for further information.

Next Update by 11am Saturday



Penelec Storm Report



Saturday, December 11, 2021 @ 0912

Update:

No major changes to the forecast this morning; the forecast remains largely on track.

Notable information/changes:

- Removed the mention of thunderstorms for areas across western FirstEnergy (Ohio, western Pennsylvania, western West Virginia), as that threat has already moved through this morning. A brief lull in conditions will occur across these areas, before the front moves through later this morning.
- The cold front is currently approaching western FirstEnergy. Wind gusts of 45-60 mph are being observed with this front in portions of Indiana this morning, so areas across Ohio should prepare for similar conditions as the front passes through throughout the morning.
- Made very minor adjustments to the approximate timing of the front. You probably won't even notice, but I couldn't help myself.
- Small changes to the wind map, to extend the possibility of some 60 mph gusts further into central Ohio, and adjusted areas across western/central Pennsylvania, Maryland and West Virginia where gusts of 55 mph could occur (mainly in higher elevations). Also made slight adjustments to the timing of the winds in western FirstEnergy.
- No real changes to the forecast for eastern FirstEnergy regarding the wind/front/thunderstorm forecast.

See updated graphics below for further information.

Last Scheduled Update

