



VIA E-FILE

October 22, 2021

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
PO Box 3265
Harrisburg, PA 17120

**Re: PPL Electric Utilities Corporation
Report of Electric Service Interruptions
Due to a Wind and Rain Event on September 22-23, 2021
Docket No. M-2021-3023564**

Dear Ms. Chiavetta:

PPL Electric Utilities Corporation (“PPL Electric”) hereby submits this Report of Electric Service Interruptions due to a wind and rain event between 1300 on Wednesday, September 22, 2021, and 1930 on Thursday, September 23, 2021. This event caused 478 outage cases and 22,659 customer service interruptions and affected all regions of PPL Electric’s service territory. This report is being filed pursuant to the Commission’s regulations at 52 Pa Code §67.1.

Pursuant to 52 Pa. Code §1.11, the enclosed document is to be deemed filed on October 22, 2021, which is the date it was filed electronically with the Commission’s E-Filing System.

If you have any questions regarding this report, please contact me at (484) 861-8424.

Very truly yours,

/s/ Colleen Lauver

Colleen Lauver
Supervisor – Distribution Asset Investment Strategy
484-861-8424

Enclosures

cc: Mr. John VanZant

ELECTRIC UTILITY REPORT OF OUTAGE TO
PENNSYLVANIA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU
P O BOX 3265
HARRISBURG, PA 17105-3265

Phone-In Reports: Always call (717) 773-7377
Email RA-PUCPEMA@state.pa.us

An original and one copy of this report are to be mailed to the Secretary's Bureau at the address above, even if an electronic copy has been emailed to the address above.

Information Required:

1. Reporting Utility: PPL Electric Utilities
Address: 2 North 9th Street
Allentown, PA 18101

2. Name and title of person making report:

Colleen Lauver Supervisor – Distribution Asset Investment Strategy
(Name) (Title)

3. Telephone number: 484-861-8424
(Telephone Number)

4. Date and time initial telephonic report was made to Commission:

September 23, 2021, at approximately 1827.

5. Interruption or Outage:

(a) Number of customers affected: 22,659.

- (b) Approximate number of outage cases and trouble cases for each county affected during the event:

County	Outage Cases	Trouble Cases
Berks	5	
Bucks	13	4
Carbon	23	7
Chester	3	
Clinton	14	1
Columbia	32	3
Cumberland	4	4
Dauphin	18	14
Juniata	8	8
Lackawanna	25	11
Lancaster	38	13
Lebanon		1
Lehigh	16	10
Luzerne	21	13
Lycoming	28	9
Monroe	52	13
Montgomery	3	2
Montour	6	1
Northampton	11	4
Northumberland	22	6
Perry	45	7
Pike	8	5
Schuylkill	32	13
Snyder	14	4
Susquehanna	1	2
Union	6	1
Wayne	22	6
Wyoming	3	4
York	5	1
	478	167

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

County	Number of Customers Interrupted
Berks	68
Bucks	103
Carbon	1,208
Chester	335
Clinton	139
Columbia	1,465
Cumberland	27
Dauphin	1,054
Juniata	136
Lackawanna	2,021
Lancaster	1,441
Lehigh	1,452
Luzerne	1,760
Lycoming	1,270
Monroe	2,106
Montgomery	11
Montour	221
Northampton	500
Northumberland	998
Perry	1,636
Pike	268
Schuylkill	1,038
Snyder	1,365
Susquehanna	4
Union	426
Wayne	1,518
Wyoming	68
York	21
	22,659

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

One hundred sixty-two (162) cases exceeded six hours in duration.

- (e) A listing of each outage case exceeding 6 or more hours in duration, including the following information:

Job Number	County	# Customers Out More than 6 Hours	Duration	Trouble Date & Time	Restored Date & Time
6245495-1	Lehigh	18	365	9/22/21 14:41	9/22/21 20:46
6245592-1	Lycoming	351	372	9/22/21 17:36	9/22/21 23:48
6245607-1	Union	237	508	9/22/21 17:37	9/23/21 2:05
6245623-1	Clinton	2	381	9/22/21 17:57	9/23/21 0:18
6245625-1	Lehigh	1	375	9/22/21 18:00	9/23/21 0:15
6245646-1	Northumberland	3	1052	9/22/21 18:49	9/23/21 12:21
6245653-1	Dauphin	1	1157	9/22/21 19:11	9/23/21 14:28
6245687-1	Dauphin	29	541	9/22/21 19:45	9/23/21 4:46
6245695-1	Carbon	1	434	9/22/21 19:51	9/23/21 3:05
6245698-1	Schuylkill	21	533	9/22/21 19:43	9/23/21 4:36
6245703-1	Union	29	376	9/22/21 20:04	9/23/21 2:20
6245708-1	Perry	1	387	9/22/21 20:13	9/23/21 2:40
6245738-1	Northumberland	7	702	9/22/21 21:03	9/23/21 8:45
6245739-1	Columbia	1	971	9/22/21 21:04	9/23/21 13:15
6245754-1	Lycoming	9	400	9/22/21 21:12	9/23/21 3:52
6245755-1	Columbia	1	936	9/22/21 21:13	9/23/21 12:49
6245764-1	Carbon	24	493	9/22/21 21:17	9/23/21 5:30
6245771-1	Juniata	10	1001	9/22/21 21:29	9/23/21 14:10
6245773-1	Perry	35	388	9/22/21 21:29	9/23/21 3:57
6245788-1	Columbia	2	935	9/22/21 21:50	9/23/21 13:25
6245803-1	Lycoming	2	1444	9/22/21 22:11	9/23/21 22:15
6245818-1	Columbia	8	364	9/22/21 22:21	9/23/21 4:25
6245874-1	Clinton	11	685	9/22/21 23:35	9/23/21 11:00
6245883-1	Snyder	33	1014	9/23/21 0:02	9/23/21 16:56
6245897-1	Perry	1	942	9/23/21 0:46	9/23/21 16:28
6245911-1	Perry	5	1053	9/23/21 1:02	9/23/21 18:35
6245920-1	York	2	642	9/23/21 1:24	9/23/21 12:06
6245923-1	Snyder	3	1096	9/23/21 1:29	9/23/21 19:45
6245924-1	Juniata	2	995	9/23/21 1:28	9/23/21 18:03
6245936-1	Perry	32	1104	9/23/21 2:07	9/23/21 20:31
6245938-1	Snyder	5	949	9/23/21 2:03	9/23/21 17:52
6245944-1	Perry	53	473	9/23/21 2:28	9/23/21 10:21
6245950-1	Perry	15	1070	9/23/21 2:39	9/23/21 20:29
6245956-1	Schuylkill	3	621	9/23/21 2:46	9/23/21 13:07
6245959-1	Juniata	6	604	9/23/21 2:52	9/23/21 12:56
6245960-1	Carbon	31	388	9/23/21 2:54	9/23/21 9:22
6245975-1	Perry	1	1034	9/23/21 1:52	9/23/21 19:06
6245977-1	Snyder	2	684	9/23/21 3:16	9/23/21 14:40
6245991-1	Monroe	51	930	9/23/21 3:39	9/23/21 19:09
6245999-1	Perry	1	875	9/23/21 3:47	9/23/21 18:22
6246003-1	Dauphin	77	778	9/23/21 4:02	9/23/21 17:00
6246007-1	Perry	18	476	9/23/21 4:11	9/23/21 12:07
6246010-1	Perry	9	575	9/23/21 4:14	9/23/21 13:49
6246019-1	Juniata	2	780	9/23/21 4:41	9/23/21 17:41
6246029-1	Clinton	6	413	9/23/21 4:52	9/23/21 11:45
6246032-1	Juniata	12	685	9/23/21 4:55	9/23/21 16:20
6246036-1	Lancaster	1	445	9/23/21 5:05	9/23/21 12:30
6246050-1	Juniata	42	580	9/23/21 5:10	9/23/21 14:50
6246067-1	Snyder	31	484	9/23/21 5:26	9/23/21 13:30
6246074-1	Perry	76	557	9/23/21 5:31	9/23/21 14:48

Job Number	County	# Customers Out More than 6 Hours	Duration	Trouble Date & Time	Restored Date & Time
6246087-1	Northumberland	19	505	9/23/21 5:41	9/23/21 14:06
6246092-1	Carbon	4	399	9/23/21 5:53	9/23/21 12:32
6246099-1	Montour	2	474	9/23/21 6:11	9/23/21 14:05
6246105-1	Snyder	295	558	9/23/21 6:16	9/23/21 15:34
6246113-1	Schuylkill	12	1268	9/23/21 6:17	9/24/21 3:25
6246134-1	Columbia	1	396	9/23/21 6:34	9/23/21 13:10
6246136-1	Northumberland	1	734	9/23/21 6:36	9/23/21 18:50
6246148-1	Columbia	30	414	9/23/21 6:16	9/23/21 13:10
6246150-1	Lycoming	1	1206	9/23/21 6:39	9/24/21 2:45
6246151-1	Dauphin	15	373	9/23/21 6:39	9/23/21 12:52
6246169-1	Lycoming	4	1089	9/23/21 6:51	9/24/21 1:00
6246186-1	Lancaster	4	402	9/23/21 7:13	9/23/21 13:55
6246190-1	Clinton	13	1062	9/23/21 7:18	9/24/21 1:00
6246221-1	Wayne	51	592	9/23/21 7:26	9/23/21 17:18
6246223-1	Lycoming	1	404	9/23/21 7:27	9/23/21 14:12
6246234-1	Perry	61	437	9/23/21 7:29	9/23/21 14:46
6246248-1	Lancaster	4	914	9/23/21 4:14	9/23/21 19:28
6246262-1	Lackawanna	1	1036	9/23/21 7:39	9/24/21 0:55
6246265-1	Lancaster	2	456	9/23/21 7:41	9/23/21 15:17
6246276-1	Schuylkill	1	553	9/23/21 7:47	9/23/21 17:00
6246283-1	Clinton	6	663	9/23/21 7:49	9/23/21 18:52
6246300-1	Luzerne	262	441	9/23/21 7:55	9/23/21 15:16
6246315-1	Schuylkill	8	642	9/23/21 8:00	9/23/21 18:42
6246319-1	Lycoming	1	901	9/23/21 8:01	9/23/21 23:02
6246322-1	Clinton	28	463	9/23/21 8:02	9/23/21 15:45
6246337-1	Snyder	10	483	9/23/21 8:09	9/23/21 16:12
6246345-1	Chester	26	408	9/23/21 8:12	9/23/21 15:00
6246366-1	Lycoming	60	577	9/23/21 8:23	9/23/21 18:00
6246378-1	Lancaster	1	461	9/23/21 8:27	9/23/21 16:08
6246382-1	Perry	1	647	9/23/21 8:28	9/23/21 19:15
6246390-1	Snyder	7	580	9/23/21 8:30	9/23/21 18:10
6246391-1	Lycoming	1	1030	9/23/21 8:32	9/24/21 1:42
6246394-1	Wayne	106	532	9/23/21 8:33	9/23/21 17:25
6246401-1	Union	13	564	9/23/21 8:36	9/23/21 18:00
6246403-1	Perry	15	414	9/23/21 8:36	9/23/21 15:30
6246416-1	Lackawanna	17	431	9/23/21 8:38	9/23/21 15:49
6246434-1	Clinton	31	971	9/23/21 8:47	9/24/21 0:58
6246452-1	Luzerne	19	691	9/23/21 8:51	9/23/21 20:22
6246453-1	Schuylkill	181	378	9/23/21 8:53	9/23/21 15:11
6246472-1	Chester	12	582	9/23/21 8:57	9/23/21 18:39
6246474-1	Wayne	107	473	9/23/21 8:57	9/23/21 16:50
6246478-1	Montour	1	1043	9/23/21 8:59	9/24/21 2:22
6246479-1	Clinton	5	602	9/23/21 8:58	9/23/21 19:00
6246480-1	Perry	1	570	9/23/21 9:00	9/23/21 18:30
6246483-1	Luzerne	92	453	9/23/21 9:00	9/23/21 16:33
6246491-1	Luzerne	7	520	9/23/21 9:00	9/23/21 17:40
6246493-1	Luzerne	3	510	9/23/21 9:00	9/23/21 17:30
6246499-1	Schuylkill	48	582	9/23/21 9:03	9/23/21 18:45
6246507-1	Schuylkill	72	481	9/23/21 9:04	9/23/21 17:05
6246527-1	Lycoming	3	740	9/23/21 9:06	9/23/21 21:26

Job Number	County	# Customers Out More than 6 Hours	Duration	Trouble Date & Time	Restored Date & Time
6246533-1	Carbon	7	837	9/23/21 9:08	9/23/21 23:05
6246547-1	Schuylkill	17	790	9/23/21 9:10	9/23/21 22:20
6246566-1	Lackawanna	162	429	9/23/21 9:14	9/23/21 16:24
6246578-1	Luzerne	295	389	9/23/21 9:16	9/23/21 15:45
6246586-1	Columbia	38	539	9/23/21 9:16	9/23/21 18:15
6246592-1	Wayne	10	467	9/23/21 9:20	9/23/21 17:07
6246596-1	Clinton	7	1847	9/23/21 9:19	9/24/21 16:06
6246601-1	Luzerne	5	489	9/23/21 9:21	9/23/21 17:30
6246606-1	Carbon	15	387	9/23/21 9:23	9/23/21 15:50
6246609-1	Northumberland	43	832	9/23/21 9:23	9/23/21 23:15
6246632-1	Lycoming	20	614	9/23/21 9:32	9/23/21 19:46
6246635-1	Wayne	2	394	9/23/21 9:32	9/23/21 16:06
6246636-1	Monroe	3	896	9/23/21 9:34	9/24/21 0:30
6246646-1	Monroe	3	545	9/23/21 9:38	9/23/21 18:43
6246659-1	Schuylkill	2	420	9/23/21 9:40	9/23/21 16:40
6246710-1	Schuylkill	1	558	9/23/21 9:57	9/23/21 19:15
6246736-1	Wayne	3	522	9/23/21 10:06	9/23/21 18:48
6246749-1	Columbia	12	420	9/23/21 10:10	9/23/21 17:10
6246770-1	Dauphin	1	435	9/23/21 10:20	9/23/21 17:35
6246774-1	Union	3	664	9/23/21 10:20	9/23/21 21:24
6246778-1	Columbia	223	477	9/23/21 10:23	9/23/21 18:20
6246783-1	Lycoming	4	929	9/23/21 10:25	9/24/21 1:54
6246838-1	Carbon	64	528	9/23/21 10:49	9/23/21 19:37
6246856-1	Northumberland	16	428	9/23/21 10:53	9/23/21 18:01
6246858-1	Luzerne	22	501	9/23/21 10:54	9/23/21 19:15
6246862-1	Lancaster	2	409	9/23/21 10:56	9/23/21 17:45
6246876-1	Lancaster	1	422	9/23/21 11:01	9/23/21 18:03
6246889-1	Lancaster	1	427	9/23/21 11:08	9/23/21 18:15
6246925-1	Chester	297	377	9/23/21 11:29	9/23/21 17:46
6246929-1	Union	32	497	9/23/21 11:29	9/23/21 19:46
6246940-1	Luzerne	5	870	9/23/21 11:35	9/24/21 2:05
6246949-1	Wayne	15	379	9/23/21 11:35	9/23/21 17:54
6246959-1	Carbon	1	850	9/23/21 11:40	9/24/21 1:50
6246963-1	Berks	1	831	9/23/21 11:44	9/24/21 1:35
6246964-1	Dauphin	2	443	9/23/21 10:26	9/23/21 17:49
6246966-1	Dauphin	1	405	9/23/21 11:43	9/23/21 18:28
6246978-1	Lycoming	1	395	9/23/21 11:49	9/23/21 18:24
6246980-1	Schuylkill	38	417	9/23/21 12:31	9/23/21 19:28
6246995-1	Monroe	4	784	9/23/21 11:56	9/24/21 1:00
6247018-1	Lackawanna	1	419	9/23/21 12:06	9/23/21 19:05
6247061-1	Lehigh	2	454	9/23/21 12:22	9/23/21 19:56
6247062-1	Lehigh	8	459	9/23/21 9:51	9/23/21 17:30
6247068-1	Dauphin	1	433	9/23/21 12:26	9/23/21 19:39
6247083-1	Northumberland	37	1529	9/23/21 12:31	9/24/21 14:00
6247116-1	Northumberland	8	941	9/23/21 12:44	9/24/21 4:25
6247126-1	Pike	1	407	9/23/21 12:55	9/23/21 19:42
6247147-1	Carbon	19	471	9/23/21 13:05	9/23/21 20:56
6247193-1	Columbia	3	1364	9/23/21 13:29	9/24/21 12:13
6247270-1	Monroe	20	435	9/23/21 14:05	9/23/21 21:20
6247378-1	Northumberland	2	514	9/23/21 15:07	9/23/21 23:41

Job Number	County	# Customers Out More than 6 Hours	Duration	Trouble Date & Time	Restored Date & Time
6247406-1	Luzerne	2	467	9/23/21 15:21	9/23/21 23:08
6247444-1	Lycoming	52	505	9/23/21 15:50	9/24/21 0:15
6247454-1	Bucks	9	544	9/23/21 15:51	9/24/21 0:55
6247489-1	Carbon	27	1296	9/23/21 16:16	9/24/21 13:52
6247500-1	Schuylkill	1	517	9/23/21 16:25	9/24/21 1:02
6247565-1	Perry	1	896	9/23/21 1:52	9/23/21 16:48
6247679-1	Columbia	1	457	9/23/21 17:58	9/24/21 1:35
6247696-1	Clinton	13	1040	9/23/21 18:10	9/24/21 11:30
6247734-1	Schuylkill	54	363	9/23/21 19:27	9/24/21 1:30
6248794-1	Lehigh	1218	611	9/23/21 9:04	9/23/21 19:15
6250719-1	Lancaster	13	487	9/23/21 2:49	9/23/21 10:56
6250816-1	Snyder	800	668	9/23/21 7:24	9/23/21 18:32

(f) Reason for the interruption or outages:

The interruptions were caused by a long duration wind and rain event. Approximately 18 hours of winds in the 30-35 MPH range, with peaks in the 35-40 MPH range, along with 1-3 inches of heavy rain affected all regions of PPL Electric's territory on September 22-23.

(g) Projected time of restoration:

Restoration was projected to be completed by 1900 on September 24, 2021.

- (h) The number of utility workers, contract workers and workers received as mutual aid assigned specifically to the repair work by general function, that is linemen, troublemen, tree crew and the like:

Company	# Workers	Function
PPL Electric Utilities	146	Line Personnel
PPL Electric Utilities	172	Office Personnel
PPL Electric Utilities	52	Foremen
PPL Electric Utilities	7	Electricians
PPL Electric Utilities	24	Substation Engineers
Harlan	33	Electrical Contract Crews
Haugland	15	Electrical Contract Crews
Henkels & McCoy	59	Electrical Contract Crews
IB Abel	31	Electrical Contract Crews
Michels Power	7	Electrical Contract Crews
O'Connel Electric	7	Electrical Contract Crews
Tempest	58	Electrical Contract Crews
Metrotek	12	Electrical Contract Crews
Valiant	6	Electrical Contract Crews
Various	80	Vegetation Contract Crew (Est)

- (i) The date and time of the first information of service interruption:

The initial service interruption occurred at approximately 1300 on September 22, 2021.

- (j) The date and time that repair crews were assembled:

Crews were on duty at the outset of the event and worked until the last customer was restored.

- (k) The actual time that service was restored to the last affected customer:

The final customer was restored at 1606 on September 24, 2021.

- (l) A general description of the physical damage sustained by the utility facilities as a result of the interruption/outage:

The damage to PPL Electric facilities included trees or limbs on conductor, downed wires, and broken equipment.

Materials used to complete restoration included:

- Wire and Cable – 5,325 feet
- Arrestors – 15
- Cross arms – 10
- Wood Poles – 7
- Transformers – 21
- Cutouts – 13

- (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:

As of September 21, PPL Electric's weather outlook for September 22-23 called for approximately 18 hours of winds in the 30-35 MPH range with peaks in the 35-40 MPH range, along with 1-3 inches of heavy rain. Actual weather was generally as forecast.

- (n) If the interruption / outage event caused approximate outages that exceed 10% or more 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:

This event did not impact more than 10% of PPL Electric customers.

Event and Rank	Event Date	Number of Outages	Duration of Outages

Remarks:
