

WELLSBORO ELECTRIC COMPANY

QUARTERLY RELIABILITY REPORT
57.195 REPORTING REQUIREMENTS
Docket Number M-2016-2522508

Second quarter 2022

April-June 2022

SUBMITTED BY

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A rolling 12-month breakdown and analysis of outage causes during the receding 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.

<u>Outage Cause</u>	<u># Customers Affected</u>	<u># of Outages</u>	<u>Customer Minutes</u>	<u>Percentage of Outages</u>
Animal	1115	60	172819	23.5%
Elec Overload	0	0	0	0.0%
Equipt Failure	2309	43	348081	16.9%
Lightning	33	6	2604	2.4%
Tree, Off, R.O.W.	4277	100	697652	39.2%
Tree, On R.O.W.	442	11	56822	4.3%
Unknown	587	35	52367	13.7%
Wind	0	0	0	0.0%
Total	8763	255	1330345	100%

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.

Date	Time of Event	Time Restored	# Cust Affected	Cause
4/19/2022	12:31:00 AM	4/19/2022 11:08:00 AM	1239	Snow Storm

Cause	Apr-22	May-22	Jun-22	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	
NUMBER OF OUTAGES													
Animal	7	7	11	4	5	1	4	8	4	0	8	1	60
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	5	3	6	8	4	4	2	4	2	4	1	0	43
Lightning	0	3	1	2	0	0	0	0	0	0	0	0	6
Tree, Off, R.O.W.	5	3	4	15	9	10	8	3	30	4	6	3	100
Tree, On R.O.W.	1	0	2	1	1	4	0	0	1	0	1	0	11
Unknown	1	4	5	7	4	1	6	1	0	2	1	3	35
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	19	20	29	37	23	20	20	16	37	10	17	7	255

Cause	Apr-22	May-22	Jun-22	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	
CUSTOMERS AFFECTED													
Animal	611	78	72	25	70	4	6	46	66	0	136	1	1115
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	630	4	61	266	595	386	4	101	4	9	249	0	2309
Lightning	0	3	28	2	0	0	0	0	0	0	0	0	33
Tree, Off, R.O.W.	300	168	221	895	340	148	110	134	1196	468	254	43	4277
Tree, On R.O.W.	34	0	19	3	250	54	0	0	72	0	10	0	442
Unknown	1	9	66	105	89	101	88	28	0	2	1	97	587
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	1576	262	467	1296	1344	693	208	309	1338	479	650	141	8763

Cause	Apr-22	May-22	Jun-22	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	
Customer Minutes													
Animal	149503	4705	3809	1040	3166	197	225	1397	4582	0	4172	23	172819
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	110318	508	6403	37268	96953	18788	554	12774	268	1348	62897	0	348081
Lightning	0	272	2168	163	0	0	0	0	0	0	0	0	2604
Tree, Off, R.O.W.	43602	15257	23278	133121	49399	23847	10321	29785	267737	43930	51692	5683	697652
Tree, On R.O.W.	7396	0	1805	164	15833	3830	0	0	26794	0	999	0	56822
Unknown	43	506	3619	8392	16963	9861	7132	2527	0	170	85	3069	52367
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	310862	21248	41083	180149	182314	56523	18232	46483	299381	45448	119846	8776	1330345

Rolling 12-Month reliability index values (SAIFI,CAIDI,SAIDI) 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 customers interruptions, the number of customers affected, and the customer minutes of interruption.

WELLSBORO ELECTRIC COMPANY**ROLLING TWELVE MONTH INTERRUPTION INDEXES****2nd Quarter 2022**

SAIDI
207

SAIFI
1.37

CAIDI
152

ROLLING TWELVE MONTH STANDARD AS ESTABLISHED BY THE PUC

SAIDI
278

SAIFI
1.66

CAIDI
167

ROLLING THREE YEAR AVERAGE INTERRUPTION INDEXES

SAIDI
122

SAIFI
0.99

CAIDI
121

ROLLING THREE YEAR AVERAGE STANDARD AS ESTABLISHED BY THE PUC

SAIDI
185

SAIFI
1.12

CAIDI
136

AVERAGE NUMBER OF CUSTOMERS SERVED

6412

Wellsboro Electric Company

Reliability Index

SAIDI

<u>Month</u>	<u>Total Customer Minutes</u>	<u># Customers Served</u>
Jan-22	45447.6	6412
Feb-22	119845.8	6415
Mar-22	8775.6	6422
Apr-22	310862	6418
May-22	21248	6420
Jun-22	41083	6423
July-21	180149	6400
Aug-21	182314	6401
Sept-21	56523	6404
Oct-21	18232	6403
Nov-21	46483	6411
Dec-21	299381	6411
Totals	1330344	76940

Average # Customers Served **6412**

ROLLING TWELVE MONTH AVERAGE SAIDI INDEX **207.49**

Wellsboro Electric Company

Reliability Index

SAIFI

<u>Month</u>	<u># Customers Interrupted</u>	<u># Customers Served</u>
Jan-22	479	6412
Feb-22	650	6415
Mar-22	141	6422
Apr-22	1576	6418
May-22	262	6420
Jun-22	467	6423
July-21	1296	6400
Aug-21	1344	6401
Sept-21	693	6404
Oct-21	208	6403
Nov-21	309	6411
Dec-21	1338	6411
Totals	8763	76940

Average # Customers Served **6412**

Rolling Twelve Month Average SAIFI Index **1.37**

Wellsboro Electric Company

Reliability Index

CAIDI

<u>Month</u>	<u>Total Customer Minutes</u>	<u># Customers Interrupted</u>
Jan-21	45447.6	479
Feb-21	119845.8	650
Mar-21	8775.6	141
April -21	310862	1576
May-21	21248	262
June-21	41083	467
July-21	180149	1296
Aug-21	182314	1344
Sept-21	56523	693
Oct-21	18232	208
Nov-21	46483	309
Dec-21	299381	1338
Totals	1330344	8763

Rolling Twelve Month Average CAIDI Index**151.81**

ROLLING THREE YEAR WORKSHEET

2nd Quarter 2022

<u>QTR</u>	<u>SAIDI</u>	<u>SAIFI</u>	<u>CAIDI</u>
4-19	11.00	0.10	113.00
3-19	23.00	0.21	111.00
2-22	58.00	0.36	162.00
1-22	27.00	0.20	137.00
4-21	57.00	0.29	196.00
3-21	65.00	0.52	126.00
2-21	6.00	0.07	88.00
1-21	4.00	0.05	96.00
4-20	23.00	0.16	141.00
3-20	50.00	0.47	106.00
2-20	33.00	0.45	72.00
1-20	8.00	0.08	98.00
	365	2.96	1446
	121.6667	0.986667	120.5

Summary

Trees caused (43.5%) of the outages (4.3% ON-ROW and 39.2% OFF-ROW)

Animal contacts caused (23.5%) of the outages

Equipment failures (16.9%) these outages were associated with cutouts, arrestors, and jumpers.

Unknown (13.7%)

Lightning (2.4%)

The Company filed an exemption for 1 major event in the 2nd quarter of 2022 due to a snow storm.

The Company continues to see trees being the largest cause of outages for the second quarter of 2022.