

# WELLSBORO ELECTRIC COMPANY

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

Second Quarter 2023

April-June 2023

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 indentified 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	470	34	22684	17.4%
Elec Overload	0	0	0	0.0%
Equipt Failure	833	27	104841	13.8%
Lightning	12	4	840	2.1%
Tree, Off, R.O.W.	3742	100	424092	51.3%
Tree, On R.O.W.	30	3	2327	1.5%
Unknown	1162	27	86613	13.8%
Wind	0	0	0	0.0%
<b>Total</b>	<b>6249</b>	<b>195</b>	<b>641398</b>	<b>100%</b>

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.

<b>Date</b>	<b>Time of Event</b>	<b>Time Restored</b>	<b># Cust Affected</b>	<b>Cause</b>
4/1/2023	12:30:00 PM	4/3/2023 12:10:00 PM	4429	high wind

Cause	Apr-23	May-23	Jun-23	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	
<b>NUMBER OF OUTAGES</b>													
Animal	1	1	5	15	1	3	1	3	0	0	2	2	34
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	4	1	0	6	0	1	2	4	3	1	0	5	27
Lightning	0	0	0	3	1	0	0	0	0	0	0	0	4
Tree, Off, R.O.W.	2	4	3	9	4	14	11	17	9	2	6	19	100
Tree, On R.O.W.	0	1	0	0	0	0	0	1	0	0	0	1	3
Unknown	1	2	2	7	5	1	1	4	1	0	2	1	27
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	9	10	40	11	19	15	29	13	3	10	28	195

Cause	Apr-23	May-23	Jun-23	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	
<b>CUSTOMERS AFFECTED</b>													
Animal	3	68	5	249	47	38	14	31	0	0	13	2	470
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	146	1	0	62	0	1	30	288	17	3	0	285	833
Lightning	0	0	0	4	8	0	0	0	0	0	0	0	12
Tree, Off, R.O.W.	22	433	672	411	75	632	68	438	237	69	127	558	3742
Tree, On R.O.W.	0	28	0	0	0	0	0	1	0	0	0	1	30
Unknown	9	306	33	104	61	2	24	550	57	0	5	11	1162
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	180	836	710	830	191	673	136	1308	311	72	145	857	6249

Cause	Apr-23	May-23	Jun-23	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	
<b>Customer Minutes</b>													
Animal	309	3199	250	12455	2589	1016	717	1525	0	0	499	125	22684
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	11615	79	0	5063	0	178	2065	65023	1504	285	0	19029	104841
Lightning	0	0	0	158	682	0	0	0	0	0	0	0	840
Tree, Off, R.O.W.	4628	60004	61900	50271	16363	52998	4020	53383	26071	6991	14444	73020	424092
Tree, On R.O.W.	0	2073	0	0	0	0	0	109	0	0	0	145	2327
Unknown	473	11138	2078	7586	4330	58	1281	55212	3456	0	284	716	86613
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	17025	76493	64227	75535	23963	54249	8083	175252	31031	7276	15227	93035	641398

Rolling 12-Month reliability index values (SAIFI,CAIDI,SAIDI) for the EDC'S service territory for the receding 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 INDEXS****2nd Quarter 2023**

SAIDI
100

SAIFI
0.97

CAIDI
103

**ROLLING TWELVE MONTH STANDARD AS ESTABLISHED BY THE PUC**

SAIDI
278

SAIFI
1.66

CAIDI
167

**ROLLING THREE YEAR AVERAGE INTERRUPTION INDEXS**

SAIDI
130

SAIFI
1.03

CAIDI
122

**ROLLING THREE YEAR AVERAGE STANDARD AS ESTABLISHED BY THE PUC**

SAIDI
185

SAIFI
1.12

CAIDI
136

**AVERAGE NUMBER OF CUSTOMERS SERVED**

6446
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**Wellsboro Electric Company**

**Reliability Index**

**SAIDI**

<u>Month</u>	<u>Total Customer Minutes</u>	<u># Customers Served</u>
Jan-23	7276.2	6450
Feb-23	15227.4	6449
Mar-23	93035.4	6450
Apr-23	17025	6451
May-23	76493	6452
Jun-23	64227	6453
July-22	75535	6430
Aug-22	23963	6437
Sept-22	54249	6441
Oct-22	8083	6443
Nov-22	175252	6443
Dec-22	31031	6447
<b>Totals</b>	<b>641397</b>	<b>77346</b>

**Average # Customers Served** **6446**

**ROLLING TWELVE MONTH AVERAGE SAIDI INDEX** **99.51**

**Wellsboro Electric Company**

**Reliability Index**

**SAIFI**

<u>Month</u>	<u># Customers Interrupted</u>	<u># Customers Served</u>
Jan-23	72	6450
Feb-23	145	6449
Mar-23	857	6450
Apr-23	180	6451
May-23	836	6452
Jun-23	710	6453
July-22	830	6430
Aug-22	191	6437
Sept-22	673	6441
Oct-22	136	6443
Nov-22	1308	6443
Dec-22	311	6447
<b>Totals</b>	<b>6249</b>	<b>77346</b>

**Average # Customers Served** **6446**

**Rolling Twelve Month Average SAIFI Index** **0.97**

**Wellsboro Electric Company****Reliability Index****CAIDI**

<u>Month</u>	<u>Total Customer Minutes</u>	<u># Customers Interrupted</u>
Jan-23	7276.2	72
Feb-23	15227.4	145
Mar-23	93035.4	857
Apr-23	17025	180
May-23	76493	836
Jun-23	64227	710
July-22	75535	830
Aug-22	23963	191
Sept-22	54249	673
Oct-22	8083	136
Nov-22	175252	1308
Dec-22	31031	311
<b>Totals</b>	<b>641397</b>	<b>6249</b>

**Rolling Twelve Month Average CAIDI Index****102.64**

**ROLLING THREE YEAR WORKSHEET**

**2nd Quarter 2023**

<u>QTR</u>	<u>SAIDI</u>	<u>SAIFI</u>	<u>CAIDI</u>
4-22	33.00	0.27	122.00
3-22	24.00	0.26	91.00
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
2-23	24.00	0.27	91.00
1-23	18.00	0.17	108.00
	389	3.09	1464
	129.6667	1.03	122

## **Summary**

Trees caused (52.8%) of the outages (1.5% ON-ROW and 51.3% OFF-ROW)

Animal contacts caused (17.4%) of the outages

Equipment failures (13.8%) these outages were associated with cutouts, arrestors, and jumpers.

Unknown (13.8%)

Lightning (2.1%)

The Company filed an exemption for a major event in the 2nd quarter of 2023 due to a high wind event.

The Company continues to see off ROW trees being the largest cause of outages for the 2nd quarter of 2023.