

# WELLSBORO ELECTRIC COMPANY

QUARTERLY RELIABILITY REPORT  
57.195 REPORTING REQUIREMENTS  
Docket Number ~~M-2016-2522500~~

M-2023-3039027-AEL-4/10/23

First quarter 2023

January-March 2023

## SUBMITTED BY

Byron Farnsworth Jr.  
President/CEO  
570-724-6701

[barneyf@ctenterprises.org](mailto:barneyf@ctenterprises.org)

Tyler Mead  
Director of Engineering & Operations  
570-724-6725

[tylerm@ctenterprises.org](mailto:tylerm@ctenterprises.org)

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	1155	52	176942	22.0%
Elec Overload	0	0	0	0.0%
Equipt Failure	1381	36	210377	15.3%
Lightning	43	8	3281	3.4%
Tree, Off, R.O.W.	3304	103	379698	43.6%
Tree, On R.O.W.	55	5	9456	2.1%
Unknown	890	32	77092	13.6%
Wind	0	0	0	0.0%
<b>Total</b>	<b>6828</b>	<b>236</b>	<b>856846</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>
2/3/2023	4:41:00 PM	2/3/2023 7:38:00 PM	738	high wind
2/21/2023	2:02:00 PM	2/22/2023 11:21:00 AM	3703	high wind

Cause	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	
<b>NUMBER OF OUTAGES</b>													
Animal	7	7	11	15	1	3	1	3	0	0	2	2	52
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	5	3	6	6	0	1	2	4	3	1	0	5	36
Lightning	0	3	1	3	1	0	0	0	0	0	0	0	8
Tree, Off, R.O.W.	5	3	4	9	4	14	11	17	9	2	6	19	103
Tree, On R.O.W.	1	0	2	0	0	0	0	1	0	0	0	1	5
Unknown	1	4	5	7	5	1	1	4	1	0	2	1	32
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	19	20	29	40	11	19	15	29	13	3	10	28	236

Cause	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	
<b>CUSTOMERS AFFECTED</b>													
Animal	611	78	72	249	47	38	14	31	0	0	13	2	1155
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	630	4	61	62	0	1	30	288	17	3	0	285	1381
Lightning	0	3	28	4	8	0	0	0	0	0	0	0	43
Tree, Off, R.O.W.	300	168	221	411	75	632	68	438	237	69	127	558	3304
Tree, On R.O.W.	34	0	19	0	0	0	0	1	0	0	0	1	55
Unknown	1	9	66	104	61	2	24	550	57	0	5	11	890
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	1576	262	467	830	191	673	136	1308	311	72	145	857	6828

Cause	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	
<b>Customer Minutes</b>													
Animal	149503	4705	3809	12455	2589	1016	717	1525	0	0	499	125	176942
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	110318	508	6403	5063	0	178	2065	65023	1504	285	0	19029	210377
Lightning	0	272	2168	158	682	0	0	0	0	0	0	0	3281
Tree, Off, R.O.W.	43602	15257	23278	50271	16363	52998	4020	53383	26071	6991	14444	73020	379698
Tree, On R.O.W.	7396	0	1805	0	0	0	0	109	0	0	0	145	9456
Unknown	43	506	3619	7586	4330	58	1281	55212	3456	0	284	716	77092
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	310862	21248	41083	75535	23963	54249	8083	175252	31031	7276	15227	93035	856846

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****1st Quarter 2023**

SAIDI
133

SAIFI
1.06

CAIDI
125

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

SAIDI
278

SAIFI
1.66

CAIDI
167

**ROLLING THREE YEAR AVERAGE INTERRUPTION INDEXS**

SAIDI
133

SAIFI
1.09

CAIDI
120

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

SAIDI
185

SAIFI
1.12

CAIDI
136

**AVERAGE NUMBER OF CUSTOMERS SERVED**

6438
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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-22	310862	6418
May-22	21248	6420
Jun-22	41083	6423
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>856845</b>	<b>77251</b>

**Average # Customers Served** **6438**

**ROLLING TWELVE MONTH AVERAGE SAIDI INDEX** **133.10**

**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-22	1576	6418
May-22	262	6420
Jun-22	467	6423
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>6828</b>	<b>77251</b>

**Average # Customers Served** **6438**

**Rolling Twelve Month Average SAIFI Index** **1.06**

**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-22	310862	1576
May-22	21248	262
Jun-22	41083	467
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>856845</b>	<b>6828</b>

**Rolling Twelve Month Average CAIDI Index****125.49**

**ROLLING THREE YEAR WORKSHEET**

**1st 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
2-20	33.00	0.45	72.00
1-23	18.00	0.17	108.00
	398	3.27	1445
	132.6667	1.09	120.4167

## **Summary**

Trees caused (45.8%) of the outages (2.1% ON-ROW and 43.6% OFF-ROW)

Animal contacts caused (22%) of the outages

Equipment failures (15.3%) these outages were associated with cutouts, arrestors, and jumpers.

Unknown (13.6%)

Lightning (3.4%)

The Company filed an exemption for 2 major event in the 1st quarter of 2023 due to high wind events.

The Company continues to see off ROW trees being the largest cause of outages for the 1st quarter of 2023.