

WELLSBORO ELECTRIC COMPANY

QUARTERLY RELIABILITY REPORT 57.195 REPORTING REQUIREMENTS

Docket Number M-2023-3039027

Revised to replace original 4Q reliability report
Fourth Quarter 2023

October-December 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	502	31	27196	14.8%
Elec Overload	0	0	0	0.0%
Equipt Failure	640	23	49926	11.0%
Lightning	2	1	608	0.5%
Tree, Off, R.O.W.	6611	126	834774	60.3%
Tree, On R.O.W.	31	3	2334	1.4%
Unknown	1036	25	88180	12.0%
Wind	0	0	0	0.0%
Total	8822	209	1003018	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
10/4/2023	6:55:00 PM	10/4/2023 10:13:00 PM	713	Equipment failure
11/21/2023	3:17:00 PM	11/22/2023 7:23:00 AM	1175	High wind

Cause	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-23	Feb-23	Mar-23	
NUMBER OF OUTAGES													
Animal	1	1	5	10	5	1	2	2	0	0	2	2	31
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	4	1	0	2	4	4	0	0	2	1	0	5	23
Lightning	0	0	0	1	0	0	0	0	0	0	0	0	1
Tree, Off, R.O.W.	2	4	3	19	16	19	13	13	10	2	6	19	126
Tree, On R.O.W.	0	1	0	0	0	1	0	0	0	0	0	1	3
Unknown	1	2	2	1	8	2	1	4	1	0	2	1	25
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	9	10	33	33	27	16	19	13	3	10	28	209

Cause	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-23	Feb-23	Mar-23	
CUSTOMERS AFFECTED													
Animal	3	68	5	374	19	5	7	6	0	0	13	2	502
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	146	1	0	69	18	86	0	0	32	3	0	285	640
Lightning	0	0	0	2	0	0	0	0	0	0	0	0	2
Tree, Off, R.O.W.	22	433	672	812	850	1691	328	787	262	69	127	558	6611
Tree, On R.O.W.	0	28	0	0	0	2	0	0	0	0	0	1	31
Unknown	9	306	33	13	428	4	1	225	1	0	5	11	1036
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	180	836	710	1270	1315	1788	336	1018	295	72	145	857	8822

Cause	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-23	Feb-23	Mar-23	
Customer Minutes													
Animal	309	3199	250	21032	662	209	627	284	0	0	499	125	27196
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	11615	79	0	1902	1930	9652	0	0	5435	285	0	19029	49926
Lightning	0	0	0	608	0	0	0	0	0	0	0	0	608
Tree, Off, R.O.W.	4628	60004	61900	160840	72450	219803	40453	80584	39657	6991	14444	73020	834774
Tree, On R.O.W.	0	2073	0	0	0	116	0	0	0	0	0	145	2334
Unknown	473	11138	2078	918	44323	208	104	27877	60	0	284	716	88180
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	17025	76493	64227	185301	119365	229987	41185	108745	45152	7276	15227	93035	1003018

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****4th Quarter 2023**

SAIDI
155

SAIFI
1.37

CAIDI
114

ROLLING TWELVE MONTH STANDARD AS ESTABLISHED BY THE PUC

SAIDI
278

SAIFI
1.66

CAIDI
167

ROLLING THREE YEAR AVERAGE INTERRUPTION INDEXS

SAIDI
143

SAIFI
1.13

CAIDI
121

ROLLING THREE YEAR AVERAGE STANDARD AS ESTABLISHED BY THE PUC

SAIDI
185

SAIFI
1.12

CAIDI
136

AVERAGE NUMBER OF CUSTOMERS SERVED

6456

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-23	185301	6459
Aug-23	119364	6460
Sept-23	229987	6462
Oct-23	41184.6	6460
Nov-23	108745.2	6464
Dec-23	45151.8	6466
Totals	1003017.6	77476

Average # Customers Served **6456**

ROLLING TWELVE MONTH AVERAGE SAIDI INDEX **155.35**

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-23	1270	6459
Aug-23	1315	6460
Sept-23	1788	6462
Oct-23	336	6460
Nov-23	1018	6464
Dec-23	295	6466
Totals	8822	77476

Average # Customers Served **6456**

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-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-23	185301	1270
Aug-23	119364	1315
Sept-23	229987	1788
Oct-23	41184.6	336
Nov-23	108745.2	1018
Dec-23	45151.8	295
Totals	1003017.6	8822

Rolling Twelve Month Average CAIDI Index**113.70**

ROLLING THREE YEAR WORKSHEET

4th 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
4-23	30.00	0.26	118.00
3-23	83.00	0.68	122.00
2-23	24.00	0.27	91.00
1-23	18.00	0.17	108.00
	429	3.4	1457
	143	1.133333	121.4167

Summary

Trees caused (61.7%) of the outages (1.4% ON-ROW and 60.3% OFF-ROW)

Animal contacts caused (14.8%) of the outages

Unknown (12%)

Equipment failures (11%) these outages were associated with cutouts, arrestors, and jumpers.

Lightning (0.5%)

The Company filed exemptions for 2 major events in the 4th quarter of 2023 due to an equipment failure and high winds.

The Company continues to see off ROW trees being the largest cause of outages for the 4th quarter of 2023.