

WELLSBORO ELECTRIC COMPANY

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

Fourth quarter 2022

October-December 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 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	1277	57	180514	24.9%
Elec Overload	0	0	0	0.0%
Equipt Failure	1351	35	255308	15.3%
Lightning	43	8	3281	3.5%
Tree, Off, R.O.W.	3315	89	386547	38.9%
Tree, On R.O.W.	64	5	10310	2.2%
Unknown	974	35	79415	15.3%
Wind	0	0	0	0.0%
Total	7024	229	915376	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
12/23/2022	9:41:00 AM	12/24/2022 12:51:00 AM	2550	high wind

Cause	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-22	Feb-22	Mar-22	
NUMBER OF OUTAGES													
Animal	7	7	11	15	1	3	1	3	0	0	8	1	57
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	4	1	0	35
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	4	6	3	89
Tree, On R.O.W.	1	0	2	0	0	0	0	1	0	0	1	0	5
Unknown	1	4	5	7	5	1	1	4	1	2	1	3	35
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	19	20	29	40	11	19	15	29	13	10	17	7	229

Cause	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-22	Feb-22	Mar-22	
CUSTOMERS AFFECTED													
Animal	611	78	72	249	47	38	14	31	0	0	136	1	1277
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	9	249	0	1351
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	468	254	43	3315
Tree, On R.O.W.	34	0	19	0	0	0	0	1	0	0	10	0	64
Unknown	1	9	66	104	61	2	24	550	57	2	1	97	974
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	1576	262	467	830	191	673	136	1308	311	479	650	141	7024

Cause	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-22	Feb-22	Mar-22	
Customer Minutes													
Animal	149503	4705	3809	12455	2589	1016	717	1525	0	0	4172	23	180514
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	1348	62897	0	255308
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	43930	51692	5683	386547
Tree, On R.O.W.	7396	0	1805	0	0	0	0	109	0	0	999	0	10310
Unknown	43	506	3619	7586	4330	58	1281	55212	3456	170	85	3069	79415
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	310862	21248	41083	75535	23963	54249	8083	175252	31031	45448	119846	8776	915376

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 2022**

SAIDI
142

SAIFI
1.09

CAIDI
130

ROLLING TWELVE MONTH STANDARD AS ESTABLISHED BY THE PUC

SAIDI
278

SAIFI
1.66

CAIDI
167

ROLLING THREE YEAR AVERAGE INTERRUPTION INDEXS

SAIDI
129

SAIFI
1.06

CAIDI
120

ROLLING THREE YEAR AVERAGE STANDARD AS ESTABLISHED BY THE PUC

SAIDI
185

SAIFI
1.12

CAIDI
136

AVERAGE NUMBER OF CUSTOMERS SERVED

6429

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-22	75535	6430
Aug-22	23963	6437
Sept-22	54249	6441
Oct-22	8083	6443
Nov-22	175252	6443
Dec-22	31031	6447
Totals	915375	77151

Average # Customers Served **6429**

ROLLING TWELVE MONTH AVERAGE SAIDI INDEX **142.38**

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-22	830	6430
Aug-22	191	6437
Sept-22	673	6441
Oct-22	136	6443
Nov-22	1308	6443
Dec-22	311	6447
Totals	7024	77151

Average # Customers Served **6429**

Rolling Twelve Month Average SAIFI Index **1.09**

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

<u>Month</u>	<u>Total Customer Minutes</u>	<u># Customers Interrupted</u>
Jan-22	45447.6	479
Feb-22	119845.8	650
Mar-22	8775.6	141
April -22	310862	1576
May-22	21248	262
June-22	41083	467
July-22	75535	830
Aug-22	23963	191
Sept-22	54249	673
Oct-21	8083	136
Nov-21	175252	1308
Dec-21	31031	311
Totals	915375	7024

Rolling Twelve Month Average CAIDI Index**130.32**

ROLLING THREE YEAR WORKSHEET

4th Quarter 2022

<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
1-20	8.00	0.08	98.00
	388	3.18	1435
	129.3333	1.06	119.5833

Summary

Trees caused (41.0%) of the outages (2.2% ON-ROW and 38.9% OFF-ROW)

Animal contacts caused (24.9%) of the outages

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

Unknown (15.3%)

Lightning (3.5%)

The Company filed an exemption for 1 major event in the 4th quarter of 2022 due to a high wind event.

The Company continues to see off ROW trees being the largest cause of outages for the 4th quarter of 2022.