

WELLSBORO ELECTRIC COMPANY

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

Third quarter 2022

July-September 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	1350	69	184476	28.2%
Elec Overload	0	0	0	0.0%
Equipt Failure	1125	34	200312	13.9%
Lightning	43	8	3281	3.3%
Tree, Off, R.O.W.	4012	93	610916	38.0%
Tree, On R.O.W.	135	5	36994	2.0%
Unknown	459	36	29126	14.7%
Wind	0	0	0	0.0%
Total	7124	245	1065106	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
7/21/2022	4:50:00 PM	7:54:00 PM	1731	Off ROW tree
7/22/2022	8:38:00 PM	9:41:00 PM	815	Animal contact
8/4/2022	1:30:00 PM	4:12:00 PM	743	High wind
8/30/2022	8:20:00 AM	10:59:00 AM	755	Off ROW tree
9/24/2022	9:38:00 AM	11:56:00 AM	1716	Off ROW tree
9/26/2022	2:44:00 PM	6:52 PM	2338	High wind

Cause	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	
NUMBER OF OUTAGES													
Animal	7	7	11	15	1	3	4	8	4	0	8	1	69
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	2	4	1	0	34
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	8	3	30	4	6	3	93
Tree, On R.O.W.	1	0	2	0	0	0	0	0	1	0	1	0	5
Unknown	1	4	5	7	5	1	6	1	0	2	1	3	36
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	19	20	29	40	11	19	20	16	37	10	17	7	245

Cause	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	
CUSTOMERS AFFECTED													
Animal	611	78	72	249	47	38	6	46	66	0	136	1	1350
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	630	4	61	62	0	1	4	101	4	9	249	0	1125
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	110	134	1196	468	254	43	4012
Tree, On R.O.W.	34	0	19	0	0	0	0	0	72	0	10	0	135
Unknown	1	9	66	104	61	2	88	28	0	2	1	97	459
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	1576	262	467	830	191	673	208	309	1338	479	650	141	7124

Cause	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	
Customer Minutes													
Animal	149503	4705	3809	12455	2589	1016	225	1397	4582	0	4172	23	184476
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	110318	508	6403	5063	0	178	554	12774	268	1348	62897	0	200312
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	10321	29785	267737	43930	51692	5683	610916
Tree, On R.O.W.	7396	0	1805	0	0	0	0	0	26794	0	999	0	36994
Unknown	43	506	3619	7586	4330	58	7132	2527	0	170	85	3069	29126
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	310862	21248	41083	75535	23963	54249	18232	46483	299381	45448	119846	8776	1065106

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****3rd Quarter 2022**

SAIDI
166

SAIFI
1.11

CAIDI
150

ROLLING TWELVE MONTH STANDARD AS ESTABLISHED BY THE PUC

SAIDI
278

SAIFI
1.66

CAIDI
167

ROLLING THREE YEAR AVERAGE INTERRUPTION INDEXS

SAIDI
122

SAIFI
1.00

CAIDI
119

ROLLING THREE YEAR AVERAGE STANDARD AS ESTABLISHED BY THE PUC

SAIDI
185

SAIFI
1.12

CAIDI
136

AVERAGE NUMBER OF CUSTOMERS SERVED

6420

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-21	18232	6403
Nov-21	46483	6411
Dec-21	299381	6411
Totals	1065105	77043

Average # Customers Served **6420**

ROLLING TWELVE MONTH AVERAGE SAIDI INDEX **165.90**

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-21	208	6403
Nov-21	309	6411
Dec-21	1338	6411
Totals	7124	77043

Average # Customers Served **6420**

Rolling Twelve Month Average SAIFI Index **1.11**

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	18232	208
Nov-21	46483	309
Dec-21	299381	1338
Totals	1065105	7124

Rolling Twelve Month Average CAIDI Index**149.51**

ROLLING THREE YEAR WORKSHEET

3rd Quarter 2022

<u>QTR</u>	<u>SAIDI</u>	<u>SAIFI</u>	<u>CAIDI</u>
4-19	11.00	0.10	113.00
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
	366	3.01	1426
	122	1.003333	118.8333

Summary

Trees caused (40.0%) of the outages (2% ON-ROW and 38% OFF-ROW)

Animal contacts caused (28.2%) of the outages

Equipment failures (13.9%) these outages were associated with cutouts, arrestors, and jumpers.

Unknown (14.7%)

Lightning (3.3%)

The Company filed an exemption for 6 major event in the 3rd quarter of 2022 due to several off ROW trees and high wind events.

The Company continues to see off ROW trees being the largest cause of outages for the 3rd quarter of 2022.

There were no on ROW tree outages in the 3rd quarter of 2022.