

# WELLSBORO ELECTRIC COMPANY

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

First quarter 2022

January-March 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	424	42	17828	18.8%
Elec Overload	0	0	0	0.0%
Equipt Failure	1637	35	233095	15.7%
Lightning	32	4	4193	1.8%
Tree, Off, R.O.W.	3739	100	634377	44.8%
Tree, On R.O.W.	446	13	49854	5.8%
Unknown	617	29	56328	13.0%
Wind	0	0	0	0.0%
<b>Total</b>	<b>6895</b>	<b>223</b>	<b>995675</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>
3/7/2022	6:03:00 PM	3/8/2022 10:11:00 AM	735	High wind event

Cause	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	
<b>NUMBER OF OUTAGES</b>													
Animal	2	0	5	4	5	1	4	8	4	0	8	1	42
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	2	1	3	8	4	4	2	4	2	4	1	0	35
Lightning	0	0	2	2	0	0	0	0	0	0	0	0	4
Tree, Off, R.O.W.	6	4	2	15	9	10	8	3	30	4	6	3	100
Tree, On R.O.W.	2	1	2	1	1	4	0	0	1	0	1	0	13
Unknown	0	2	2	7	4	1	6	1	0	2	1	3	29
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	8	16	37	23	20	20	16	37	10	17	7	223

Cause	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	
<b>CUSTOMERS AFFECTED</b>													
Animal	2	0	68	25	70	4	6	46	66	0	136	1	424
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	3	7	13	266	595	386	4	101	4	9	249	0	1637
Lightning	0	0	30	2	0	0	0	0	0	0	0	0	32
Tree, Off, R.O.W.	123	26	2	895	340	148	110	134	1196	468	254	43	3739
Tree, On R.O.W.	54	1	2	3	250	54	0	0	72	0	10	0	446
Unknown	0	58	48	105	89	101	88	28	0	2	1	97	617
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	182	92	163	1296	1344	693	208	309	1338	479	650	141	6895

Cause	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	
<b>Customer Minutes</b>													
Animal	133	0	2893	1040	3166	197	225	1397	4582	0	4172	23	17828
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	263	1304	676	37268	96953	18788	554	12774	268	1348	62897	0	233095
Lightning	0	0	4030	163	0	0	0	0	0	0	0	0	4193
Tree, Off, R.O.W.	14683	3887	292	133121	49399	23847	10321	29785	267737	43930	51692	5683	634377
Tree, On R.O.W.	2013	65	156	164	15833	3830	0	0	26794	0	999	0	49854
Unknown	0	4221	3908	8392	16963	9861	7132	2527	0	170	85	3069	56328
Wind	0	0	0	0	0	0	0	0	0	0	0	0	0
	17092	9477	11956	180149	182314	56523	18232	46483	299381	45448	119846	8776	995675

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 2022**

SAIDI
155

SAIFI
1.08

CAIDI
144

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

SAIDI
278

SAIFI
1.66

CAIDI
167

**ROLLING THREE YEAR AVERAGE INTERRUPTION INDEXS**

SAIDI
111

SAIFI
0.97

CAIDI
114

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

SAIDI
185

SAIFI
1.12

CAIDI
136

**AVERAGE NUMBER OF CUSTOMERS SERVED**

6405
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**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-21	17092	6395
May-21	9477	6395
Jun-21	11956	6395
July-21	180149	6400
Aug-21	182314	6401
Sept-21	56523	6404
Oct-21	18232	6403
Nov-21	46483	6411
Dec-21	299381	6411
<b>Totals</b>	<b>995676</b>	<b>76864</b>

**Average # Customers Served** **6405**

**ROLLING TWELVE MONTH AVERAGE SAIDI INDEX** **155.44**

**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-21	182	6395
May-21	92	6395
Jun-21	163	6395
July-21	1296	6400
Aug-21	1344	6401
Sept-21	693	6404
Oct-21	208	6403
Nov-21	309	6411
Dec-21	1338	6411
<b>Totals</b>	<b>6895</b>	<b>76864</b>

**Average # Customers Served** **6405**

**Rolling Twelve Month Average SAIFI Index** **1.08**

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

<u>Month</u>	<u>Total Customer Minutes</u>	<u># Customers Interrupted</u>
Jan-21	45447.6	479
Feb-21	119845.8	650
Mar-21	8775.6	141
April -21	17092	182
May-21	9477	92
June-21	11956	163
July-21	180149	1296
Aug-21	182314	1344
Sept-21	56523	693
Oct-21	18232	208
Nov-21	46483	309
Dec-21	299381	1338
<b>Totals</b>	<b>995676</b>	<b>6895</b>

**Rolling Twelve Month Average CAIDI Index****144.41**

**ROLLING THREE YEAR WORKSHEET**

**1st Quarter 2022**

<u>QTR</u>	<u>SAIDI</u>	<u>SAIFI</u>	<u>CAIDI</u>
4-19	11.00	0.10	113.00
3-19	23.00	0.21	111.00
2-19	26.00	0.31	84.00
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
	333	2.91	1368
	111	0.97	114

## **Summary**

Trees caused (50.7%) of the outages (5.8% ON-ROW and 44.8% OFF-ROW)

Animal contacts caused (18.8%) of the outages

Equipment failures (15.7%) these outages were associated with cutouts, arrestors, and jumpers.

Unknown (13%)

Lightning (1.8%)

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

The Company continues to see trees being the largest cause of outages for the first quarter of 2022.