

WELLSBORO ELECTRIC COMPANY

QUARTERLY RELIABILITY REPORT 57.195 REPORTING REQUIREMENTS

First quarter 2021

January-March 2021

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	581	34	40927	16.3%
Elec Overload	0	0	0	0.0%
Equipt Failure	2576	44	163680	21.1%
Lightning	0	0	0	0.0%
Tree, Off, R.O.W.	2454	67	343339	32.1%
Tree, On R.O.W.	630	20	88507	9.6%
Unknown	891	41	57040	19.6%
Wind	70	3	5647	1.4%
Total	7202	209	699140	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
3/26/2021	10:00:00 AM	9:03:00 PM	730	High Wind/Off ROW trees

Cause	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	
NUMBER OF OUTAGES													
Animal	2	0	9	12	1	6	1	2	0	0	1	0	34
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	8	7	3	0	7	2	3	5	1	1	4	3	44
Lightning	0	0	0	0	0	0	0	0	0	0	0	0	0
Tree, Off, R.O.W.	10	1	0	3	7	5	2	32	1	0	0	6	67
Tree, On R.O.W.	2	0	1	2	5	4	0	1	0	1	1	3	20
Unknown	6	4	8	4	7	3	1	3	1	1	0	3	41
Wind	3	0	0	0	0	0	0	0	0	0	0	0	3
	31	12	21	21	27	20	7	43	3	3	6	15	209

Cause	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	
CUSTOMERS AFFECTED													
Animal	4	0	194	318	1	59	1	3	0	0	1	0	581
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	75	1246	26	0	1120	33	4	40	18	1	8	5	2576
Lightning	0	0	0	0	0	0	0	0	0	0	0	0	0
Tree, Off, R.O.W.	731	6	0	242	511	170	68	590	28	0	0	108	2454
Tree, On R.O.W.	59	0	1	285	90	36	0	58	0	12	9	80	630
Unknown	86	85	284	18	85	30	1	216	13	69	0	4	891
Wind	70	0	0	0	0	0	0	0	0	0	0	0	70
	1025	1337	505	863	1807	328	74	907	59	82	18	197	7202

Cause	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	
Customer Minutes													
Animal	282	0	18708	13503	39	7946	28	230	0	0	191	0	40927
Elec Overload	0	0	0	0	0	0	0	0	0	0	0	0	0
Equipt Failure	6667	90574	2806	0	46691	4348	751	7400	2792	169	925	557	163680
Lightning	0	0	0	0	0	0	0	0	0	0	0	0	0
Tree, Off, R.O.W.	47954	238	0	23353	128866	22354	30912	73451	5456	0	0	10754	343339
Tree, On R.O.W.	7996	0	35	37709	15860	6433	0	8466	0	938	821	10248	88507
Unknown	3316	6280	16678	1251	6326	2278	46	16811	159	3646	0	250	57040
Wind	5647	0	0	0	0	0	0	0	0	0	0	0	5647
	71863	97091	38228	75817	197782	43358	31736	106358	8407	4753	1937	21809	699140

Rolling 12-Month reliability index values (SAIFI,CAIDI,SAIDI) for the EDC'S service territory for the preceding 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 2021

SAIDI
110

SAIFI
1.13

CAIDI
97

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
1.06

CAIDI
115

ROLLING THREE YEAR AVERAGE STANDARD AS ESTABLISHED BY THE PUC

SAIDI
185

SAIFI
1.12

CAIDI
136

AVERAGE NUMBER OF CUSTOMERS SERVED

6375

Wellsboro Electric Company

Reliability Index

SAIDI

<u>Month</u>	<u>Total Customer Minutes</u>	<u># Customers Served</u>
Jan-21	4753.2	6391
Feb-21	1937.4	6391
Mar-21	21809.4	6391
Apr-20	71863	6364
May-20	97091	6368
Jun-20	38228	6374
July-20	75817	6366
Aug-20	197782	6368
Sept-20	43358	6370
Oct-20	33736	6371
Nov-20	106358	6372
Dec-20	8407	6374
Totals	701140	76500

Average # Customers Served **6375**

ROLLING TWELVE MONTH AVERAGE SAIDI INDEX **109.98**

Wellsboro Electric Company

Reliability Index

SAIFI

<u>Month</u>	<u># Customers Interrupted</u>	<u># Customers Served</u>
Jan-21	82	6391
Feb-21	18	6391
Mar-21	197	6391
Apr-20	1025	6364
May-20	1337	6368
Jun-20	505	6374
July-20	863	6366
Aug-20	1807	6368
Sept-20	328	6370
Oct-20	74	6371
Nov-20	907	6372
Dec-20	59	6374
Totals	7202	76500

Average # Customers Served 6375

Rolling Twelve Month Average SAIFI Index 1.13

Wellsboro Electric Company

Reliability Index

CAIDI

<u>Month</u>	<u>Total Customer Minutes</u>	<u># Customers Interrupted</u>
Jan-21	4753.2	82
Feb-21	1937.4	18
Mar-21	21809.4	197
April -20	71863	1025
May-20	97091	1337
June-20	38228	505
July-19	75817	863
Aug-19	197782	1807
Sept-19	43358	328
Oct-19	33736	74
Nov-19	106358	907
Dec-19	8407	59
Totals	701140	7202

Rolling Twelve Month Average CAIDI Index

97.35

ROLLING THREE YEAR WORKSHEET

1st Quarter 2021

<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
1-19	21.00	0.15	144.00
4-18	36.59	0.25	143.79
3-18	44.53	0.45	99.40
2-18	86.41	0.51	170.04
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
	366.53	3.19	1378.23
	122.1767	1.063333	114.8525

Summary

Trees caused (41.6%) of the outages (9.6% ON-ROW and 32.1% OFF-ROW)

Equipment failures (21.1%)

Unknown (19.6%)

Animal contacts caused (16.3%) of the outages

The Company filed an exemption for 1 major event in the first quarter of 2021 due to a high wind event.

The Company continues to add new devices to the system to help sectionalize outages and cut down on the amount of outage times.

For the first quarter of 2021 our numbers have decreased compared to the 4th quarter of 2020.

The Company saw our Unknown outages and Tree outages hold steady for the first quarter of 2021.