

**Minutes of
Shawano Municipal Utilities
Regular Commission Meeting
January 10, 2022**

Present: Hoefts, Reuter, Celmer, Pescinski, Malueg, Keuschel and Milavitz

Also Present: General Manager Knapp, Electrical Engineer Koepp, Financial Director Miller, Network Administrator Bisterfeldt and City Administrator Sheppard

Meeting called to order at 4:00 p.m. by President Pescinski at the Shawano Municipal Utilities office.

Minutes of the December 6, 2021 were read and placed on file.

FINANCIAL

Motion by Hoefts, seconded by Reuter to approve the vouchers in the amount of \$2,006,266.94. Roll Call = (Hoefts, Reuter, Celmer Pescinski, Malueg, Keuschel and Milavitz) = All Yes.

ELECTRICAL

Inspections

1,251 of the 2,406 poles on the system were inspected in 2021. 1,163 of the 5,458 overhead secondaries and services were inspected in 2021. 0 of the 1,733 underground pieces of equipment on the system were inspected in 2021. So far in 2021 2,414 inspections of 9,597 have been completed or 25.15%. Our goal is to inspect 20% of the system a year. In prior years we have inspected 20.70%, 9.05%, 22.43%, 13.86%, 13.50% in 2016, 2017, 2018, 2019, and 2020 respectively.

2020 Budget

35 kV recloser has arrived. Tentative installation in spring 2022.

2021 Budget

- Transformers have all been received.
- New reel trailer was received.
- 35 kV switch for East Shawano backup was received. Waiting on an outage from Arrowcast to install the riser for this switch.
- SMU crews replaced twenty-one poles North and West of Shawano. These were poles that were reported as needing replacement from pole inspections done by Karcz Utility Services. The 2021 budget included \$70,000 for pole replacements.
- Shawano Plaza OH to URD Conversion – The East side of S Main Street is all converted. On the West side of the project the conduit has been installed going North from the new bathrooms behind the Civic Center.
- Industrial Drive 35 kV underground relocation – This project is completed.

2022 Budget

- An updated price has been received for the new jib for truck 237. The work on the truck is scheduled for February.

- The new breakers for the Wescott Substation have been ordered. Approval of the proposal to replace the battery bank will be during the February meeting.
- Bids for the tracked backyard derrick/bucket will be presented at the February meeting.
- Proposals for underground installation for 2022 – 2024 will be presented at the February meeting.

Primary Extension Projects 2020 and 2021

- 1229-1239 Ridlington Avenue – The northern half of the project is completed. The builder plans to install three more duplexes to the South in 2021 and there is a small portion of secondary that would need to be installed in 2021 for these three duplexes.
- 657 N Main Street – This project is completed.
- 3rd & Bartlett – This project is completed.
- Swiderski Development – The primary cables and transformers will all be installed in October along with the services to the Northern 6 buildings. SMU crews are currently working on this project as fill in work terminating the primary cables and installing the transformers on the Southern half of the complex.
- Balsam Court – The primary has been installed and terminated. We still have a small secondary run to be installed in spring for the streetlight on the corner. The first duplex on this court has been connected.
- 1523 Industrial Drive – The primary has been installed. The transformer pad and CT cabinet were set at the end of November. The customer is anticipating needed power the middle of January.
- 103 Alpine Court – This will be installed in spring.
- 123 E Elizabeth Street – This project is completed.

Miscellaneous

- Read SMU and BPMA Subs every other week.
- Repaired streetlight outages.
- Tested meters.
- Energized services.
- Read large power.
- Installed a taller pole for a NSight small cell deployment on E Green Bay Street by the intersection of Lakeland Road.

Outages

<u>Location</u>	<u>Cause</u>	<u>Date</u>	<u>Est. # of Cust.</u>
BPMA Line 5570	Tree	12-16-21	2,000

SAIDI - System Average Interruption Duration Index

Sum of all Customer Interruption Duration/Total # of Customers

SAIFI - System Average Interruption Frequency Index

Total # of Customers Interrupted/Total # of Customers

CAIDI - Customer Average Interruption Duration Index

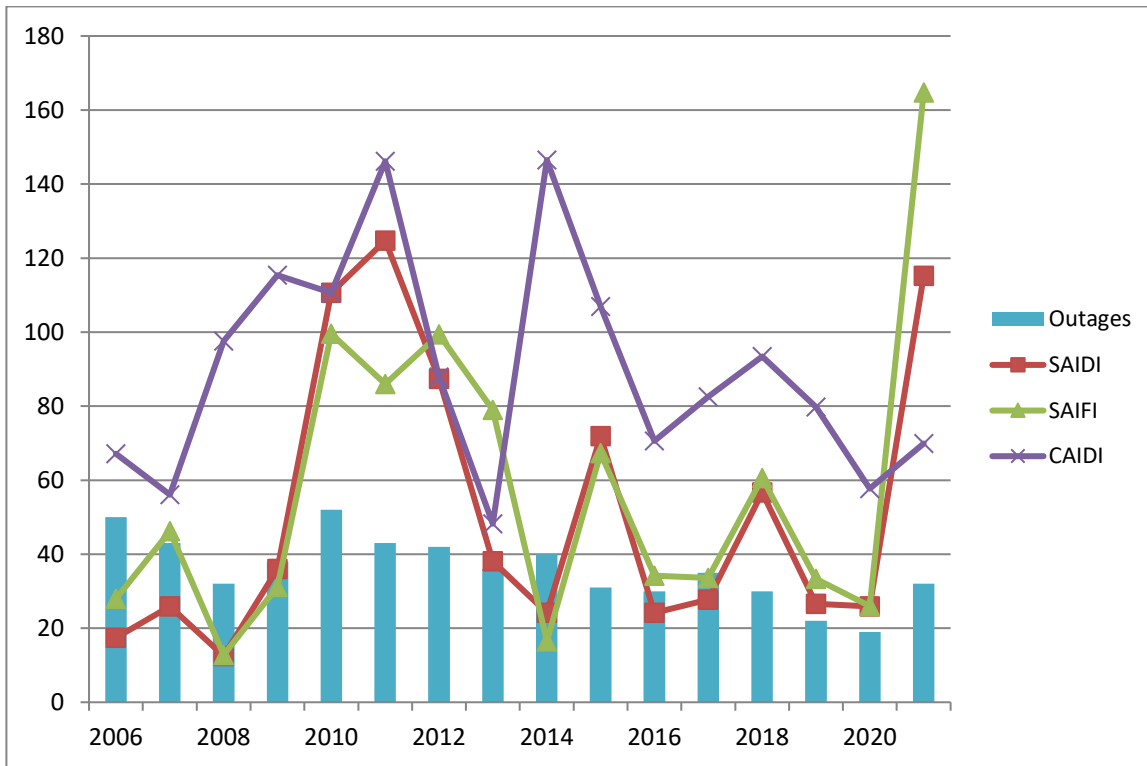
Sum of all Customer Interruption Duration/Total # of Customer Interruptions

Avg. monthly # of customer minutes/month – 246,240,000 minutes

Avg. yearly # of customer minutes/year – 2,995,920,000 minutes

Month	# of Outages	# of Customers Interrupted	Interruption Duration (Minutes)	SAIDI	SAIFI	CAIDI
Dec. 2021	1	2,000	160,000	28.070	0.351	80
Nov. 2021	1	5	600	0.105	0.001	120
Oct. 2021	1	5	375	0.066	0	75
Sep. 2021	4	937	21,210	3.721	0.164	22.636
Aug. 2021	3	10	840	0.147	0.002	84
Jul. 2021	5	407	61,320	10.758	0.071	150.663
Jun. 2021	8	4,033	346,555	66.408	0.708	85.930
May 2021	6	290	34,670	6.082	0.051	119.552
Apr. 2021	1	1	120	0.021	0	120
Mar. 2021	1	10	900	0.158	0.002	90
Feb. 2021	1	90	90	0.016	0	90
Jan. 2021	1	1,500	30,000	5.263	0.263	20
Dec. 2020	1	200	24,000	4.210	0.035	120
Rolling 12	32	9,389	656,700	115.211	1.647	69.944

Year	# of Outages	SAIDI	SAIFI	CAIDI
Rolling 12 Mo	32	115.211	1.647	69.944
2021	32	115.211	1.647	69.944
2020	19	25.885	0.260	57.748
2019	22	26.559	0.333	79.718
2018	30	56.662	0.606	93.426
2017	35	27.710	0.336	82.521
2016	30	24.163	0.342	70.582
2015	31	71.932	0.673	106.884
2014	40	24.197	0.165	146.471
2013	36	38.101	0.790	48.243
2012	42	87.349	0.994	87.860
2011	43	124.719	0.860	146.148
2010	52	110.643	0.996	110.643
2009	38	36.012	0.312	115.352
2008	32	12.517	0.128	97.584
2007	43	25.906	0.462	56.064
2006	50	17.448	0.280	67.167



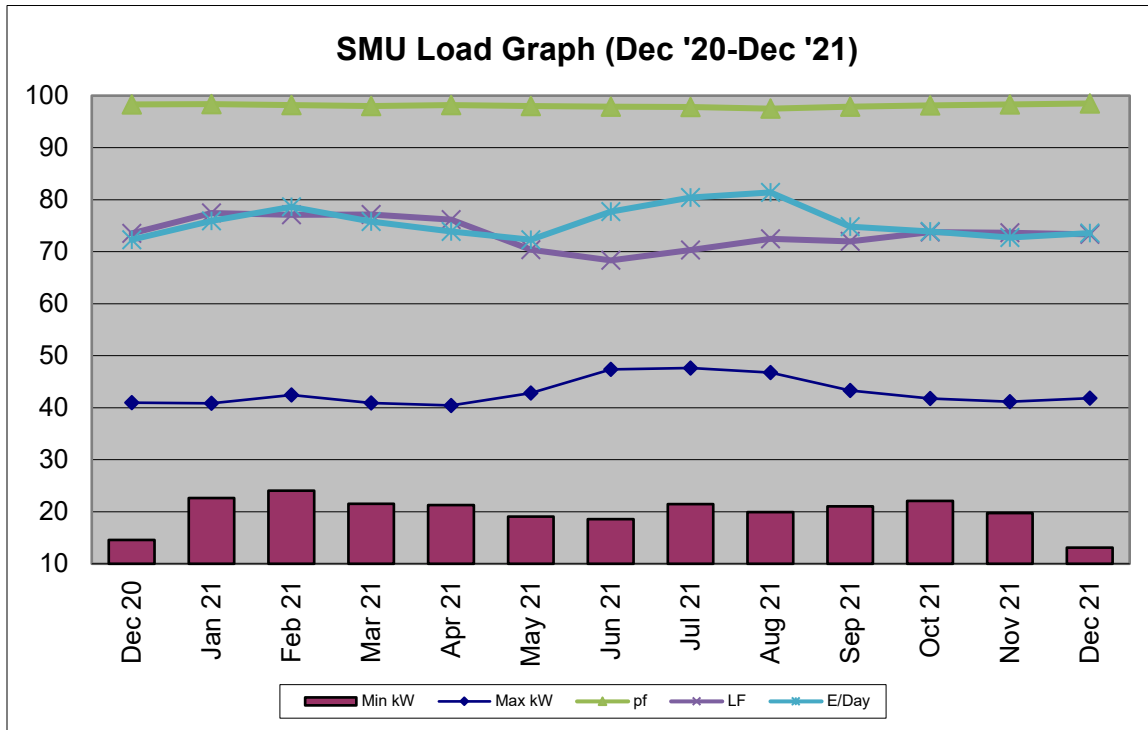
Reliability Comparison - US Energy Information Administration's Website

	SAIDI (Outage Minutes/Customer)	SAIFI (Customer Outages/Year)
WI Mun Avg (2016)	22.184	0.349
(2017)	12.964	0.223
(2018)	21.429	0.315
WI Avg (2016)	62.209	0.665
(2017)	52.045	0.505
(2018)	59.408	0.522
US Avg (2016)	130.811	1.256
(2017)	137.664	1.228
(2018)	142.987	1.274
SMU (2016)	24.163	0.342
(2017)	27.710	0.336
(2018)	56.662	0.606
(2019)	26.559	0.333

SMU System Load

Month	Load Max.	Load Min.	Power Factor	Load Factor	Energy/Day
Dec. 2021	41.81	13.08	98.5	73.32	736
Nov. 2021	41.14	19.76	98.3	73.66	727
Oct. 2021	41.75	22.10	98.1	73.79	739
Sep. 2021	43.31	21.01	97.9	72.00	748
Aug. 2021	46.78	19.95	97.5	72.49	814
Jul. 2021	47.64	21.45	97.8	70.32	804
Jun. 2021	47.38	18.56	97.9	68.33	777
May 2021	42.80	19.07	98.0	70.41	723

Apr. 2021	40.44	21.29	98.2	76.16	738
Mar. 2021	40.93	21.51	98.0	77.13	758
Feb. 2021	42.47	24.04	98.2	77.06	786
Jan. 2021	40.86	22.63	98.4	77.43	759
Dec. 2020	40.99	14.56	98.3	73.49	723



INFORMATION TECHNOLOGY

Helpdesk Tickets

44 support tickets closed last month. Same as prior month.

Fiber Audit

MCE has been trying to contact Vetro mapping support to see if they are able to export out a Database backup file. This file would then be used to import splicing data into the Condor fiber mapping. Once we know we can get this file, Mpower will be better able to say how much time and effort will be needed to setup and implement the Condor mapping solution.

Network Maintenance

Work has begun on updating switch operating systems on the network. New operating software has been downloaded and will be tested on various switches prior to rollout.

Clintonville Utilities Fiber – Delayed: Additional materials needed to be ordered.

We will be installing new switches to support Clintonville's new fiber infrastructure in the next few weeks. We also have plans to install new fiber termination panels at the Clintonville substation this month to clean up existing fiber panels.

Cybersecurity Initiatives

Spreadsheet to be reviewed at meeting.

GIS Server

The GIS server was received last month and installed in the Racks. 4 Virtual Servers were setup and installed. This included setting up VM replication and Backup Software. I have been waiting to hear back from PowerEng for an installation schedule.

Landfill Software Implementation

Work was started last month already in preparation for the new Landfill management software. A new Scale interface is being installed on Friday January 7th. On Monday, January 10th, the new software will be installed after the Landfill closes for the day. First day of operation will be Tuesday the 11th.

ADMINISTRATION

Handout at meeting.

AGENDA BILL

Motion by Malueg, seconded by Hoeffs to approve the quote from Complete Office in the amount of \$2,569.50 for 10 chairs to replace the old conference room chairs. Roll Call (Malueg, Hoeffs, Reuter, Celmer, Pescinski, Keuschel and Milavitz) = All Yes.

Motion by Keuschel, seconded by Milavitz to approve the quote from Office Enterprises in the amount of \$6,753 for the replacement of the existing folder/inserters. Roll Call (Keuschel, Milavitz, Hoeffs, Reuter, Celmer, Pescinski and Malueg) = All Yes.

Motion by Hoeffs, seconded by Celmer to go into closed session at 4:56 p.m. according to Wisconsin State Statute 19.85 (1)(c) considering employment, promotion, compensation or performance evaluation data of any public employee over which the governmental body has jurisdiction or exercises responsibility to discuss the consideration evaluation and development plan and 2022 wage adjustments. Motion carried.

Motion by seconded by to return to open session at p.m.

Action

Meeting adjourned at

Respectfully submitted by,

Robert Koepp
Secretary