

**Minutes of
Shawano Municipal Utilities
Regular Commission Meeting
June 6, 2022**

Present: Pescinski, Milavitz, Keuschel, Reuter and Malueg
Absent: Celmer and Hoeffs

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

Meeting called to order at 4:00 p.m. by President Pescinski.

Minutes of the May 9, 2022 meeting were read and placed on file.

FINANCIAL

Motion by Milavitz, seconded by Malueg to approve the vouchers in the amount of \$1,840,298.76. Roll Call (Milavitz, Malueg, Pescinski, Keuschel and Reuter) = All Yes.

ELECTRICAL

Inspections

Crews have been out doing some inspecting so far in 2022. As of 3/1/22, 2,635 points have been inspected in 2022 or 27.46%. In 2021 2,414 inspections of 9,597 total point were 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.

2021 Budget

- 35 kV switch for East Shawano backup was received. Arrowcast has a tentatively planned outage for the week of 10/22.
- 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 all been installed. The crews will be moving to this project after a project by 4th and N Bartlett.

2022 Budget

- An updated price has been received for the new jib for truck 237. We are waiting for the parts to arrive.
- The new breakers for the Wescott Substation were received the beginning of February. The programming for the relays needs to be completed. Once that is done the breakers can be installed. The battery bank replacement was approved and was completed May 16-18.
- Bids for the tracked backyard derrick/bucket were approved and the unit is on order. Estimated delivery is summer of 2023.

- Quotes for a switchgear for the OH-URD Conversion budget item was approved and is on order. The basement for this unit has been received. This switchgear will be going by the L&N Hardwoods facility on Anderson Avenue.
- SMU crews will be starting the pole relocations for the DPW roadwork in March. Only one pole is left to relocate for these projects. The plan is to relocate this pole in June.
- SMU crews replaced 35 – 250 W HPS fixtures with 120 W LED fixtures. These were done on W Green Bay Street, CTH B, and Engel Drive.

Primary Extension Projects 2020 and 2021

- 1229-1239 Ridlington Avenue – This project is completed.
- Swiderski Development – Everything has been installed except services to two apartment buildings.
- Balsam Court – The only thing left on this project is to install a streetlight on the corner Balsam Court and Timber Trail.
- 1523 Industrial Drive – This project is completed.
- 103 Alpine Court – The primary cables have been installed for this project. The crews are starting to terminate the primary cables for this project. The service should be energized in early June.

Miscellaneous

- Read SMU and BPMA Subs every other week.
- Repaired street light 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>
817 E Maurer Street	Secondary Fault	5/9/22	Partial Power
CR-MMM & Poplar Rd	Unknown	5/12/22	10 & 1 – Partial
Sawyer & Highview	Tree	5/16/22	6
E Green Bay & Airport	Stinger of Cutout Broke	5/28/22	3 & 4 Partial

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

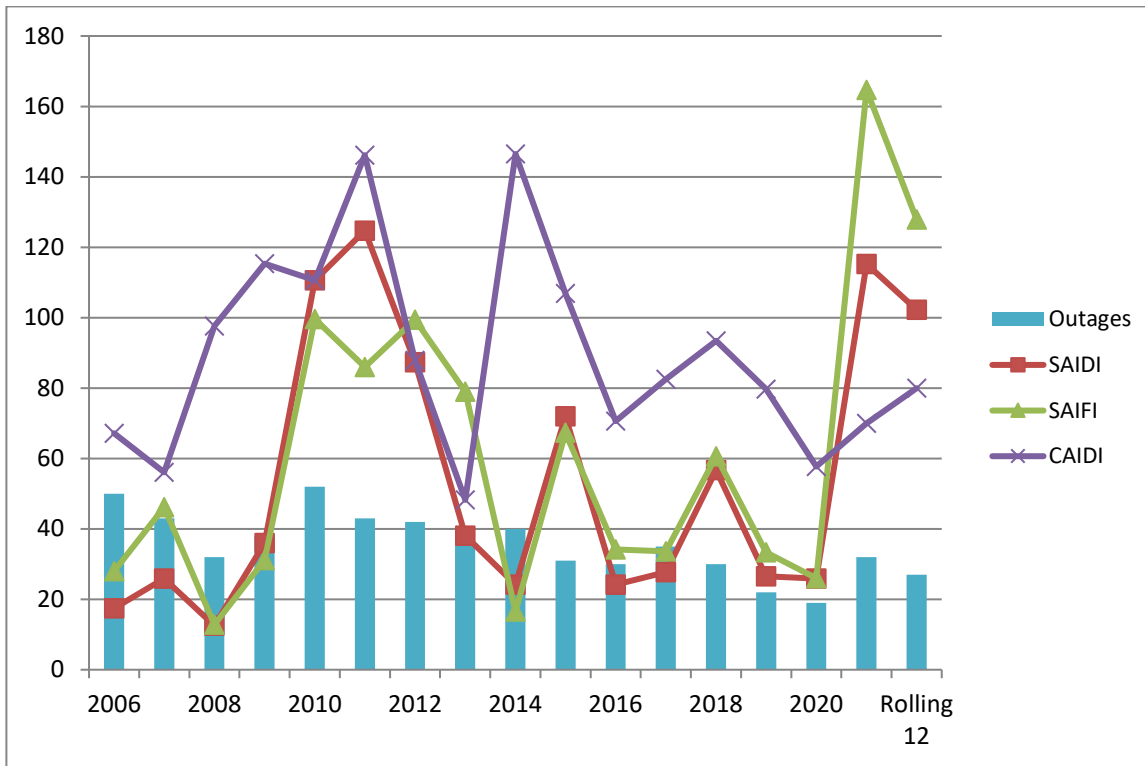
Sum of all Customer Interruption Duration/Total # of Customer Interruptions

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
May 2022	3	19	2,005			
Apr. 2022	1	1	150	0.026	0	150
Mar. 2022	0	0	0	0	0	0
Feb. 2022	0	0	0	0	0	0
Jan. 2022	0	0	0	0	0	0
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
Rolling 12	27	7,417	593,055	102.251	1.279	79.959

Year	# of Outages	SAIDI	SAIFI	CAIDI
Rolling 12 Mo	27	102.251	1.279	79.959
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



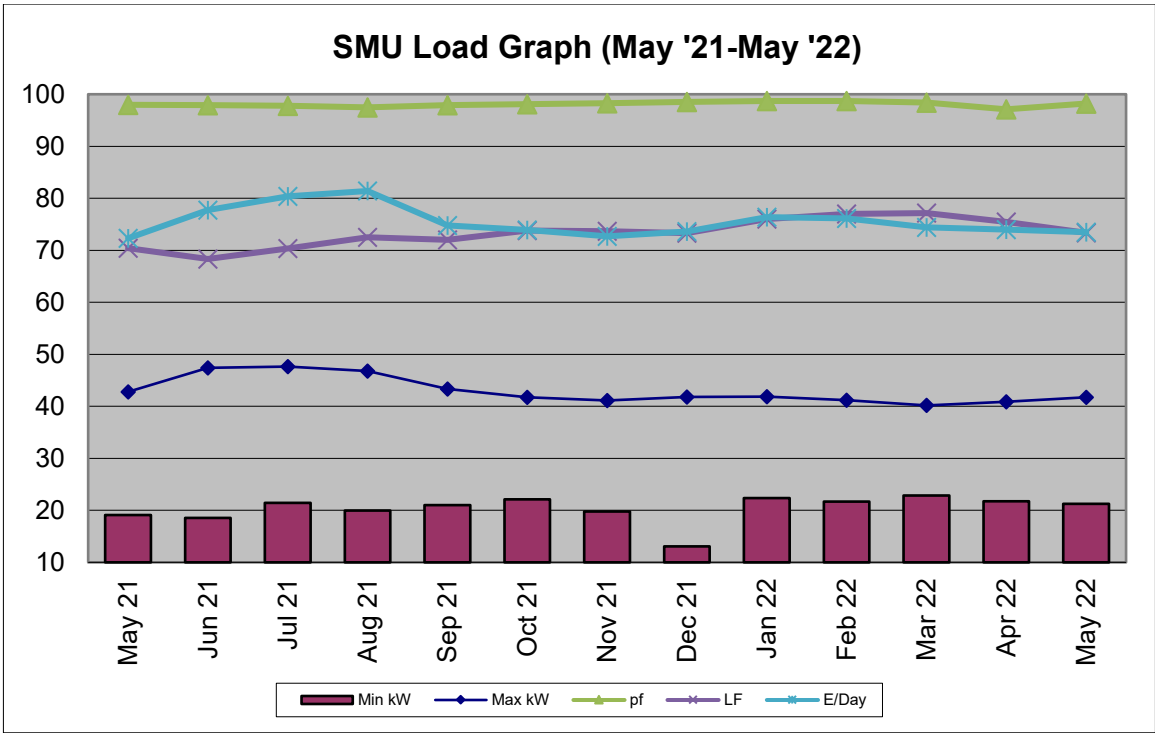
Reliability Comparison - US Energy Information Administration's Website

	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)	79.2	0.686
(2017)	78.8	0.625
(2018)	79.6	0.702
(2019)	93	0.755
(2020)	86.4	0.703
US Avg (2016)	113.1	1.062
(2017)	116.9	1.007
(2018)	117.2	1.028
(2019)	118.6	1.017
(2020)	119	1.037
SMU (2016)	24.163	0.342
(2017)	27.710	0.336
(2018)	56.662	0.606
(2019)	26.559	0.333
(2020)	25.885	0.260

SMU System Load

Month	Load Max.	Load Min.	Power Factor	Load Factor	Energy/Day
May 2022	41.75	21.24	98.2	73.39	735
Apr. 2022	40.87	21.74	97.1	75.46	740
Mar. 2022	40.17	22.86	98.4	77.15	744

Feb. 2022	41.19	21.66	98.7	76.99	761
Jan. 2022	41.88	22.33	98.7	76.03	764
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



ADMINISTRATION

Staffing

This week we are interviewing 8 candidates for the line worker position vacated in April. The pool is promising, and I am optimistic we will be comfortable making an offer of employment in the coming week. Staff and I are also considering the future succession needs of the line-crew. With our attrition history and one retirement likely within 5 years, it may be prudent to start another promising apprentice if there is more than one very good candidate in this pool. That will require approval by the Commission to increase our roster but I think it is worth the discussion soon.

GM Succession Planning

The product of the Commission and Staff SWOT exercises is included on the agenda under the item for the Mission/Vision Statements as they may provide some insight for the discussion.

2022 Test Year Rate Case

PSC staff have begun their review of the revenue requirement portion of our application and have asked that it be updated to reflect the recently filed 2021 annual report. That will take several more weeks of effort on Jennifer's part to update for full year 2021 operating results.

SMU Facilities

The topographic/boundary survey and the pre-demolition hazardous materials inspection and have been completed and delivered. Soil borings/testing are still at least a month out but should be completed by July.

Dimension IV has just provided 6 concept drawings/alternatives for us to consider. Space needs programming with generous dimensions has identified approximately 27,000 square feet of total construction versus the 20,000 identified in our 2017 space needs analysis. Some of that increase is an expansion of the staff office/gathering/workspaces but the majority is garage space to house equipment in ways that we do not currently and had not previously considered. We will be refining the concepts and tightening the space requirements over the next several weeks.

Miron Construction has offered the services of their Director of Sustainable Services, Theresa Lehman to help us identify ways to provide for a healthier built work environment and reduce the energy and environmental footprint of this project. My approach and direction regarding sustainable alternatives (such as geothermal heating/cooling) is that we should apply them, as long as the 30-year total cost of ownership (TCO) is competitive with traditional materials/solutions. I have also offered that we may consider a TCO premium of up to 20% depending on the overall quality, health and environmental benefits a solution is expected to provide. Those final cost decisions will be brought to the Commission for consideration.

One necessary question for the Commission at this stage of the process is: is there an interest in seeking LEED certification? Based on preliminary scoring by Ms. Lehman this project should easily attain "Silver" status and will be within "Gold" status with some effort and additional costs. The "LEED certification" application and fees are approximately \$6,000. Additional costs, on top of the quality long-lived building construction which we are already planning for, are expected to add about 1% to the cost of construction. I suggest that we would expect to budget up to \$100,000 on additional sustainable features needed to reach the LEED Gold status. LEED Certification is on the agenda for discussion and consideration.

Motion by Milavitz, seconded by Malueg to set a special meeting to consider staffing. Motion carried.

AGENDA BILL

Vehicle Purchase – this item was tabled until next month.

OLD BUSINESS

Building Design Update – Consideration for LEED Certification – this item was tabled until next month.

NEW BUSINESS

Review of current SMU Mission/Vision Statement – this item was discussed but no action was taken. Will be brought back next month.

Meeting adjourned at 5:53 p.m.

Respectfully submitted by,

Robert Koepp
Secretary