

**GRAND RAPIDS
PUBLIC UTILITIES**

Service is Our Nature

500 SE Fourth Street • Grand Rapids, Minnesota 55744

ELECTRIC DEPARTMENT MONTHLY REPORT April 2024 Commission Meeting

Reliability Report Last Month

SAIDI:	0.05	Avg Minutes / Customers Served	CAIDI:	19.98	Avg Minutes / Customer Out	Total Customers Out:	19
SAIFI:	0.00	Cust Outages / Customers Served	CAIFI:	0.316	Avg Outages / Customer Out	Total Reported Hours:	6
Active:	7644	Active Electric Customers	Outages:	6	Total Number of Outages	Total Customer Hours Out:	24
ASAI:	99.99996	Average Percent System Available					

During March, the GRPU electrical system encountered a scheduled outage for the replacement of a worn-out utility pole. Additionally, issues arose from a deceased tree, a faulty connection, and three occurrences of unknown causes.

Outage Time	Restored Time	Outage Type	Duration (Hours)	Customers Out	Customer Hours
3/3/2024 12:31:15 PM	3/3/2024 3:32:07 PM	Tree -r-	3.01	1	3.01
3/10/2024 9:48:45 PM	3/10/2024 9:50:11 PM	Unknown -r-	0.02	1	0.02
3/13/2024 1:31:18 PM	3/13/2024 2:50:14 PM	Scheduled -r-	1.32	10	13.16
3/19/2024 3:32:33 AM	3/19/2024 5:00:33 AM	Unknown -r-	1.47	5	7.33
3/19/2024 12:07:15 PM	3/19/2024 12:34:01 PM	Equipment -r-	0.45	1	0.45
3/19/2024 2:27:00 PM	3/19/2024 2:30:33 PM	Unknown -r-	0.06	1	0.06

Figure 1: Outage Information by Type

Electric Load Graph Last Month

The peak power consumption for March reached 22,818 kW on the 26th. Solar production, battery dispatching, and load control were employed intermittently throughout the month. The following represents an eleven-day timeframe: (Figure 3-Red is battery dispatch, Tan is solar production,

Blue is full feed NEMMPA)

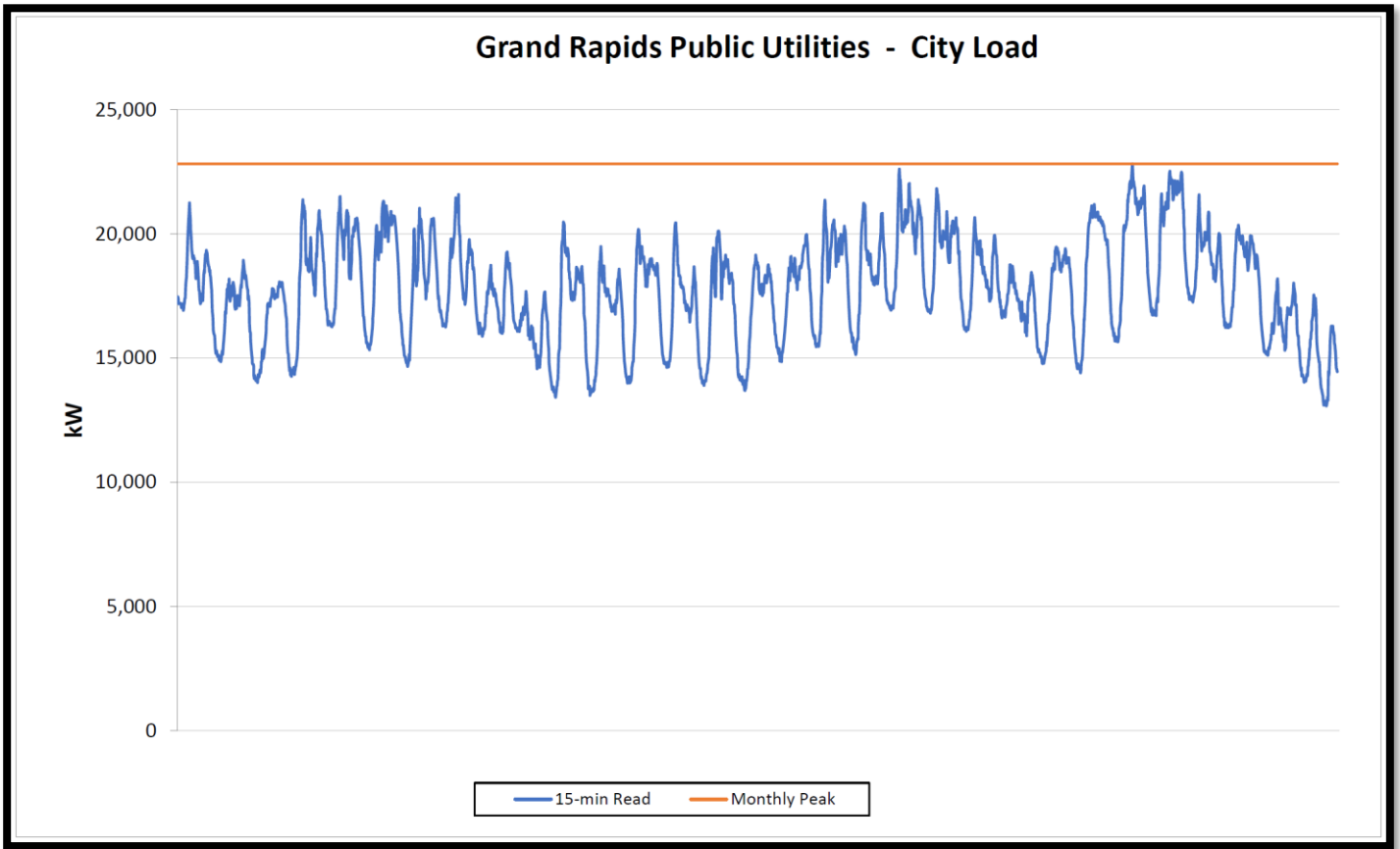


Figure 2: 22,818 kW GR Peak

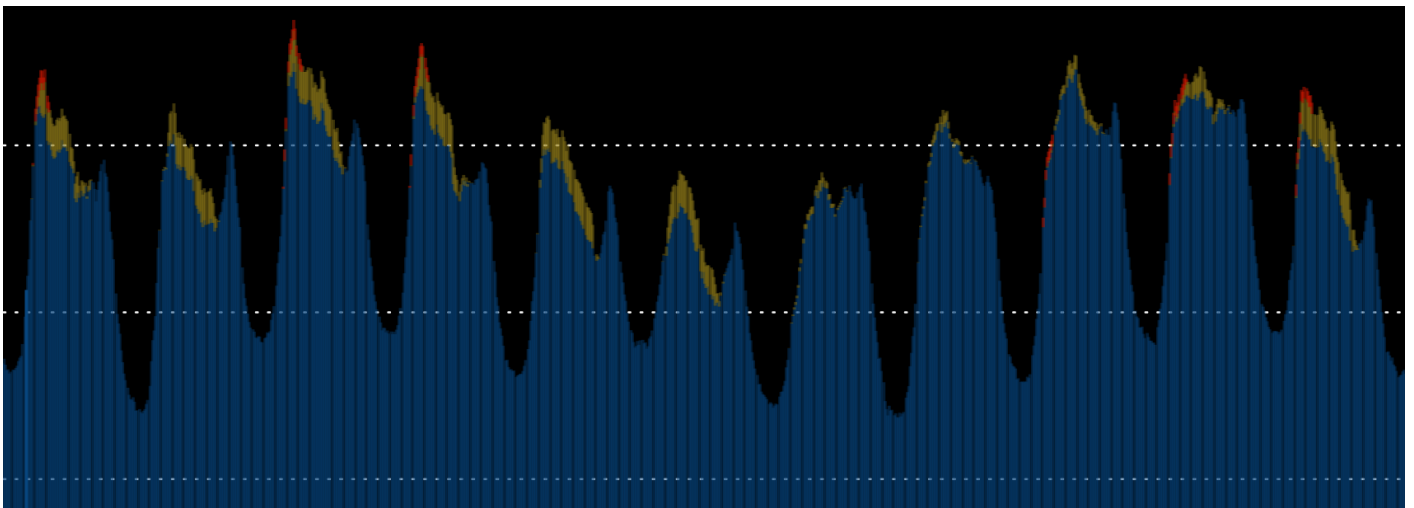


Figure 3: NEMMPA Load with Battery & Solar. 3/18-3/28.

NEMMPA vs. non-NEMMPA Peak Last Month

The attached graph shows the aggregated NEMMPA peak versus non-NEMMPA peak.

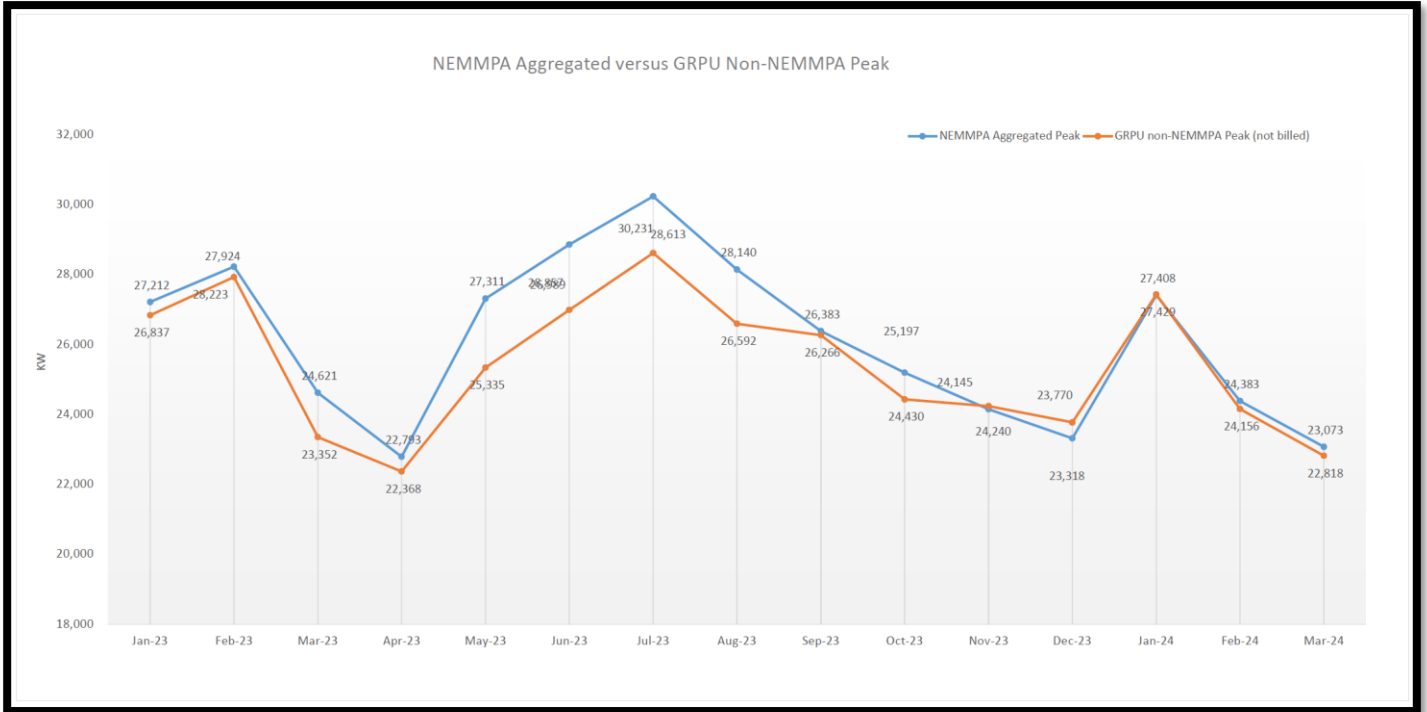


Figure 4: NEMMPA Peak -vs- non-NEMMPA

Effective Wholesale Electric Power Rate Last Month

The attached graph shows the effective wholesale electric rate.

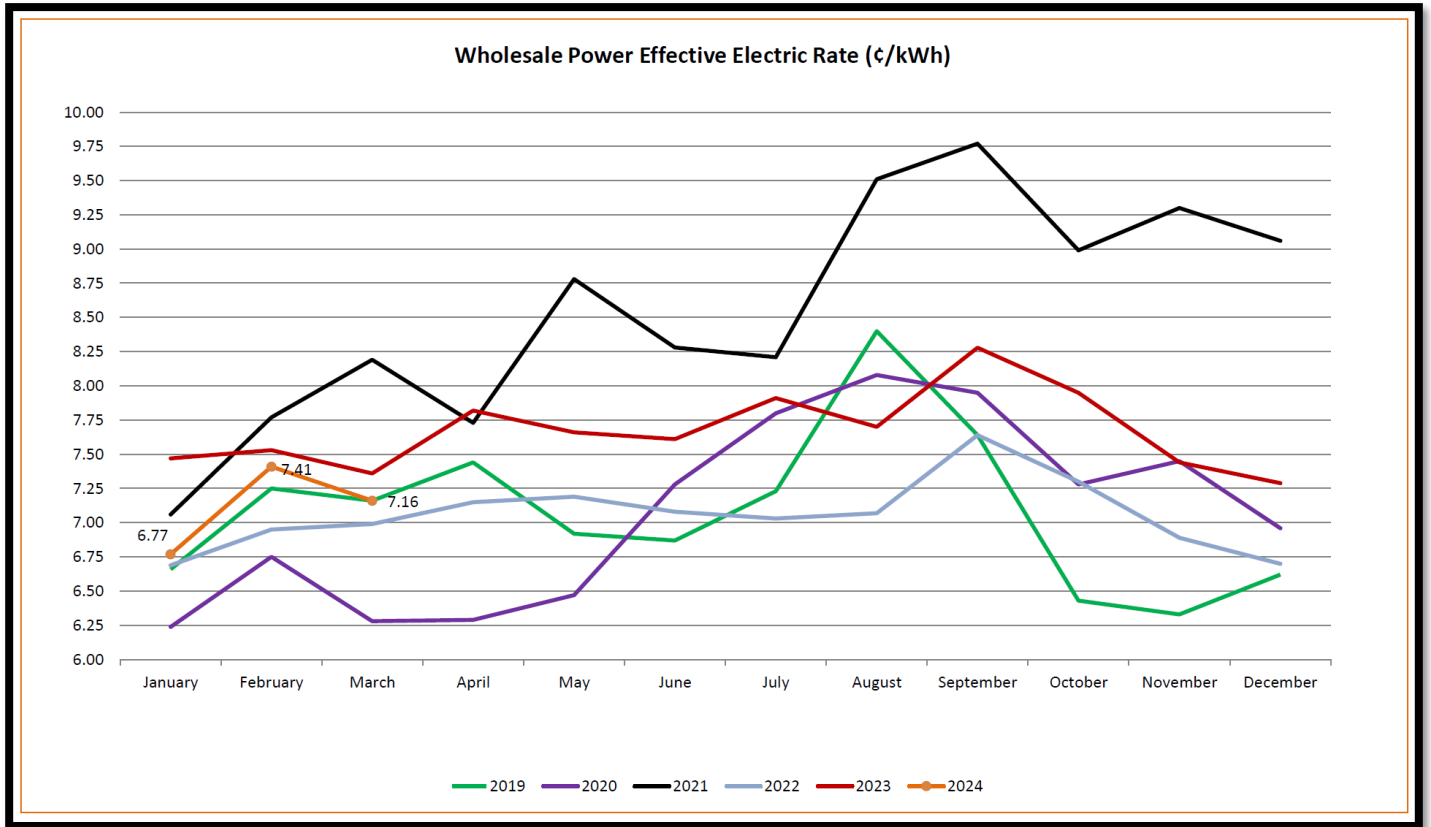


Figure 5: Wholesale Power Effective Elect Rate

Capital and Operations Project Summary

Continued work on parts ordering and prepping.

Doing pole changes.