

**GRAND RAPIDS  
PUBLIC UTILITIES**

*Service is Our Nature*

500 SE Fourth Street • Grand Rapids, Minnesota 55744

## ELECTRIC DEPARTMENT MONTHLY REPORT May 2024 Commission Meeting

### Reliability Report Last Month

|         |          |                                  |          |       |                            |                           |     |
|---------|----------|----------------------------------|----------|-------|----------------------------|---------------------------|-----|
| SAIDI:  | 0.28     | Avg Minutes / Customers Served   | CAIDI:   | 4.28  | Avg Minutes / Customer Out | Total Customers Out:      | 495 |
| SAIFI:  | 0.06     | Cust Outages / Customers Served  | CAIFI:   | 0.018 | Avg Outages / Customer Out | Total Reported Hours:     | 35  |
| Active: | 7653     | Active Electric Customers        | Outages: | 9     | Total Number of Outages    | Total Customer Hours Out: | 666 |
| ASAI:   | 99.99901 | Average Percent System Available |          |       |                            |                           |     |

In April, a raccoon climbing on a riser caused a major GRPU feeder to trip, resulting in an outage for 293 customers. Later in the month, lightning likely caused another significant outage. Additionally, crews addressed outages caused by pole changes, trees, and wildlife throughout the month.

| Outage Time          | Restored Time         | Outage Type   | Duration (Hours) | Customers Out | Customer Hours |
|----------------------|-----------------------|---------------|------------------|---------------|----------------|
| 4/1/2024 11:22:20 PM | 4/2/2024 12:45:50 AM  | Wildlife -r-  | 1.39             | 293           | 407.76         |
| 4/4/2024 1:13:12 PM  | 4/4/2024 2:58:27 PM   | Scheduled -r- | 1.75             | 1             | 1.75           |
| 4/17/2024 8:40:23 AM | 4/17/2024 8:47:05 AM  | Tree -r-      | 0.11             | 37            | 4.13           |
| 4/18/2024 9:00:07 AM | 4/18/2024 10:45:54 AM | Scheduled -r- | 1.76             | 6             | 10.58          |
| 4/18/2024 5:28:14 PM | 4/18/2024 6:26:22 PM  | Tree -r-      | 0.97             | 34            | 32.94          |
| 4/21/2024 6:47:11 AM | 4/22/2024 9:19:11 AM  | Wildlife -r-  | 26.53            | 1             | 26.53          |
| 4/25/2024 6:03:08 AM | 4/25/2024 6:55:13 AM  | Scheduled -r- | 0.87             | 6             | 5.21           |
| 4/27/2024 2:14:46 AM | 4/27/2024 3:49:01 AM  | Weather -r-   | 1.57             | 112           | 175.93         |
| 4/30/2024 4:19:35 PM | 4/30/2024 4:40:49 PM  | Wildlife -r-  | 0.35             | 5             | 1.77           |

*Figure 1: Outage Information by Type*

### Electric Load Graph Last Month

The NEMMPA gross peak was set on 4/1 at 9:45am. Minnesota Power successfully shaved it, along with additional support from solar and GRPU demand response. The battery was exercised a total of 4 times in April (see figure 3, red areas).

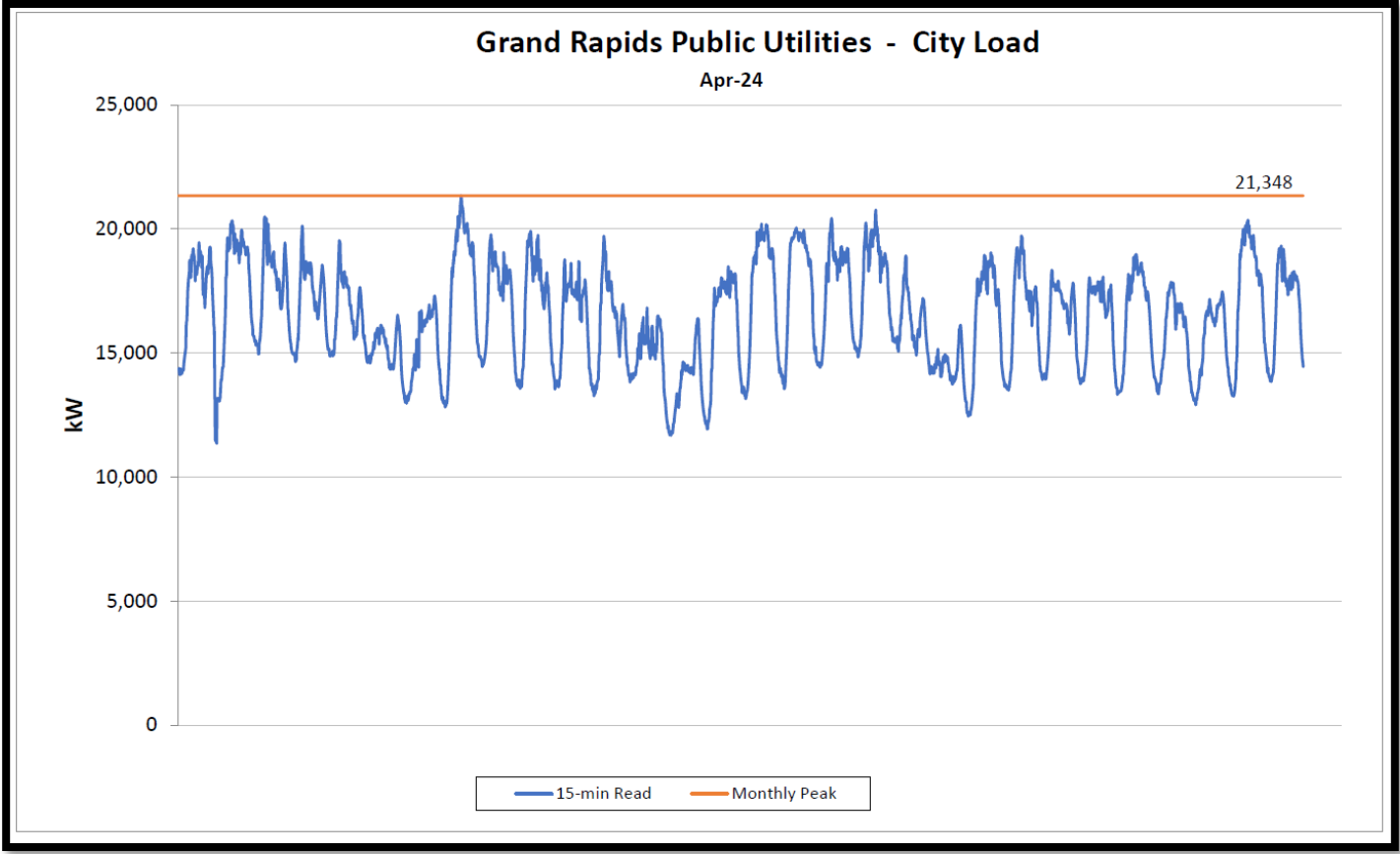


Figure 2: 21,348 kW GR Peak

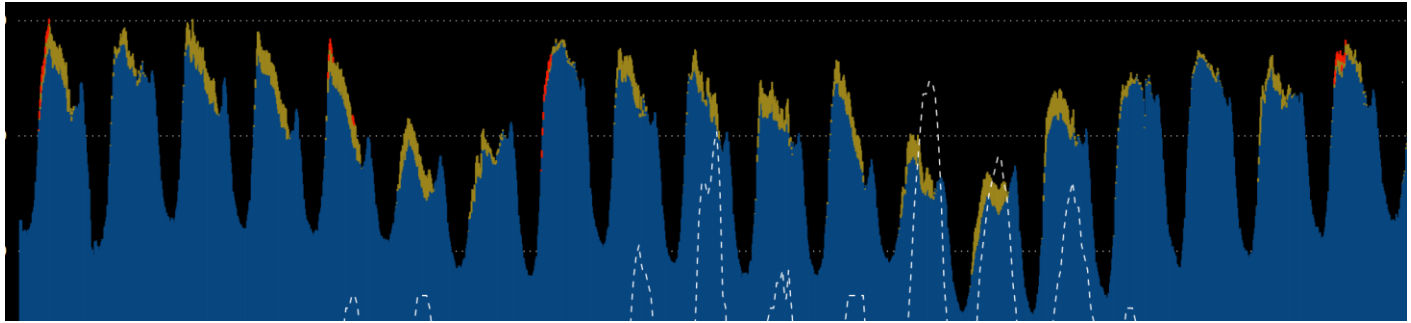


Figure 3: NEMMPA Load with Battery & Solar.

**NEMMPA vs. non-NEMMPA Peak Last Month**

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

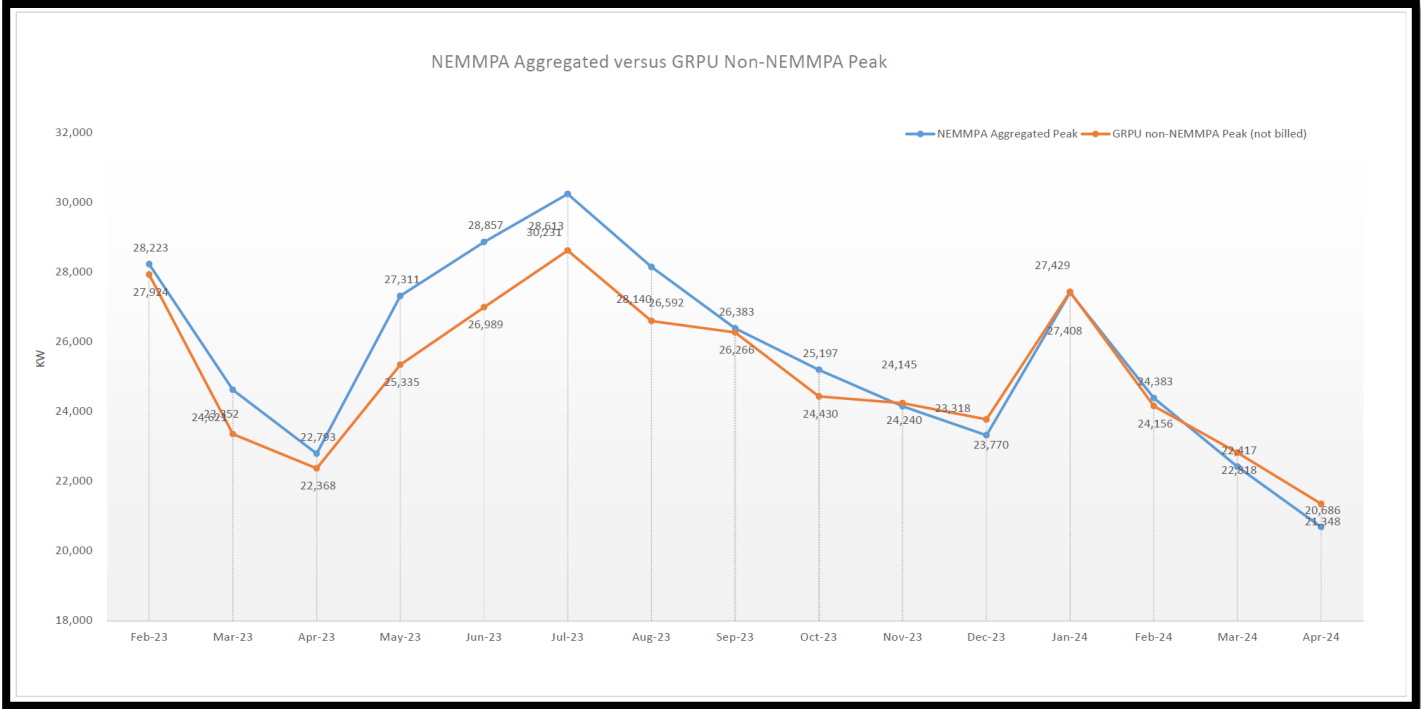


Figure 4: NEMMPA Peak -vs- non-NEMMPA

### Effective Wholesale Electric Power Rate Last Month

The attached graph shows the effective wholesale electric rate.

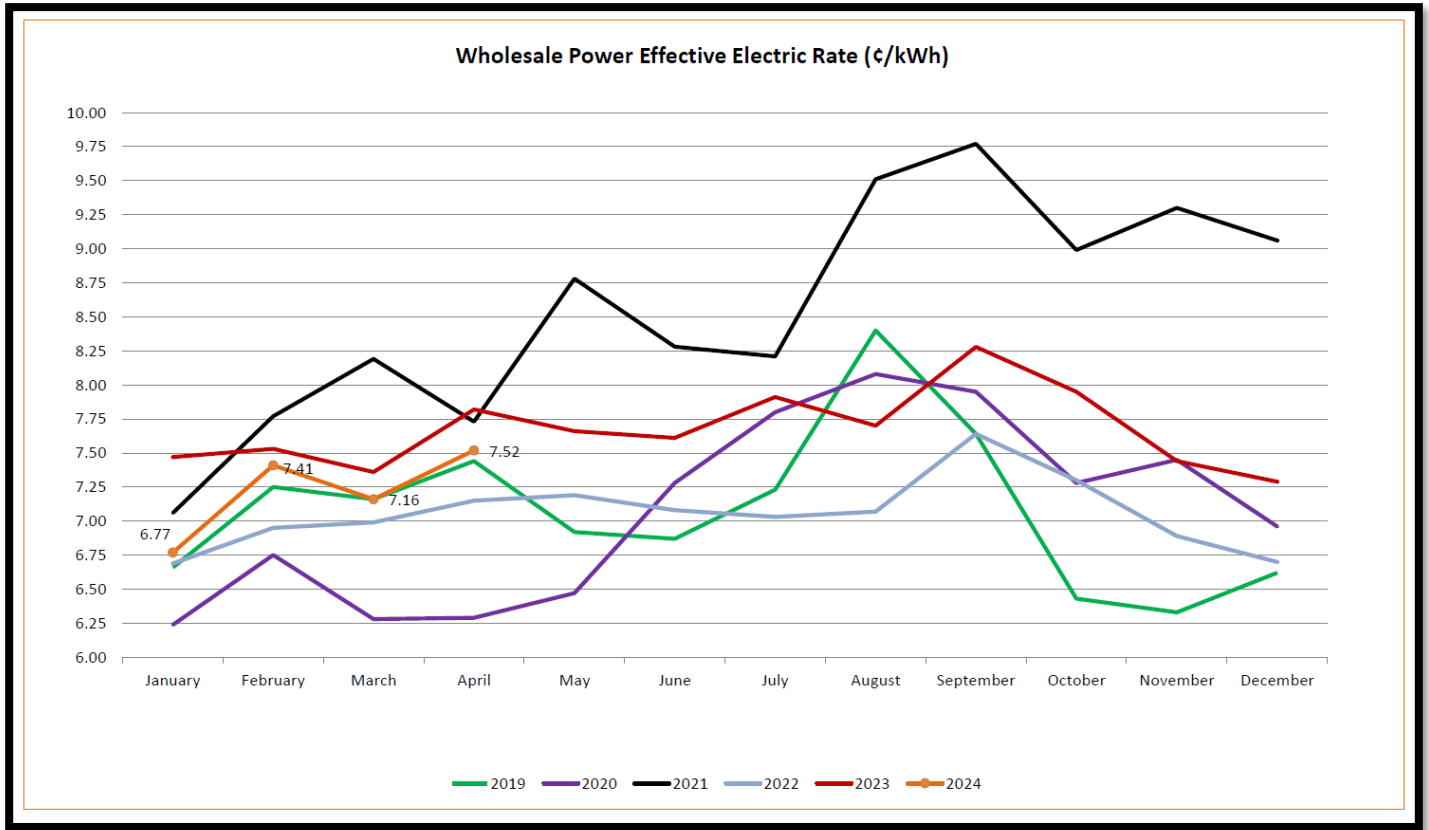


Figure 5: Wholesale Power Effective Elect Rate

## **Capital and Operations Project Summary**

Planning and parts receiving. Did several Pole change outs, removed older capacitor bank.