

GRAND RAPIDS
PUBLIC UTILITIES

Service is Our Nature

500 SE Fourth Street • Grand Rapids, Minnesota 55744

ELECTRIC DEPARTMENT MONTHLY REPORT October 2022 Commission Meeting

Safety

- There were no OSHA recordable accidents last month.

Demand Threshold and Power Usage for past month

- The attached graph shows the system load with demand threshold for the past month.

Reliability Last Month

- We had four outages during the month.

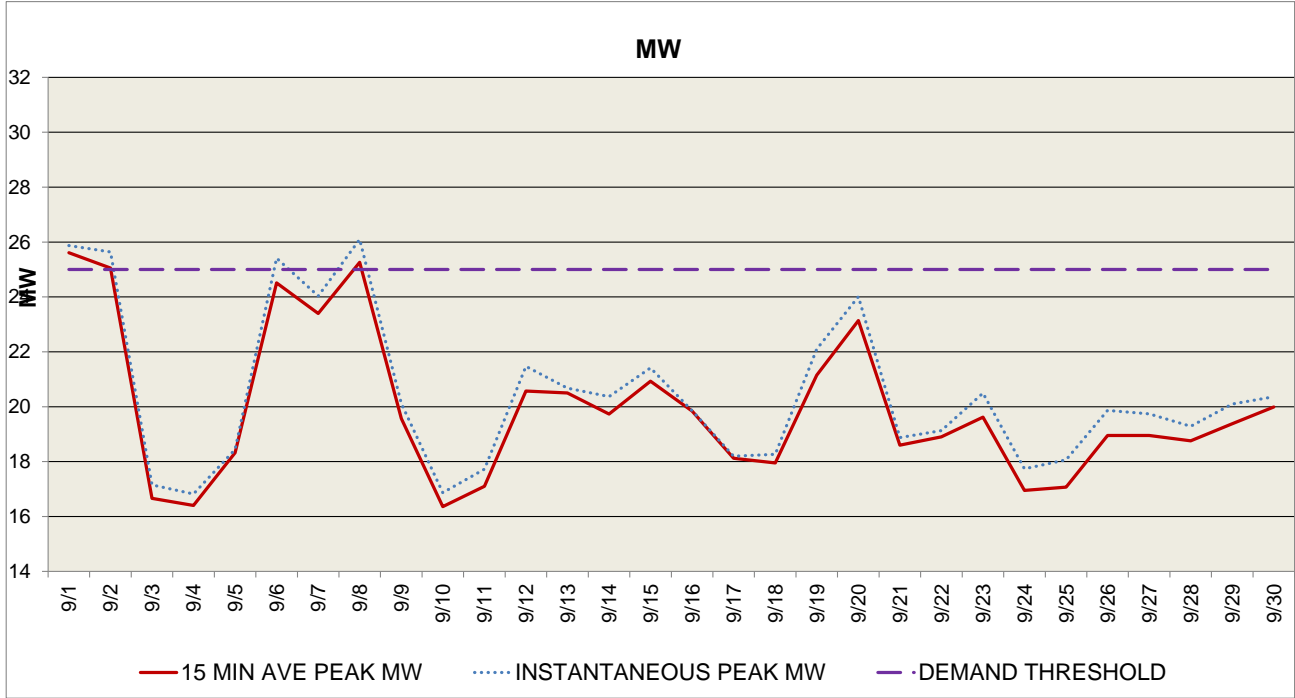
Projects Performed Last Month

- Process improvement – project mapping/GIS, Outage management system – outage tracking and customer call-ins, Electric meter change outs and programming
- Community event – Moose Club classic car show
- Training – Overhead School, Marshall, MN

Projects Scheduled for This Month

- Working on cable replacement projects, commercial services
- Budget work
- Solar plus Battery Storage project
 - Commercial Operations reached August 26th
 - First load reduction battery discharge September 1st with no major issues, some minor operational issues
 - Battery discharges: September 1st at 0.65 MW, September 8th at 0.65 MW, October 7th at 0.55 MW
 - Solar system and load management system used to reduce load during these times
- New services/construction 2022 – Cenex station, County Courts and Jail project, LaPrairie campground, My Place hotel, Zips car wash, Wagner site development
- City/County projects – Airport Road/River Road round about

GRAND RAPIDS PUBLIC UTILITIES COMMISSION				
SEPTEMBER 2022 LOAD MANAGEMENT SYSTEM REPORT				
Sep-22	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
Minimum	16.82	16.36	25.00	
Maximum	26.10	25.61	25.00	
Average	20.47	19.91	25.00	
Total				2



GRAND RAPIDS PUBLIC UTILITIES COMMISSION
DAILY POWER USAGE

Sep-22	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
9/1	25.87	25.61	25.00	0.6
9/2	25.64	25.05	25.00	0.1
9/3	17.15	16.66	25.00	-8.3
9/4	16.82	16.40	25.00	-8.6
9/5	18.44	18.32	25.00	-6.7
9/6	25.41	24.51	25.00	-0.5
9/7	24.03	23.40	25.00	-1.6
9/8	26.10	25.26	25.00	0.3
9/9	20.12	19.57	25.00	-5.4
9/10	16.87	16.36	25.00	-8.6
9/11	17.73	17.10	25.00	-7.9
9/12	21.47	20.57	25.00	-4.4
9/13	20.68	20.50	25.00	-4.5
9/14	20.37	19.73	25.00	-5.3
9/15	21.42	20.93	25.00	-4.1
9/16	19.85	19.84	25.00	-5.2
9/17	18.20	18.12	25.00	-6.9
9/18	18.27	17.95	25.00	-7.1
9/19	22.10	21.15	25.00	-3.9
9/20	24.01	23.14	25.00	-1.9
9/21	18.88	18.60	25.00	-6.4
9/22	19.13	18.90	25.00	-6.1
9/23	20.50	19.62	25.00	-5.4
9/24	17.74	16.95	25.00	-8.1
9/25	18.07	17.07	25.00	-7.9
9/26	19.87	18.95	25.00	-6.1
9/27	19.74	18.95	25.00	-6.1
9/28	19.29	18.76	25.00	-6.2
9/29	20.10	19.38	25.00	-5.6
9/30	20.36	19.99	25.00	-5.0
Minimum	16.82	16.36	25.00	
Maximum	26.10	25.61	25.00	
Average	20.47	19.91	25.00	
Total				2
		Peak Demand Day		Controlled Day

Monthly Report - Grand Rapids Public Utilities Commission

Grand Rapids Public Utilities Commission

Year 2022 ▼	Minimum duration <input type="text"/>	Substation ----- ▼
Month 09 - September ▼	Maximum duration <input type="text"/>	Circuit ----- ▼
Annual Report? <input type="radio"/> Yes <input checked="" type="radio"/> No	Top-level Cause ----- ▼	Remove Major Events? ----- ▼

IEEE 1366 Statistics

Metric	Sep 2022	Sep 2021
SAIDI	0.399	3.838
SAIFI	0.00546	0.0537
CAIDI	73.073	71.473
ASAI	99.999%	99.9908%
Momentary Interruptions	0	0
Sustained Interruptions	4	8

Circuit Ranking - Worst Performing

Ranked by Outage Count

Circuit	Substation	Number of Outages
Feeder 320	Main Substation	3
ES06	East Substation	1

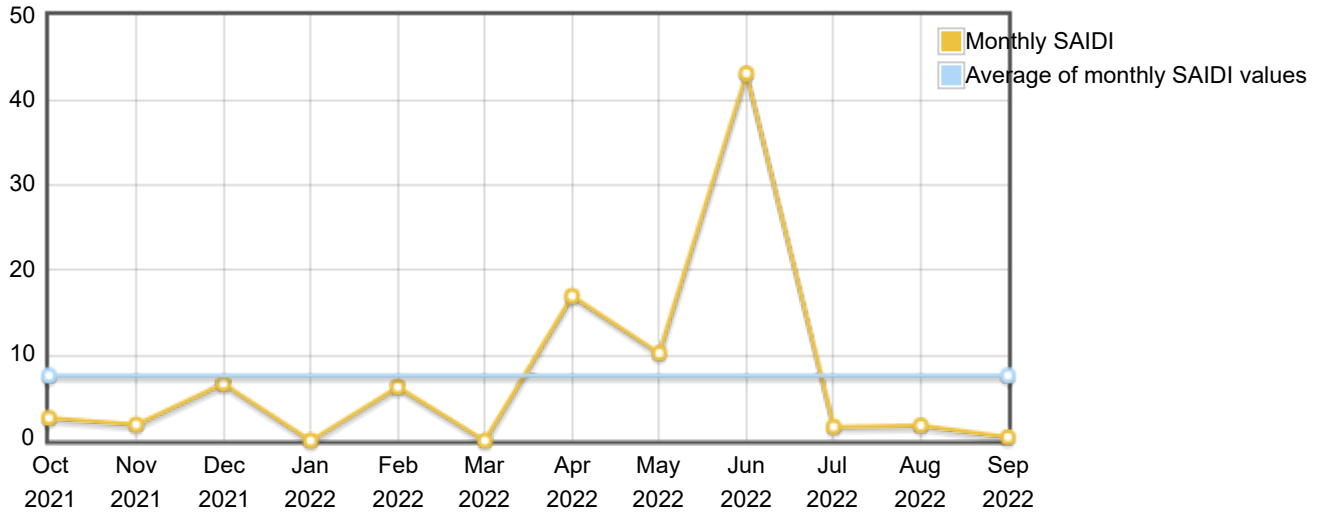
Ranked by Customer Interruptions

Circuit	Substation	Customer Interruptions
Feeder 320	Main Substation	30
ES06	East Substation	11

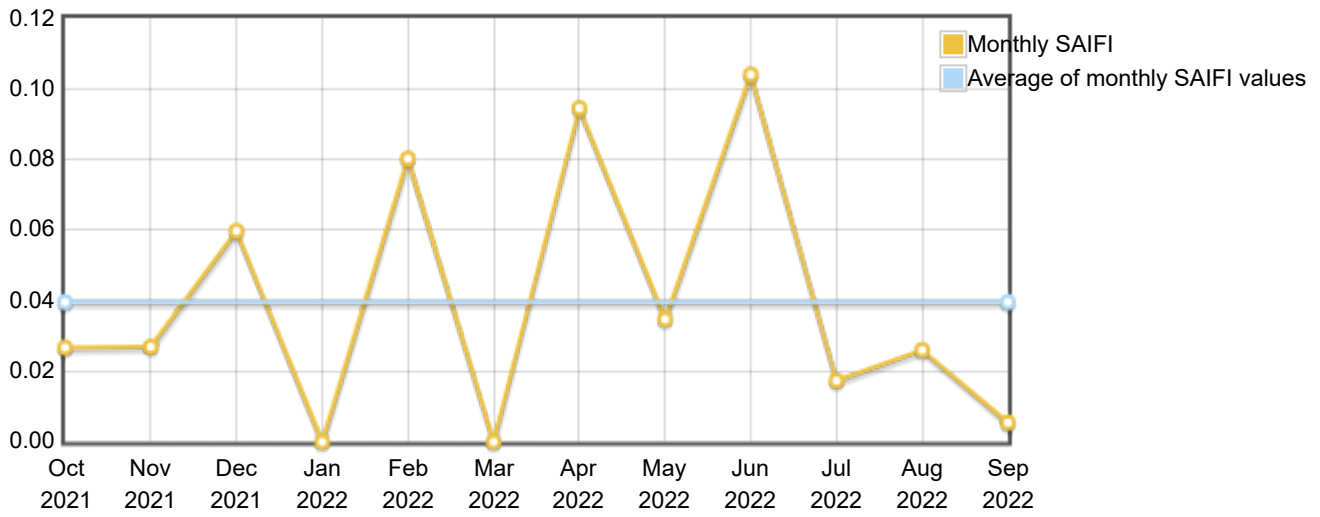
Ranked by Customer Minutes of Duration

Circuit	Substation	Customer Minutes of Duration
Feeder 320	Main Substation	2,160
ES06	East Substation	836

Historical Monthly SAIDI Chart



Historical Monthly SAIFI Chart



Causes Ranked by Count



Cause	Count
Squirrel	3
Non-Utility Excavation	1

Causes Ranked by Duration



Cause	Duration
Squirrel	2,160
Non-Utility Excavation	836

Top 4 Outages for the Month

Address	Customers Interrupted	Duration	Customer Minutes of Interruption	Cause	Start Date
SE 6th St and 11th Ave	18	86	1,548	Squirrel	09/03/2022
NE 6th St and 12th Ave	11	76	836	Contractor	09/20/2022
820 SW 4th Ave	6	68	408	Squirrel	09/25/2022
1309 S Pokegama Ave	6	34	204	Squirrel	09/21/2022

Total Customers Affected for the Month: **41**

Average Customers Affected per Outage: **10.25**

