

GRAND RAPIDS
PUBLIC UTILITIES

Service is Our Nature

500 SE Fourth Street • Grand Rapids, Minnesota 55744

ELECTRIC DEPARTMENT MONTHLY REPORT November 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.

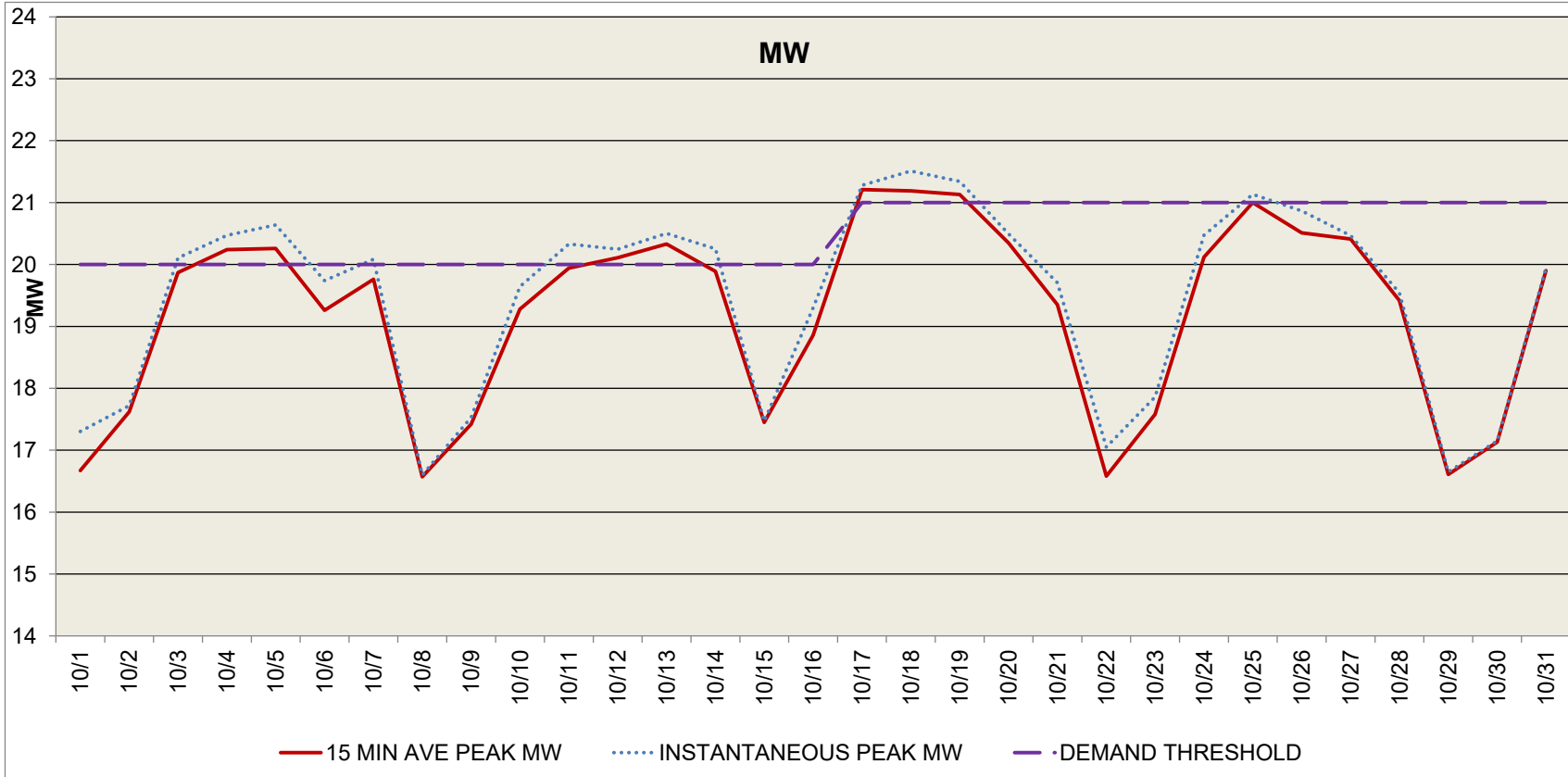
Projects Performed Last Month

- Process improvement – project mapping/GIS, Outage management system – transformer loading data using AMI data, project design and closeout
- Budget work, Rate design
- Wrapping up commercial services, worked on cable replacement projects

Projects Scheduled for This Month

- Transition – standard operating procedures, daily tasks, Master Electrician/Responsible person removal/transition, projects
- Finalizing end of year projects
- Solar plus Battery Storage project
 - Several successful battery discharges with parallel load management operations
- New services/construction 2022 – County Courts and Jail project, LaPrairie campground, My Place hotel, Wagner site development
- City/County projects – Airport Road/River Road round about

GRAND RAPIDS PUBLIC UTILITES COMMISSION				
OCTOBER 2022 LOAD MANAGEMENT SYSTEM REPORT				
Oct-22	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
Minimum	16.60	16.57	20.00	
Maximum	21.51	21.21	21.00	
Average	19.46	19.23	20.48	
Total				5



GRAND RAPIDS PUBLIC UTILITIES COMMISSION
DAILY POWER USAGE

Oct-22	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
10/1	17.30	16.67	20.00	-3.3
10/2	17.72	17.62	20.00	-2.4
10/3	20.11	19.87	20.00	-0.1
10/4	20.47	20.24	20.00	0.2
10/5	20.64	20.26	20.00	0.3
10/6	19.74	19.26	20.00	-0.7
10/7	20.09	19.76	20.00	-0.2
10/8	16.60	16.57	20.00	-3.4
10/9	17.53	17.42	20.00	-2.6
10/10	19.64	19.28	20.00	-0.7
10/11	20.33	19.94	20.00	-0.1
10/12	20.25	20.11	20.00	0.1
10/13	20.50	20.33	20.00	0.3
10/14	20.25	19.89	20.00	-0.1
10/15	17.47	17.45	20.00	-2.6
10/16	19.30	18.86	20.00	-1.1
10/17	21.28	21.21	21.00	0.2
10/18	21.51	21.19	21.00	0.2
10/19	21.34	21.13	21.00	0.1
10/20	20.50	20.35	21.00	-0.6
10/21	19.71	19.35	21.00	-1.7
10/22	17.05	16.58	21.00	-4.4
10/23	17.86	17.58	21.00	-3.4
10/24	20.47	20.12	21.00	-0.9
10/25	21.13	21.00	21.00	0.0
10/26	20.87	20.51	21.00	-0.5
10/27	20.47	20.41	21.00	-0.6
10/28	19.54	19.42	21.00	-1.6
10/29	16.65	16.61	21.00	-4.4
10/30	17.15	17.13	21.00	-3.9
10/31	19.94	19.90	21.00	-1.1
Minimum	16.60	16.57	20.00	
Maximum	21.51	21.21	21.00	
Average	19.46	19.23	20.48	
Total				5
		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 10 - October ▼	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	Oct 2022	Oct 2021
SAIDI	0.264	2.658
SAIFI	0.0044	0.0267
CAIDI	60.212	99.735
ASAI	99.9993%	99.9938%
Momentary Interruptions	0	0
Sustained Interruptions	4	2

Circuit Ranking - Worst Performing

Ranked by Outage Count

Circuit	Substation	Number of Outages
Feeder 320	Main Substation	4

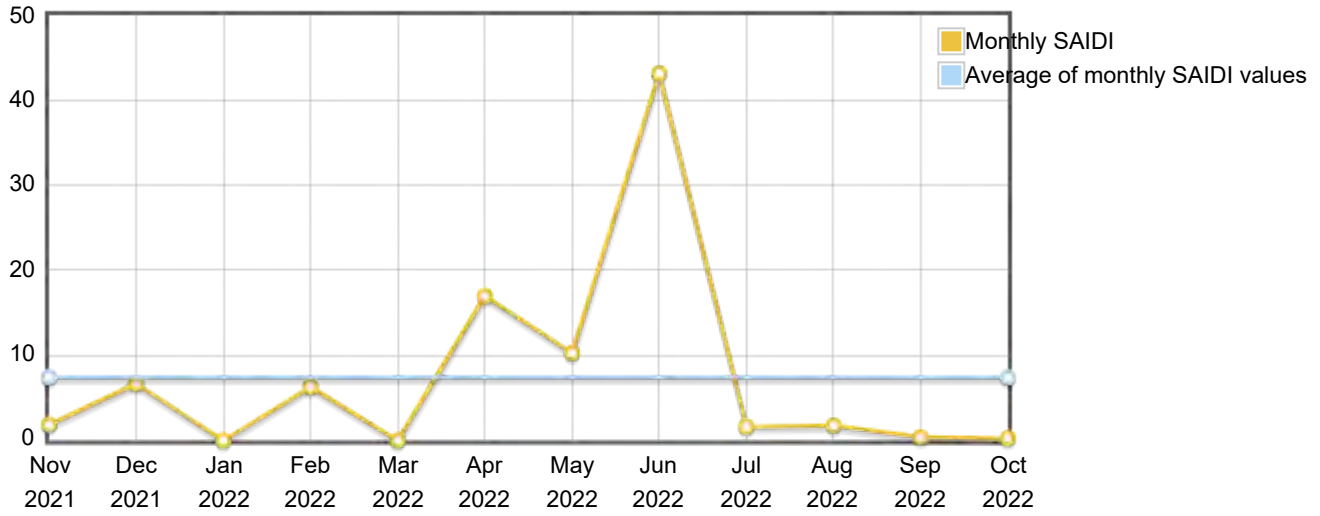
Ranked by Customer Interruptions

Circuit	Substation	Customer Interruptions
Feeder 320	Main Substation	33

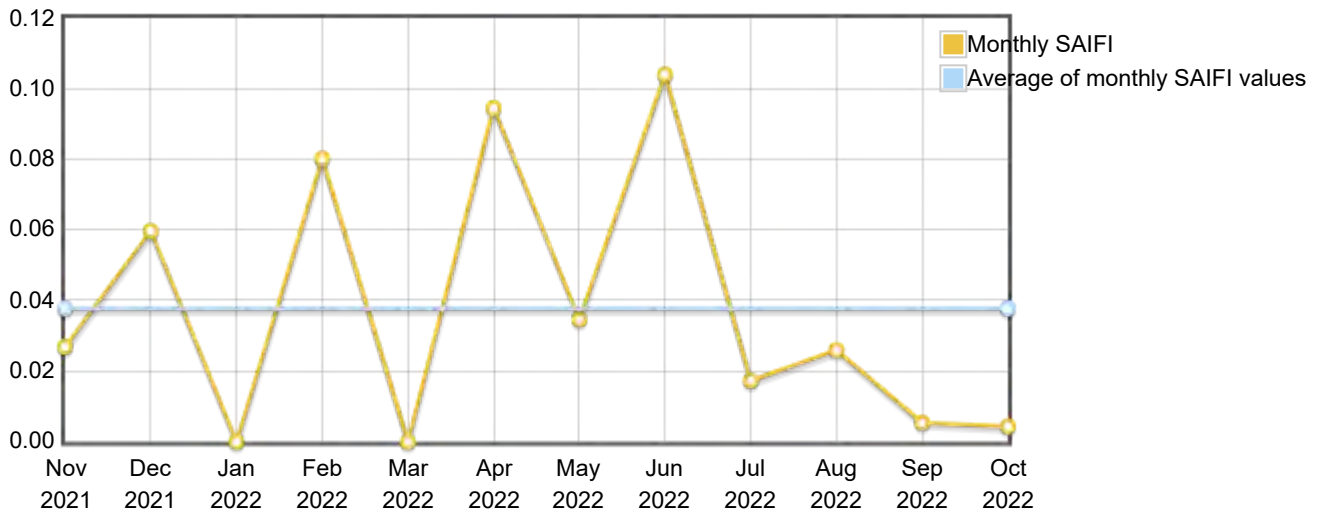
Ranked by Customer Minutes of Duration

Circuit	Substation	Customer Minutes of Duration
Feeder 320	Main Substation	1,987

Historical Monthly SAIDI Chart



Historical Monthly SAIFI Chart



Causes Ranked by Count



Cause	Count
Squirrel	3
Tree	1

Causes Ranked by Duration



Cause	Duration
Squirrel	1,595
Tree	392

Top 4 Outages for the Month

Address	Customers Interrupted	Duration	Customer Minutes of Interruption	Cause	Start Date
110 SW 9th Ave	14	71	994	Squirrel	10/09/2022
421 SW 1st Ave	8	49	392	Tree	10/19/2022
903 SW 3rd Ave	7	43	301	Squirrel	10/21/2022
1444 SE 2nd Ave	4	75	300	Squirrel	10/04/2022

Total Customers Affected for the Month:	33
Average Customers Affected per Outage:	8.25

