

GRAND RAPIDS
PUBLIC UTILITIES

Service is Our Nature

500 SE Fourth Street • Grand Rapids, Minnesota 55744

ELECTRIC DEPARTMENT MONTHLY REPORT September 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 six outages during the month.

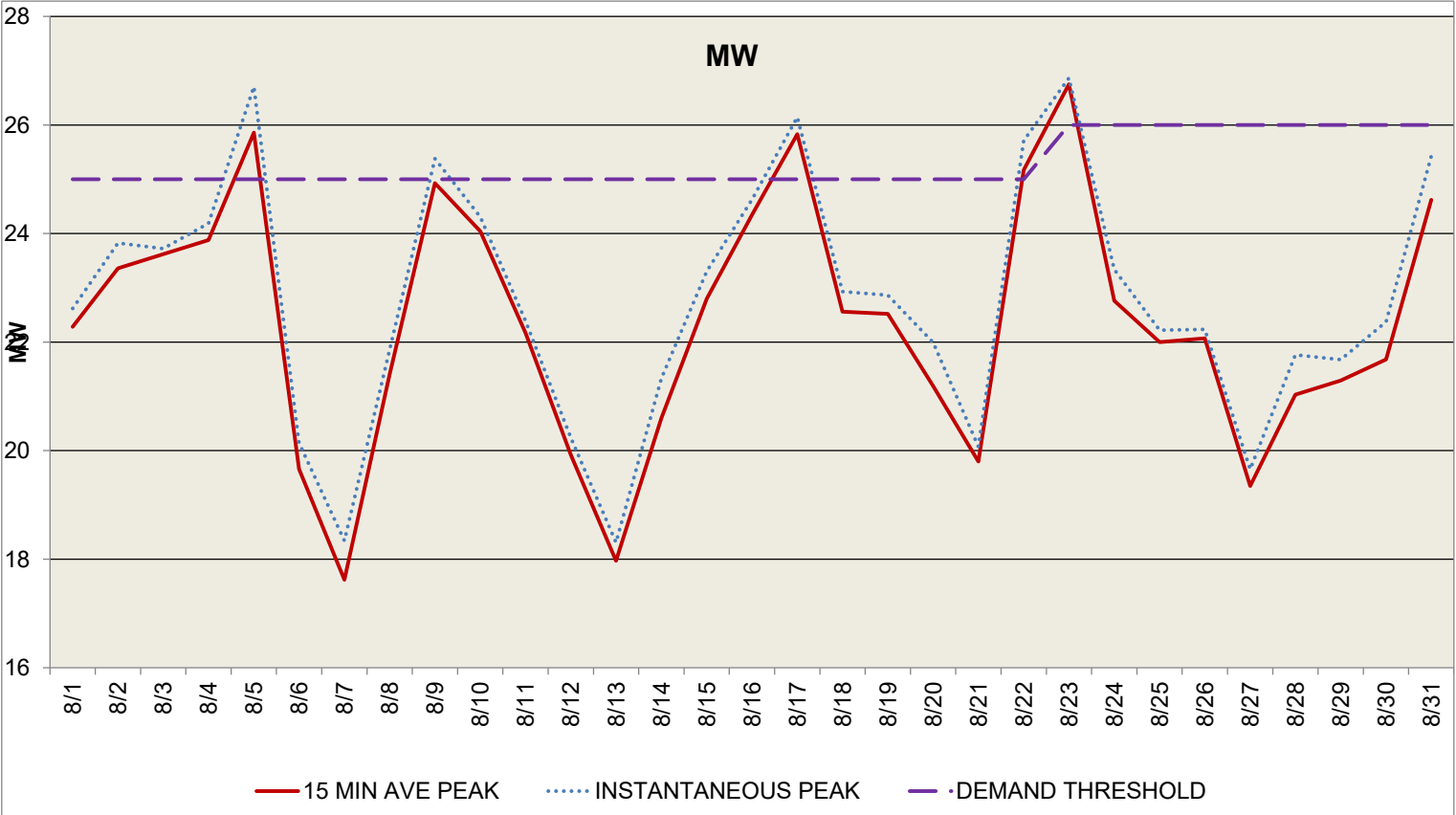
Projects Performed Last Month

- Combined electric, water, sewer rate study work
- Process improvement – project mapping/GIS, Outage management system – outage tracking and customer call-ins, Electric meter change outs and programming
- Community events - Riverfest – worked with City on electrical power needs for this event

Projects Scheduled for This Month

- Working on cable replacement projects, commercial services
- Looking to the future: electric vehicles, solar systems, conservation, supply chain issues
- 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
 - Second load reduction battery discharge September 8th. Both discharges achieved 0.65 MW reduction from 2:00 to 5:45 p.m.
 - 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, Maturi addition/old Kmart, MDI second service, Zips car wash, Wagner site development including lift stations
- City/County projects – Airport Road/River Road round about

GRAND RAPIDS PUBLIC UTILITIES COMMISSION				
AUGUST 2022 LOAD MANAGEMENT SYSTEM REPORT				
Aug-22	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
Minimum	18.31	17.62	25.00	
Maximum	26.86	26.75	26.00	
Average	22.79	22.36	25.29	
Total				2



GRAND RAPIDS PUBLIC UTILITIES COMMISSION
DAILY POWER USAGE

Aug-22	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
8/1	22.62	22.28	25.00	-2.7
8/2	23.83	23.36	25.00	-1.6
8/3	23.72	23.62	25.00	-1.4
8/4	24.19	23.88	25.00	-1.1
8/5	26.71	25.86	25.00	0.9
8/6	20.14	19.66	25.00	-5.3
8/7	18.34	17.62	25.00	-7.4
8/8	21.85	21.40	25.00	-3.6
8/9	25.38	24.93	25.00	-0.1
8/10	24.30	24.04	25.00	-1.0
8/11	22.39	22.17	25.00	-2.8
8/12	20.24	19.92	25.00	-5.1
8/13	18.31	17.97	25.00	-7.0
8/14	21.33	20.60	25.00	-4.4
8/15	23.30	22.80	25.00	-2.2
8/16	24.63	24.34	25.00	-0.7
8/17	26.15	25.83	25.00	0.8
8/18	22.93	22.56	25.00	-2.4
8/19	22.86	22.52	25.00	-2.5
8/20	21.99	21.19	25.00	-3.8
8/21	20.08	19.80	25.00	-5.2
8/22	25.71	25.17	25.00	0.2
8/23	26.86	26.75	26.00	0.8
8/24	23.34	22.76	26.00	-3.2
8/25	22.22	22.00	26.00	-4.0
8/26	22.23	22.07	26.00	-3.9
8/27	19.66	19.35	26.00	-6.7
8/28	21.77	21.03	26.00	-5.0
8/29	21.68	21.29	26.00	-4.7
8/30	22.37	21.68	26.00	-4.3
8/31	25.43	24.62	26.00	-1.4
Minimum	18.31	17.62	25.00	
Maximum	26.86	26.75	26.00	
Average	22.79	22.36	25.29	
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 08 - August ▼	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	Aug 2022	Aug 2021
SAIDI	1.787	1.181
SAIFI	0.026	0.0149
CAIDI	68.784	79.169
ASAI	99.9958%	99.9972%
Momentary Interruptions	0	0
Sustained Interruptions	6	7

Circuit Ranking - Worst Performing

Ranked by Outage Count

Circuit	Substation	Number of Outages
Feeder 320	Main Substation	4
ES08	East Substation	1
Feeder 326	Main Substation	1

Ranked by Customer Interruptions

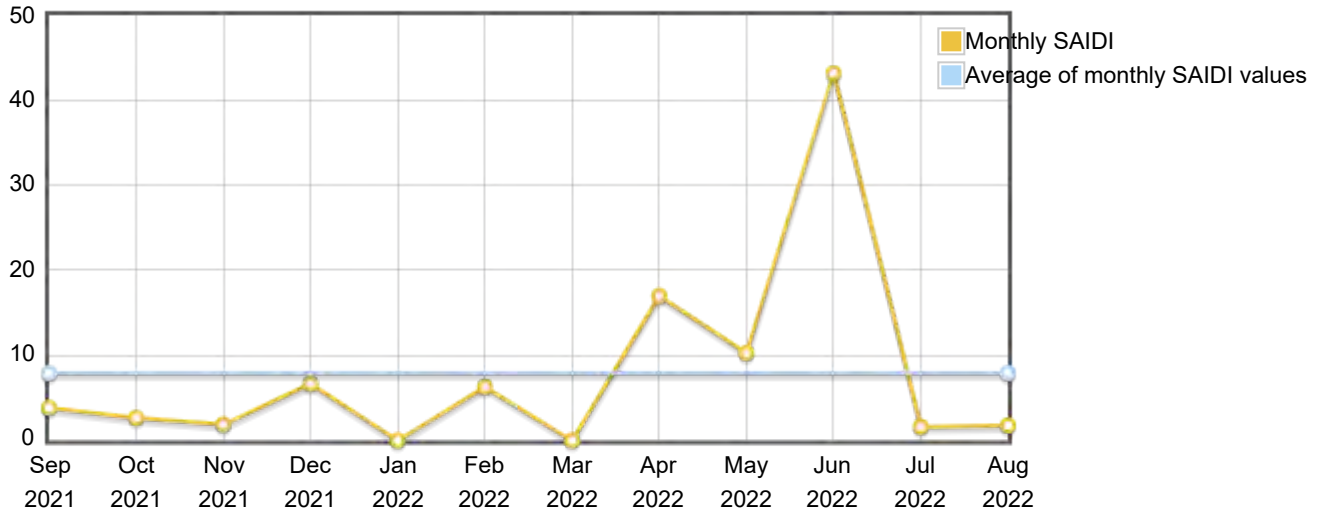
Circuit	Substation	Customer Interruptions
ES08	East Substation	90
Feeder 320	Main Substation	88
Feeder 326	Main Substation	17

Ranked by Customer Minutes of Duration

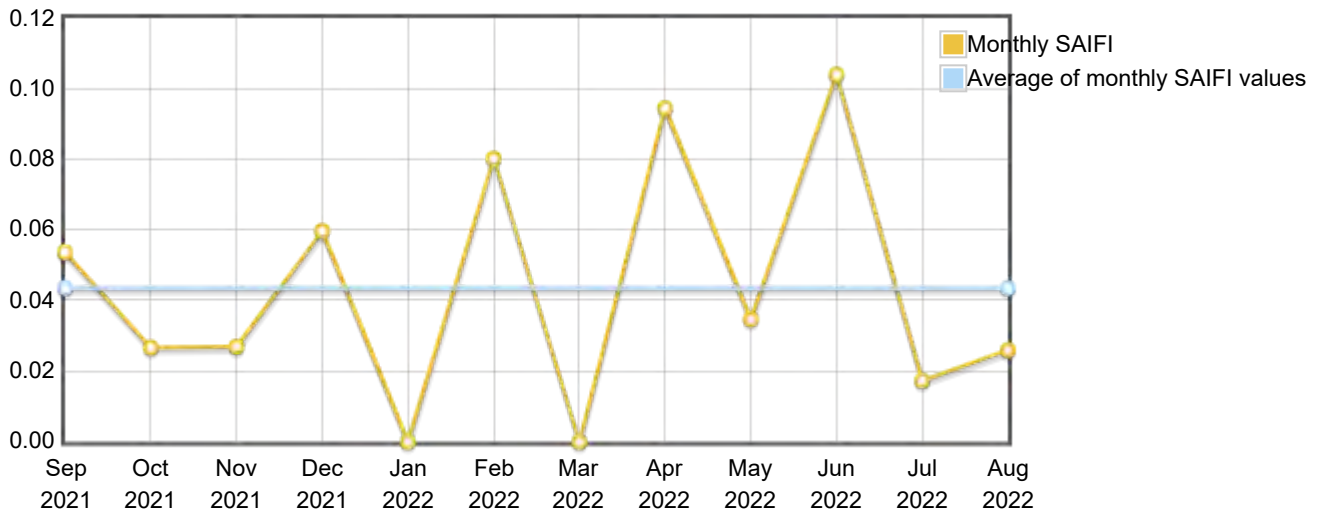
Circuit	Substation	Customer Minutes of Duration
ES08	East Substation	8,010

Circuit	Substation	Customer Minutes of Duration
Feeder 320	Main Substation	3,975
Feeder 326	Main Substation	1,428

Historical Monthly SAIDI Chart



Historical Monthly SAIFI Chart



Causes Ranked by Count



Cause	Count
Squirrel	3
Underground	1
Bird	1

Causes Ranked by Duration



Cause	Duration
Squirrel	10,513
Unknown	1,595
Underground	825

Top 6 Outages for the Month

Address	Customers Interrupted	Duration	Customer Minutes of Interruption	Cause	Start Date
NE 2nd Ave	90	89	8,010	Squirrel	08/07/2022
Sunny Beach Rd	29	55	1,595	Unknown	08/27/2022
McGuire, Soldiers Lane	17	84	1,428	Squirrel	08/07/2022
SW 23rd St	43	25	1,075	Squirrel	08/17/2022
SE 6th St	11	75	825	Bad underground	08/15/2022
Horseshoe Lake Rd	5	96	480	Bird	08/07/2022

Total Customers Affected for the Month:	195
Average Customers Affected per Outage:	32.5

