

GRAND RAPIDS
PUBLIC UTILITIES

Service is Our Nature

500 SE Fourth Street • Grand Rapids, Minnesota 55744

ELECTRIC DEPARTMENT MONTHLY REPORT August 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

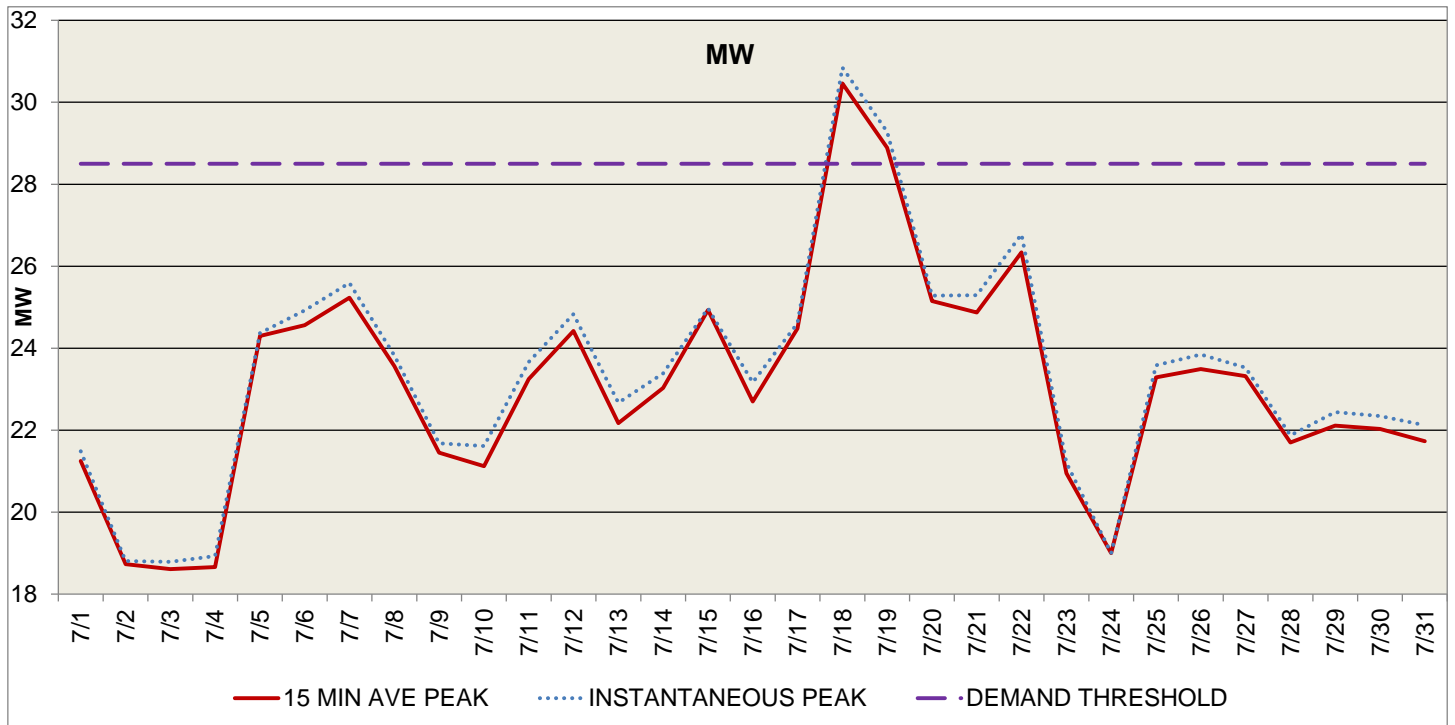
- Process improvement – customer service/call ins, internal project management, budget/financial work
- Customer, City, and Utility electric service project work
- Maintenance projects – tree trimming, substation work

Projects Scheduled for This Month

- Working on cable replacement projects, commercial services
- Solar plus Battery Storage project
 - System energized from GRPU grid 4/6, solar system operational
 - Battery compartment – individual cells replaced and tested, shipped back on site. Working through testing procedures with battery
- New services/construction 2022 – Best Western, Caribou coffee, 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, Woodland Bank
- City/County projects – County Road 63/Highway 2 trail project, SW 21st Street, Airport Road/River Road round about

GRAND RAPIDS PUBLIC UTILITIES COMMISSION				
JULY 2022 LOAD MANAGEMENT SYSTEM REPORT				
Jul-22	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
Minimum	18.79	18.61	28.50	
Maximum	30.85	30.46	28.50	
Average	23.38	23.09	28.50	
Total				2

Savings due to active load management system for month of July 2022 estimated at \$2700



GRAND RAPIDS PUBLIC UTILITIES COMMISSION
DAILY POWER USAGE

Jul-22	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
7/1	21.49	21.25	28.50	-7.3
7/2	18.81	18.73	28.50	-9.8
7/3	18.79	18.61	28.50	-9.9
7/4	18.93	18.66	28.50	-9.8
7/5	24.37	24.30	28.50	-4.2
7/6	24.92	24.56	28.50	-3.9
7/7	25.59	25.23	28.50	-3.3
7/8	23.82	23.56	28.50	-4.9
7/9	21.68	21.45	28.50	-7.1
7/10	21.61	21.12	28.50	-7.4
7/11	23.66	23.25	28.50	-5.3
7/12	24.83	24.42	28.50	-4.1
7/13	22.67	22.17	28.50	-6.3
7/14	23.39	23.03	28.50	-5.5
7/15	24.98	24.93	28.50	-3.6
7/16	23.17	22.70	28.50	-5.8
7/17	24.61	24.48	28.50	-4.0
7/18	30.85	30.46	28.50	2.0
7/19	29.28	28.89	28.50	0.4
7/20	25.28	25.15	28.50	-3.4
7/21	25.29	24.87	28.50	-3.6
7/22	26.78	26.34	28.50	-2.2
7/23	21.20	20.95	28.50	-7.6
7/24	19.00	19.00	28.50	-9.5
7/25	23.58	23.29	28.50	-5.2
7/26	23.85	23.49	28.50	-5.0
7/27	23.53	23.32	28.50	-5.2
7/28	21.87	21.70	28.50	-6.8
7/29	22.44	22.11	28.50	-6.4
7/30	22.34	22.03	28.50	-6.5
7/31	22.12	21.73	28.50	-6.8
Minimum	18.79	18.61	28.50	
Maximum	30.85	30.46	28.50	
Average	23.38	23.09	28.50	
Total				2
		Peak Demand Day		Controlled Day

Monthly Report - Grand Rapids Public Utilities Commission

Grand Rapids Public Utilities Commission

Year 2022	Minimum duration 	Substation -----
Month 07 - July	Maximum duration 	Circuit -----
Annual Report? <input type="radio"/> Yes <input checked="" type="radio"/> No	Top-level Cause -----	Remove Major Events? -----

IEEE 1366 Statistics

Metric	Jul 2022	Jul 2021
SAIDI	1.624	0.015
SAIFI	0.0173	0.000267
CAIDI	93.753	60
ASAI	99.9962%	99.9999%
Momentary Interruptions	0	0
Sustained Interruptions	6	2

Circuit Ranking - Worst Performing

Ranked by Outage Count

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

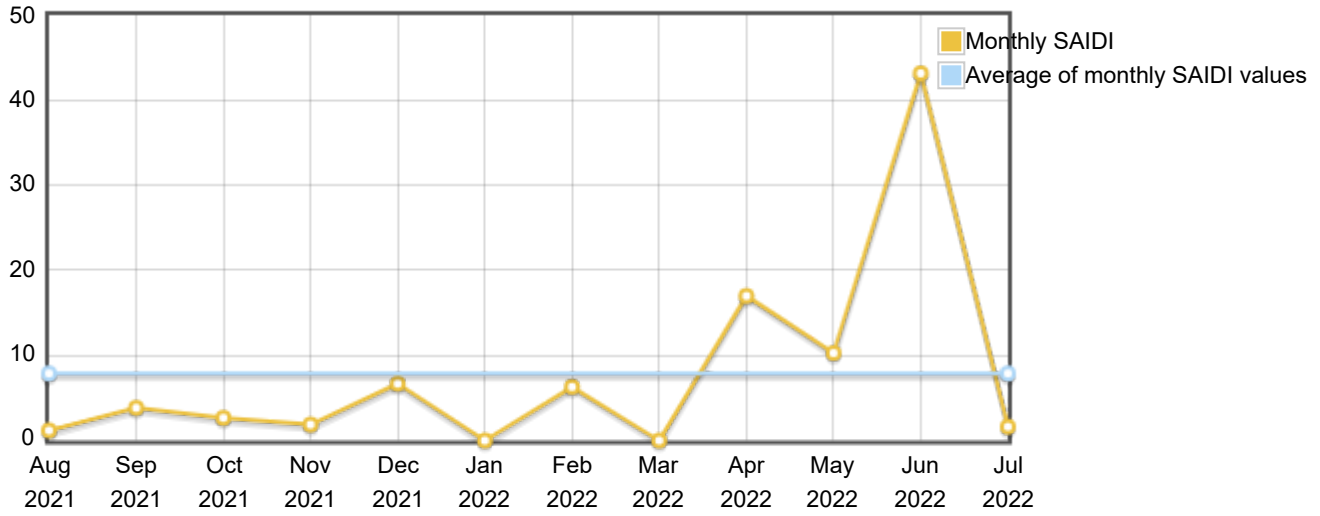
Ranked by Customer Interruptions

Circuit	Substation	Customer Interruptions
Feeder 320	Main Substation	61
Feeder 326	Main Substation	59

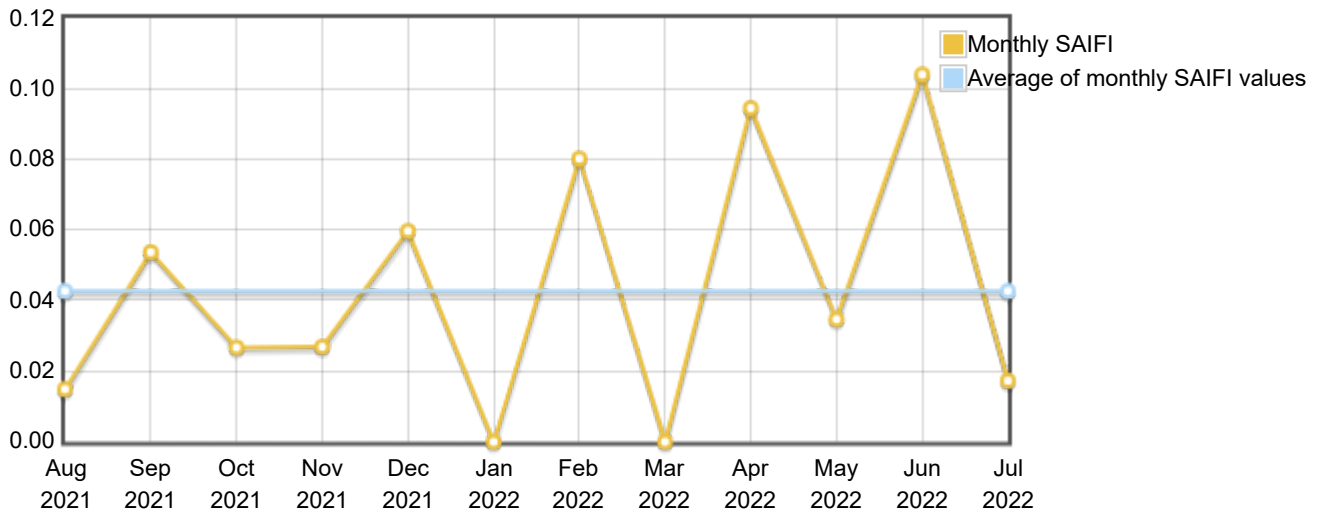
Ranked by Customer Minutes of Duration

Circuit	Substation	Customer Minutes of Duration
Feeder 326	Main Substation	5,841
Feeder 320	Main Substation	5,567

Historical Monthly SAIDI Chart



Historical Monthly SAIFI Chart



Causes Ranked by Count



Cause	Count
Tree	4
Squirrel	1
Unknown	1

Causes Ranked by Duration



Cause	Duration
Tree	11,012
Squirrel	780
Unknown	396

Top 6 Outages for the Month

Address	Customers Interrupted	Duration	Customer Minutes of Interruption	Cause	Start Date
NE 7th Ave, McGuire, Strader	59	99	5,841	Tree	07/03/2022
Stony Point Rd	19	178	3,382	Tree	07/18/2022
S Highway 169	11	99	1,089	Tree	07/18/2022
NE 5th Street	10	78	780	Squirrel	07/10/2022
Lakeview Drive, Crystal Springs	25	28	700	Tree	07/06/2022
SW 4th Street	6	66	396	Unknown	07/24/2022

Total Customers Affected for the Month:	130
Average Customers Affected per Outage:	21.666667

