

GRAND RAPIDS
PUBLIC UTILITIES

Service is Our Nature

500 SE Fourth Street • Grand Rapids, Minnesota 55744

ELECTRIC DEPARTMENT MONTHLY REPORT March 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 5 outages during the month.

Projects Performed Last Month

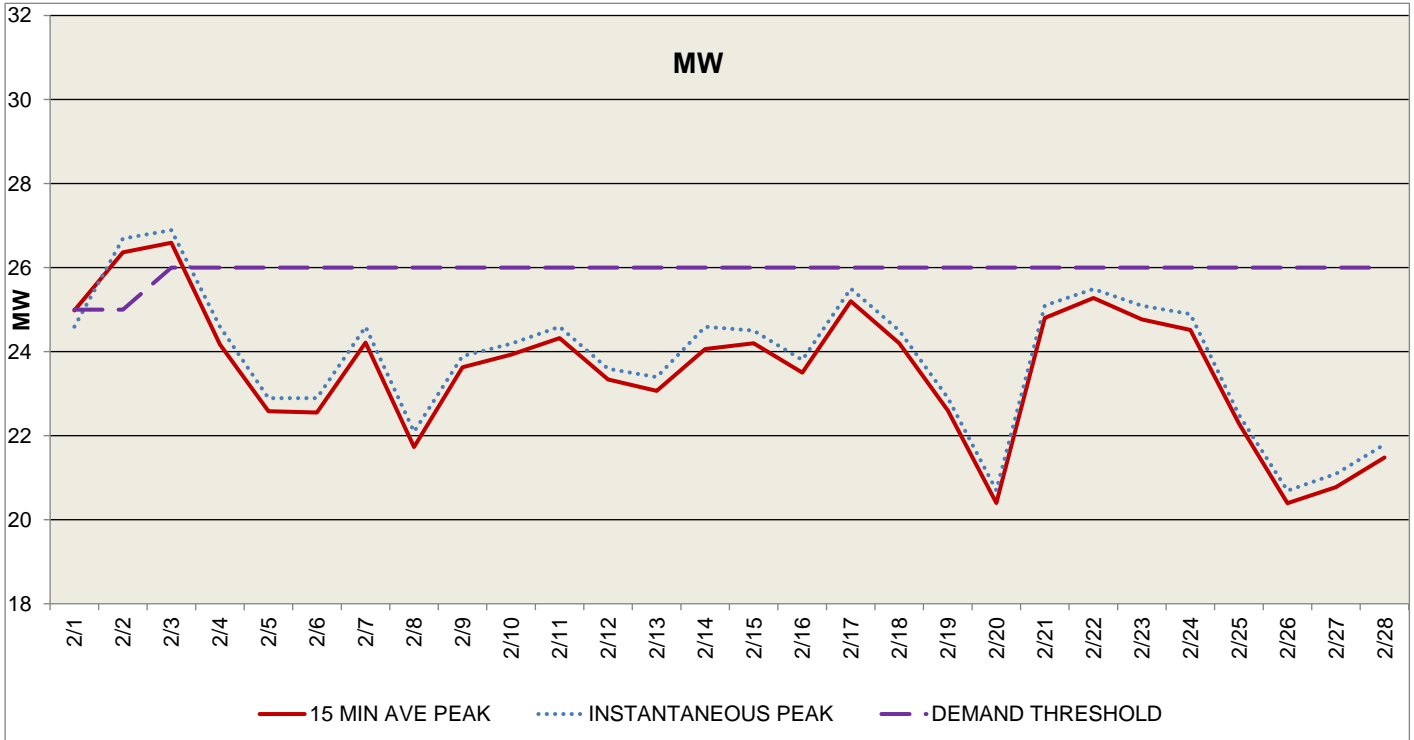
- Tripsaver recloser installation, Security light conversion, Electric Department line vehicles inspection and certification
- Policy/procedure work, project scheduling and material acquisition
- MMUA Training – Metering Basics and Safety, Impact of Electrical Contact

Projects Scheduled for This Month

- Work flow, procedural work
- Solar plus Battery Storage project
 - UL Certification for battery – have UL 1741 certification in hand, possibility of UL 9540 mid-March
 - Possibility of test energy and anti-islanding test mid-March
 - Solar and battery testing – mid to late March
 - System commissioning – April 1st
- New services/construction 2022 – County Courts and Jail project, Caribou coffee, LaPrairie campground, Maturi addition/old Kmart, Best Western, Woodland Bank, Cenex station, old Ainsworth site including lift stations, MDI second service

GRAND RAPIDS PUBLIC UTILITES COMMISSION				
FEBRUARY 2022 LOAD MANAGEMENT SYSTEM REPORT				
Feb-22	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
Minimum	20.69	20.39	25.00	
Maximum	26.89	26.59	26.00	
Average	23.86	23.57	25.93	
Total				2

Savings due to active load management system for month of February 2022 estimated at \$4050



GRAND RAPIDS PUBLIC UTILITIES COMMISSION

DAILY POWER USAGE

Feb-22	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
2/1	24.59	24.98	25.00	0.0
2/2	26.69	26.36	25.00	1.4
2/3	26.89	26.59	26.00	0.6
2/4	24.59	24.17	26.00	-1.8
2/5	22.89	22.58	26.00	-3.4
2/6	22.89	22.55	26.00	-3.4
2/7	24.59	24.21	26.00	-1.8
2/8	22.09	21.73	26.00	-4.3
2/9	23.89	23.63	26.00	-2.4
2/10	24.19	23.93	26.00	-2.1
2/11	24.59	24.32	26.00	-1.7
2/12	23.59	23.34	26.00	-2.7
2/13	23.39	23.07	26.00	-2.9
2/14	24.59	24.06	26.00	-1.9
2/15	24.50	24.20	26.00	-1.8
2/16	23.80	23.50	26.00	-2.5
2/17	25.50	25.20	26.00	-0.8
2/18	24.50	24.20	26.00	-1.8
2/19	22.90	22.60	26.00	-3.4
2/20	20.70	20.40	26.00	-5.6
2/21	25.10	24.80	26.00	-1.2
2/22	25.49	25.28	26.00	-0.7
2/23	25.09	24.76	26.00	-1.2
2/24	24.89	24.52	26.00	-1.5
2/25	22.49	22.29	26.00	-3.7
2/26	20.69	20.39	26.00	-5.6
2/27	21.09	20.78	26.00	-5.2
2/28	21.79	21.48	26.00	-4.5
Minimum	20.69	20.39	25.00	
Maximum	26.89	26.59	26.00	
Average	23.86	23.57	25.93	
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 02 - February ▼	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	Feb 2022	Feb 2021
SAIDI	6.302	1.011
SAIFI	0.0802	0.0147
CAIDI	78.556	68.972
ASAI	99.9837%	99.9973%
Momentary Interruptions	0	0
Sustained Interruptions	5	3

Circuit Ranking - Worst Performing

Ranked by Outage Count

Circuit	Substation	Number of Outages
Feeder 320	Main Substation	4
ES07	East Substation	1

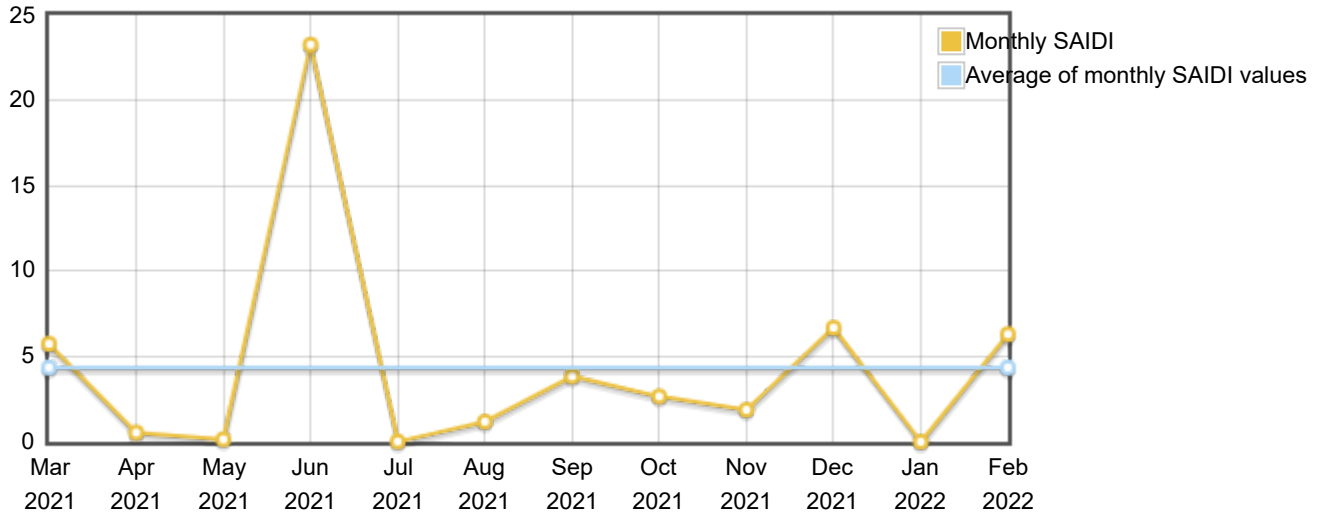
Ranked by Customer Interruptions

Circuit	Substation	Customer Interruptions
Feeder 320	Main Substation	601
ES07	East Substation	1

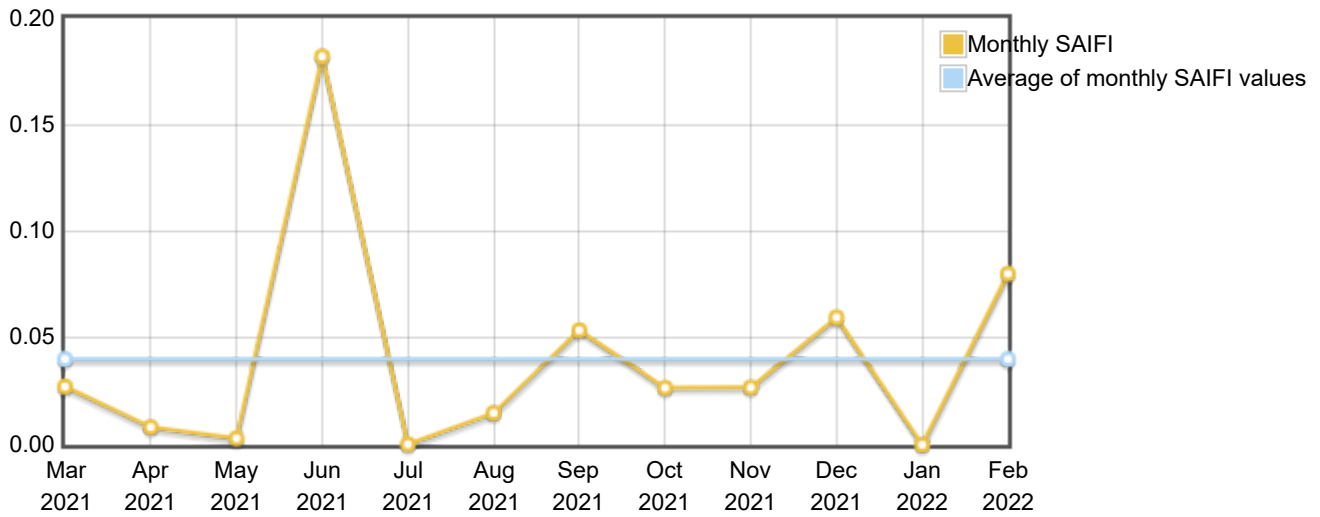
Ranked by Customer Minutes of Duration

Circuit	Substation	Customer Minutes of Duration
Feeder 320	Main Substation	47,255
ES07	East Substation	36

Historical Monthly SAIDI Chart



Historical Monthly SAIFI Chart



Causes Ranked by Count



Cause	Count
Tree	2
Unknown	1
Equipment	1

Causes Ranked by Duration



Cause	Duration
Unknown	24,075
Tree	22,650
Electrical Failure	530

Top 5 Outages for the Month

Address	Customers Interrupted	Duration	Customer Minutes of Interruption	Cause	Start Date
FUSE BLOWN BY SW SCHOOL WO# 187070	225	107	24,075	Unknown	02/28/2022
DONOVAN SWITCH SINGLE PHASE WO# 186926	367	60	22,020	Tree	02/18/2022
SW 6th ST WO# 186926	7	90	630	Tree	02/18/2022
1804 SW 3rd AVE WO# 187043	2	265	530	Bad underground	02/27/2022
2207 NE 27th AVE WO# 187066	1	36	36	Loose connection	02/25/2022

Total Customers Affected for the Month:	602
Average Customers Affected per Outage:	120.4

