

Service is Our Nature

500 SE Fourth Street • Grand Rapids, Minnesota 55744

ELECTRIC DEPARTMENT MONTHLY REPORT May 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

- Service center LED light conversion
- Solar plus battery commissioning
- Policy/procedure work

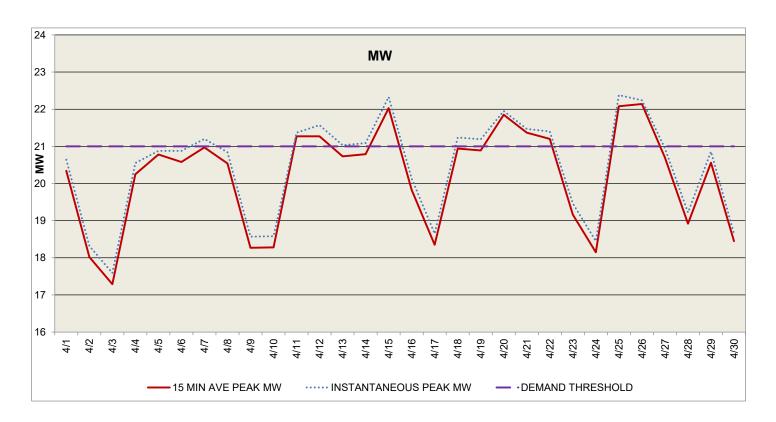
Projects Scheduled for This Month

- Repair bad underground cables from winter
- Solar plus Battery Storage project
 - System energized from GRPU grid 4/6
 - o Testing and commissioning of solar and battery systems April-May
 - o Preliminary anti-islanding test mid-April, final anti-islanding test May 5th
 - o Battery capacity test May 5th
 - o System commissioning late April along with final anti-islanding test
- New services/construction 2022 Best Western, Caribou coffee, Cenex station, County Courts and Jail project, LaPrairie campground, Maturi addition/old Kmart, MDI second service, New car wash, Wagner site development including lift stations, Woodland Bank

Phone: 218-326-7024 • Fax: 218-326-7499 • www.grpuc.org

GRAND RAPIDS PUBLIC UTILITES COMMISSION							
	APRIL 2022 LOAD MANAGEMENT SYSTEM REPORT						
Apr-22	INST PK MW 15 MIN AVE PK MW DEMAND CONTROLLED THRESHOLD DAYS						
Minimum	17.59	17.29	21.00				
Maximum	22.38	22.14	21.00				
Average	20.46	20.20	21.00				
Total				7			

Savings due to active load management system for month of April 2022 estimated at \$2160



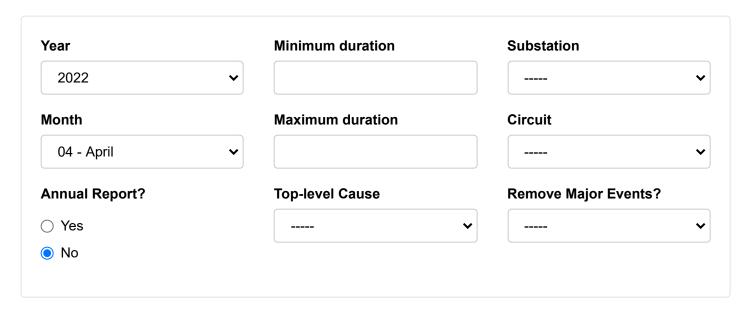
GRAND RAPIDS PUBLIC UTILITIES COMMISSION

DAILY POWER USAGE

Apr-22	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
4/1	20.64	20.34	21.00	-0.7
4/2	18.32	18.02	21.00	-3.0
4/3	17.59	17.29	21.00	-3.7
4/4	20.55	20.25	21.00	-0.8
4/5	20.88	20.78	21.00	-0.2
4/6	20.88	20.58	21.00	-0.4
4/7	21.20	20.97	21.00	0.0
4/8	20.84	20.54	21.00	-0.5
4/9	18.57	18.27	21.00	-2.7
4/10	18.58	18.28	21.00	- 2.7
4/11	21.37	21.27	21.00	0.3
4/12	21.57	21.27	21.00	0.3
4/13	21.03	20.73	21.00	-0.3
4/14	21.09	20.79	21.00	-0.2
4/15	22.33	22.03	21.00	1.0
4/16	20.13	19.83	21.00	-1.2
4/17	18.65	18.35	21.00	-2.7
4/18	21.24	20.94	21.00	-0.1
4/19	21.19	20.89	21.00	-0.1
4/20	21.95	21.85	21.00	0.9
4/21	21.47	21.37	21.00	0.4
4/22	21.40	21.20	21.00	0.2
4/23	19.46	19.16	21.00	-1.8
4/24	18.45	18.15	21.00	-2.9
4/25	22.38	22.08	21.00	1.1
4/26	22.24	22.14	21.00	1.1
4/27	20.95	20.70	21.00	-0.3
4/28	19.22	18.92	21.00	-2.1
4/29	20.86	20.56	21.00	-0.4
4/30	18.65	18.45	21.00	- 2.6
Minimum	17.59	17.29	21.00	
Maximum	22.38	22.14	21.00	
Average	20.46	20.20	21.00	
Total				7
		Peak Demand Day		Controlled Day
1				

Monthly Report - Grand Rapids Public Utilities Commission

Grand Rapids Public **Utilities Commission**



IEEE 1366 Statistics

SAIDI		
-,	16.99	0.54
SAIFI	0.0945	0.00826
CAIDI	179.798	65.354
ASAI	99.9593%	99.9987%
Momentary Interruptions	0	0
Sustained Interruptions	6	3

Circuit Ranking - Worst Performing

Ranked by Outage Count

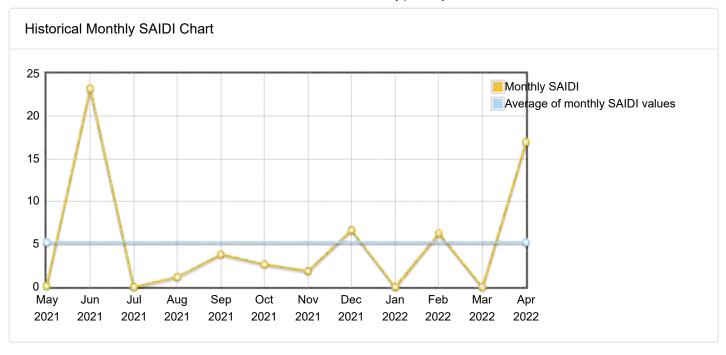
Circuit	Substation	Number of Outages
Feeder 320	Main Substation	5
ES05	East Substation	1

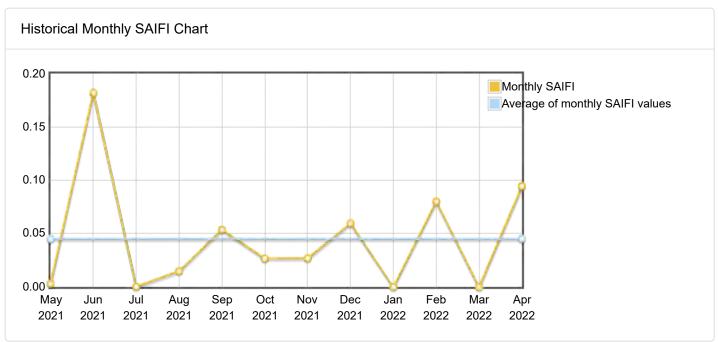
Ranked by Customer Interruptions

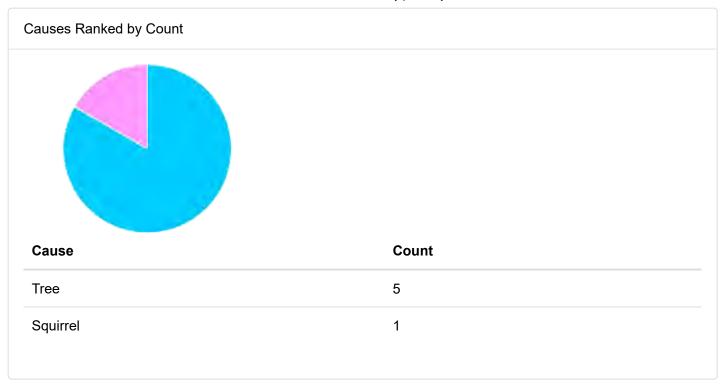
Circuit	Substation	Customer Interruptions
Feeder 320	Main Substation	700
ES05	East Substation	9

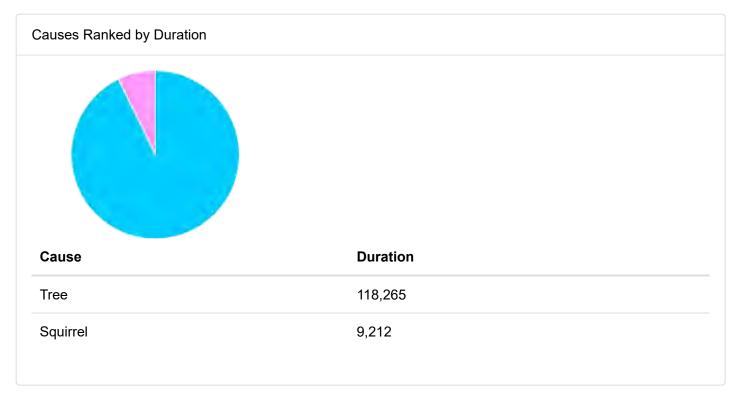
Ranked by Customer Minutes of Duration

Circuit	Substation	Customer Minutes of Duration
Feeder 320	Main Substation	124,777
ES05	East Substation	2,700









Top 6 Outages for the Month

Address	Customers Interrupted	Duration	Customer Minutes of Interruption	of	Start Date
APPLEBEES "A" PHASE SOUTH WO# 188454	243	223	54,189	Tree, heavy snow	04/06/2022
DONOVAN SWITCH NORTH WO# 188454	265	119	31,535	Tree, heavy snow	04/06/2022
MISHAWAKA RD WO# 188454	77	324	24,948	Tree, heavy snow	04/06/2022
FRASER DR SW WO# 188503	94	98	9,212	Squirrel	04/09/2022
WOODLAND DR WO# 188454	21	233	4,893	Tree, heavy snow	04/06/2022
VOGES AVE WO# 188454	9	300	2,700	Tree, heavy snow	04/06/2022
Total Customers Affected for the	e Month:				709
Average Customers Affected pe	er Outage:			11	8.166667



