

GRAND RAPIDS
PUBLIC UTILITIES

Service is Our Nature

500 SE Fourth Street • Grand Rapids, Minnesota 55744

ELECTRIC DEPARTMENT MONTHLY REPORT July 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 nine outages during the month.

Projects Performed Last Month

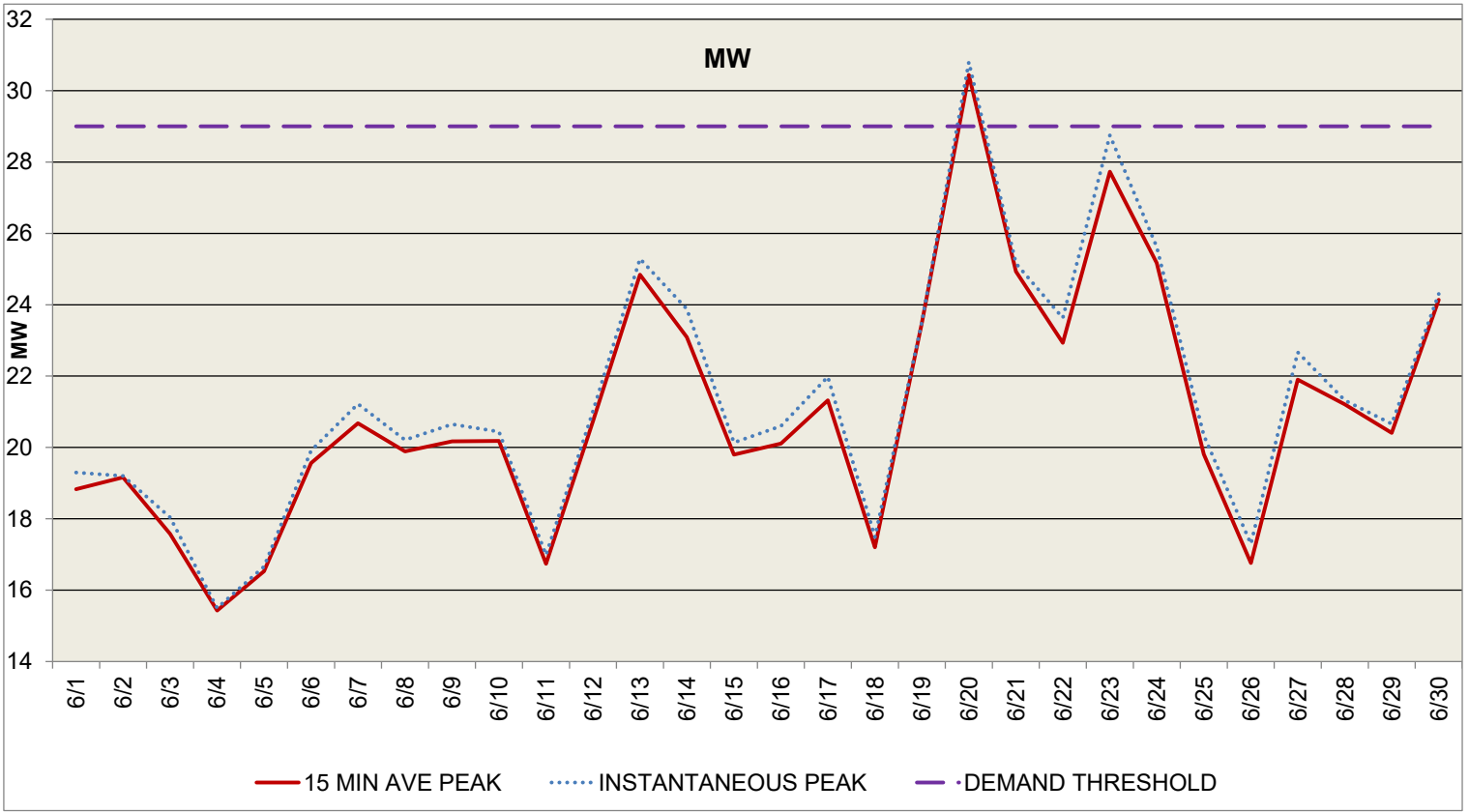
- Worked on several commercial electric services, some residential services
- Several storms in June – mostly trees on lines, after storm clean up
- Office fluorescent to LED light conversion, Outage Management Implementation for outage tracking and customer call in tracking

Projects Scheduled for This Month

- Working on cable replacement projects and some commercial services
- New customer solar panel service – Crystal Springs Loop
- Solar plus Battery Storage project
 - System energized from GRPU grid 4/6, solar system operational
 - Discharge of fire suppression into battery compartment has caused multiple problems including corrosion of batteries. U.S. Solar has shipped battery compartment to Georgia for individual battery cell replacement. After replacement and shipment of battery compartment back to Grand Rapids anticipated capacity test week of July 18th
 - Due to delay of commercial operational date liquidated damages have been triggered in reference to contract, Minnesota Power has been handling this
- 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
- City/County projects – County Road 63/Highway 2 trail project, SW 21st Street, Airport Road/River Road round about

GRAND RAPIDS PUBLIC UTILITIES COMMISSION				
JUNE 2022 LOAD MANAGEMENT SYSTEM REPORT				
Jun-22	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
Minimum	16.80	16.73	29.00	
Maximum	32.10	31.74	29.00	
Average	22.72	22.33	29.00	
Total				1

Savings due to active load management system for month of June 2022 estimated at \$3780



GRAND RAPIDS PUBLIC UTILITIES COMMISSION
DAILY POWER USAGE

Jun-12	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
6/1	19.30	18.83	29.00	-10.2
6/2	19.20	19.16	29.00	-9.8
6/3	18.04	17.58	29.00	-11.4
6/4	15.50	15.43	29.00	-13.6
6/5	16.66	16.53	29.00	-12.5
6/6	19.91	19.56	29.00	-9.4
6/7	21.22	20.68	29.00	-8.3
6/8	20.21	19.89	29.00	-9.1
6/9	20.65	20.17	29.00	-8.8
6/10	20.44	20.18	29.00	-8.8
6/11	16.99	16.74	29.00	-12.3
6/12	21.01	20.73	29.00	-8.3
6/13	25.29	24.84	29.00	-4.2
6/14	23.88	23.09	29.00	-5.9
6/15	20.14	19.80	29.00	-9.2
6/16	20.60	20.11	29.00	-8.9
6/17	21.98	21.32	29.00	-7.7
6/18	17.49	17.20	29.00	-11.8
6/19	23.50	23.48	29.00	-5.5
6/20	30.80	30.44	29.00	1.4
6/21	25.16	24.93	29.00	-4.1
6/22	23.63	22.93	29.00	-6.1
6/23	28.75	27.73	29.00	-1.3
6/24	25.62	25.17	29.00	-3.8
6/25	20.34	19.81	29.00	-9.2
6/26	17.30	16.76	29.00	-12.2
6/27	22.67	21.90	29.00	-7.1
6/28	21.32	21.21	29.00	-7.8
6/29	20.66	20.41	29.00	-8.6
6/30	24.30	24.14	29.00	-4.9
Minimum	15.50	15.43	29.00	
Maximum	30.80	30.44	29.00	
Average	21.42	21.03	29.00	
Total				1
		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 06 - June ▼	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	Jun 2022	Jun 2021
SAIDI	43.156	23.261
SAIFI	0.104	0.182
CAIDI	416.203	127.486
ASAI	99.8966%	99.9442%
Momentary Interruptions	0	0
Sustained Interruptions	9	9

Circuit Ranking - Worst Performing

Ranked by Outage Count

Circuit	Substation	Number of Outages
Feeder 320	Main Substation	3
Feeder 328	Main Substation	2
Feeder 326	Main Substation	1

Ranked by Customer Interruptions

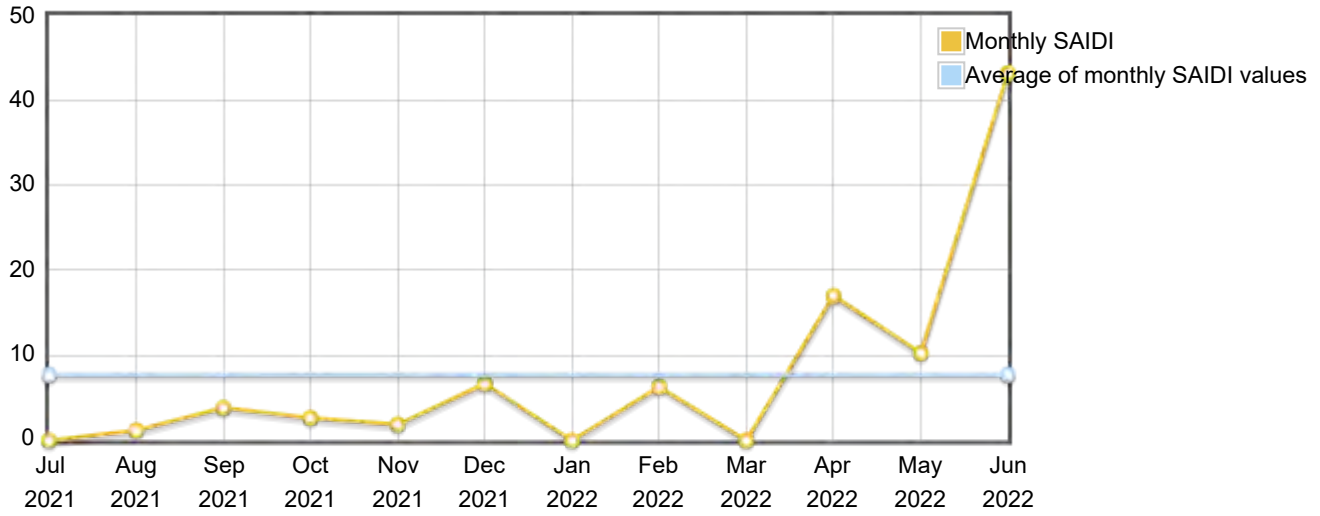
Circuit	Substation	Customer Interruptions
Feeder 320	Main Substation	599
Feeder 328	Main Substation	63
Feeder 327	Main Substation	56

Ranked by Customer Minutes of Duration

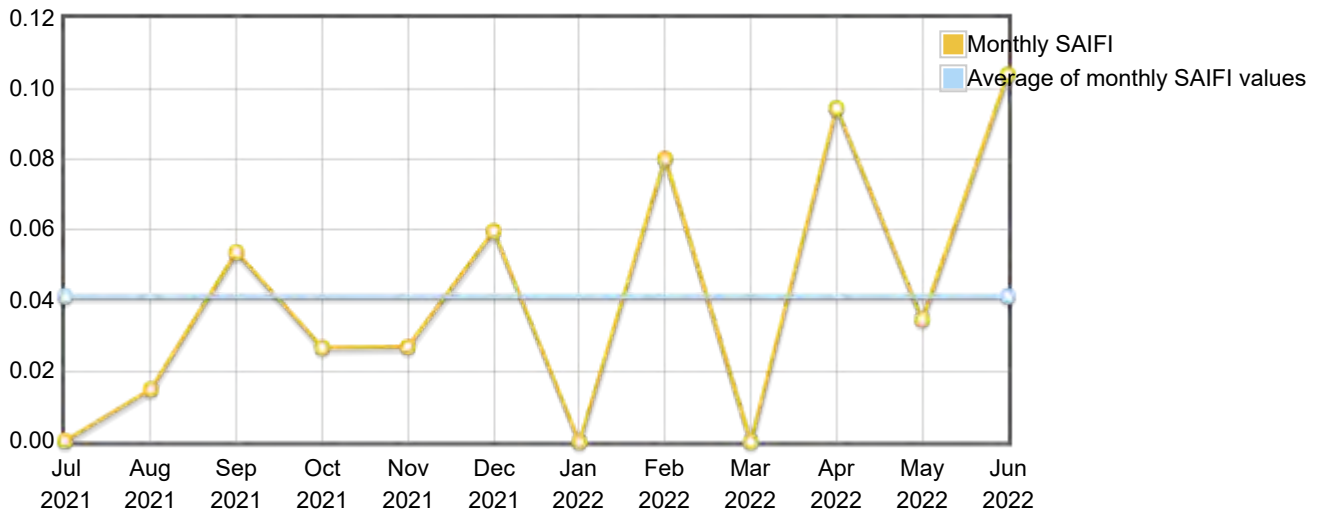
Circuit	Substation	Customer Minutes of Duration
Feeder 320	Main Substation	311,022

Circuit	Substation	Customer Minutes of Duration
Feeder 327	Main Substation	4,592
Feeder 328	Main Substation	3,918

Historical Monthly SAIDI Chart



Historical Monthly SAIFI Chart

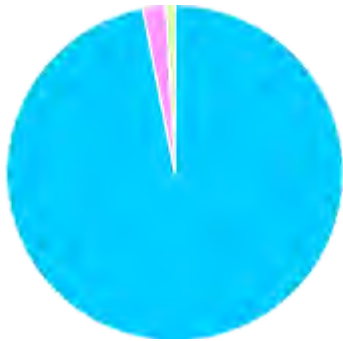


Causes Ranked by Count



Cause	Count
Storm	5
Electrical Failure	2
Unknown	1

Causes Ranked by Duration



Cause	Duration
Storm	312,773
Electrical Failure	7,166
Unknown	2,726

Top 9 Outages for the Month

Address	Customers Interrupted	Duration	Customer Minutes of Interruption	Cause	Start Date
Southern Grand Rapids	542	568	307,856	Storm	06/20/2022
River Road	56	82	4,592	Electrical failure	06/25/2022
Golf Course Road	39	71	2,769	Storm	06/26/2022
SW 12th Avenue	47	58	2,726	Unknown	06/28/2022
River Road, Mornes Road	39	66	2,574	Electrical failure	06/22/2022
SE 5th Street	24	56	1,344	Storm	06/24/2022
NE 7th Avenue	7	163	1,141	Tree	06/29/2022
Harris Town Road	10	44	440	Storm	06/25/2022
NW 8th Street	14	26	364	Storm	06/25/2022

Total Customers Affected for the Month:	778
Average Customers Affected per Outage:	86.444444

