

GRAND RAPIDS
PUBLIC UTILITIES

Service is Our Nature

500 SE Fourth Street • Grand Rapids, Minnesota 55744

ELECTRIC DEPARTMENT MONTHLY REPORT September 2021 Commission Meeting

Safety

- There were no OSHA recordable accidents last month.

Topic of the Month

- Solar plus Battery Storage
 - Construction update
 - Project Operations & Governance Committee, Load Management Operations, Finance Committee
 - Schedule

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

- The attached eReliability report shows that we had 7 outages during the month.

Projects Performed Last Month

- New, existing service work
- Storm cleanup – tree removal and service repairs
- Overhead to underground conversions

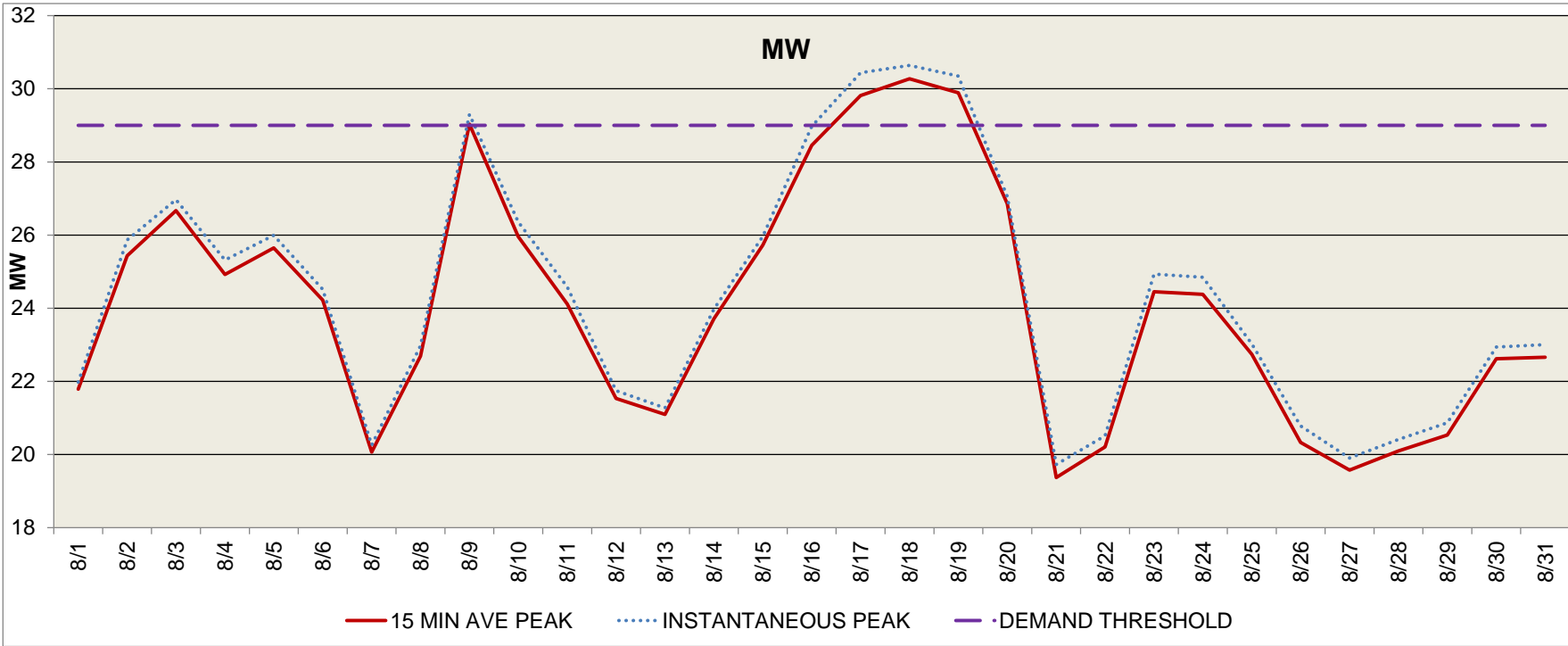
Projects Scheduled for This Month

- Policies, procedures work
- Capital projects – new electric reclosers, gateway modems
- Solar – install new switch for connection into system



GRAND RAPIDS PUBLIC UTILITIES COMMISSION				
AUGUST 2021 LOAD MANAGEMENT SYSTEM REPORT				
Aug-21	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
Minimum	19.73	19.37	29.00	
Maximum	30.64	30.27	29.00	
Average	24.37	24.03	29.00	
Total				5

Savings due to active load management system for month of August 2021 estimated at \$28,650



GRAND RAPIDS PUBLIC UTILITIES COMMISSION
DAILY POWER USAGE

Aug-21	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
8/1	21.98	21.79	29.00	-7.2
8/2	25.87	25.43	29.00	-3.6
8/3	26.97	26.67	29.00	-2.3
8/4	25.32	24.92	29.00	-4.1
8/5	25.99	25.65	29.00	-3.4
8/6	24.52	24.22	29.00	-4.8
8/7	20.26	20.07	29.00	-8.9
8/8	22.98	22.69	29.00	-6.3
8/9	29.30	29.03	29.00	0.0
8/10	26.36	25.96	29.00	-3.0
8/11	24.58	24.12	29.00	-4.9
8/12	21.74	21.53	29.00	-7.5
8/13	21.27	21.10	29.00	-7.9
8/14	23.98	23.72	29.00	-5.3
8/15	25.96	25.72	29.00	-3.3
8/16	28.97	28.45	29.00	-0.5
8/17	30.44	29.82	29.00	0.8
8/18	30.64	30.27	29.00	1.3
8/19	30.35	29.89	29.00	0.9
8/20	27.05	26.85	29.00	-2.1
8/21	19.73	19.37	29.00	-9.6
8/22	20.51	20.21	29.00	-8.8
8/23	24.93	24.45	29.00	-4.5
8/24	24.85	24.38	29.00	-4.6
8/25	23.03	22.74	29.00	-6.3
8/26	20.78	20.33	29.00	-8.7
8/27	19.90	19.58	29.00	-9.4
8/28	20.41	20.10	29.00	-8.9
8/29	20.87	20.53	29.00	-8.5
8/30	22.94	22.62	29.00	-6.4
8/31	23.00	22.66	29.00	-6.3
Minimum	19.73	19.37	29.00	
Maximum	30.64	30.27	29.00	
Average	24.37	24.03	29.00	
Total				5
		Peak Demand Day		Controlled Day

Monthly Report - Grand Rapids Public Utilities Commission

Grand Rapids Public Utilities Commission

Year 2021	Minimum duration 	Substation -----
Month 08 - August	Maximum duration 	Circuit -----
Annual Report? <input type="radio"/> Yes <input checked="" type="radio"/> No	Top-level Cause -----	Remove Major Events? -----

IEEE 1366 Statistics

Metric	Aug 2021	Aug 2020
SAIDI	1.181	55.315
SAIFI	0.0149	0.232
CAIDI	79.169	238.385
ASAI	99.9972%	99.8719%
Momentary Interruptions	0	0
Sustained Interruptions	7	13

Circuit Ranking - Worst Performing

Ranked by Outage Count

Circuit	Substation	Number of Outages
Feeder 320	Main Substation	2
Feeder 327	Main Substation	2
CL24	Crystal Lake Substation	1

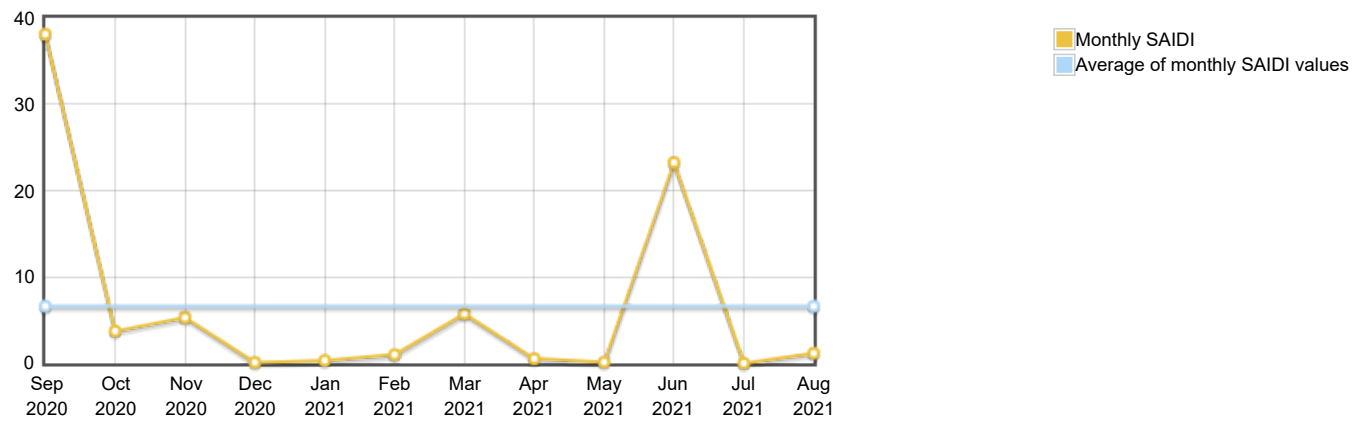
Ranked by Customer Interruptions

Circuit	Substation	Customer Interruptions
Feeder 328	Main Substation	59
Feeder 320	Main Substation	25
CL24	Crystal Lake Substation	18

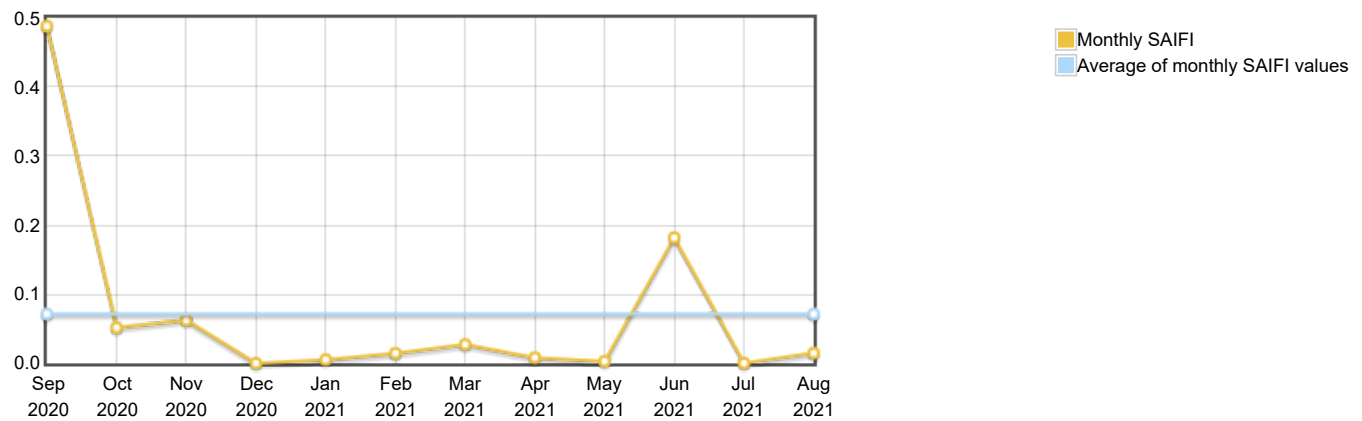
Ranked by Customer Minutes of Duration

Circuit	Substation	Customer Minutes of Duration
Feeder 328	Main Substation	6,136
Feeder 320	Main Substation	1,455
CL24	Crystal Lake Substation	702

Historical Monthly SAIDI Chart



Historical Monthly SAIFI Chart



Causes Ranked by Count



Cause	Count
Squirrel	5
Unknown	2

Causes Ranked by Duration



Cause	Duration
Unknown	6,496
Squirrel	2,371

Top 7 Outages for the Month

Address	Customers Interrupted	Duration	Customer Minutes of Interruption	Cause	Start Date
se 8TH st switch wo# 181002	59	104	6,136	Unknown	08/07/2021
ALLEY 1st AVE SW WO# 181006	22	60	1,320	Squirrel	08/07/2021
9th ST & 6th AVE NW WO# 181535	18	39	702	Squirrel	08/26/2021
823 NW 5th ST WO# 181884	6	60	360	Unknown	08/29/2021
2515 W HWY 2 WO# 181010	3	55	165	Squirrel	08/21/2021
305 SW 8th ST	3	45	135	Squirrel	08/16/2021
2213 MAPLE ST WO# 181545	1	49	49	Squirrel	08/26/2021

Total Customers Affected for the Month: **112**

Average Customers Affected per Outage: **16**

