

Service is Our Nature

500 SE Fourth Street • Grand Rapids, Minnesota 55744

## **ELECTRIC DEPARTMENT MONTHLY REPORT**October 2021 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**

• The attached eReliability report shows that we had 8 outages during the month.

### **Projects Performed Last Month**

- New, existing service work
- Grand Rapids Riverfest
- Outage Management System
  - o Will be used to track outage and other calls from customers
  - o Internal and external facing outage map
  - Connected to automated metering infrastructure, meters report outages automatically and populates outage map
  - Currently configuring software, making connections to customer information system, GIS, automated metering infrastructure system, Cooperative Response System (call center)

### **Projects Scheduled for This Month**

- Policies, procedures
- Capital projects new electric reclosers, gateway modems
- Solar plus Battery Storage project
  - o New high voltage switch installed for connection to GRPU grid
  - Working with MN Power on demand response system coordination
  - o 15% complete with solar module installation, 75% of modules delivered
  - Testing to start later in October
  - Battery delivery delayed by 3-4 weeks, expected commissioning early to mid-November

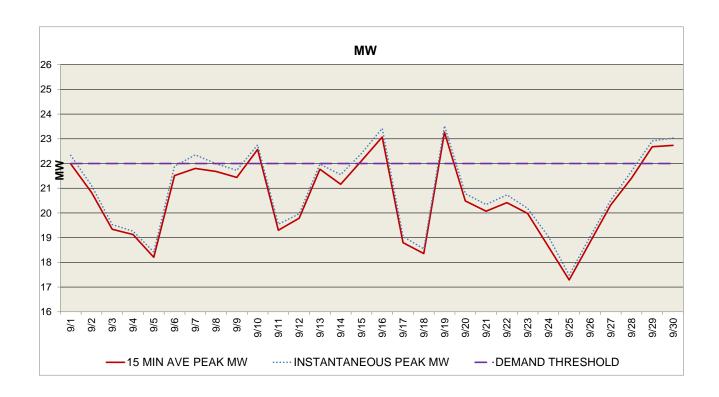
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	GRAND RAPIDS PUBLIC UTILITES COMMISSION					
SEP'	SEPTEMBER 2021 LOAD MANAGEMENT SYSTEM REPORT					
Sep-21 INST PK MW 15 MIN AVE PK MW MW DEMAND CONTROLL DAYS						
Minimum	17.49	17.29	22.00			
Maximum	23.52	23.26	22.00			
Average	20.90	20.63	22.00			
Total				3		

Savings due to active load management system for month of September 2021 estimated at \$9550



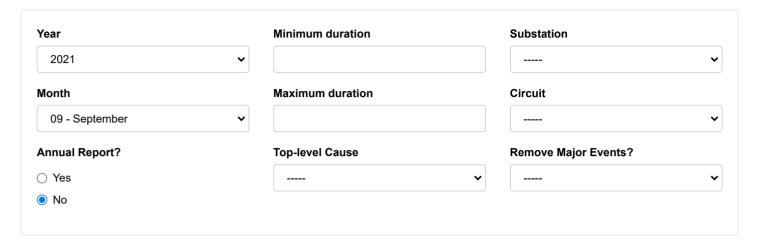
### **GRAND RAPIDS PUBLIC UTILITIES COMMISSION**

### **DAILY POWER USAGE**

Sep-21	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
9/1	22.33	21.99	22.00	0.0
9/2	21.11	20.83	22.00	-1.2
9/3	19.53	19.34	22.00	-2.7
9/4	19.26	19.13	22.00	-2.9
9/5	18.42	18.21	22.00	-3.8
9/6	21.89	21.51	22.00	-0.5
9/7	22.35	21.80	22.00	-0.2
9/8	21.99	21.68	22.00	-0.3
9/9	21.72	21.44	22.00	-0.6
9/10	22.76	22.57	22.00	0.6
9/11	19.54	19.30	22.00	-2.7
9/12	19.97	19.79	22.00	-2.2
9/13	21.98	21.77	22.00	-0.2
9/14	21.55	21.16	22.00	-0.8
9/15	22.41	22.11	22.00	0.1
9/16	23.42	23.07	22.00	1.1
9/17	19.05	18.80	22.00	-3.2
9/18	18.54	18.36	22.00	-3.6
9/19	23.52	23.26	22.00	1.3
9/20	20.78	20.48	22.00	-1.5
9/21	20.34	20.07	22.00	-1.9
9/22	20.73	20.42	22.00	-1.6
9/23	20.19	19.98	22.00	-2.0
9/24	19.05	18.64	22.00	-3.4
9/25	17.49	17.29	22.00	-4.7
9/26	19.02	18.81	22.00	-3.2
9/27	20.51	20.32	22.00	-1.7
9/28	21.69	21.41	22.00	-0.6
9/29	22.91	22.68	22.00	0.7
9/30	23.03	22.74	22.00	0.7
Minimum	17.49	17.29	22.00	
Maximum	23.52	23.26	22.00	
Average	20.90	20.63	22.00	
Total				3
		Peak Demand Day		Controlled Day
		,		

# Monthly Report - Grand Rapids Public Utilities Commission

# Grand Rapids Public Utilities Commission



Metric	Sep 2021	Sep 2020
SAIDI	3.838	38.109
SAIFI	0.0537	0.488
CAIDI	71.473	78.167
ASAI	99.9908%	99.9087%
Momentary Interruptions	0	0
Sustained Interruptions	8	11

#### Circuit Ranking - Worst Performing

### Ranked by Outage Count

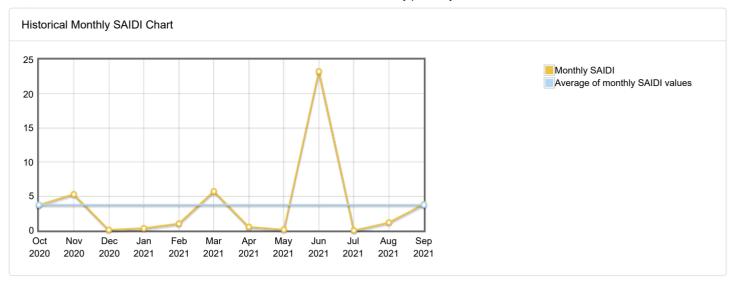
Circuit	Substation	Number of Outages
Feeder 320	Main Substation	3
Feeder 328	Main Substation	3
Feeder 327	Main Substation	1

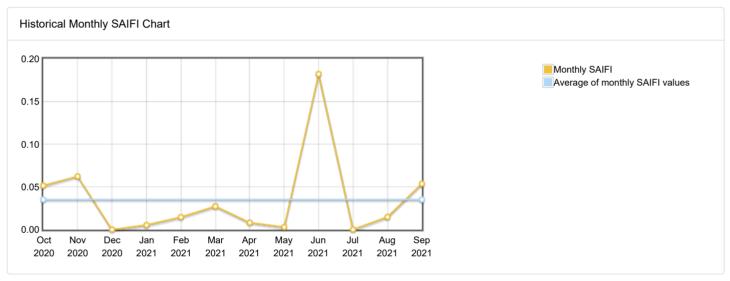
#### Ranked by Customer Interruptions

Circuit	Substation	Customer Interruptions
Feeder 328	Main Substation	350
Feeder 320	Main Substation	50
Feeder 327	Main Substation	2

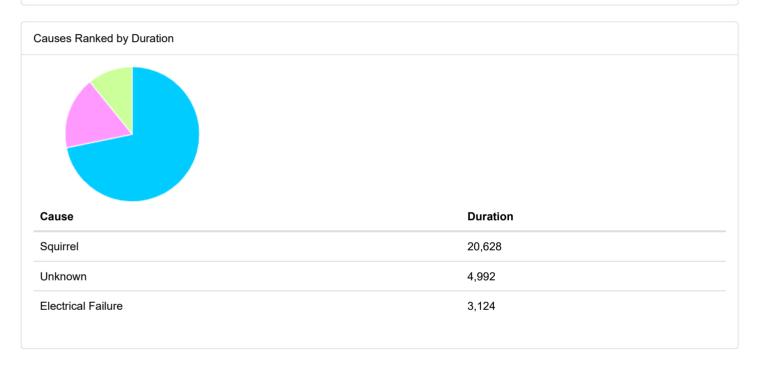
#### Ranked by Customer Minutes of Duration

Circuit	Substation	Customer Minutes of Duration
Feeder 328	Main Substation	24,390
Feeder 320	Main Substation	4,290
Feeder 327	Main Substation	64





### Causes Ranked by Count Cause Count 3 Squirrel Electrical Failure 3 Unknown 1



Top	8	Outages	for	the	Month

Address	Customers Interrupted	Duration	Customer Minutes of Interruption	S Cause	Start Date
RIVER RD LCP ANEX WO# 182239	242	69	16,698	Squirrel	09/06/2021
DAVIS RD WO# 182244	78	64	4,992	Bad arrestor	09/16/2021
ALLEY 10th & 11th AVE SW WO# 181889	43	90	3,870	Squirrel	09/03/2021
RIVER RD LCP AREA WO# 182463	30	90	2,700	Bad arrestor	09/20/2021
14 SE 4th ST WO# 182957	6	60	360 I	Damaged wire	09/26/2021
2821 ALICE ST WO# 182241	2	32	64	Bad wire	09/14/2021
2168 MISHAWAKA RD WO# 182466	1	60	60	Squirrel	09/26/2021
3 IRENE RD WO# 182464	1	60	60	Fire	09/25/2021
Total Customers Affected for the Month:					403
Average Customers Affected per Outage	<b>:</b> :				50.375



