

GRAND RAPIDS
PUBLIC UTILITIES

Service is Our Nature

500 SE Fourth Street • Grand Rapids, Minnesota 55744

ELECTRIC DEPARTMENT MONTHLY REPORT November 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 2 outages during the month.

Projects Performed Last Month

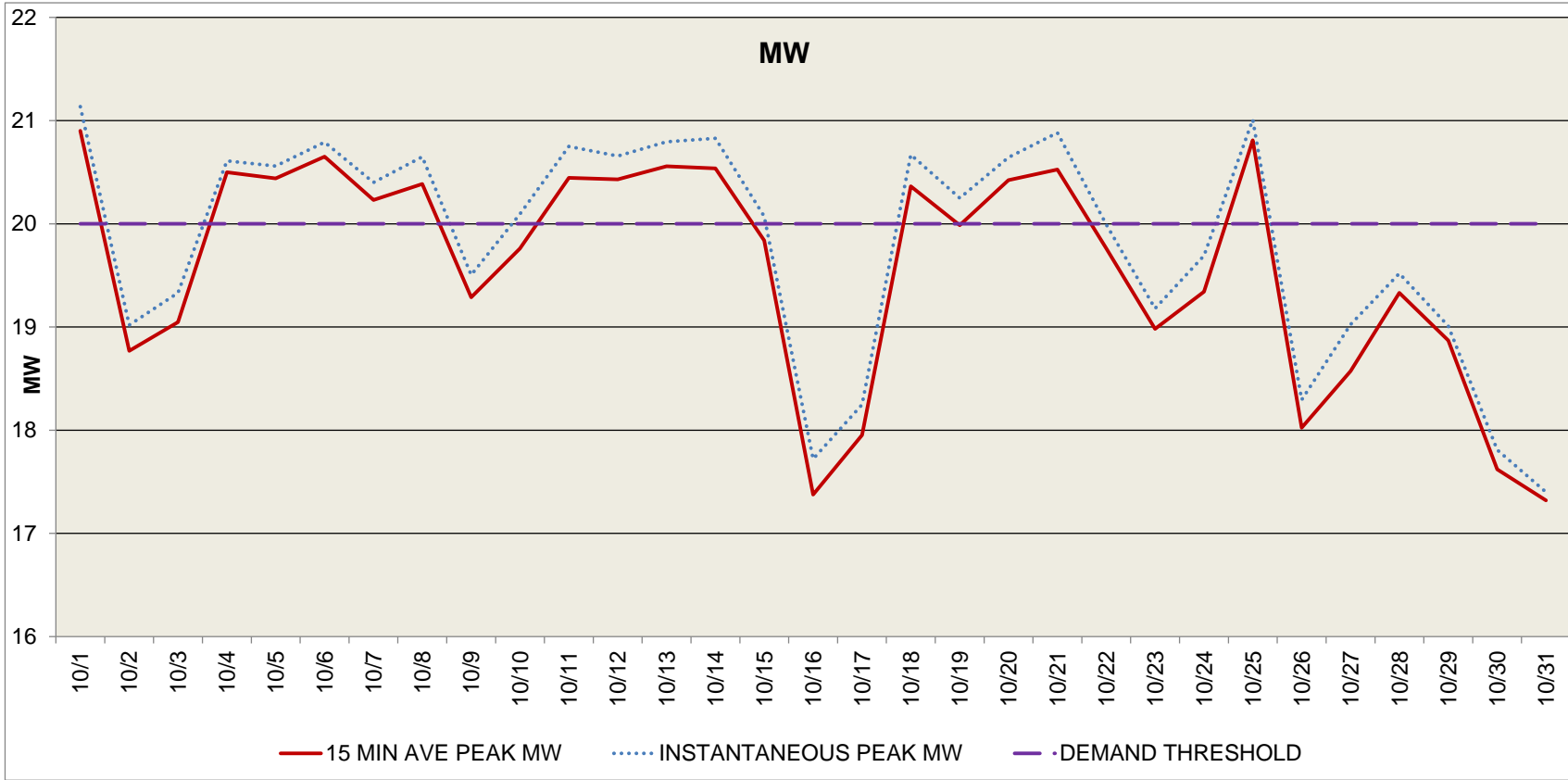
- New, existing service work
- MMUA Training – Transformer Connections
- Outage Management System installation and training

Projects Scheduled for This Month

- Policies, procedures
- 2022 Budget work
- Solar plus Battery Storage project
 - Connection to GRPU grid – Nov 10th
 - Power into solar system from GRPU grid – end of November
 - Start testing and commissioning of solar system – end of November
 - Anti-islanding test – end of November or beginning of December
 - Battery delivery – December 1st
 - Battery testing and commissioning – mid-December
 - System commissioning – end of December

GRAND RAPIDS PUBLIC UTILITIES COMMISSION				
OCTOBER 2021 LOAD MANAGEMENT SYSTEM REPORT				
Oct-21	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
Minimum	17.40	17.32	20.00	
Maximum	21.14	20.90	20.00	
Average	19.82	19.58	20.00	
Total				2

Savings due to active load management system for month of October 2021 estimated at \$15,280



GRAND RAPIDS PUBLIC UTILITIES COMMISSION
DAILY POWER USAGE

Oct-21	INST PK MW	15 MIN AVE PK MW	MW DEMAND THRESHOLD	CONTROLLED DAYS
10/1	21.14	20.90	20.00	0.9
10/2	19.02	18.77	20.00	-1.2
10/3	19.33	19.05	20.00	-1.0
10/4	20.61	20.50	20.00	0.5
10/5	20.56	20.44	20.00	0.4
10/6	20.79	20.65	20.00	0.6
10/7	20.40	20.23	20.00	0.2
10/8	20.65	20.38	20.00	0.4
10/9	19.50	19.29	20.00	-0.7
10/10	20.10	19.76	20.00	-0.2
10/11	20.75	20.45	20.00	0.4
10/12	20.66	20.43	20.00	0.4
10/13	20.79	20.56	20.00	0.6
10/14	20.83	20.54	20.00	0.5
10/15	20.07	19.84	20.00	-0.2
10/16	17.72	17.38	20.00	-2.6
10/17	18.25	17.95	20.00	-2.0
10/18	20.67	20.36	20.00	0.4
10/19	20.25	19.99	20.00	0.0
10/20	20.64	20.42	20.00	0.4
10/21	20.88	20.53	20.00	0.5
10/22	19.99	19.76	20.00	-0.2
10/23	19.18	18.98	20.00	-1.0
10/24	19.69	19.34	20.00	-0.7
10/25	21.01	20.81	20.00	0.8
10/26	18.30	18.02	20.00	-2.0
10/27	19.03	18.57	20.00	-1.4
10/28	19.52	19.33	20.00	-0.7
10/29	19.01	18.87	20.00	-1.1
10/30	17.81	17.62	20.00	-2.4
10/31	17.40	17.32	20.00	-2.7
Minimum	17.40	17.32	20.00	
Maximum	21.14	20.90	20.00	
Average	19.82	19.58	20.00	
Total				2
		Peak Demand Day		Controlled Day

Monthly Report - Grand Rapids Public Utilities Commission

Grand Rapids Public Utilities Commission

Year 2021	Minimum duration 	Substation -----
Month 10 - October	Maximum duration 	Circuit -----
Annual Report? <input type="radio"/> Yes <input checked="" type="radio"/> No	Top-level Cause -----	Remove Major Events? -----

IEEE 1366 Statistics

Metric	Oct 2021	Oct 2020
SAIDI	2.658	3.739
SAIFI	0.0267	0.0516
CAIDI	99.735	72.498
ASAI	99.9938%	99.9913%
Momentary Interruptions	0	0
Sustained Interruptions	2	8

Circuit Ranking - Worst Performing

Ranked by Outage Count

Circuit	Substation	Number of Outages
FEEDER 329	TIOGA SUBSTATION	2

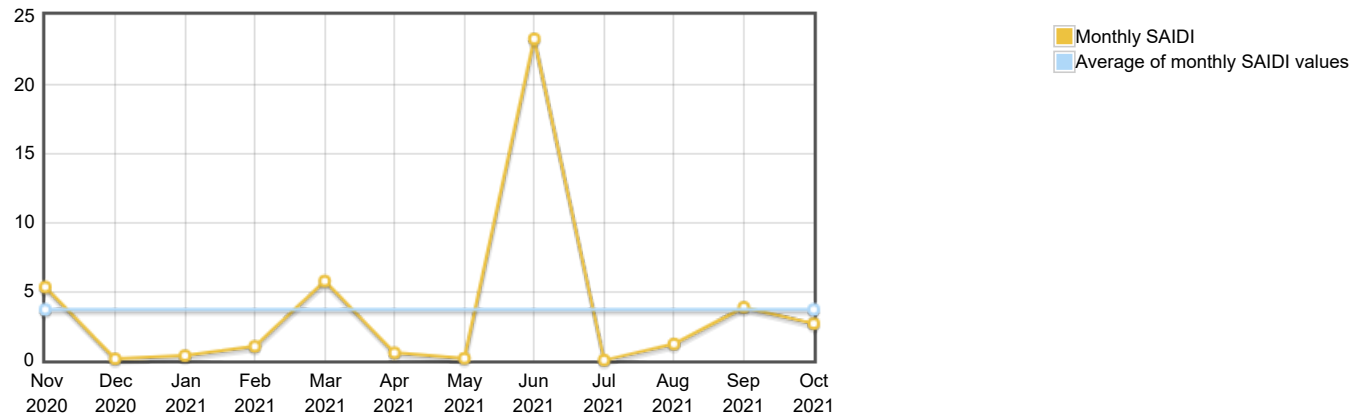
Ranked by Customer Interruptions

Circuit	Substation	Customer Interruptions
FEEDER 329	TIOGA SUBSTATION	200

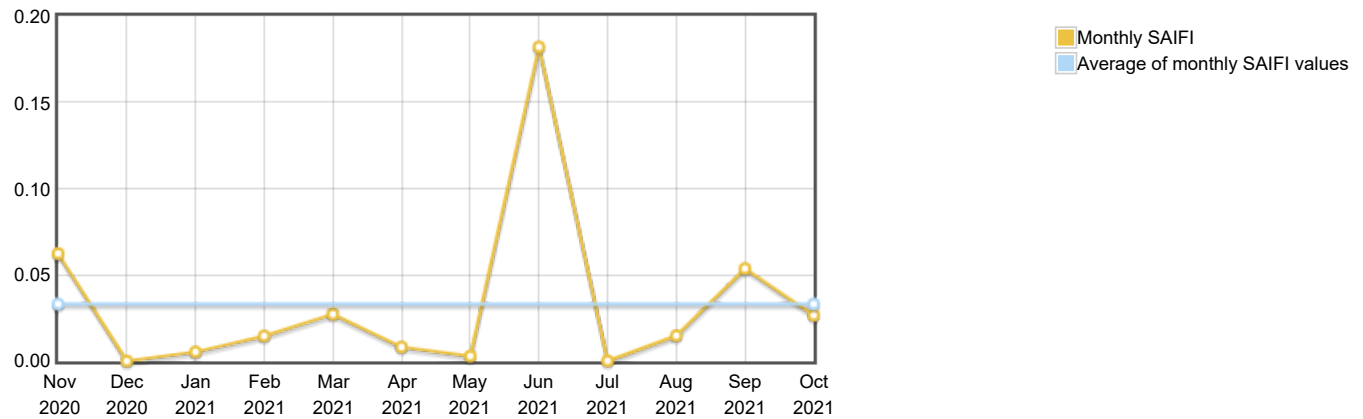
Ranked by Customer Minutes of Duration

Circuit	Substation	Customer Minutes of Duration
FEEDER 329	TIOGA SUBSTATION	19,947

Historical Monthly SAIDI Chart



Historical Monthly SAIFI Chart



Causes Ranked by Count



Cause	Count
Tree	1
Non-Utility Fire	1

Causes Ranked by Duration



Cause	Duration
Tree	19,900
Non-Utility Fire	47

Top 2 Outages for the Month

Address	Customers Interrupted	Duration	Customer Minutes of Interruption	Cause	Start Date
ISLE VIEW RD WO# 182971	199	100	19,900	Tree on line	10/30/2021
3030 HORSE SHOE LK RD WO# 182969	1	47	47	House fire	10/27/2021

Total Customers Affected for the Month: **200**

Average Customers Affected per Outage: **100**

