

Grand Rapids Public Utilities

April 19, 2023 Commission Meeting

Department Head Presentation

Chad Troumbly – Electric Department Manager



**GRAND RAPIDS
PUBLIC UTILITIES**
Service is Our Nature

Reliability Reporting

Using Data to Make Decisions

- Monthly Statistics
- Circuit Rating
- Cause Pie Chart



eReliability



OMS Reliability

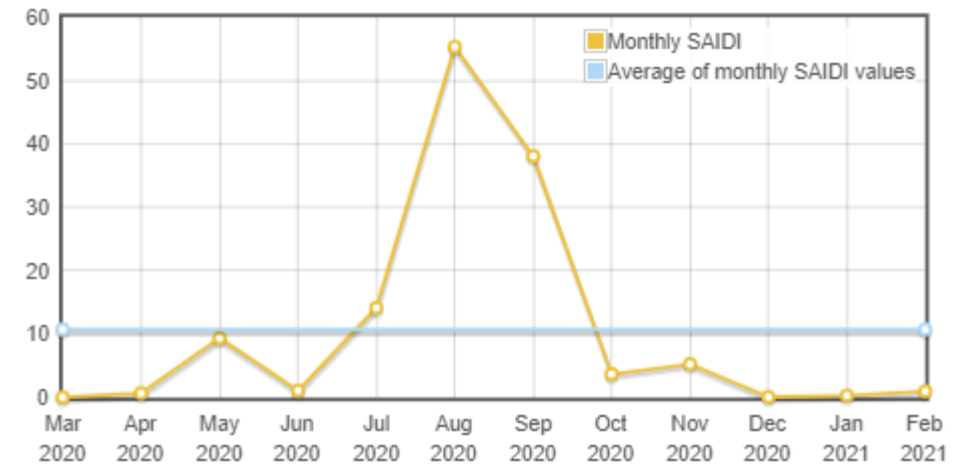
Reliability Reporting

Monthly Statistics Feb 2021

IEEE 1366 Statistics

Metric	Feb 2021	Feb 2020
SAIDI	1.011	3.332
SAIFI	0.0147	0.0475
CAIDI	68.972	70.114
ASAI	99.9973%	99.9917%
Momentary Interruptions	0	0
Sustained Interruptions	3	4

Historical Monthly SAIDI Chart



SAIDI = Number of interruptions

SAIFI = Average number interruptions per customer

CAIDI = Customer Average Interruption Duration

ASAI = The Average Service Availability

Reliability Reporting

Circuit Rating

Top 10 Circuits Ranked by Outage Count		
Circuit Name	Substation Name	Number of Outages
Feeder 320	Main Substation	8
Feeder 326	Main Substation	4
Feeder 327	Main Substation	4
FEEDER 329	TIOGA SUBSTATION	3
CL34	Crystal Lake Substation	2
EG07	East Substation	1
Feeder 326	Main Substation	1
EG06	East Substation	1
EG05	East Substation	1

Top 10 Circuits Ranked by Customer Interruptions		
Circuit Name	Substation Name	Customer Interruptions
Feeder 327	Main Substation	1,007
Feeder 326	Main Substation	534
Feeder 320	Main Substation	190
FEEDER 329	TIOGA SUBSTATION	54
EG05	East Substation	12
EG07	East Substation	2
CL34	Crystal Lake Substation	2
Feeder 326	Main Substation	1
EG06	East Substation	1

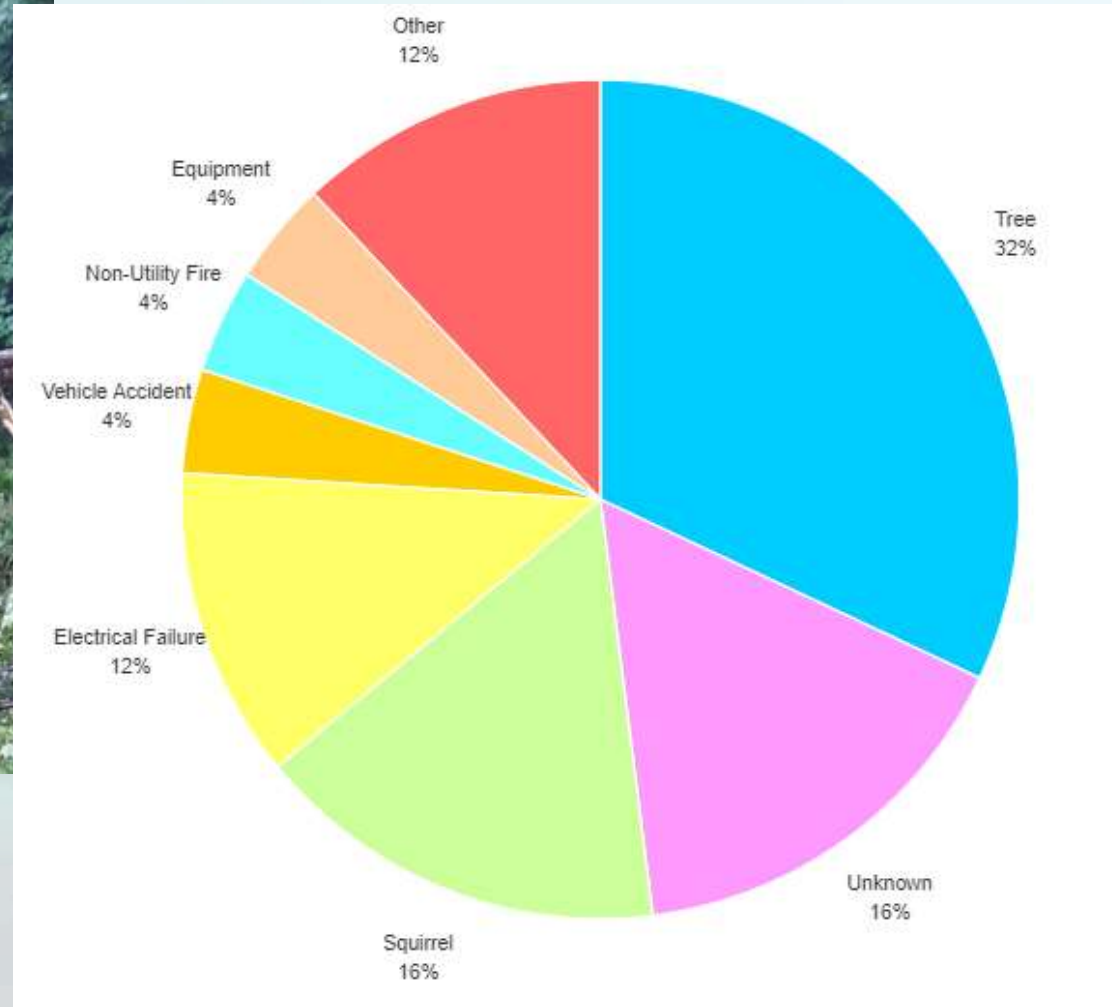
Top 10 Circuits Ranked by Customer Minutes of Duration		
Circuit Name	Substation Name	Customer Minutes of Duration
Feeder 327	Main Substation	150,091
Feeder 326	Main Substation	64,660
Feeder 320	Main Substation	13,452
FEEDER 329	TIOGA SUBSTATION	3,128
EG05	East Substation	300
Feeder 326	Main Substation	100
CL34	Crystal Lake Substation	175
EG06	East Substation	120
EG07	East Substation	70

- Number of Outages
- Number of Customers
- Number of Minutes



Reliability Reporting

Cause Pie Chart



Questions / Comments

April 19, 2023 Commission Meeting

Department Head Presentation

Chad Troumbly – Electric Department Manager



**GRAND RAPIDS
PUBLIC UTILITIES**
Service is Our Nature