

**GRAND RAPIDS  
PUBLIC UTILITIES**

*Service is Our Nature*

500 SE Fourth Street • Grand Rapids, Minnesota 55744

## ELECTRIC DEPARTMENT MONTHLY RELIABILITY REPORT July 2024 Commission Meeting

### Reliability Report Last Month

SAIDI:	0.22	Avg Minutes / Customers Served	CAIDI:	3.11	Avg Minutes / Customer Out	Total Customers Out:	540
SAIFI:	0.07	Cust Outages / Customers Served	CAIFI:	0.028	Avg Outages / Customer Out	Total Reported Hours:	28
Active:	7651	Active Electric Customers	Outages:	15	Total Number of Outages	Total Customer Hours Out:	636
ASAI:	99.99905	Average Percent System Available					

*Figure 1: June Reliability Numbers*

Grand Rapids Public Utilities Service Area was hit by a major storm in June. Crews' safety worked through waves of poor weather that caused several outages. The utility had fallen trees, wildlife caused shorts and other smaller outages. The team has been analyzing causes and has plans to make more improvements to the grid in the future.

Outage Time	Restored Time	Outage Type	Duration (Hours)	Customers Out	Customer Hours
6/4/2024 3:37:10 PM	6/4/2024 3:39:01 PM	Utility Human Error -r-	0.03	2	0.06
6/4/2024 8:04:25 PM	6/5/2024 6:53:09 AM	Unknown -r-	10.81	2	21.62
6/5/2024 9:28:23 AM	6/5/2024 10:49:47 AM	Scheduled -r-	1.36	3	4.07
6/7/2024 4:55:18 AM	6/7/2024 5:03:43 AM	Scheduled -r-	0.14	1	0.14
6/8/2024 10:36:01 AM	6/8/2024 11:32:21 AM	Wildlife -r-	0.94	2	1.88
6/7/2024 10:59:15 AM	6/7/2024 11:01:09 AM	Equipment -r-	0.03	1	0.03
6/11/2024 2:08:44 PM	6/11/2024 2:47:44 PM	Tree -r-	0.65	1	0.65
6/19/2024 8:58:40 AM	6/19/2024 10:22:20 AM	Wildlife -r-	1.39	1	1.39
6/19/2024 10:52:07 PM	6/20/2024 6:48:02 AM	Unknown -r-	7.93	4	31.73
6/23/2024 7:45:22 AM	6/23/2024 7:46:57 AM	Wildlife -r-	0.03	95	2.51
6/24/2024 8:33:16 AM	6/24/2024 8:57:35 AM	Wildlife -r-	0.41	17	6.89
6/24/2024 12:05:22 PM	6/24/2024 12:33:47 PM	Unknown -r-	0.47	130	61.57
6/28/2024 6:34:12 PM	6/28/2024 6:36:35 PM	Power Supply -r-	0.04	3	0.12
6/29/2024 2:38:24 PM	6/29/2024 4:40:58 PM	Tree -r-	2.04	53	108.27
6/30/2024 12:43:57 AM	6/30/2024 2:29:06 AM	Tree -r-	1.75	225	394.31

*Figure 2: Outage Information by Type*

## Reliability Report Mid-Year

SAIDI:	0.73	Avg Minutes / Customers Served	CAIDI:	3.85	Avg Minutes / Customer Out	Total Customers Out:	1,453
SAIFI:	0.19	Cust Outages / Customers Served	CAIFI:	0.032	Avg Outages / Customer Out	Total Reported Hours:	93
Active:	7651	Active Electric Customers	Outages:	47	Total Number of Outages	Total Customer Hours Out:	1,468
ASAI:	99.99781	Average Percent System Available					

Figure 3: 1/1/24 - 6/30/24 Reliability Numbers

Review of total outage calls shows Major Storm (28%), Trees (28%) and Wildlife (20%) as biggest causes. All are related to overhead lines. Continued planning and construction to reduce these outages is underway. The Information Services Group is developing better tools to analyze the most susceptible areas.

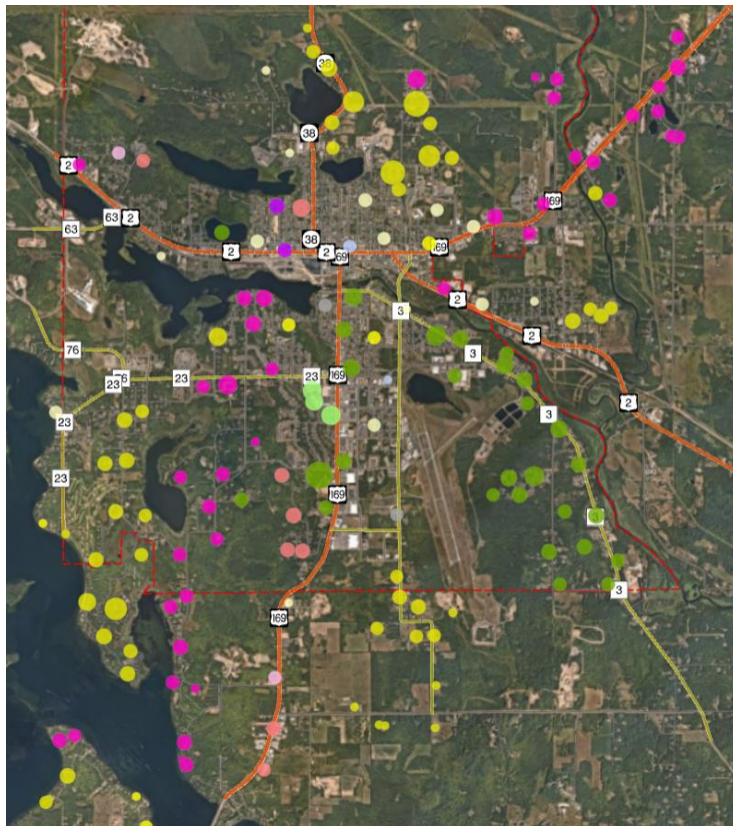


Figure 4: Outage Tool - In development