



List of Outages and Causes (can be put on a separate page) (4)	<ul style="list-style-type: none"> <li>Substation - 624 Customer Out - Blown arrester in the substation caused the substation to open.</li> <li>Feeder - 306 Customers Out - Contractor performing maintenance on the line.</li> <li>Feeder - 624 Customers Out - Major Storm - Tornadoes</li> <li>Line Section - 67 Customers Out - Trees fell through line.</li> <li>Feeder - 624 Customers Out - Wind Storm</li> <li>Feeder - 222 Customers Out - Wind Storm</li> </ul>
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Corrective action to improve performance (can be put on a separate page)	<ul style="list-style-type: none"> <li>We saw that this area was experiencing outages in the first half of the year, so we did some preliminary tree work in the worst-affected areas prior to regularly scheduled tree trimming, which improved the number of outages.</li> <li>The circuit was last trimmed in 2022 and is scheduled again for 2027. Herbicide applications took place in 2023 and 2025.</li> </ul>
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Worst performing circuit(s) by SAIFI excluding MEDs (7), (8), (11)										
	Circuit 1	Circuit 2	Circuit 3	Circuit 4	Circuit 5	Circuit 6	Circuit 7	Circuit 8	Circuit 9	Circuit 10
Circuit Name	107 Circuit									
Circuit Number	107									
Location of Circuit - stp codes (2)	49031, 49112									
Circuit Length (miles)	21.81									
SAIFI excluding MEDs	3.05									
SAIDI excluding MEDs	281.5									
SAIFI all conditions	3.54									
SAIDI all conditions	956									
Number of Customers Served	255									
Substation Name	Mason Substation									
Last Circuit Trim (year) (3)	2021									

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Corrective action to improve performance (can be put on a separate page)	<ul style="list-style-type: none"> <li>We had two fuses that contributed to multiple outages. Due to line patrol and maintenance efforts, these fuses have not been out since May and October of 2025.</li> <li>Tree trimming was last completed in 2021 and is scheduled again for 2026. This circuit was sprayed with a herbicide preventative spray in 2022 and again in 2024.</li> <li>We have planned improvements which include building a tie line to a neighboring substation to enable back feed of the 107 circuit when needed.</li> </ul>
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	CEM10	CEM11	CEM12	CEM13	CEM14	CEM15	CEM16	CEM17	CEM18	CEM19	CEM10
CEMI Reporting for Indices CEM10 through CEM10+ R460.732(p) (5)	46.61	53.39	38.29	23.68	13.83	7.5	3.95	2.13	1.2	0.52	0.42

CEM10	
CEM10 Reporting R460.732(q) (6)	28.58%
CEM10 Reporting R460.732(q) (6)	14.56%
CEM10 Reporting R460.732(q) (6)	2.47%

MOMENTARY INTERRUPTIONS	
Number of Non-Residential Customers Experiencing Momentary Interruptions R460.732(f)	Exempt Until 2029- Case No. 21509

System-wide SAIDI, SAIFI, and CAIDI (9)																
Year	SAIDI				All conditions				SAIFI				Excludes MEDs (11)			
	Annual		5 year average		Annual		5 year average		Annual		5 year average		Annual		5 year average	
	2025	516.712		656.10		1.869	2.28	276.403	286.22	234.49	283.69	1.365	1.64	171.733	174.98	
2024	577.63		690.95		2.08	2.39	277.66	288.67	268.40	295.99	1.53	1.71	174.52	175.79		
2023	561.20		597.78		1.93	2.27	290.13	258.39	286.76	328.13	1.65	1.79	173.62	187.95		
2022	765.63		561.99		2.74	2.33	279.34	234.80	310.18	336.75	1.94	1.87	184.39	189.12		
2021	859.33		348.84		2.80	1.77	307.56	157.96	318.62	364.39	1.71	1.99	170.63	183.88		

Power Quality information (10)	
Power quality information shall contain data on: a) all power quality investigations conducted in the past year for industrial customers who have requested a power quality investigation as a result of an event originating from utility equipment; and b) power quality investigations conducted in the past year into any power quality event that resulted in at least ten residential customers submitting a complaint, claim, or notification to the utility stating that appliances, equipment, or wiring were damaged. (Can be put on a separate page or pages.)	None

MEC serves a predominantly rural service territory characterized by a large geographic footprint and extensive wooded areas. These conditions inherently increase exposure to vegetation-related outages and weather-driven events, which can negatively impact reliability performance. Recognizing these challenges, MEC has implemented a combination of targeted operational practices and sustained capital investments designed to improve system performance and reduce the frequency and duration of sustained interruptions.

MEC approach focuses on addressing the primary drivers of outages within a rural electric system and strengthening the overall resilience of the distribution network.

### **Vegetation Management**

Vegetation management is a foundational component of MEC's reliability strategy and directly addresses one of the leading causes of sustained interruptions within the service territory. MEC has allocated significant and ongoing funding to systematic tree trimming and right-of-way clearing to reduce the likelihood of vegetation contacting energized facilities.

These efforts not only improve reliability by reducing vegetation-related outages, but also enhance public and employee safety by maintaining clear and accessible rights-of-way, particularly during storm response and restoration activities. MEC operates on a five-year cycle to clear all primary distribution rights-of-way across the service area. In 2026, approximately 486 miles of line clearance will be completed, and 948 miles will be sprayed and/or mowed as part of this program.

By increasing the frequency, consistency, and scope of vegetation management activities, MEC is mitigating a primary source of sustained service interruptions and improving overall system performance.

### **Distribution System Construction and Asset Management**

In addition to vegetation management, MEC is executing a multi-year construction work plan focused on modernizing and reinforcing the distribution system.

This plan includes targeted capital investment in the following areas:

- **Line Rebuilds:** Replacement and upgrading of aging distribution facilities to improve system reliability, structural integrity, and capacity. We are also increasing our facilities underground to minimize weather impacts.

- **Pole Replacements:** Systematic replacement of poles that no longer meet current standards to reduce the risk of equipment-related failures. Following MEC's recent largest storm and the ice storms that occurred up north, MEC learned that there is great value in upgrading its pole class (diameter) to withstand greater loads and weather.
- **Pole Inspection and Testing:** Routine pole testing to proactively identify deteriorated poles before failure occurs. MEC maintains a seven-year cycle to test all poles on the system.

These proactive asset management practices are intended to reduce unplanned outages, minimize restoration times, and improve system performance during both normal operating conditions and severe weather events.

### **Ongoing Reliability Commitment**

MEC's combined focus on vegetation management, infrastructure investment, and asset condition monitoring reflects an ongoing commitment to improving reliability and bringing system performance to an acceptable level. By prioritizing the most vulnerable portions of the system and addressing both external and equipment-related risks, MEC continues to work toward reducing outage frequency and duration for its members.

These actions are tailored to the rural nature of the service territory and demonstrate a sustained, proactive approach to improving electric service reliability.

### **Catastrophic Events**

MEC experienced its greatest storm in history, March 30<sup>th</sup> – April 4<sup>th</sup>. This storm came two days after the major ice storm that significantly impacted the northern Michigan cooperatives. This storm resulted in 13,000 customers without power, 140 broken poles, and over 25 line crews working to restore power.

May 15<sup>th</sup> – May 19<sup>th</sup>, MEC's southwestern service territory experienced a dust storm with significant winds. During this same time frame, the service territory experienced a tornado that resulted in numerous downed lines, trees, and 45 broken poles.