

Governor Rick Snyder and the Michigan Agency for Energy request that MISO include the following system conditions in conducting the requested analyses.

Generation

1. Retirement of coal-fired generators in Michigan:¹
 - a. In 2013, one DTE Harbor Beach unit (121 MW) retired.
 - b. In 2016:
 - i. Two DTE Trenton Channel units (7a and 8) (240 MW) retired.
 - ii. Two CE BC Cobb units in Muskegon (312 MW) retired.
 - iii. Two CE JC Karn-Weadock units in Essexville (312 MW) retired.
 - iv. Three CE JR Whiting units in Erie (345 MW) retired.
 - v. One Michigan South Central Power Agency's Endicott unit in Litchfield (55 MW) retired.
 - c. In 2017, three Holland Board of Public Works DeYoung units (3, 4, and 5) (63 MW) retiring.
 - d. In 2018, six Lansing Board of Water and Light Eckert units (335 MW) retiring.
 - e. In 2019, five Wisconsin Electric's Presque Isle units (450 MW) retiring.
 - f. In 2020-2023, DTE River Rouge, St. Clair facility in East China Township units (651 MW) retiring.
 - g. In 2021 or sooner, White Pine Power Plant SSR Unit No. 1 (20 MW) retiring.
 - i. Consideration of transmission and non-transmission alternatives; include transmission system reconfiguration of two radial load pockets in the Northwest Upper Peninsula (pending ATC filing).
2. Palisades Nuclear power station offline after 2022 (PPA Expiration) (NRC operating license expires in 2031).
3. Fermi 2 nuclear power station remains online after 2025 (NRC license renewal is expected).
4. Announced retirement of Quad Cities nuclear power station on June 1, 2018.
5. Announced retirement of Clinton nuclear power station on June 1, 2017.
6. Wolverine 410 MW Alpine natural gas simple cycle generating unit in Elmira Township, MI.
7. New 170 MW (summer peak) natural gas combined cycle generation in the Western Upper Peninsula of Michigan with expected in-service date in December 2020.
8. New 19 MW biomass unit (Project J543) in Houghton County, MI.
9. Impact of generation pseudo-ties out of MISO.

¹ As more information is forthcoming, we may want to model all or some of DTE's St. Clair units as off-line or out.

10. Impact of Reciprocating Internal Combustion Engines (RICE) rules in Upper and Lower Peninsulas

Load

11. Retirement of Empire Mine in 2016.

Transmission

12. Proposed 230 kV underground line from Sault Ste. Marie, Ontario to Sault Ste. Marie, MI. Presidential Permit granted.
13. Project 8089, rebuild 69kV transmission path from Lakota Road to Mass to Winona and uprate to 138kV. Maintain in Appendix B.
14. Plains to National proposed transmission line moved to MTEP Appendix B.
15. Congestion mitigation of Lake Michigan loop flow.
16. Increased transfer capability between the Lower and Upper Peninsulas.
17. Maintenance flexibility for northern Lower Peninsula transmission.
18. Management flexibility of Ludington Pumped Storage asset.
19. Contribution of high voltage, direct-current flow control device and associated substation in eastern Upper Peninsula.
20. Approved MTEP reliability projects in advanced stages of development.

Other Considerations

21. Utilize New Michigan Upper Peninsula (MI-UP) Load Balancing Authority boundary.
22. Updated MTEP Models and Futures Scenarios.
23. Impacts voltage and local reliability (VLR) constraints and Revenue Sufficiency Guarantee (RSG) make-whole payments.