



Michigan Interface Study PROMOD Model Assumptions

December, 2015

- Ventyx Base Data Release: East 9.7
- PJM footprint loads: 2015 Load forecast for 2015
 - <http://pjm.com/~media/documents/reports/2015-load-forecast-report.ashx>
- Transmission Ratings: Verified & coordinated ratings in the study region
- MISO benchmarking changes: See 8/21/15 MISO EPUG meeting for details
- Unit status (new units, deactivations): as scheduled/announced as of January 2015

- **Powerflow:** MISO MTEP15 case adjusted for 2015
- **MISO footprint load forecast:** Historical Real Time Load Data for Jan – Oct 2015, Module E Demand forecast for Nov – Dec 2015
- **Gas Prices:** Historical Henry Hub Gas Price for Jan – Oct 2015, Phase III Natural Gas Forecast developed for MISO by Bentek for Nov – Dec 2015
- **Coal Prices:** Historical Coal Prices for Jan – Oct 2015, Ventyx Default for Nov – Dec 2015
- **Other fuel Prices:** Ventyx Default

- **Powerflow:** Merged PJM Operational analysis case for 2014 summer, and MISO MTEP14 case for 2014
- **Transmission Upgrades:** Michigan City – LaPorte sag limit mitigated per the quick hit study
- **Transmission Outages:** Applied ~200 representative outages based on 2014 operations, focusing on higher voltage and longer duration outages
- **MISO footprint load forecast:** MISO 2015 load forecast for 2015
- **Gas prices:** NYMEX Henry Hub historical/futures prices as of April 2015
- **Other fuel prices:** Ventyx default
- **Import Scenario:** High import scenario was created by applying restrictive bid adders to several large Michigan units
- **Covert Unit Sensitivity:** Covert on PJM dispatch and associated topology changes applied (T-094 interconnection project). Scheduled for 6/1/16 integration, sensitivity ran on 2015 model year.