



Correction to MISO F2/F3 EGEAS Resource Expansion

Planning Advisory Committee

September 22, 2021

Energy imbalance observed in the 2040 Future 3 copper sheet case when testing PROMOD models

- In a copper sheet case, where transmission constraints are ignored, energy imbalance indicates insufficient energy to meet hourly load.
- MISO found the cause was related to the load shape used in the EGEAS resource expansion analysis.
 - EGEAS used a single load shape for every year of the study period rather than the 20 annual load shapes developed for each future even though they were input into EGEAS.
- Tests applying the 20 annual load shapes showed:
 - Energy imbalance in the 2040 Future 3 copper sheet case is resolved.
 - Resource expansion for Future 1 does not change.

Conducting additional expansions on F2 & F3 to align with Futures defined load shapes

- MISO staff will rerun EGEAS for Futures 2 and 3 applying the 20 annual load shapes developed in the Futures process.
- MISO will update the PAC on the revised Futures 2 and 3 resource expansion at the October PAC.
 - Revised resource expansion will also be reflected in an updated MISO Futures Report and the other posted Futures materials sometime after October PAC.
- Future 2 and 3 economic models, utilizing updated resource expansion results, are expected to be completed by mid-November 2021.