Organization of MISO States
Transmission Planning Work Group
Response to June 5, 2023 LRTP Workshop Feedback Request
Submitted on June 26, 2023

Following the June 5, 2023 Long-Range Transmission Planning (LRTP) Workshop, MISO requested feedback on additional, credible dispatch scenarios that are distinctive from the core models – specifically, modifications to scenarios along with reasoning, model, source, and sink.

https://www.misoenergy.org/stakeholder-engagement/stakeholder-feedback/2023/ltrp-tranche-2-reliability-analysis-dispatch-scenarios-20230605/

The OMS Transmission Planning Work Group (OMS TPWG) appreciates MISO's work on the LRTP initiative and appreciates this opportunity to provide feedback. **This feedback is from an OMS work group and does not represent a position of the OMS Board of Directors.**

The energy transition detailed in MISO's Future 2A will require a wider variety of cases for reliability planning due to the prevalence of intermittent resources and storage. The OMS TPWG believes that MISO's core models appropriately capture several potential periods of heightened risk to system reliability. Given the crucial role that storage will play in maintaining system reliability, the OMS TPWG recommends that MISO examine storage under two additional dispatch scenarios during summer peak.

Load Level	Scenario for Coincident Wind and Solar	Storage Sensitivity for Consideration (% of dispatch)
Summer Peak	Highest Output	-100% (full charging)
	Lowest Output	50%

The first proposed scenario, full charging at highest renewable output, would inform the reliability risks on the system during the probable occurrence of storage charging during the gross peak load (and highest solar output) for dispatch during the net peak. MISO's current summer peak case fails to consider the fact that storage is likely to be a load during the trough or belly of a future "duck curve."

The second proposed scenario stresses the system in new ways by evaluating low coincident renewable output during the summer peak with storage discharging at 50% to make up for the lack of renewable output. This scenario assumes some storage is withheld for the net peak later in the day.

The OMS TPWG encourages MISO to study the scenarios under which the transmission system will be the most stressed. If MISO believes that these two proposed cases do not stress the system to a higher degree than MISO's proposed cases, the OMS TPWG requests that MISO explain why the two proposed cases do not stress the system to a higher degree than MISO's proposed cases and conduct a sensitivity analyses using these two cases.