

PJM-MISO IPSAC

November 22, 2024

- Coordinated System Plan (CSP) Study Status Update
- PJM Regional Process and Criteria
 - PJM 2024/25 Market Efficiency Cycle
- MISO Regional Process Update
- Annual Issues Review Notice



Coordinated System Plan (CSP) Study Status Update

- CSP 2022
 - December 15, 2022 IPSAC Meeting
 - TMEP solution selected was the Powerton-Towerline 138kV Wavetrapp
 - RTO Boards approvals (PJM - February 2023, MISO - March 2023)
 - PJM B3760 / MISO MTEP 24573
 - Construction Status – 100% Complete
 - Required In-service Date – June 1, 2025
 - Actual In-service Date – September 9, 2024

- After discussions with stakeholders at the March 25, 2024 Interregional Planning Stakeholder Advisory Committee (IPSAC), the MISO-PJM Joint RTO Planning Committee decided not to initiate a Coordinated System Plan (CSP) study in 2024
- The CSP determination was based on the following rationale:
 - Interregional Market Efficiency Project (IMEP):
 - No interregional constraints were identified in the respective regional processes
 - Targeted Market Efficiency Project (TMEP):
 - RTOs believed it prudent to assess the impact of planned upgrades and congestion persistence with an additional year of market data
 - Interregional Reliability Projects; Interregional Public Policy Projects; Ad-Hoc studies:
 - No drivers were identified to warrant a study

PJM Regional Process Status Update

- PJM opened the 2023 RTEP W1 on July 24, 2023 and closed on September 22, 2023
 - Window focused on resolving reliability constraints outside the area currently covered by the 2022 RTEP W3 scope.
- Total 266 flowgates (130 competitive Vs. 136 non-Competitive)
- 20 total proposals submitted from 9 different entities (7 Incumbents & 2 Non Incumbents)
 - 7 Greenfields
 - 13 Upgrades
- Selected solutions were presented for 1st Read and 2nd Read at the [October 31, 2023 TEAC](#) , [December 5, 2023 TEAC](#) , [January 5, 2024 TEAC](#) , [February 6, 2024 TEAC](#) , [March 5, 2024 TEAC](#) meetings.
- February and August 2024 PJM board approval.

- PJM opened the 2023 RTEP W2 on March 6, 2024 and closed on April 5, 2023
 - Window focused on resolving reliability constraints
 - AEP forecasted load growth in the Columbus, Ohio area.
 - Thermal issues in PSEG around Hinchmans area
 - 500kV line #588 Fentress –Yadkin End of Life (EOL) in Dominion
- 21 total proposals submitted from 6 different entities
 - 6 Greenfields
 - 15 Upgrades
- Selected solutions were presented for 1st Read and 2nd Read at the [April 30, 2024 TEAC](#) , [June 4, 2024 TEAC](#) , and [July 9, 2024 TEAC](#) , meetings.
- August 2024 PJM board approval.

- PJM opened the 2024 RTEP W1 on July 15, 2024 and closed on September 17, 2024
 - Window focused on resolving reliability constraints
 - Heavy transmission flows west to east driven by load increase in Dominion/East.
 - Regional reinforcement needs in AEP, ATSI, BGE, ComEd, Dominion, PECO, and PPL
 - Cumulative impacts due to shift in generation flow as a result of overall system load increase and +2GW generation deactivation
- 94 total proposals submitted from 16 different entities
 - 40 Greenfields
 - 48 Upgrades
 - 6 Joint Proposals (Parent Projects – representing combinations of select projects from above)
- Evaluation process is underway
 - Solutions were presented for 1st Read 2nd Read, and Short List at the [October 8, 2024 TEAC](#), [November 6, 2024 TEAC](#), and final shortlist of regional proposals at the November 19, 2024 meetings.
- Targeting Q1 2025 Board approval – December and January for TEAC first and second reads.

PJM 2024/25 Market Efficiency Cycle

- Simulations performed using PROMOD IV v11.5, engine “I”.
- Study Years for the 2024/25 ME Cycle
 - 2025, 2029, 2032, 2035, and 2039.
- PROMOD Database posted on [ME secure page](#) (2029, 2032 modeled years)
 - Fall 2023 Data Release from Hitachi Energy
 - Fuel/Emissions price forecasts from Hitachi Energy, May 2024 update.
 - Load forecast from PJM 2024 Load Forecast Report.
 - Topology based on the final 2028 Summer Peak powerflow (RTEP 2023 18-month Reliability cycle)
 - Includes all RTEP baseline projects approved by the PJM Board up to including reliability Window 1 2023.

- 2024 ME Input Assumptions workbook posted on [ME public page](#).
- Generation Expansion based on queue status as of May 14, 2024.
 - Includes NJ SAA 1.0 (See tab **NJ SAA 1.0** in **2024 ME Input Assumptions** workbook).
 - Includes additional capacity, FSA level, needed in 2032 to meet the assumed 17.8% Installed Reserve Margin (See tab **FSA Level Added Through 2032** in **2024 ME Input Assumptions** workbook).
 - Updated 2032 Generation Expansion to be consistent with the queue units identified as “Fast Lane”.

- [Market Efficiency Training](#) scheduled for November 19, 2024.
- 2024/25 ME Base Case Status.
 - Upgraded PROMOD IV version to 11.5.
 - Updated 2029 and 2032 modeled years posted (XML files compatible with PROMOD 11.5).
 - Updated winter bus load model to match Winter Peak RTEP cases.
 - Updated MISO generation model.
- Other files posted.
 - 2024/25 ME Window Benefits Cost Evaluation Tool.
 - Updated PROMOD procedure for executing scenarios.


- 2024/25 ME Base Case Next Steps.
 - Add modeled years 2035 and 2039.
 - Update PJM generation expansion for announced deactivation and queue unit status changes.
 - When available, update the ME Base Case topology with selected 2024W1 solutions.
 - PV Analysis to determine the limits for the reactive interfaces.
- 2024/25 Long-Term Market Efficiency Window anticipated to open during Q1 2025.
 - Once the congestion drivers are finalized.
 - The final Market Efficiency Base Case to be posted before the start of the window.

MISO Regional Process Status Update

- The 2024 MISO Transmission Expansion Plan (MTEP24) will go before MISO Board of Directors in December 2024 for approval
 - The draft [MTEP24 Report](#) is posted to the MISO public website
- Projects targeting MTEP 2025 are under evaluation and will be discussed at the respective [MISO sub-regional planning meetings](#) beginning in Q1 2025
 - [MTEP25 preliminary project list](#) is posted to the MISO website
 - MTEP25 powerflow models will be available in Q1 2025
- The [Final MISO Long Range Transmission Planning \(LRTP\) Tranche 2.1 Portfolio](#) during the final LRTP workshops on 9/24 and 9/25 and was posted as part of the draft MTEP 24 Report pending MISO Board approval in December.

Notice of Annual Issues Review

- In the 4th quarter, RTOs exchange planning information (to be completed in December 2024):
 - Regional issues and newly approved projects near the seam
 - New regional issues
 - M2M historical congestion
- RTOs to jointly review above in January/February 2025
- Receive Third Party issues in first quarter, but no less than 30 days before Issues Review IPSAC
- Issues Review IPSAC
 - Held in the first quarter of each year
 - Must provide 60 calendar day notice of scheduled date
 - Stakeholder feedback due 30 days prior to IPSAC
- Within 45 calendar days after the Issues Review IPSAC the JRPC shall determine the need for a Coordinated System Plan study
- JRPC notifies the IPSAC of its decision within 5 business days



Annual Issues Review (including stakeholder feedback) provides basis for JRPC to determine Coordinated System Plan (CSP) study needs

CSP studies could include:

- Interregional Market Efficiency Project (IMEP)
- Targeted Market Efficiency Project (TMEP)
- Interregional Reliability Project (IRP)
- Public Policy
- Ad Hoc studies

- The 2025 Annual Issues Review IPSAC meeting is scheduled for March 7, 2025
- MISO and PJM will review and solicit stakeholder feedback at the meeting
 - Regional issues & solutions
 - 3rd party issues
- Issues and plans will be/have been discussed at regional meetings
 - PJM issues presented at [TEAC meetings](#)
 - MISO issues presented at [Subregional Planning Meetings](#) (SPMs)

- 3rd parties may submit input to the Annual Issues Review process
- MISO and PJM will send an email request to their respective planning distribution lists, or you may contact the email addresses below
- Feedback is required by COB February 5, 2025 (30 days prior to IPSAC meeting) to both MISO and PJM
 - PJM: inter.regional.planning.team@pjm.com
 - MISO: interregionalplanning@misoenergy.org

- Stakeholder input due: February 5, 2025
- Annual Issues Review IPSAC: March 7, 2025
- JRPC determines whether to perform a CSP study in 2025: April 21, 2025 (at the latest)
 - JRPC will inform IPSAC within 5 days of the decision

Open Discussion



PJM:

inter.regional.planning.team@pjm.com

MISO:

interregionalplanning@misoenergy.org