

2025 ITP Market Economic Model (MEM) Benchmarking - Pass 1

- **Action Required**

SPP requests stakeholders review data of the 2025 ITP MEM Benchmarking milestone. The data provided is based on the 2025 ITP MEM – Pass 1 Update, posted on June 3, 2024 with the following additional updates:

- 10.3s Late Data Submissions approved during June 26 ESWG/TWG joint meeting for inclusion into the 2025 ITP Assessment
 - Evergy
 - Basin Electric Power Cooperative (BEPC)
 - American Electric Power (AEP)
- MISO Regional Directional Transfer
- Wind and solar annual energy correction; multiplied annual energies by 100. This corrects for a previous miscalculation caused by using capacity factors in decimal rather than whole numbers (i.e. must use 50 rather than 0.5 to express 50%).
- Removal from the PROMOD database two legacy demand groups which are no longer used: “Lubbock Power and Light” and “NIMECA Municipal Data from CBPC”.

Stakeholders should review and provide feedback on data items included in the 2025 ITP MEM Benchmarking Pass 1 PowerPoint. Specifically, assess the model behavior compared to the provided operational, Energy Information Administration (EIA), and 2024 ITP Year 2 MEM data. SPP provided the 2025 ITP MEM Benchmarking results based on a constrained model (Book of Flowgates). The Book of Flowgates include SPP’s 2023 top 10 flowgates (temporary and permanent) and the persistent operational needs according to 2025 ITP study scope, Section 4.

SPP reviewed the 2025 ITP MEM Benchmarking results and noticed the following items that will need further review:

- High Locational Marginal Price (LMP)
- Magnitude of 2024 Interchange is much lower than the magnitude of 2025 Interchange
- High amount of Emergency Energy

SPP is not requesting changes to the 2025 ITP Year 2 MEM input data. Any submitted changes will be considered under Section 10.3 of the ITP Manual.

- **Entities Required to Provide Feedback:**

All interested stakeholders; primarily, ESWG members

- **Due Date and Method of Submittal**

Please provide feedback **by Tuesday, July 16, 2024**, via the [SPP Request Management System \(RMS\)](#), using the “Submit Information” **Request Template**, “Integrated Transmission Planning (ITP)” **Subtype 1**, and “Data Submission” **Subtype 2**.

- **Material Disclaimer**

CONTAINS CONFIDENTIAL AND PROTECTED MATERIAL NOT AVAILABLE TO COMPETITIVE DUTY PERSONNEL – DO NOT RELEASE

- **File location on GlobalScape**

- In order to obtain access to SPP’s current PROMOD version, please email pb_support.pges@hitachi-powergrids.com and request PROMOD version 11.5.0 and PROMOD V ‘engine g’.

For users who have signed an NCD NDA, HITACHI NDA, MISO-SPP Joint NDA, and license Hitachi nodal simulation ready software:

These files can be found on [GlobalScape](#) under: *ITP → ITP → NCD (CEII, RSD) → License_NDA_JointSPPMISO → 2025 ITP → MEM Benchmarking Pass 1.zip*

File Name	Description
2025_ITP_MEM_Benchmarking_Pass_1.pptx	MEM Pass 1 Benchmarking Data
2025_ITP_MEM_Benchmarking_Detail_Document_Pass_1.docx	Posted Material Overview
2025_ITP_MEM_Benchmarking_Scenario_Pass_1	Published PROMOD scenario
2025_ITP_MEM_Benchmarking_Run_Files_Pass_1	PROMOD Run Files
2025_ITP_MEM_Benchmarking_Outputs_Pass_1	Output Reports
2025_ITP_MEM_Benchmarking_Database_Extracted_Pass_1	PROMOD Scenario in Excel

For users who have signed a NCD NDA, HITACHI NDA, and MISO-SPP Joint NDA:

These files can be found on [GlobalScape](#) under: *ITP → ITP → NCD (CEII, RSD) → HITACHI_NDA_JointSPPMISO → 2025 ITP → MEM Benchmarking Pass 1.zip*

File/Folder Name	Description
2025_ITP_MEM_Benchmarking_Pass_1.pptx	MEM Pass 1 Benchmarking Data
2025_ITP_MEM_Benchmarking_Detail_Document_Pass_1.docx	Posted Material Overview
2025_ITP_MEM_Benchmarking_Outputs_Pass_1	Output Reports
2025_ITP_MEM_Benchmarking_Database_Extracted_Pass_1	PROMOD Scenario in Excel

For users who have signed NCD NDA:

These files can be found on [GlobalScape](#) under: *ITP → ITP → NCD (CEII, RSD) → NDA → 2025 ITP → MEM Benchmarking Pass 1.zip*

File/Folder Name	Description
2025_ITP_MEM_Benchmarking_Pass_1.pptx	MEM Pass 1 Benchmarking Data

File/Folder Name	Description
2025_ITP_MEM_Benchmarking_Input_Powerflow_Pass_1	Input Powerflow for MEM

For users who have signed a CD NDA:

These files can be found on [GlobalScape](#) under: *ITP → ITP → CD (CEII) → NDA → 2025 ITP → MEM Benchmarking Pass 1.zip*

File Name	Description
2025_ITP MEM_Benchmarking_Pass_1.pptx	MEM Pass 1 Benchmarking Data

- **Helpful Links and Access**

- If you do not already have access to these documents in [GlobalScape](#), see the instructions for [confidentiality agreements](#) and submit the appropriate form via [RMS](#) using the "Initiate a System Access Action" **Request Template**, "Access" **Request Type**, and "Globalscape File Sharing" **SubType 1** "Add User" **SubType 2** "SPPDocushare / Engineering / TCR Models" **SubType 3**. [GlobalScape](#) frequently asked questions can be found in [Knowledgebase Article 686](#). Other helpful links can be found on [SPP.org](#).