2024 ITP Market Economic Model (MEM) - ***Pass 2***

- **Action Required**
  SPP staff is requesting feedback on the ***application*** of the following economic model data in the posted scenario(s):

  - 2023 ITP Draft Portfolio (pending)
  - 2024 ITP Internal and External Load Data Reviews
  - 2024 ITP Internal and External Generator Data Reviews
  - 2024 ITP Scope Futures Assumptions
  - 2024 ITP Internal and External Resource and Siting Plans
  - 2024 ITP Generator Outlet Facilities (GOFs)

  The posted runs are constrained with the SPP Book of Flowgates constraints. Please note that the Book of Flowgates include SPP's 2022 top 10 flowgates (temporary and permanent) and the persistent operational needs according to 2024 ITP study scope, Section 4.

  SPP is ***not*** requesting changes to the above economic model input data. Any changes submitted regarding the data above will be considered under Section 10.3 of the ITP Manual.

  SPP plans to solicit a vote to approve the 2024 ITP MEM the week of October 16.

- **Entities Required to Provide Feedback**
  All interested stakeholders; primarily, ESWG members

- **Due Date and Method of Submittal**
  Please provide feedback on the incorporation of the data items listed above into the MEM **by Thursday, September 28, 2023** via the SPP Request Management System (RMS), using the "Submit Information" **Request Template**, "Integrated Transmission Planning (ITP)" **Subtype 1, and "**Data Submission**" Subtype 2**.

- **Notes**
  - Modeling Updates
    - Added model corrections for 2023 ITP MEM Rebaseline
    - Created Years 5 and 10 models
    - Included Basin Electric Power Cooperative 10.3 request
      - Added one (1) Delivery Point and update six (6) existing Delivery Points load forecast
        - SPP evaluated and approved as no impact changes
        - Will present at next TWG and ESWG meetings as informational only
    - Incorporated data items listed above under Action Required section
    - Modified Gray County Wind Energy: WT1 71 213 maximum capacity
    - Removed Goodwell Wind to Red Devil 115 kV line
    - Revised area name mappings for branches
    - Updated impedance for Crossroads – Hobbs – Road Runner 345 kV double circuit project
  - Reporting Updates

  - Added SPP Market's 2022 Locational Margin Price (LMP) data to regional LMP slide of the MEM benchmarking presentations for comparison
- Additional Items
  - SPP is still investigating the SPSNMTies interface ratings and the PROMOD V engine energy storage enhancements and hybrid functions. We will update ESWG on our findings at a later date.

- **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 VGA engine. SPP ran simulations using PROMOD IV 11.5 software.

  For users who have signed an NCD NDA, HITACHI NDA, MISO-SPP Joint NDA, and license Hitachi PROMOD nodal simulation ready software:
  These files can be found on GlobalScape under: *ITP → ITP → NCD (CEII, RSD) → License_NDA_JointSPPMISO → 2024 ITP → 2024_ITP_MEM_Pass_2.zip*

File Name	Description
2024_ITP_MEM_Detail_Document_Pass_2.docx	Posted Material Overview
2024_ITP_MEM_Scenarios_Pass_2	Published PROMOD Scenarios
2024_ITP_MEM_Run_Files_Pass_2	PROMOD Run Files
2024_ITP_MEM_Database_Extracted_Pass_2	PROMOD Scenarios in Excel
2024_ITP_MEM_Outputs_Pass_2	Output Reports

  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 → 2024 ITP → 2024_ITP_MEM_Pass_2.zip*

File Name	Description
2024_ITP_MEM_Detail_Document_Pass_2.docx	Posted Material Overview
2024_ITP_MEM_Database_Extracted_Pass_2	PROMOD Scenarios in Excel
2024_ITP_MEM_Outputs_Pass_2	Output Reports

  For users who have signed NCD NDA:
  These files can be found on GlobalScape under: *ITP → ITP → NCD (CEII, RSD) → NDA → 2024 ITP → 2024_ITP_MEM_Input_Powerflows_Pass_2.zip*

File Name	Description
2024_ITP_MEM_Input_Powerflows_Pass_2	Input Powerflows for MEM

- **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.