

2023 ITP Market Economic Model (MEM) - Pass 2 Update

- **Action Required**

SPP staff posted the updated Pass 2 MEMs for stakeholder review and for the purpose of approval. SPP staff recommends ESG approval of these models for use in the 2023 ITP Constraint Assessment.

We constrained the posted runs with the SPP Book of Flowgates (BOF) constraints and the Ancillary Co-Optimization Flag checked and unchecked. The Ancillary Co-Optimization Flag does result in SPP meeting operating reserve requirements. Please note that enabling the Ancillary Co-Optimization Flag increases the run time (~3 hours) for the ITP. SPP staff suggests enabling the Ancillary Co-Optimization Flag for the slight increase in model accuracy.

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

- **Entities Required to Provide Feedback**

All interested stakeholders; primarily, ESG members

- **Due Date and Method of Submittal**

SPP will request ESG approval of these models for use in the 2023 ITP Constraint Assessment shortly after this posting. Please provide any necessary feedback **as soon as possible** but no later than **Monday, October 24, 2022** via the [SPP Request Management System \(RMS\)](#), using the “Submit Information” **Request Template**, “Integrated Transmission Planning (ITP)” **Subtype 1**, and “Data Submission” **Subtype 2**.

- **Changes from Last Pass**

- Modeling Updates
 - Added approved projects in UMZ
 - Changed operational status for Boundary Dam PST (in-service)
 - Incorporated Pumped Storage parameter
 - Refined SPP BOF ratings
 - Updated Pumping Storage Option

SPP plans to purchase the latest Wood Mackenzie Henry Hub fuel forecast that is due to release this month. We will incorporate the average fuel forecasts data into the MEMs as soon as possible.

- **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 (Spp104389 engine).

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

These files can be found on [GlobalScape](#) under: *ITP → ITP → NCD (CEII, RSD) → License_NDA_JointSPPMISO → 2023 ITP → 2023_ITP_MEM_Pass_2_Update.zip*

File Name	Description
2023_ITP_MEM_Detail_Document_Pass_2_Update.docx	Posted Material Overview
2023_ITP_MEM_Scenario_Pass_2_Update	Published PROMOD Scenarios
2023_ITP_MEM_Run_Files_Pass_2_Update	PROMOD Run Files
2023_ITP_MEM_Database_Extracted_Pass_2_Update	PROMOD Scenario in Excel
2023_ITP_MEM_Outputs_Pass_2_Update	Output reports

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

These files can be found on [GlobalScape](#) under: *ITP → ITP → NCD (CEII, RSD) → ABBNDA_NDA_JointSPPMISO → 2023 ITP → 2023_ITP_MEM_Pass_2_Update.zip*

File Name	Description
2023_ITP_MEM_Detail_Document_Pass_2_Update.docx	Posted Material Overview
2023_ITP_MEM_Database_Extracted_Pass_2_Update	PROMOD Scenarios in Excel
2023_ITP_MEM_Outputs_Pass_2_Update	Output reports

For users who have signed NCD NDA:

These files can be found on [GlobalScape](#) under: *ITP → ITP → NCD (CEII, RSD) → NDA → 2023 ITP → 2023_ITP_MEM_Input_Powerflow_Pass_2_Update.zip*

File Name	Description
2023_ITP_MEM_Input_Powerflow_Pass_2_Update	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](#).