

2023 ITP Market Economic Models (MEM) For Approval

- **Action Required**

SPP staff requests stakeholders' approval for the following MEM posted to GlobalScape:

- Future 1 Year 2, Year 5, and Year 10
- Future 2 Year 5 and Year 10

This information includes supporting model data and documentation.

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

WAPA submitted a 10.3 waiver request December 14, 2022 to derate some of their line ratings in the event files only. SPP determined these changes would not affect the current 2023 ITP schedule. In addition, SPP will post the updated event (E023) files for stakeholders' review and use them for the Economic Assessment.

Please note that SPP posted the MEM results using the "E022" event files.

The City of Fremont informed SPP December 15, 2022 that the current retirement dates in the 2023 ITP generation review are inaccurate. Based on this new information, the City of Fremont is requesting the ESWG to unretire their generation in Future 1 and approve the waiver of the age-based requirements in Future 2 in accordance to the 2023 ITP study scope, Section 2. SPP supports this change after discussing with the City of Fremont and observing the effect of the retired generation on the MEM. Staff will solicit a motion from the ESWG on December 16, 2022 to approve the waiver and the updated MEM.

- **Applicable Entities**

All interested stakeholders; primarily, ESWG members

- **Due Date and Method of Submittal**

SPP will solicit a motion Friday, December 16, 2022 for approval of the waiver request and final MEM.

- **Changes from Last Posting**

- Modeling Updates
 - Added Anadarko – Gracemont NTC re-evaluation project
 - Removed approved Anadarko – Gracemont double circuit rebuild project
 - Revert back to current-day topology
 - Adjusted pumping dispatch option setting from "M" to "L"
 - Reduced run time for simulations
 - Changed retirement dates for City of Fremont generation for both futures in years 5 and 10
 - Corrected SPP's peak load data
 - Incorporated latest Henry Hub fuel forecasts
 - Hitachi (released spring 2022)
 - Wood Mackenzie (released fall 2022)
 - Modified variable O&M, fixed O&M, and curtailment data

- Removed loads around Blackwater and Eddy DC Ties for both futures in year 10
- Revised UMZ's monthly energy factors
- Updated event file (SPP-recommended final event file)
 - WAPA's derates

- **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, 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 → 2023 ITP → 2023_ITP_MEM_Final_Pass.zip*

| File/Folder Name | Description |
|--|----------------------------|
| 2023_ITP_MEM_Detail_Document_Final_Pass.docx | Posted Material Overview |
| 2023_ITP_MEM_Scenario_Final_Pass | Published PROMOD Scenarios |
| 2023_ITP_MEM_Run_Files_Final_Pass | PROMOD Run Files |
| 2023_ITP_MEM_Database_Extracted_Final_Pass | PROMOD Scenarios in Excel |
| 2023_ITP_MEM_Outputs_Final_Pass | 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 → → NCD (CEII, RSD) → HITACHI_NDA_JointSPPMISO → 2023 ITP → 2023_ITP_MEM_Final_Pass.zip*

| File/Folder Name | Description |
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| 2023_ITP_MEM_Detail_Document_Final_Pass.docx | Posted Material Overview |
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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_Final_Pass.zip*

| File/Folder Name | Description |
|---|--------------------------|
| 2023_ITP_MEM_Input_Powerflow_Final_Pass | 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.