

20-Year Assessment Market Economic Models (MEM) – Update

- **No Action Required**

SPP staff posted the updated 20-Year Assessment MEMs for the 20-Year Assessment Constraint Assessment. This information includes supporting modeling data and documentation.

The posted models are constrained with the SPP Book of Flowgates (BOF) constraints.

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

- **Applicable Entities**

All interested stakeholders; primarily, ESWG members

- **Method of Submittal**

None

- **Changes from Last Pass**

- Added the following items:
 - MISO's IRP generators from MTEP21
 - Hurdle rates PROMOD case for Future 4 scenario
 - MISO RDT implementation
 - Sunflower's load hub for APC calculations
 - Boundary Dam PST projects
 - Minnkota Power Coop and Michigan Upper Peninsula hourly load shapes, peak load, and annual energy
 - Ancillary Co-Optimization (enabled)
 - Meets operating reserves
 - AEP's updated line ratings
 - 2022 ITP portfolio (approved NTCs)
- Updated the following items:
 - Annual Energy for all scenarios
 - SPP BOF event file
 - SPP-SaskPower interface definition
 - SPSNMTies interface ratings
 - MH_SPC_W interface ratings
 - Reverted back to Kerr – Maid 161 kV circuit 2 original line ratings
 - Winter ratings for a tie line between SPP and Manitoba Hydro
 - MISO's operating and spinning reserves
 - Maintenance outages
 - Hybrid generators
- Reduced emergency generations for the ITP study region by the changes listed above

- Removed KEPCMKEC generator hub
 - Falls under Sunflower’s pricing zone
- Set Pump Dispatch Option to “M”

Notes:

- SPP is currently working with SPS to determine an update to the SPSNMTIES interface rating in light of the recently approved Crossroads-Hobbs-Roadrunner project and will incorporate any rating changes during the Constraint Assessment.
- SPP is still investigating software limitations associated with hybrid settings and will bring the information back to the ESWG at an upcoming meeting.

- **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 to receive the delivery number “Spp104401”.

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

These files can be found on GlobalScape under: *ITP → ITP → NCD (CEII, RSD) → License_NDA_JointSPPMISO → 2022 ITP → 2022 20-Year Assessment → 20YA_MEM_Update.zip*

| File/Folder Name | Description |
|--------------------------------------|-----------------------------------|
| 20YA_MEM_Detail_Document_Update.docx | Posted Material Overview |
| 20YA_MEM_Scenarios_Update | Published PROMOD scenarios |
| 20YA_MEM_Run_Files_Update | PROMOD run files |
| 20YA_MEM_Outputs_Update | Output reports |
| 20YA_MEM_Database_Extracted_Update | Excel version of PROMOD scenarios |

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 → 2022 ITP → 2022 20-Year Assessment → 20YA_MEM_Update.zip*

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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* → *2022 20-Year Assessment* → *20YA_MEM_Input_Powerflow_Update.zip*

| File/Folder Name | Description |
|---------------------------------|-------------------------|
| 20YA_MEM_Input_Powerflow_Update | Input powerflow 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](#).