

20-Year Assessment Market Economic Models (MEM) for Approval

- **Action Required**

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

- Future 1 Year 20
- Future 2 Year 20
- Future 3 Year 20
- Future 4 Year 20

This information includes supporting model data and documentation.

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**

SPP will solicit a motion Wednesday, February 1, 2023 for approval of the final MEM.

- **Changes from Last Pass**

- Modeling Updates
 - Added pumped storage reservoir limits
 - Altered topology around Otter Creek (WERE)
 - Changed Pump Dispatch Option from "M" to "L"
 - Reduced run time
 - Included Anadarko – Gracemont 138 kV NTC re-evaluation project
 - Removed approved Anadarko – Gracemont double circuit rebuild project
 - Revert back to current-day topology
 - 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 Gaines Generator Outage Facilities
 - Reverted back to original topology for Andrews 230 kV
 - Revised SPSNMTies definition in event file
 - Updated load mappings and powerflow updates
 - Adjusted load hubs
 - Included 2043 Peak Load and Annual Energy data
 - Copied and pasted 2042 peak load and annual energy
 - Required to simulate the last week of 2042

Notes:

- 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 PROMOD version, please email pb_support.pges@hitachi-powergrids.com and request PROMOD version 11.4 (Spp104401 engine).

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_Final_Pass.zip*

File/Folder Name	Description
20YA_MEM_Detail_Document_Final_Pass.docx	Posted Material Overview
20YA_MEM_Scenarios_Final_Pass	Published PROMOD scenarios
20YA_MEM_Run_Files_Final_Pass	PROMOD run files
20YA_MEM_Outputs_Final_Pass	Output reports
20YA_MEM_Database_Extracted_Final_Pass	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_Final_Pass.zip*

File/Folder Name	Description
20YA_MEM_Detail_Document_Final_Pass.docx	Posted Material Overview
20YA_MEM_Outputs_Final_Pass	Output reports
20YA_MEM_Database_Extracted_Final_Pass	Excel version of PROMOD scenarios

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_Final_Pass.zip*

File/Folder Name	Description
20YA_MEM_Input_Powerflow_Final_Pass	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](#).