

## 2017 ITP 10-Year Assessment (ITP10) Economic Model Pass 4

Preliminary 2017 ITP10 economic models Pass 4 have been posted to Trueshare, in an effort to validate the input into the Constraint Assessment and Benchmarking milestones. The models will run in PROMOD, but SPP staff would ask stakeholders to continue focusing efforts on reviewing the model *inputs*. Staff is looking for feedback in regards to the *application* of stakeholder approved items, the external resource plans, and generator outlet facilities (GOF). Details regarding the current state of the PROMOD models are listed below. The economic models posted are representative of all three (3) Futures in 2020 and 2025. Preliminary event (EVE) files based on the NERC Book of Flowgates are being posted along with the models. SPP Staff is utilizing PROMOD IV 11.1.7 for the 2017 ITP10.

**Staff will be seeking an email motion and second on February 3<sup>rd</sup> with voting cut-off on February 5<sup>th</sup> for approval of the use of these models in the Constraint Assessment and for additional Benchmarking.** Final economic models will be posted and approved after the Constraint Assessment and Benchmarking milestones.

### **Special Notice Regarding New Requirement for Model Access**

Unlike previous postings, to access these models, stakeholders will be required to complete and sign a joint [Critical Energy Infrastructure Information \(CEII\) form](#) previously developed between SPP and MISO. This is required as the current models include MISO CEII data in addition to SPP's data. The MISO data was used to model regions external to SPP. For stakeholders that have already completed the joint CEII form due to participation in past studies, they should already have access. To obtain access to the applicable TrueShare folder identified below, please sign and return the form via the [SPP Request Management System \(RMS\)](#) using the "Request TrueShare Access" Quick Pick (**Note:** This required form for this request is in addition to the default confidentiality agreement linked in RMS.). This required form is located on the [SPP website](#)<sup>1</sup> and does not supplant the requirement to also complete the SPP confidentiality agreement if you have not already done so, as described below.

The updates since the Pass 3 economic models are:

- Updated Powerflow – Approved by TWG on January 28
- Updates from initial Benchmarking efforts:
  - Corrected SPP resource plan wind maximum capacities in models
  - Updated baseline retirement dates for MISO units
  - Corrected Must Run flags for generating units
  - Added existing MISO units previously not included
  - Corrected MISO peak and energy projections
- Updated outages to model low gas supply based on member feedback
- Incorporation of AECI renewable Resource and Siting Plan based on updated draft
- Updated State and Regional Carbon Taxes – Based on changes above
- Updated Area Filter and small edits to Area Structure

The following has been incorporated into the PROMOD model:

- Final area structure
- SPP load and generation review data
- DC tie profiles

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<sup>1</sup> [http://www.spp.org/documents/22878/miso-spp\\_joint\\_ceii\\_nda.pdf](http://www.spp.org/documents/22878/miso-spp_joint_ceii_nda.pdf)  
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- Fuel prices (coal, natural gas, oil, uranium)
- Emissions/effluent prices
- External load and generation review data
- Transactions
- Final hurdle rates
- Custom Tables and Reporting Flags
- Updated generator and fuel data approved at October 22 ESWG meeting
- Approved Resource Plan – Phase 1 (RP1) and Resource Plan – Phase 2 (RP2) units and Siting Plans
- External Resource and Siting Plans
- Generator maintenance and forced outages
- TWG-approved Powerflow and Generator Outlet Facilities (GOF)
- Regional and State Carbon taxes for Futures 1 and 2

The following has **not** been incorporated into the PROMOD model:

- Benchmarking updates
- Constraints beyond the NERC Book of Flowgates

These files can be found on TrueShare under:

**Trueshare >> Integrated Transmission Planning--Confidential and Protected Material and or Critical Energy Infrastructure Information-Do Not Release >> 2017 ITP10 >> Joint NDA – 2017 ITP10 Models**

**Files posted on TrueShare:**

*For users who license ABB nodal simulation ready software:*

Folder or File Name	Description
ITP11720F1JAN25BAAP	2020 Future 1 PROMOD Pass 3 Database (Staging Year)
ITP11725F1JAN25BAAQ	2025 Future 1 PROMOD Pass 3 Database (Study Year)
ITP11720F2JAN25BAAR	2020 Future 2 PROMOD Pass 3 Database (Staging Year)
ITP11725F2JAN25BAAS	2025 Future 2 PROMOD Pass 3 Database (Study Year)
ITP11720F3JAN25BAAT	2020 Future 3 PROMOD Pass 3 Database (Staging Year)
ITP11725F3JAN25BAAU	2025 Future 3 PROMOD Pass 3 Database (Study Year)
2017ITP10 F1 2020 Forced Outages.LIB	Forced Outage File for 2020 Future 1 Model
2017ITP10 F1 2025 Forced Outages.LIB	Forced Outage File for 2020 Future 1 Model
2017ITP10 F2 2020 Forced Outages.LIB	Forced Outage File for 2020 Future 2 Model
2017ITP10 F2 2025 Forced Outages.LIB	Forced Outage File for 2020 Future 2 Model
2017ITP10 F3 2020 Forced Outages.LIB	Forced Outage File for 2020 Future 3 Model
2017ITP10 F3 2025 Forced Outages.LIB	Forced Outage File for 2020 Future 3 Model
2017ITP10_2020_F1_F3_20160201.EVE	Preliminary Event File (compatible with 2020 F1 and F3 models)
2017ITP10_2020_F2_20160201.EVE	Preliminary Event File (compatible with 2020 F2 model)
2017ITP10_2025_20160201.EVE	Preliminary Event File (compatible with 2025 models)

These files can be found on TrueShare under:

**Trueshare >> Integrated Transmission Planning--Confidential and Protected Material and or Critical Energy Infrastructure Information-Do Not Release >> 2017 ITP10 >> Joint NDA – 2017 ITP10 Modeling Data**

For users who have signed an ABB NDA:

File Name	Description
2017 ITP10 F1 Economic Model Inputs_Pass 3.xlsx	Spreadsheet containing 2020 and 2025 PROMOD Database inputs for Future 1
2017 ITP10 F2 Economic Model Inputs_Pass 3.xlsx	Spreadsheet containing 2020 and 2025 PROMOD Database inputs for Future 2
2017 ITP10 F3 Economic Model Inputs_Pass 3.xlsx	Spreadsheet containing 2020 and 2025 PROMOD Database inputs for Future 3

### Information for obtaining the 2017 ITP10 models

In order to obtain access to these documents in TrueShare, stakeholders must provide SPP with a signed [confidentiality agreement](#). Instructions can be obtained by clicking on the link. Please submit these forms via **RMS** through the “Request TrueShare Access” Quick Pick. After the executed confidentiality agreement is received, an account will be created for the requester on TrueShare. An email with instructions for logging on will be sent to requester. For those that already have a TrueShare account, no additional action is necessary.

As a reminder, instructions for accessing the model information can be found on the SPP website [here](#).

### Helpful Links

- [Transmission Owner Selection Process \(formerly Order 1000\) home page](#)
  - [Order 1000 Documents](#)
  - [Detailed Project Proposal \(DPP\) page](#)
- [SPP Transmission Planning Page](#)
  - All notice postings previously on the SPP.org home page are now on this page
  - ITP Postings (formerly in Order 1000 Documents folder) [here](#)
  - 2016 ITPNT updated schedule dates are included [here](#)
  - 2017 ITP10 schedule dates are [here](#)
- SPP Request Management System ([SPP RMS](#)) is the preferred method for inquiries and data submissions. Click on this link and then “Register Now” if you are not already registered.
  - Quick Picks to use in RMS:
    - “ITP-DPP Submittal” Quick Pick for DPP submissions
    - “Request TrueShare Access” Quick Pick for access to TrueShare for models
    - “ITP – Modeling” Quick Pick for input regarding modeling
    - “ITP – Project Inquiry” Quick Pick for questions/comments regarding projects
- [SPP RMS](#) is the preferred method for receiving all inquiries and solution submittals.