Market Simulation Unstructured Scenarios

Modeling Intertie Multi-Stage Generator for EIM

Version 1.0

11/16/2020

Location of Document

http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx

Revision History

Date	Version	Description	Author
11/16/20	1.0	Added Scenario #1 for "Modeling Intertie Multi-Stage Generator for EIM" enhancement.	CAISO Market Simulation Team

Table of Contents

1. Introduction

The objective of this document is to provide information for ISO Energy Imbalance Market Participants to participate in the Unstructured Market Simulation activities for the "Modeling Intertie Multi-Stage Generator for EIM" project. For the scope of this initiative and implementation, please refer to the project Business Requirements Specification (BRS) on the ISO Release Planning site.

2. Market Simulation Unstructured Scenarios

2.1 High Level Overview

The identified scenarios will be executed as unstructured activities during "Modeling Intertie Multi-Stage Generator for EIM" market simulation. These unstructured scenarios will allow EIM participant to evaluate functional/display improvements, provide input and request information at their own pace, and as displays and functionalities are made available.

2.2 Unstructured Scenarios Conditions and Setup

The ISO is in the process of updating applications with displays necessary for the viewing and evaluating coming updates. Since the market simulation for this project is to be done over multiple phases, some of the scenario elements may not be readily available to test. This document is intended as a foundational guide, and as more information is released, more displays and functionality available and more scenarios developed, this guide will be updated and market participants notified.

Market Participant pre-Market Simulation Actions
1. Registration is not required to participate in Modeling Intertie Multi-Stage Generator for EIM market simulation phases as these are intended to be unstructured. EIM market participants may send inquiries to Modeling Intertie Multi-Stage Generator for EIM market simulation via the MarketSim@caiso.com mailbox for schedules and display/functionality updates.

ISO pre-Market Simulation Activities

Confirm applicable Intertie MSG are registered as TMSG in MF following these limited conditions:

- TMSG model will not be allowed on CAISO scheduling points.

- TMSG is modeled as EIM participating resource only.

- The associated intertie is an EIM Intertie where the FROM BAA is an EIM BAA and the TO_BAA is a non-EIM BAA.

- The intertie resource is a resource-specific dynamic import from a physical resource in the non-EIM BAA with a dynamic scheduling agreement with the EIM BAA. The source resource must be a physical resource; it may not be a logical share or a pseudo-tie resource.

- The physical resource must meet the MSG model requirements.

- The dynamic scheduling agreement has provisions for dedicated long-term transmission capacity through the associated intertie and into the EIM BAA. The long-term transmission capacity must accommodate the highest maximum capacity among all registered MSG configurations. If the dynamic scheduling agreement has no such provisions, all the following conditions must be met:

  o There are no other TMSGs registered at the associated intertie.

  o There are no TGs registered at the associated intertie.

  o There are no TNGRs registered at the associated intertie.

  o There are no ETSRs registered at the associated intertie.

  o There are no other intertie resources (Transaction IDs or System Resources) registered at the same intertie that can participate in the market with a bid; intertie resources with self-schedules or base schedules are supported.

  o There are no ITCs or ISLs that constrain schedules at the associated intertie; the EIM Entity shall be responsible for coordinating any static intertie schedules with the TMSG bids.

Notes:

- CISO interties may not be supported, as all CISO intertie ITC/ISL constraints.

- This enhancement would provide limited support of TMSG from a non-EIM BAA to an EIM BAA (not CISO) where no ITC/ISL or ETSRs exists.

2.3 Unstructured Scenarios

Scenario Execution Trade Date(s): TBD	
Scenario #1	Verify Intertie MSG model for EIM enhancement.
Description	EIM Scheduling Coordinators of registered intertie MSGs shall be able to submit bids, base schedules and view their real-time market results and resource sufficiency evaluation.

Scenario Execution Trade Date(s): TBD	

Expected System Outcome	• Registered intertie MSGs shall be modeled similar to other MSG resources, including:
	
	   o Intertie MSG's schedule coordinators shall receive their real-time dispatch and commitment via ADS, similar to other MSG resources.
	
	   o EIM Entities of the EIM BAA where the Intertie MSG resource resides shall access and view their real-time dispatch and commitment, and resource sufficiency evaluation results via BAAOP, similar to other MSG resources.
	
	   o Intertie MSG's schedule coordinators shall view their real-time market results in CMRI, similar to other MSG resources.

Anticipated Settlement Outcome	• Intertie MSG's schedule coordinators shall receive settlements statements, similar to other MSG resources.
Details:	
ISO Actions	N/A
ISO Market Participant Actions	N/A
EIM Market Participant Actions	• Intertie MSG's schedule coordinators submit bids in SIBR, similar to other MSG resources. • Intertie MSG's base schedule coordinators submit base schedules in BSAP, similar to other MSG resources. • Submit outages of Intertie MSGs in WebOMS, similar to other MSG resources.

3. ISO Market Simulation Contact

Please contact MarketSim@caiso.com if you have any questions or concerns regarding these scenarios.

Please contact CustomerReadiness@caiso.com Attn: Modeling Intertie Multi-Stage Generator for EIM if you have any additional questions or comments.