



California ISO

Market Simulation Structured Scenarios

FRP Improvements- Buffer & Min

Version 1.3

07/30/2020

 California ISO <small>Shaping a Renewed Future</small>	Market Simulation Templates Program Office	Template Version:	2.0
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Location of Document

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

Revision History

Date	Version	Description	Author
05/29/2020	1.0	Initial Posting for Market Participant Review and feedback	Market Simulation Team
07/30/2020	1.1	ISO Actions under structured scenarios were updated to clarify actions for the scenarios.	Market Simulation Team
10/06/2020	1.2	ISO Actions under structured scenarios 1 and 4 were updated to clarify actions for the scenarios.	Market Simulation Team
10/12/2020	1.3	Update to EIM Market Participant Actions for scenario 1 and 2. Update to ISO Market Participant Actions for scenario 3 and 4.	Market Simulation Team

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1. Introduction

The objective of this document is to provide the information needed for Market Participants (MP) to participate in the FRP Improvements Buffer & Min project simulation scenarios. For the scope of this initiative and implementation, please refer to the project Business Requirements Specification (BRS) on the Release Planning site – [\(Link\)](#)

2. Market Simulation Structured Scenarios

2.1 High Level Overview

The identified scenarios will be executed during the Fall2020 market simulation to demonstrate functionality for Market Participant understanding and validation.

2.2 Structured Scenarios Conditions and Setup

The following additional setup will be used by the ISO during the scenario execution.

Market Participant pre-Market Simulation Actions

EIM participants will need to register their request with the ISO to participate in the FRP Improvements Buffer & Min project simulation via the MarketSim@caiso.com mailbox. EIM participants, submit your request and any additional information requested in this document by July 3rd, 2020.

Please submit your request and any additional information identified above by July 3, 2020.

ISO pre-Market Simulation Activities

1. The ISO will setup the balancing area ramping tools to support each registered EIM participating in these scenarios.
2. The ISO will setup the balancing area ramping tools for the ISO BAA
3. The ISO will publish a market simulation schedule to support the following scenarios outlined in more detail in section 2.3 below.

Market-related enhancements:

- Scenario #1 – Demonstrate the minimum requirement to be enforced for each EIM area
- Scenario #2 – Demonstrate the flow of awards related to the buffer interval for each EIM area.

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- Scenario #3- Demonstrate the flow of awards related to the buffer interval for each ISO area.
- Scenario #4- Demonstrate the minimum requirement to be enforced for each ISO area

2.3 Structured Scenarios

Scenario Execution Trade Date(s): TBD	
Scenario #1	Demonstrate the minimum requirement to be enforced for each EIM area.
Description	Demonstrate that there is an increase in the procurement of the minimum requirement and is reported.
Expected System Outcome	Minimum requirement calculated leading to increase procurement for each BAA.
Anticipated Settlement Outcome	N/A – No settlement impacts
Details:	
ISO Actions	<ol style="list-style-type: none"> 1. ISO will increase the Min requirement criterion to 95% to make sure min requirement is not triggered. 2. After first action, ISO will reduce the Min requirement criterion to 5% to ensure min requirement is triggered for all BAA's.
ISO Market Participant Actions	N/A
EIM Market Participant Actions	<ol style="list-style-type: none"> 1. Review Flexible Ramp Requirements and Flexible Ramp Aggregate Awards reports from OASIS and confirm the hours for which the minimum requirement is calculated. 2. Verify there is an increase in procurement of the flex ramp in (flexible ramping aggregate awards report) in OASIS reports.

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Scenario Execution Trade Date(s): TBD	
Scenario #2	Demonstrate the flow of awards related to the buffer interval for each EIM area.
Description	Demonstrate and report the energy binding schedule with room for flex ramp awarded.
Expected System Outcome	Binding energy schedules preserve FRP awards from previous RTPD run.
Anticipated Settlement Outcome	N/A
Details:	
ISO Actions	ISO may disable the feature and may increase/decrease Load Forecast to show that FRP is not preserved Then ISO will enable the feature and display that FRP is now preserved with increase and decrease of load forecast.
ISO Market Participant Actions	N/A
EIM Market Participant Actions	Verify energy binding schedule in CMRI has room for awarded flex ramp in previous binding FMM interval.

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Scenario Execution Trade Date(s): TBD	
Scenario #3	Demonstrate the flow of awards related to the buffer interval for each ISO area.
Description	Demonstrate and report the energy binding schedule with room for flex ramp awarded.
Expected System Outcome	Binding energy schedules preserve FRP awards from previous RTPD run.
Anticipated Settlement Outcome	N/A
Details:	
ISO Actions	ISO may disable the feature and may increase/decrease Load Forecast to show that FRP is not preserved Then ISO will enable the feature and display that FRP is now preserved with increase and decrease of load forecast.
ISO Market Participant Actions	Verify energy binding schedule in CMRI has room for awarded flex ramp in previous binding FMM interval.
EIM Market Participant Actions	N/A

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Scenario Execution Trade Date(s): TBD	
Scenario #4	Demonstrate the minimum requirement to be enforced for ISO BAA.
Description	Demonstrate that there is an increase in the procurement of the minimum requirement and is reported.
Expected System Outcome	Minimum requirement calculated leading to increase procurement for each BAA.
Anticipated Settlement Outcome	N/A
Details:	
ISO Actions	<ol style="list-style-type: none"> 1. ISO will increase the Min requirement criterion to 95% to make sure min requirement is not triggered. 2. After first action, ISO will reduce the Min requirement criterion to 5% to make sure min requirement is triggered for all BAA's.
ISO Market Participant Actions	<ol style="list-style-type: none"> 1. Download Flexible Ramp Requirements and Flexible Ramp Aggregate Awards reports from OASIS and confirm the hours for which the minimum requirement is calculated. 2. After the market run verify there is an increase in procurement of the flex ramp in CMRI reports.
EIM Market Participant Actions	N/A

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3. ISO Market Simulation Contact

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