



Market Simulation – Summer 2021 Release

Anshuman Vaidya
Market Simulation Coordinator

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Recordings

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Agenda

- Summer 2021 Release MAP Stage Availability
- Summer 2021 Release Market Simulation Initiatives & Timelines
- Initiatives
 - FERC order 831 - pricing parameters, import bid screening, and validation
 - Resource adequacy enhancements track 1
 - Summer 2021 readiness
- Summer 2021 - System Interface Changes
- Next Steps

Summer 2021 Release MAP Stage Availability

- Refer to MAP Stage portal <https://portalmap.caiso.com> for system availability information
- Current MAP Stage Scheduled Maintenance
 - MF 5/10-5/12
 - OMS UI/API Unavailable 5/12-5/17
- MAP Stage Weekly Maintenance Window
 - Friday

Summer 2021 Release Market Simulation Initiatives & Timelines

| Summer 2021 Release Initiatives | Start Date | Start Date (Trade Date) | End Date | Structured Simulation Start (Trade Date) | Go Live Date |
|--|-------------------|--|-----------------|---|---|
| Summer 2021 Release Market Simulation | 04/26/21 | 04/26/21 | 05/28/21 | 05/10/21 | |
| FERC order 831 | | | | 05/25-05/27 | June 15 |
| Resource adequacy enhancements track 1 Phase 1 – Scenario 1,2 Phase 2 – Scenario 3,4,5 | | Phase 1 – 5/17 Phase 2 – 6/14 | | Phase 1 - 05/18 & 5/20 Phase 2 – 6/15 | Phase 1 - June 03 Phase 2- June 30 |
| Summer 2021 readiness Phase 1 – Scenario 6,7,8 Phase 2 – Scenario 1,2,5 Phase 3 – Scenario 3,4 | | Phase 1 – 5/20 Phase 2 – 5/27 Phase 3 – 6/14 | | Phase 1 – 5/20 & 5/25 Phase 2 – 6/01 & 6/03 Phase 3 – 6/15 & 6/17 | Phase 1&2 –June 15 Phase 3 – June 30 |
| Summer 2021 readiness Export, wheeling, and load scheduling priorities | TBD | TBD | | TBD | By July 15 |

Market Simulation Plan:

<http://www.caiso.com/Documents/MarketSimulationPlan-Summer2021Release.pdf>

Scenario Description

- **Resource Adequacy Enhancements - Phase 1**

Scenario #1: “Description Fully covered substitution”

Scenario #2: “Less than full substitution”

- **Resource Adequacy Enhancements - Phase 2**

Scenario #3: “Outages already started cannot be extended” **This scenario will be tested as unstructured*

Scenario #4: “Binding Min EOH SOC Requirements”

Scenario #5: “Deactivation of Enforcement of Binding Min EOH SOC Requirements in RTM”

- **Summer Readiness - Phase 1**

Scenario #6 “Flexible Ramping Capacity and Sufficiency Tests.”

Scenario #7 “Auto-mirroring for specified mirror resources

Scenario #8 “Use last advisory RTD schedules while contingency event in EIM BAA extends beyond the advisory horizon

- **Summer Readiness - Phase 2**

Scenario #1 “RTM Import & Export Market Incentives during Tight System Conditions”:

Scenario #2 “Release of All Applicable (Contingent & non-Contingent) Operating Reserves at the Bid Cap Price”:

Scenario #5 “RDRR Enable dispatch in RTM

- **Summer Readiness - Phase 3**

Scenario #3 “Ensure Storage Resources have Sufficient SOC to Support Regulation Up and Regulation Down Awards for at Least 30 Minutes in RTM”:

Scenario #4 “Operator Utilization of Traditional ED for Storage Resources”

Market Simulation Initiatives

- **Timeline : April 26 – May 28**
- **FERC order 831**
 - **Structured** : May 25, 26, 27 (Buffer dates June 1, 2, 3)
 - Structured Scenarios document -
<http://www.caiso.com/Documents/MarketSimulationStructuredScenarios-FERCOrder831.pdf>
 - Business Requirements Specification -
<http://www.caiso.com/Documents/BusinessRequirementsSpecificationFERC831ImportBiddingMarketParameters.pdf>
- **Resource adequacy enhancements track 1**
 - **Structured** : Phase 1: May 18 & 20, Phase 2: June 15
 - Business Requirements Specification -
<http://www.caiso.com/Documents/Business-Requirements-Specification-Resource-Adequacy-Enhancements-Track-1-Clean.pdf>
 - Structured Scenarios document -
<http://www.caiso.com/Documents/MarketSimulationResourceAdequacyEnhancementTrack1.pdf>
- **Summer 2021 readiness**
 - **Structured** : Phase 1: May 20 & 25, Phase 2: June 01 & 03 , Phase 3: June 15 & 17
 - Business Requirements Specification -
<http://www.caiso.com/Documents/BusinessRequirementsSpecificationSummer2021Readiness.pdf>
 - Structured Scenarios document -
<http://www.caiso.com/Documents/MarketSimulationStructuredScenariosSummerReadiness2021.pdf>

Summer 2021 - System Interface Changes

Summer 2021 Release

| Project | System | API Service Name & Major Version, Artifacts | MAP Stage | Production | Technical Specifications/Publication |
|------------------|--------|---|-----------|------------|--------------------------------------|
| Summer Readiness | MF | GeneratorRDT_v5 GRDT spreadsheet Version 15.0 Draft | 5/12/21 | By 6/30/21 | ✓ v7.0; 4/16/21 ✓ 5/7/21 |
| | MF | IntertieRDT_v1 IRDT (spreadsheet) Version 6.0 Draft | 5/12/21 | By 6/30/21 | ✓ v7.0; 4/16/21 ✓ 5/7/21 |
| | MF | GRDT & IRDT Definitions v15 Draft | N/A | N/A | ✓ 5/7/21 |
| | SIBR | CleanBidSet_v5; 20210401 | 5/27/21 | By 6/30/21 | ✓ v13.3; 4/19/21 |
| | SIBR | RawBidSet_v5; 20210401 | 5/27/21 | By 6/30/21 | ✓ v13.3; 4/19/21 |
| | SIBR | BidResults_v5; 20210401 | 5/27/21 | By 6/30/21 | ✓ v13.3; 4/19/21 |
| | OASIS | ENE_SCH_BY_TIE Energy > Schedule by Tie | 6/14/21 | By 6/30/21 | ✓ v6.0.0; 4/9/21 |
| RA Enhancements | CMRI | StorageOperatingLimit_v1 | 6/15/21 | By 6/30/21 | ✓ v4.1.0; 4/16/21 |
| | OASIS | ENE_UND_SPLY_INF_EC Energy > Under Supply Infeasibility and Enforced Constraints | 6/15/21 | By 6/30/21 | ✓ v6.1.0; 4/16/21 |
| | CIRA | Application Changes | ✓ 5/5/21 | 6/3/21 | N/A |
| | OMS | Application Changes | 5/17/21 | 6/3/21 | N/A |
| FERC831 | OASIS | PRC_HRLY_ENE_SHAPING_FCTR Pricing > Hourly Energy (Price) Shaping Factor | 5/17/21 | 6/15/21 | ✓ v6.0.0; 4/9/21 |
| | OASIS | ATL_CNSTR_RLXN_THRESHOLD Atlas Reference > Constraint Relaxation Threshold | 5/17/21 | 6/15/21 | ✓ v6.0.0; 4/9/21 |

Next Steps

- The next teleconference is scheduled on May 13 at 2 PM

Reference Slides

ISO Market Simulation Support

- **Hours:** Monday thru Friday 0900-1800 PDT
- **ISO's 24x7 Service Desk:** (916) 351-2309 (Connectivity – UI or API)
- **Email:** MarketSim@caiso.com

Spring 2021 Release Communication Plan

- **Schedule**

| <i>Monday</i> | <i>Thursday</i> |
|----------------------------|--------------------------------|
| April 26 May 3,10,17,24 | April 22, 29 May 6,13,20,27 |

- **Connection Information**

- **Web Conference Information**

- Web Address: <https://caiso.webex.com/meet/MarketSim>
 - Meeting Number: 962 067 710
 - Audio connection instructions will be available after connecting to the web conference. When prompted, select "Call me" and enter the phone number you will use during the call. You will be called by the conference shortly.

- **Conference Call Information**

- Dial-in Number:
 - 1-844-517-1271 (Toll Free)
 - 1-682-268-6591
 - Access Code: 962 067 710

Market Simulation Issue Management

- Submit all issues to the CIDI case management system
- CIDI tickets must have “**Functional Environment**” = “**Market Simulation Summer 2021**” to be reviewed by ISO SMEs

Summer 2021 Release MAP Stage Connectivity Testing

- **Timeline** : April 26 – May 10

Structured Scenario Registration Details

MP's will need to register their request with the ISO to participate in this simulation via the MarketSim@caiso.com mailbox.

Date of registration

FERC 831 & Summer 2021 readiness – May 6th, 2021

We will do our best to accommodate for late registration

Summer 2021 Release - Market Simulation Overview

| Wk | Date | ISO | Market Participants |
|----|-----------|---------------------------|-------------------------|
| 1 | 4/26-5/10 | Mkt Sim Readiness Testing | Connectivity |
| 2 | 5/10-5/28 | | Structured Scenarios |
| 3 | 5/10-5/28 | | Unstructured Simulation |

| Calendar Day | Day | CMRI T+1B | Submit Meter Data by T+2B 10:00 AM for Initial | Publish Initial Statement T+5B | Submit Meter Data by T+5B 18:00 for Recalc | Publish Recalc Statement T+8B | Publish Market Invoice |
|--------------|-----------|-----------|--|--------------------------------|--|-------------------------------|---|
| 24-May-21 | Monday | | 20-May | | | | |
| 25-May-21 | Tuesday | | | 18-May | 18-May | 13-May | |
| 26-May-21 | Wednesday | 25-May | | | | Monthly Recalc 11-May -13-May | Daily Recalc 11-May; 13-May Monthly Recalc 11-May - 13-May |
| 27-May-21 | Thursday | 26-May | 25-May | 20-May | 20-May | | |
| 28-May-21 | Friday | 27-May | 26-May | Monthly Initial 18-May -20-May | | 18-May | Daily Initial 18-May; 20-May Monthly Initial 18-May - 20-May |

Settlements TDs Tue/Thu

Maintenance Friday

[Market Simulation Plan](#)

[Market Simulation Settlements Calendar](#)

