Market Simulation – Summer 2021 Release

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Market Simulation Coordinator

May 24, 2021
Recordings

Calls and webinars are recorded for stakeholder convenience, allowing those who are unable to attend to listen to the recordings after the meetings. The recordings will be publicly available on the ISO web page for a limited time following the meetings. The recordings, and any related transcriptions, should not be reprinted without the ISO’s permission.
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://portalmapp.caiso.com](https://portalmapp.caiso.com) for system availability information

- Current MAP Stage Scheduled Maintenance
  - None

- MAP Stage Weekly Maintenance Window
  - Friday
### Market Simulation Plan:

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”

**OMS Curbing, Ambient Outages**

Scenario #6: Curtailments for active outages cannot be increased beyond the max curtailment MW for a given trading day
Scenario #7: Allowing Overlapping outages for 4 Nature of Work (NOW)

- **Summer Readiness - Phase 1**
  Scenario #6 “Flexible Ramping Capacity and Sufficiency Tests.”
  Scenario #7 “Auto-mirroring for specified mirror resources”

- **Summer Readiness - Phase 2**
  **Noon to 5PM: DA+RT** Scenario #1 “RTM Import & Export Market Incentives during Tight System Conditions”:
  **Noon to 5PM: RT** Scenario #2 “Release of All Applicable (Contingent & non-Contingent) Operating Reserves at the Bid Cap Price”.
  **Noon to 5PM: RT** 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 – June 07

• **FERC order 831**
  – **Structured**: Trading Date May 25, 26, 27 (Buffer dates June 1, 2, 3)
  – Structured Scenarios document -
  – Business Requirements Specification -

• **FERC Order 831 - Market Simulation Scenarios** Customer Training on 5/18. Refer to the ISO Learning Center for the presentation and video.
Market Simulation Initiatives

- **Timeline**: April 26 – June 24
- **Resource adequacy enhancements track 1**
  - **Structured**: Phase 1: May 20, Phase 2: June 15
  - Business Requirements Specification -
  - Structured Scenarios document -
- **Showing period reduced to 1 hour for Market Sim for 2 weeks**
  - Substitution to be submitted within 1 hour of outage assignment in CIRA
Market Simulation Initiatives

- **Timeline:** April 26 – June 24
- **Summer 2021 readiness**
  - **Structured:** Phase 1: May 20 & 25, Phase 2: June 01,02 & 03, Phase 3: June 15 & 17
  - Business Requirements Specification -
  - Structured Scenarios document -

- **RDRR resource dispatch option:** 15 minute or 60 minute
# Summer 2021 - System Interface Changes

## Summer 2021 Release

<table>
<thead>
<tr>
<th>Project</th>
<th>System</th>
<th>API Service Name &amp; Major Version, Artifacts</th>
<th>MAP Stage</th>
<th>Production</th>
<th>Technical Specifications/Publication</th>
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<tr>
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TBD: To Be Determined
Next Steps

- The next teleconference is scheduled on May 27 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

<table>
<thead>
<tr>
<th>Monday</th>
<th>Thursday</th>
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<tbody>
<tr>
<td>April 26</td>
<td>April 22, 29</td>
</tr>
<tr>
<td>May 3, 10, 17, 24</td>
<td>May 6, 13, 20, 27</td>
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• Connection Information

  – Web Conference Information
    • Web Address: [https://caiso.webex.com/meet/MarketSim](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

### Market Simulation Plan

<table>
<thead>
<tr>
<th>Wk</th>
<th>Date</th>
<th>ISO</th>
<th>Market Participants</th>
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<td>3</td>
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### Market Simulation Settlements Calendar

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<th>Calendar Day</th>
<th>Day</th>
<th>CMRI T+1B</th>
<th>Submit Meter Data by T+2B 10:00 AM for Initial</th>
<th>Publish Initial Statement T+5B</th>
<th>Submit Meter Data by T+5B 18:00 for Recalc</th>
<th>Publish Recalc Statement T+8B</th>
<th>Publish Market Invoice</th>
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Settlements TDs Tue/Thu
Maintenance Friday

[Market Simulation Plan]
[Market Simulation Settlements Calendar]