Market Simulation Call - Fall 2022

Anshuman Vaidya
Market Simulation Lead

Aug 22, 2022
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

- ISO Market Simulation Support
- Market Simulation Issue Management
- Fall 2022 Communication Plan
- Fall 2022 MAP Stage Availability
- Fall 2022 MAP Stage Connectivity Testing
- Fall 2022 Market Simulation Initiatives & Timelines
- Fall 2022 Market Simulation Settlements Calendar
- Structured Scenario Registration Details
- Fall 2022 - System Interface Changes
- Initiatives
  - Central procurement entity
  - Flexible ramping product - deliverability
  - Hybrid resources phase 2B
  - Reliability demand resource response phase 2
- Next Steps
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](mailto:MarketSim@caiso.com)
Market Simulation Issue Management

- Submit all issues to the CIDI case management system
- CIDI tickets must have “Functional Environment” = “Market Simulation Fall 2022” to be reviewed by ISO SMEs
Fall 2022 Communication Plan

• Schedule

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Thursday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 22, 29</td>
<td>Sep 26</td>
<td>Aug 18, 25</td>
</tr>
<tr>
<td>Sep 12, 19, 26</td>
<td></td>
<td>Sep 01, 08, 15, 22, 29</td>
</tr>
</tbody>
</table>

• 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
Fall 2022  MAP Stage Availability

• Refer to MAP Stage portal https://portalmap.caiso.com for system availability information
• Current MAP Stage Scheduled Maintenance
  – None

• MAP Stage Weekly Maintenance Window
  – Friday
Fall 2022 MAP Stage Connectivity Testing

• **Timeline:**
  – Start TD 8/22 – 8/29
## Fall 2022 Market Simulation Initiatives & Timelines

<table>
<thead>
<tr>
<th>Fall 2022 Initiatives</th>
<th>Start Date (Trade Date)</th>
<th>Start Date (Trade Date)</th>
<th>End Date (Trade Date)</th>
<th>Structured Simulation Start (Trade Date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2022 Market Simulation</td>
<td>08/30/22</td>
<td>08/30/22</td>
<td>09/30/22</td>
<td></td>
</tr>
<tr>
<td>Central procurement entity</td>
<td>09/19/22</td>
<td>09/22/22</td>
<td></td>
<td>09/22/22</td>
</tr>
<tr>
<td>Flexible ramping product – deliverability</td>
<td>09/15/22</td>
<td>09/19/22</td>
<td></td>
<td>09/19/22</td>
</tr>
<tr>
<td>Hybrid resources phase 2B</td>
<td>09/06/22</td>
<td>09/06/22</td>
<td></td>
<td>09/06/22</td>
</tr>
<tr>
<td>Reliability demand resource response phase 2</td>
<td>09/19/22</td>
<td>09/19/22</td>
<td></td>
<td>09/19/22</td>
</tr>
</tbody>
</table>

**Market Simulation Plan:**

# Fall 2022 Market Simulation Settlements Calendar

![Calendar Image](https://www.caiso.com/Documents/MarketSimulationSettlementsCalendar-FallReleases2022.pdf)

## Market Simulation Settlements Calendar Fall 2022:

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 August 12, 2022.
We will do our best to accommodate for late registration.
## 2022 - System Interface Changes

<table>
<thead>
<tr>
<th>System</th>
<th>Release</th>
<th>Project</th>
<th>API Service Name &amp; Major Version, Artifacts</th>
<th>MAP-Stage</th>
<th>Production</th>
<th>Technical Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>MF</td>
<td>Fall 2022</td>
<td>Hybrid Resources 2B</td>
<td>SubmitGeneratorRDT_MFRDv5_20211001 RetrieveGeneratorRDT_MFRDv5_20211001</td>
<td>✔</td>
<td>Deployed</td>
<td></td>
</tr>
<tr>
<td>MF</td>
<td>Fall 2022</td>
<td>Hybrid Resources 2B</td>
<td>- <strong>RDT Definitions v17 DRAFT:</strong>&lt;br&gt;- <strong>GRDT v17</strong>&lt;br&gt;Changes:&lt;br&gt;- RESOURCE tab:&lt;br&gt;- HYBRID_COMPONENTS tab: (Hybrid Resource Phase 2-B, activation date moved to Fall 2022)&lt;br&gt;- Add fields: MIN_CONT_ENERGY_LIMIT, MAX_CONT_ENERGY_LIMIT, ENERGY_EFFIC</td>
<td>8/22/22</td>
<td>11/1/22</td>
<td>✔ Drafts 5/24/22</td>
</tr>
<tr>
<td>SIBR</td>
<td>Fall 2022</td>
<td>Hybrid Resources 2B</td>
<td>SubmitDynamicResourceLimitsData_SIBRv1 RetrieveDynamicResourceLimitsData_SIBRv1</td>
<td>TBD</td>
<td>11/1/22</td>
<td>✔ Artifacts 2/2/22, Tech Spec 2/8/22</td>
</tr>
<tr>
<td>ALFS</td>
<td>Fall 2022</td>
<td>Hybrid Resources 2B</td>
<td>SubmitSCVERForecast_ALFSv1 RetrieveSCVERForecast_FDRv1</td>
<td>8/22/22</td>
<td>11/1/22</td>
<td>✔ 5/25/22</td>
</tr>
</tbody>
</table>

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</table>
| CMRI    | Fall 2022 | Hybrid Resources 2B      | Modify: RetrieveEIRForecast_CMRIv1_AP - 20220401  
Modify: RetrieveEIRForecast_CMRIv1_DocAttach_AP – 20220401                                                  | Sep 2022  | 11/1/22    | ✓ 7/15/22               |
| CMRI    | Fall 2022 | Hybrid Resources 2B      | New: RetrieveAggregatedCapabilityConstraintDefinition_CMRIv1_AP  
New: RetrieveAggregatedCapabilityConstraintDefinition_CMRIv1_DocAttach_AP                                | Sep 2022  | 11/1/22    | ✓ 7/15/22               |
| CMRI    | Fall 2022 | FRP Improvements – Deliverability | Resource Nodal prices for the FRP awards  
Will leverage existing API & UI functionality for FRP products (FRU/FRD) – No changes need for UI & API functionality; Users can continue to use existing UI/API functionality as is. | Sep 2022  | 11/1/22    | N/A                     |
| OASIS   | Fall 2022 | Hybrid Resources 2B      | Include constraint in the Scheduling Constraint Shadow Prices report  
- New: Aggregate Capability Constraint Shadow Prices; ACC_SHDW_PRC                                           | Sep 2022  | 11/1/22    | ✓ 7/15/22               |
| OASIS   | Fall 2022 | FRP Improvements – Deliverability | Demonstrate the variability of locational pricing for FRU/FRD.  
- New: Flex Ramp Requirements Input Uncertain Histogram; FLEX_RAMP_REQ_INP_HSG  
- New: Flex Ramp Requirement Input - Polynomials; FLEX_RAMP_REQ_INP_POLYNOMIALS  
- New: Flex Ramp Requirement Threshold; FLEX_RAMP_REQ_THRESH  
- New: Flexible Ramp Test Result Groups; FLEX_RAMP_TEST_RESULT_GROUP  
- New: Flexible Ramping Nodal Prices; FLEX_RAMP_NODAL_PRC  
- New: Flexible Ramping Constraint Shadow Prices; FLEX_RAMP_CNSTR_SHDW_PRC  
- New: Flexible Ramping Scheduling Constraint Shadow Prices; FLEX_RAMP_SCH_CNSTR_SHDW_PRC  
- New: Flexible Ramping Forecasts; FLEX_RAMP_FCST  
- Flexible Ramp Surplus Demand Curve; ENE_FLEX_RAMP_DC |

[https://developer.caiso.com](https://developer.caiso.com)
Central Procurement Entity

- **Timeline:** 09/19 - 09/30
- **Structured:** 9/22

Structured Scenarios Document – *To be published*
Flexible ramping product - deliverability

- **Timeline:** 09/15- 09/30
- **Structured:** 09/19

Structured Scenarios document -
Hybrid resources phase 2B

- **Timeline:** 09/06- 09/30
- **Structured:** 09/06

Reliability demand resource response phase 2

- **Timeline**: 09/19 - 09/30
- **Structured**: 09/19

Structured Scenarios document -
Next Steps

• The next teleconference is scheduled on August 26 at 1400 PDT