



Market Simulation – Independent Releases 2022

Anshuman Vaidya
Market Simulation Lead

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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

- Independent Releases 2022 MAP Stage Availability
- Independent Releases 2022 MAP Stage Connectivity Testing
- Independent Releases 2022 - System Interface Changes
- Independent Releases 2022 Market Simulation Initiatives & Timelines
- Structured Scenario Registration Details
- Initiatives
 - Reliability Demand Response Resource Bidding Enhancements – Phase 1
 - Transmission Service and Market Scheduling Priorities – Phase 1
 - WEIM Resource Sufficiency Evaluation Enhancements Phase 1A
- Next Steps

Independent Releases 2022 MAP Stage Availability

- Refer to MAP Stage portal <https://portalmap.caiso.com> for system availability information
- Current MAP Stage Scheduled Maintenance
 - RCBSAP UI/API 4/19 1500-1600 PT
- MAP Stage Weekly Maintenance Window
 - Friday

Independent Releases 2022 MAP Stage Connectivity Testing

- **Timeline:**
 - Start TD 3/31 – 5/18 for RSEE1 Settlements
 - April 12 – April 18 for RDRR1 SIBR Rules

Independent Releases 2022 - System Interface Changes

| System | Release | Project | API Service Name & Major Version, Artifacts | MAP-Stage | Technical Specifications |
|--------|------------------|---|---|---------------|--------------------------------------|
| SIBR | 2022 Independent | N/A (Was FERC831) | RetrieveEnergyBidData_SIBR_v1_AP | April 2022 | ✓ 14.0; 7/29/21 |
| SIBR | 2022 Independent | Trans. Svc. & Mkt Sched. Priorities Ph. 1 | New: SC of PT Export New: SC of supporting resource | 5/3/22 | 4/18/22 |
| OASIS | 2022 Independent | Trans. Svc. & Mkt Sched. Priorities Ph. 1 | New: ENE_SCH_REDUCTION New: ENE_LOAD_ADJUSTMENT | 5/3/22 | ✓ 7.1.0; 3/24/22 ✓ 7.1.1; 4/11/22 |
| RTM | 2022 Independent | Resource Sufficiency Eval. Enh. Ph. 1 | SubmitDemandResponseData_RTMv1 | TBD | TBD |
| OASIS | 2022 Independent | Resource Sufficiency Eval. Enh. Ph. 1 | New: WEIM_RSE_CAPACITY_TEST New: WEIM_RSE_FLEX_RAMP_TEST | May 2022 (UI) | ✓ 7.1.0; 3/24/22 ✓ 7.1.1; 4/11/22 |
| CMRI | 2022 Independent | Resource Sufficiency Eval. Enh. Ph. 1 | New: ResourceBidCapacityData_v1 | May 2022 (UI) | 4/20/22 |
| SIBR | 2022 Independent | RDRR Bidding Enhancements Phase 1 | Rules Only | ✓ 4/12/22 | ✓ Rules v11.5 3/29/22 |

Independent Releases 2022 Market Simulation Initiatives & Timelines

| <u>Independent Releases 2022 Initiatives</u> | <u>Start Date</u> | <u>Start Date (Trade Date)</u> | <u>End Date</u> | <u>Structured Simulation Start (Trade Date)</u> |
|---|--------------------------|---------------------------------------|------------------------|--|
| <u>Independent Releases 2022 Market Simulation</u> | 04/19/22 | 04/19/22 | | 04/19/22 |
| Reliability Demand Response Resource Bidding Enhancements – Track-1 | 04/19/22 | 04/19/22 | 05/06/22 | 04/19/22 |
| Transmission Service and Market Scheduling Priorities-Phase 1 | 05/03/22 | 05/03/22 | 05/20/22 | 05/05/22 |
| WEIM Resource Sufficiency Evaluation Enhancements Phase 1A | 05/19/22 | | | |

Market Simulation Plan:

<https://www.caiso.com/Documents/MarketSimulationPlan-Independent2022Releases.pdf>

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 April 07, 2022.

We will do our best to accommodate for late registration

Reliability Demand Response Resource Bidding Enhancements – Phase 1

- **Timeline:** April 12 – May 6
- **Structured:** April 19

Market Sim Structured Scenario Timeline

- 8:00 – 10:00 AM: Bid cap will be at \$1000 for RTM HE16 -19 (as well as all other RTM hours); submit a few RDRR bids within those hours (Scenario 1, part 1)
- 10:00 AM: CAISO will set conditions to raise the bid cap to \$2000 for RTM HE16-19
- 10:00 – 12:00 PM: Resubmit some RDRR bids once the cap has been raised; leave some bids at their old value and check that they were revised upward as expected once the market closes (Scenario 1, part 2)
- 12:00 PM: CAISO will set conditions to lower the bid cap back to \$1000 for RTM HE18-19
- 12:00 – COB: Resubmit some RDRR bids once the cap has been lowered; leave some bids at their old value and check that they were revised downward as expected once the market closes (Scenario 2).

Example of SC action (assuming 3 resources, RDRR01, RDRR02, and RDRR03)

- 8:30 AM: Submit \$950-1000 bids for RDRR01, RDRR02, and RDRR03 for HE16-19
- 10:30 AM: Resubmit RDRR01 and RDRR02 bids at \$1900-2000 for HE16-19, leave RDRR03 bids at \$950-1000 à validate RDRR01/RDRR02 bids were accepted upon submission. Once RTM markets close, validate RDRR03 bids were revised upward as expected.
- 1:00 PM: Resubmit RDRR01 bids at \$950-1000 for HE18-19, leave RDRR02 bids at \$1900-2000 à validate RDRR01 bids were accepted upon submission. Once RTM markets close, validate RDRR02 bids were revised downward as expected.

Structured Scenarios document - <https://www.caiso.com/Documents/MarketSimulationStructuredScenarios-ReliabilityDemandResponseResourceBiddingEnhancements-Track-1.pdf>

Transmission Service and Market Scheduling Priorities – Phase 1

- **Timeline:** May 3 – May 20
- **Structured:** May 05

Structured Scenarios document -

<https://www.caiso.com/Documents/MarketSimulationStructuredScenarios-TransmissionServiceandMarketSchedulingPriorities-Phase1.pdf>

WEIM Resource Sufficiency Evaluation Enhancements Phase 1A

- **Timeline:**
 - Settlements Connectivity: TD March 31 – May 18, 2022
 - Settling every Tuesday and Thursday TD in MAP-Stage thru the end of May
 - For over/under charge code TD 3/29 does have the ISO being allocated to, and starting with TD 3/31, settlements RSEE1 is effective, where ISO is NOT being allocated to
 - Market Simulation: Start May 19, 2022
- **Structured: TBD**
- Structured Scenarios document – Publish 4/22

Next Steps

- The next teleconference is scheduled on April 21 at 1400 PDT

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

Market Simulation Issue Management

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

Independent Releases 2022 Communication Plan

- **Schedule**

| | |
|--|--|
| <i>Monday</i> April 11, 18, 25 May 2, 9, 16 | <i>Thursday</i> April 7, 14, 21, 28 May 5, 12, 19 |
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- **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

Independent Releases 2022 Market Simulation Settlements Calendar

| California ISO | | Spring 2022 Market Sim Calendar (MAP STAGE) April 4, 2022 through May 20, 2022 | | | | | |
|----------------|-----------|---|---|---|---|---|---|
| Calendar Day | Day | CMRI T+1B | Submit Meter Data by T+2B 10:00 for Initial T+9B | Publish Initial Statement T+5B T+9B | Submit Meter Data by T+5B 18:00 for Recalc T+70B | Publish Recalc Statement T+8B T+70B | Publish Market Invoice |
| 04-Apr-22 | Monday | | | | | | |
| 05-Apr-22 | Tuesday | | | | | | |
| 06-Apr-22 | Wednesday | 5-Apr | | | | | |
| 07-Apr-22 | Thursday | | 5-Apr | | | | |
| 08-Apr-22 | Friday | 7-Apr | | | | | |
| 09-Apr-22 | Saturday | | | | | | |
| 10-Apr-22 | Sunday | | | | | | |
| 11-Apr-22 | Monday | | 7-Apr | | | | |
| 12-Apr-22 | Tuesday | | | 5-Apr | 5-Apr | | |
| 13-Apr-22 | Wednesday | 12-Apr | | | | | |
| 14-Apr-22 | Thursday | | 12-Apr | 7-Apr | 7-Apr | | |
| 15-Apr-22 | Friday | 14-Apr | | Monthly Initial 05-Apr - 07-Apr | | 5-Apr | Daily Initial 05-Apr - 07-Apr; Monthly Initial 05-Apr - 07-Apr |
| 16-Apr-22 | Saturday | | | | | | |
| 17-Apr-22 | Sunday | | | | | | |
| 18-Apr-22 | Monday | | 14-Apr | | | | |
| 19-Apr-22 | Tuesday | | | 12-Apr | 12-Apr | 7-Apr | |
| 20-Apr-22 | Wednesday | 19-Apr | | | | Monthly Recalc 05-Apr - 07-Apr | Daily Recalc 05-Apr - 07-Apr; Monthly Recalc 05-Apr - 07-Apr |
| 21-Apr-22 | Thursday | | 19-Apr | 14-Apr | 14-Apr | | |
| 22-Apr-22 | Friday | 21-Apr | | Monthly Initial 12-Apr - 14-Apr | | 12-Apr | Daily Initial 12-Apr - 14-Apr; Monthly Initial 12-Apr - 14-Apr |
| 23-Apr-22 | Saturday | | | | | | |
| 24-Apr-22 | Sunday | | | | | | |
| 25-Apr-22 | Monday | | 21-Apr | | | | |
| 26-Apr-22 | Tuesday | | | 19-Apr | 19-Apr | 14-Apr | |
| 27-Apr-22 | Wednesday | 26-Apr | | | | Monthly Recalc 12-Apr - 14-Apr | Daily Recalc 12-Apr - 14-Apr; Monthly Recalc 12-Apr - 14-Apr |
| 28-Apr-22 | Thursday | | 26-Apr | 21-Apr | 21-Apr | | |
| 29-Apr-22 | Friday | 28-Apr | | Monthly Initial 19-Apr - 21-Apr | | 19-Apr | Daily Initial 19-Apr - 21-Apr; Monthly Initial 19-Apr - 21-Apr |
| 30-Apr-22 | Saturday | | | | | | |
| 01-May-22 | Sunday | | | | | | |
| 02-May-22 | Monday | | 28-Apr | | | | |
| 03-May-22 | Tuesday | | | | | 21-Apr; Monthly Recalc 19-Apr - 21-Apr | Daily Recalc 19-Apr - 21-Apr; Monthly Recalc 19-Apr - 21-Apr |
| 04-May-22 | Wednesday | 3-May | | 26-Apr | 26-Apr | | |
| 05-May-22 | Thursday | | 3-May | 28-Apr | 28-Apr | | |
| 06-May-22 | Friday | 5-May | | Monthly Initial 26-Apr - 28-Apr | | 26-Apr | Daily Initial 26-Apr - 28-Apr; Monthly Initial 26-Apr - 28-Apr |
| 07-May-22 | Saturday | | | | | | |
| 08-May-22 | Sunday | | | | | | |
| 09-May-22 | Monday | | 5-May | | | | |

Market Simulation Settlements Calendar Independent Releases 2022 :
<https://www.caiso.com/Documents/MarketSimulationSettlementsCalendar-IndependentReleases2022.pdf>