



Market Simulation – Fall 2018 Release

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Sr. Change & Release Planner

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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

- Fall 2018 Release MAP Stage Availability
- Fall 2018 Release Market Simulation Initiatives & Timelines
- Initiatives
 - Commitment Cost Enhancements Phase 3
 - Energy Storage & Distributed Energy Resources Phase 2
 - Settlements Performance Improvements
 - Generator Contingency & Remedial Action Scheme Modeling
 - Congestion Revenue Rights Auction Efficiency – 1A
 - Energy Imbalance Market Enhancements 2018
 - Regional Integration & EIM Green House Gas Compliance
- Environment Data
- Known Issues
- Next Steps

Fall 2018 Release MAP Stage Availability

- Refer to MAP Stage portal <https://portalmap.caiso.com> for system availability information
- Current MAP Stage Scheduled Maintenance
 - None
- Upcoming MAP Stage Scheduled Maintenance
 - CMRI: 9/5 - 9/12
 - CRR: 9/10-9/17
 - OASIS: 9/17
- MAP Stage Weekly Maintenance Window
 - Monday 0700 PT thru Tuesday 0900 PT

Fall 2018 Release Market Simulation Initiatives & Timelines

| <u>Fall 2018 Release Initiatives</u> | <u>Start Date</u> | <u>Start Date (Trade Date)</u> | <u>End Date</u> | <u>Structured Simulation Start (Trade Date)</u> | <u>Expected Participation</u> |
|---|-------------------|--------------------------------|-----------------|---|--|
| Fall 2018 Release Market Simulation | 8/20 | 8/20 | 10/12 | 9/5 | |
| Commitment Cost Enhancements Phase 3 | 8/20 | 8/20 | 10/12 | 9/25 | ISO Market Participants EIM Market Participants |
| ESDER Phase 2 | 8/20 | 8/20 | 10/12 | 9/5 | ISO Market Participants EIM Market Participants |
| Settlements Performance Improvements | 8/20 | 8/20 | 10/12 | 9/5 | ISO Market Participants EIM Market Participants |
| Generator Contingency and RAS Modeling | 9/17 | 9/17 | 10/12 | 9/26 | ISO Market Participants EIM Market Participants |
| CRR Auction Efficiency – 1A | 9/17 | 9/17 | 10/12 | 9/26 | ISO Market Participants |
| EIM Enhancements 2018 | 9/17 | 9/17 | 10/12 | 9/26 | EIM Market Participants |
| Green House Gas Enhancements for EIM | 9/17 | 9/17 | 10/12 | 9/18 | EIM Market Participants |

***Post-Structured Scenario Settlement Validation Period 10/13-10/31**

Market Simulation Plan:

<http://www.caiso.com/Documents/MarketSimulationPlan-Fall2018Release.pdf>

Commitment Cost Enhancements Phase 3

- **Timeline:** August 20 – October 12
- **Structured:** September 25 – October 12
- **Market Simulation Overview Timeline & MP Preparation**
 - ✓ **Thursday, 9/6: Deadline for MPs to submit ULPDT in MAP-Stage.**
 - ✓ 9/6-9/7: ISO to process the submitted ULPDTs. In MAP Stage, ISO will approve all ULPDTs for market simulation purposes only
 - ✓ 9/10: webinar to discuss CCE3 features and answer questions about the CCE3 changes
 - 9/12: CMRI reports available in MAP Stage for connectivity testing
 - 9/17-9/21: ISO to run opportunity cost calculation for October 2018
 - 9/25: ISO publishes in CMRI the
 - Actual usage of use limit type for records submitted into MAP Stage
 - Opportunity cost adders viewable in CMRI
 - 10/1: Opportunity costs available in SIBR for trade date 10/1

Commitment Cost Enhancements Phase 3 (continued)

CMRI queries for data must be entered in a specific way (descriptions below) for data to be returned.

Actual Limitation Values

- API query and DocAttach API query must be for Start Date: MM/01/YYYY End Date: MM+1/1/YYYY. Mid-month queries will not return data.
 - Example
 - Input Start date as 6/1/2018 and End date as 7/1/2018 **Data is returned.**
 - Input Start date as 6/1/2018 and End date as 6/02/2018 **Data is not returned.**
 - Input Start date as 6/1/2018 and End date as 6/30/2018 **Data is not returned.**
- UI query must be MM/01/YYYY. Mid-month queries will not return data.
 - Example
 - Input Start date as 6/1/2018. **Data is returned.**
 - Input Start date as 6/8/2018. **Data is not returned.**

Resource Opportunity Costs

- API query and DocAttach API query must be for Start Date: MM/01/YYYY End Date: MM+1/1/YYYY. Mid-month queries will not return data.
 - Example
 - Input Start date as 6/1/2018 and End date as 7/1/2018 **Data is returned.**
 - Input Start date as 6/1/2018 and End date as 6/02/2018 **Data is not returned.**
 - Input Start date as 6/1/2018 and End date as 6/30/2018 **Data is not returned.**
- UI query for monthly data must be MM/01/YYYY. Mid-month queries will not return data.
 - Example
 - Input Start date as 6/1/2018. **Data is returned.**
 - Input Start date as 6/8/2018. **Data is not returned.**
- Note: UI query for daily data works as expected

Energy Storage & Distributed Energy Resources

Phase 2

- **Timeline:** August 20 – October 12
- **Structured:** September 5 – October 12
- **MP Market Simulation Preparation Timeline**
 - ✓ 8/17: Deadline for MPs to request which of the 7 baselines they would like to see in market simulation for ISO to configure
 - ✓ 8/20-8/24: ISO to process the submitted requests for baselines
 - ✓ 8/27: MPs able to see processed baselines in their picklists
 - ✓ 8/27: MPs able to start registering resources using these baselines*
 - ✓ 8/28: first day any resource registrations will be effective**

*In MAP Stage, no UCD/LSE approval necessary for resource registrations to become effective

**In MAP Stage, resource registrations take effect one business day after submission

Settlements Performance Improvements

- **Timeline:** August 20 – October 12
- **Structured:** September 5 – October 12

Generator Contingency & Remedial Action Scheme Modeling

- **Timeline:** September 17 – October 12
- **Structured:** September 26 – October 12

Congestion Revenue Rights Auction Efficiency – 1A

- **Timeline:** September 17 – October 12
- **Structured:** September 26 – October 12

Energy Imbalance Market Enhancements 2018

- **Timeline:** September 17 – October 12
- **Structured:** September 26 – October 12

Regional Integration & EIM Green House Gas Compliance

- **Timeline:** September 17 – October 12
- **Structured:** September 18 – October 12

Fall 2018 Release MAP Stage Environment Data

- MAP Stage Bids: Static Data Timelines:
 - DAM bids submitted for T+4 (example: on 9/10 bids are submitted for 9/14)
 - MPs wishing to check and or submit bids for T+1 – T+4) can do so after 7am PT on T. (example T=9/10 - DA bids can be submitted for 9/11, 9/12, 9/13 and if after 7am PT for 9/14)
 - In the example no seeded bids will over-write submitted bids for T+1, T+2, T+3. For T+4 if the submitted bids come in after 7am they will not be over-written by seeded bids
 - RTM bids are submitted for T+1 at 11am PT (example: on 9/10 static bids are submitted at 11am PT for 9/11)
 - Participants wishing to check and or submit bid for T+1 can do so after 12pm PT
 - no seeded data will over-write submitted bids.
- SIBR RTM functionality for validating submitted bids or generating submitted bid based on DA market results will still apply, typically MAP Stage market results are not published until after 12pm PT.
- All RTM bids are revalidated at 22:10 PT for the next day based on latest commitment cost data received
- Bids must be submitted or verified by participants wanting to validate functionality in SIBR or downstream applications with regard to project expectations

Fall 2018 Release MAP Stage Known Issues

| # | System | Summary | Status | Estimated Fix Date | CIDI # |
|---|------------------|--|--------|--------------------|--------|
| 1 | Settlements SFTP | Not seeing certain SFTP files | Open | TBD | 206903 |
| 2 | MRI-S | ESDER 2 - Unable to submit CBL and TMNT data as hourly | Open | TBD | 207058 |

Next Steps

- The next teleconference is scheduled on Thursday, September 13 at 1400 PT

Reference Slides

ISO Market Simulation Support

- **Hours:** Monday thru Friday 0900-1800 PT
- **Market Simulation Coordinator Phone:** (916) 351-2205
- **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 Fall 2018**” to be reviewed by ISO SMEs

Fall 2018 Release Communication Plan

- **Schedule**

| Monday | Tuesday | Thursday |
|---|----------------|--|
| All occurrences 1400-1500 PT | | |
| August 20, 27 September 10, 17, 24 October 1, 8 | September 4 | August 16 (<i>first</i>), 23, 30 September 6, 13, 20, 27 October 4, 11 (<i>last</i>) |

- **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: 866-528-2256
 - International Dial-in: 216-706-7052
 - Access Code: 202 249 0

Stay Informed

Ways to participate in releases

- Visit the Release Planning page
 - <http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>
- Attend meetings
 - Release Users Group (RUG) bi-weekly meetings
 - Initiative status updates
 - System change updates on independent releases
 - Market Simulation calls
 - Visit the ISO calendar at www.caiso.com for meeting dates and times and add events to your calendar
 - Typically held on Mondays and Thursdays
 - Market sim calls for major releases will be market noticed
 - Market Performance and Planning Forum
 - Bi-monthly review of market performance issues
 - High level discussion of release planning, implementation and new market enhancements

What to look for on the calendar...

Calendar of Meetings, Training and Events

Month: February Year: 2018 Calendar View List View Print View

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|--|--|---|---|---|---|-----|
| | 5 WebbCONF: Market Simulation 2:00pm - 3:00pm | 6 Training: Get to Know the ISO - Day 1 9:00am - 4:00pm WebbCONF: Imbalance Conformance Enhancements 10:00am - 12:00pm WebbCONF: Technical User Group 10:00am - 11:00am | 7 Deadline: Comments - Interconnection Process Enhancements 2018 - Issue Paper and Meeting Discussion Training: Get to Know the ISO - Day 2 9:00am - 4:00pm Meeting: Flexible Resource Adequacy Criteria Must Offer Obligation Phase 2 - Revised Draft Flexible Capacity Framework 10:00am - 4:00pm WebbCONF: Market Settlement User Group 10:00am - 11:00am | 8 Meeting: Audit Committee Teleconference (Executive) 3:30pm - 6:30pm Training: Settlements 101 9:00am - 4:00pm Meeting: 2017-2018 Transmission Planning Process 10:00am - 4:00pm WebbCONF: Market Simulation 2:00pm - 3:00pm | 9 Training: Settlements 201 9:00am - 4:00pm | 10 |
| 11 WebbCONF: Participating Transmission Owner Per Unit Cost Guides 10:30am - 12:00pm WebbCONF: Market Simulation 2:00pm - 3:00pm | 12 Meeting: Congestion Revenue Rights Auction Efficiency 10:00am - 4:00pm WebbCONF: Release User Group 10:00am - 11:00am Call: Energy Imbalance Market Governing Body Teleconference (Executive) 11:30am - 12:30pm | 13 Deadline: Submissions - April 2018 Monthly Resource Adequacy and Supply Plans Call: Congestion Revenue Rights 11:00am - 11:30am WebbCONF: Outage Management System Customer Partnership Group 2:00pm - 3:00pm | 14 Deadline: Comments - Review Transmission Access Charge Structure Straw Proposal and Meeting Discussion Call: Board of Governors Teleconference (General) 3:15pm - 6:00pm Call: Board of Governors Teleconference (Executive) 9:00am - 10:00am Call: Market Update 10:15am - 11:00am WebbCONF: Market Simulation | 15 | 16 | 17 |

Market Sim



Market Sim



Release Users Group (RUG)



THANK YOU

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