



# Market Simulation Call - Fall 2020 Release

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July 27, 2020

# 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 2020 Release Communication Plan
- Fall 2020 Release MAP Stage Availability
- Fall 2020 Release MAP Stage Connectivity Testing
- Fall 2020 Release - System Interface Changes
- Fall 2020 Release Market Simulation Initiatives & Timelines
- Structured Scenario Registration Details
- Initiatives
  - Phase 1
    - Automated Dispatch System (ADS) replacement
    - Commitment costs and default energy bid enhancements
    - Dispatch operating target tariff clarification
    - Energy imbalance market enhancements 2020
    - Energy storage and distributed energy resources phase 3
    - FERC Order No. 841 requested adjustments
    - Flexible ramping product refinements
    - Commitment cost enhancements tariff clarifications
  - Phase 2
    - Market settlement timeline transformation
    - Excess behind the meter production
- Fall 2020 Release - Market Simulation Overview
- 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 2020**” to be reviewed by ISO SMEs

# Fall 2020 Release Communication Plan

- **Schedule**

<b><i>Monday</i></b> July 27 August 3, 10, 17, 24, 31 September 14	<b><i>Tuesday</i></b> September 8	<b><i>Thursday</i></b> July 23, 30 August 6, 13, 20, 27 September 3, 10, 17
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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: 866-528-2256
    - International Dial-in: 216-706-7052
    - Access Code: 202 249 0

# Fall 2020 Release MAP Stage Availability

- Refer to MAP Stage portal <https://portalmap.caiso.com> for system availability information
- Current MAP Stage Scheduled Maintenance
  - DRRS API: Now available 7/20
  - DRRS UI: Now available 7/27
  - ADS UI/API: Now available 7/27
  - MRIS UI/API: 7/27
  - OASIS: 7/27
  - CMRI UI/API: 8/17
  - Master File UI/API: TBD
  - ALFS API: TBD
- MAP Stage Weekly Maintenance Window
  - Friday

# Fall 2020 Release MAP Stage Connectivity Testing

- **Timeline Phase 1: July 27 – August 10**
- **Timeline Phase 2: July 27 – August 10**



# Fall 2020 Release - System Interface Changes

ADS				
Project	Change Type	Summary	Technical Specifications	MAP Stage
N/A	Decom	Decommission of deprecated versions	v8.1.0	7/27/20
ADS Replacement DOTTC	Modify	APIWebService v8 APIResponseWebService v8	v8.1.0	7/27/20

DRRS				
Project	Change Type	Summary	Technical Specifications	MAP Stage
ESDER3B	Modify	SubmitDRLocations_DRRSv2_AP	v3.2	7/20/20
		SubmitDRLocations_DRRSv2_DocAttach_AP		
		SubmitDRRegistrations_DRRSv2_AP		
		SubmitDRRegistrations_DRRSv2_DocAttach_AP		
		RetrieveDRLocations_DRRSv2_AP		
		RetrieveDRRegistrations_DRRSv2_AP		
		RetrieveDRLocations_DRRSv2_DocAttach_AP		

MRI-S				
Project	Change Type	Summary	Technical Specifications	MAP Stage
EBTMP	Modify	For: - MRIS Meter: Submit Meter & - MRIS Meter: Retrieve Meter  additionally include EBtMP measurement type values (as negative load)  both Gross Load and EBtMP meter data would associate with same Load Resource ID	v2.5  Page 9	7/27/20

# Fall 2020 Release - System Interface Changes

Master File					
Project	Change	Change Type	Summary	Technical Specifications	MAP Stage
ESDER3B	Add enumeration to GRDT: <a href="#">DR_TYPE</a> of <a href="#">PDR_LSR</a>	Modify	RetrieveGeneratorRDT_MFRDv5	<b>v6.2</b>	TBD
FERC841 RA	New GRDT attribute: <a href="#">Apply Wholesale Charge</a>		RetrieveGeneratorRDT_MFRDv5_DocAttach		
EIM2020	New GRDT attribute: <a href="#">Meter Data Interval</a>		SubmitGeneratorRDT_MFRDv5		
Other	Remove from GRDT: <a href="#">MIN_DISP_LEVEL</a>		SubmitGeneratorRDT_MFRDv5_DocAttach		
CCE Tariff	New GRDT attribute: <a href="#">Run of River</a>		<a href="#">GRDT 14.0</a>		
Slow DR	New GRDT attribute: <a href="#">Slow DR</a>				

<https://developer.caiso.com>

# Fall 2020 Release - System Interface Changes

CMRI				
Project	Change Type	Summary	Technical Specifications	MAP Stage
N/A	Decom	Decommission of deprecated versions	v3.9.6	8/17/20
EIM2020	New	RetrieveEIMInfeasibility_CMRIv1_AP RetrieveEIMInfeasibility_CMRIv1_DocAttach_AP	v3.9.6	8/17/20
EIM2020	New	RetrieveLoadConforming_CMRIv1_AP RetrieveLoadConforming_CMRIv1_DocAttach_AP	v3.9.6	8/17/20
EIM2020	New	Available Balance Capacity	v3.9.6	8/17/20

OASIS				
Project	Change Type	Summary	Technical Specifications	MAP Stage
N/A	Decom	Decommission of deprecated versions	v5.1.14	7/27/20
EBTMP	New	ENE_EBTMP_PERF_DATA	v5.1.14	7/27/20

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# Fall 2020 Release Market Simulation Initiatives & Timelines

<b>Fall 2020 Release Initiatives</b>	<b>Start Date</b>	<b>Start Date (Trade Date)</b>	<b>End Date</b>	<b>Structured Simulation Start (Trade Date)</b>
<b>Fall 2020 Release Market Simulation Phase 1</b>	07/27/20	07/28/20	09/04/20	08/11/20
Automated Dispatch System (ADS) replacement				08/11/20
Commitment costs and default energy bid enhancements				NA
Dispatch operating target tariff clarification				08/12/20
Energy imbalance market enhancements 2020				08/19/20
Energy storage and distributed energy resources phase 3				08/18/20
FERC Order No. 841 requested adjustments				08/12/20
Flexible ramping product refinements				08/19/20
Commitment cost enhancements tariff clarifications				NA
<b>Fall 2020 Release Market Simulation Phase 2</b>	07/27/20	07/28/20	09/18/20	08/25/20
Market settlement timeline transformation				08/25/20
Excess behind the meter production				08/25/20

## Market Simulation Plan:

<http://www.aiso.com/Documents/MarketSimulationPlan-Fall2020Release.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](mailto:MarketSim@caiso.com) mailbox.

Date of registration July 3, 2020.

We will do our best to accommodate for late registration

# Automated Dispatch System (ADS) replacement

- **Timeline:** July 27 – September 04
- **Structured:** August 11

Structured Scenarios document -

<http://www.caiso.com/Documents/MarketSimulationScenarios-ADSReplacement.pdf>

# Dispatch operating target tariff clarification

- **Timeline:** July 27 – September 04
- **Structured:** August 12

Structured Scenarios document -

<http://www.caiso.com/Documents/MarketSimulationScenarios-DispatchOperatingTargetTariffClarification.pdf>

# Energy imbalance market enhancements 2020

- **Timeline:** July 27 – September 04
- **Structured:** August 19

Structured Scenarios document -

<http://www.caiso.com/Documents/MarketSimulationScenariosEnergyImbalanceMarket2020Enhancements.pdf>



# Energy storage and distributed energy resources phase 3

- **Timeline:** July 27 – September 04
- **Structured:** August 18

Structured Scenarios document -

<http://www.caiso.com/Documents/ESDER3MarketSimulationScenariosFall2019.pdf>

# FERC Order No. 841 requested adjustments

- **Timeline:** July 27 – September 04
- **Structured:** August 12

Structured Scenarios document -

<http://www.caiso.com/Documents/FERC841RequestedAdjustmentsMarketSimulationStructuredScenariosFall2020.pdf>

# Flexible ramping product refinements

- **Timeline:** July 27 – September 04
- **Structured:** August 19

Structured Scenarios document -

<http://www.caiso.com/Documents/MarketSimulationScenarios-FRPImprovementsBufferandMin.pdf>

# Commitment Costs and Default Energy Bid Enhancements

- **Timeline:** July 27 – September 04

# Commitment cost enhancements tariff clarifications

- **Timeline:** July 27 – September 04

# Market settlement timeline transformation

- **Timeline:** July 27 – September 18
- **Structured:** August 25
- **Note:**
  - MSTT cutover TD 8/24/20 (Corresponds to Production TD 1/1/21)
  - Phase 2 (MSTT, EBTMP) Structured Scenarios - first Settling TD 8/25

Structured Scenarios document -

<http://www.caiso.com/Documents/MarketSimulationScenariosMarketSettlementTimeline.pdf>

## Excess behind the meter production

- **Timeline:** July 27 – September 18
- **Structured:** August 25
- **Note:**
  - MSTT cutover TD 8/24/20 (Corresponds to Production TD 1/1/21)
  - Phase 2 (MSTT, EBTMP) Structured Scenarios - first Settling TD 8/25

Structured Scenarios document -

<http://www.caiso.com/Documents/MarketSimulationScenariosExcessBehindtheMeterProduction.pdf>

# Fall 2020 Release - Market Simulation Overview

Date	ISO	Market Participants
5/29	Publish Structured Scenarios Set 1, CGs, Tech Specs	Review Structured Scenarios Set 1, CGs, Tech Specs
6/12	Publish Structured Scenarios Set 2	Review Structured Scenarios Set 2
6/16	RUG updates	Provide scenario feedback for Set 1
6/18	Code Implementation & Environment Setup	<ul style="list-style-type: none"> <li>Environment Closure - MF UI &amp; API</li> </ul>
6/29	Code Implementation & Environment Setup	<ul style="list-style-type: none"> <li>Environment Closure (ADS, CMRI, OASIS, MF, DRRS, MRI-S, BAAOP, BSAP, SIBR)</li> <li>Draft Tariffs available</li> </ul>
6/30		Provide scenario feedback for Set 2
7/3		Deadline to register to participate in market simulation
7/6	Code Implementation & Environment Setup	Environment Closure (continued)
7/13	Code Implementation & Environment Setup	Environment Closure (continued)
7/20	Code Implementation & Environment Setup	<ul style="list-style-type: none"> <li>Environment Closure (continued)</li> <li>Mkt Sim Kick-Off Call</li> <li>BPMs available</li> <li>Training</li> </ul>

[Market Simulation Plan](#)

[Market Simulation Settlements Calendar](#)



# Fall 2020 Release - Market Simulation Overview

Wk	Date	ISO	Market Participants	Settlement Timeline - Initial	Settlement Timeline - Recalc
1	7/27	Mkt Sim Readiness Testing	Connectivity		
2	8/3	Mkt Sim Readiness Testing	Connectivity		
3	8/10		Phase 1 Structured Scenarios	Current timeline	
4	8/17		Phase 1 Structured Scenarios	Current timeline	
5	8/24		<ul style="list-style-type: none"> <li>Phase 1 Unstructured Simulation</li> <li>MSTT cutover TD 8/24/20 (Corresponds to Production TD 1/1/21)</li> <li>Phase 2 (MSTT, EBTMP) Structured Scenarios - first Settling TD 8/25</li> </ul>	Current timeline	Current timeline + New MSTT timeline
6	8/31		<ul style="list-style-type: none"> <li>Unstructured Simulation</li> </ul>	Current timeline	Current timeline + New MSTT timeline

Settlements TDs Tue/Wed

Maintenance Friday

[Market Simulation Plan](#)

[Market Simulation Settlements Calendar](#)



# Next Steps

- The next teleconference is scheduled on Thursday, July 30 at 1400 PDT