



# Market Simulation – Fall 2019 Release

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September 3, 2019

# 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

- MAP Stage Availability
- Connectivity Testing
- Fall 2019 Release Market Simulation Initiatives & Timelines
- Scenario Registration Reminder
- Initiatives
  - Phase 1
    - Energy Storage and Distributed Energy Resources Phase 3A
    - RMR and CPM Enhancements
    - Local Market Power Mitigation Enhancements
    - EIM 2019 Enhancements
    - Real-Time Market Neutrality Settlement
    - FERC Order 841 – Energy Storage Resources
  - Phase 2
    - Commitment Costs and Default Energy Bid Enhancements Phase 1
- Next Steps

# Fall 2019 Release MAP Stage Availability

- Refer to MAP Stage portal <https://portalmap.caiso.com> for system availability information
- Current MAP Stage Scheduled Maintenance
  - MRIS API: September 3
  - SIBR/BSAP API: September 3
  - CIRA UI/API: September 3
  - Master File UI/API: September 5
  - CMRI UI/API: September 9
- MAP Stage Weekly Maintenance Window
  - Monday 0700 PT thru Tuesday 0900 PT

# Fall 2019 Release MAP Stage Connectivity Testing

- **Timeline Phase 1:** September 3 – September 13
- **Timeline Phase 2:** October 14 – October 18

# Fall 2019 Release – System Interface Changes

## MF

Project	Change Type	API Service Name & Major Version, Artifacts	Minor Version	RDT	MAP Stage	Technical Specifications
ESDER3A LMPME CCDEBE1	Modify	<a href="#">RetrieveGeneratorRDT_MFRDv4</a> <a href="#">RetrieveGeneratorRDT_MFRDv4_DocAttach</a>	20191001		Sep 3, 2019	<a href="#">5.1</a>
ESDER3A LMPME	Modify	<a href="#">SubmitGeneratorRDT_MFRDv4</a> <a href="#">SubmitGeneratorRDT_MFRDv4_DocAttach</a>	20191001	<a href="#">GRDT v13.0</a>	Sep 3, 2019	<a href="#">5.1</a>

## SIBR/BSAP

System	Project	Change Type	API Service Name & Major Version, Artifacts	MAP Stage	Technical Specifications
SIBR	CCDEBE1	Modify	<a href="#">RetrieveCleanBidSet_SIBRv5</a> <a href="#">RetrieveCleanBidSet_SIBRv5_DocAttach</a>	Oct 14, 2019	<a href="#">v13.1</a>
SIBR	CCDEBE1	Modify	<a href="#">RetrieveCurrentBidResults_SIBRv5</a> <a href="#">RetrieveCurrentBidResults_SIBRv5_DocAttach</a>	Oct 14, 2019	<a href="#">v13.1</a>
SIBR	CCDEBE1	Modify	<a href="#">SubmitRawBidSet_SIBRv5</a> <a href="#">SubmitRawBidSet_SIBRv5_DocAttach</a>	Oct 14, 2019	<a href="#">v13.1</a>
BSAP	EIM 2019	Modify	<a href="#">RetrieveBalancingTestResults_BSAPv2</a> <a href="#">RetrieveBalancingTestResults_BSAPv2_DocAttach</a>	Sep 3, 2019	<a href="#">1.7</a>

# Fall 2019 Release – System Interface Changes

## CMRI

Project	Change Type	UI Change	API Service Name & Major Version, Artifacts	MAP Stage	Technical Specifications
CCDEBE1	Modify	Tab: Default Bids Existing Report: Default Energy Bid Curves	<a href="#">RetrieveDefaultBidCurves_CMRIv2</a> <a href="#">RetrieveDefaultBidCurves_CMRIv2_DocAttach</a>  *8/12/19: Service wsdl files <a href="#">retrieveDefaultBidCurves_v2.wsdl</a> and <a href="#">retrieveDefaultBidCurves_v2_DocAttach.wsdl</a> are updated to refer the correct version of XSD files.  *8/15/19: Note: This will include Publication timestamp in <a href="#">DefaultBidCurve_v2</a>	Oct 14, 2019	<a href="#">3.9.1</a>
LMPME	Modify	Tab: Default Bids Existing Report: Default Commitment Costs	<a href="#">RetrieveExternalDefaultCommitmentCost_CMRIv1</a> <a href="#">RetrieveExternalDefaultCommitmentCost_CMRIv1_DocAttach</a>	Sep 3, 2019	<a href="#">3.9.1</a>
EIM 2019	New	Tab: Energy Imbalance Market New Report: Resource Operating Limits	<a href="#">RetrieveEIMResourceOperatingLimit_CMRIv1</a> <a href="#">RetrieveEIMResourceOperatingLimit_CMRIv1_DocAttach</a>	Sep 3, 2019	<a href="#">3.9.1</a>
EIM 2019	New	Tab: Real-Time New Report: Resource Operating Limits	<a href="#">RetrieveResourceOperatingLimit_CMRIv1</a> <a href="#">RetrieveResourceOperatingLimit_CMRIv1_DocAttach</a>	Sep 3, 2019	<a href="#">3.9.1</a>

## OASIS

Project	Change Type	UI Change	API Service Name & Major Version, Artifacts	MAP Stage	Technical Specifications
EIM 2019	New	Tab: ENERGY New Report: Transmission Loss	<a href="#">ENE_TRANS_LOSS</a>	Sep 3, 2019	<a href="#">5.1.9</a>

# Fall 2019 Release Market Simulation Initiatives & Timelines

<b>Fall 2019 Release Initiatives</b>	<b>Start Date</b>	<b>Start Date (TD)</b>	<b>End Date</b>	<b>Structured Simulation Start (Trade Date)</b>	<b>Expected Participation</b>
<b>Fall 2019 Release Market Simulation Phase 1</b>	09/03/19	09/04/19	10/11/19	09/17/19	
Energy Storage and Distributed Energy Resources (ESDER) Phase 3A					ISO Market Participants EIM Market Participants
Reliability Must-Run (RMR) and Capacity Procurement Mechanism (CPM) Enhancements					ISO Market Participants EIM Market Participants
Local Market Power Mitigation Enhancements (LMPME)					ISO Market Participants EIM Market Participants
Energy Imbalance Market (EIM) Enhancements 2019				N/A	EIM Market Participants
Real-Time (RT) Market Neutrality Settlement				N/A	EIM Market Participants
Federal Energy Regulatory Commission (FERC) Order 841				N/A	ISO Market Participants
<b>Fall 2019 Release Market Simulation Phase 2</b>	10/14/19	10/15/19	11/04/19	N/A	
Commitment Costs and Default Energy Bid Enhancements (CCDEBE) Phase 1				N/A	ISO Market Participants EIM Market Participants

Market Simulation Plan:

<http://www.caiso.com/Documents/MarketSimulationPlan-Fall2019Release.pdf>



# Structured Scenario Registration Reminder

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.

Please submit the information requested below by August 30<sup>th</sup>, 2019.

Structured Scenarios document ESDER -

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

Structured Scenarios document RMR - CPM -

<http://www.caiso.com/Documents/RMR-CPMEnhancementsMarketSimulationScenariosFall2019.pdf>

Structured Scenarios document LMPME -

<http://www.caiso.com/Documents/LMPMEEnhancementsMarketSimulationScenariosFall2019.pdf>

# Energy Storage & Distributed Energy Resources

## Phase 3A

- **Timeline:** September 3 – October 11
- **Structured:** September 16 – September 27

Structured Scenarios document -

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

# Reliability Must-Run and Capacity Procurement Mechanism Enhancements

- **Timeline:** September 3 – October 11
- **Structured:** September 16 – September 27

Structured Scenarios document -

<http://www.aiso.com/Documents/RMR-CPMEnhancementsMarketSimulationScenariosFall2019.pdf>

# Local Market Power Mitigation Enhancements

- **Timeline:** September 3 – October 11
- **Structured:** September 16 – September 27

Structured Scenarios document -

<http://www.caiso.com/Documents/LMPMEenhancementsMarketSimulationScenariosFall2019.pdf>

# Energy Imbalance Market Enhancements 2019

- **Timeline:** September 3 – October 11

# Real-Time Market Neutrality Settlements

- **Timeline:** September 3 – October 11

# FERC Order 841

- **Timeline:** September 3 – October 11

# Commitment Costs and Default Energy Bid Enhancements Phase 1

- **Timeline:** October 14 – November 4



# Next Steps

- The next teleconference is scheduled on Thursday, September 5 at 1400 PPT

# Reference Slides

# Market Simulation Issue Management

- Submit all issues to the CIDI case management system
- CIDI tickets must have “**Functional Environment**” = “**Market Simulation Fall 2019**” to be reviewed by ISO SMEs

# ISO Market Simulation Support

- **Hours:** Monday thru Friday 0900-1800 PPT
- **Market Simulation Coordinator Phone:** (916) 351-2205
- **ISO's 24x7 Service Desk:** (916) 351-2309 (Connectivity – UI or API)
- **Email:** [MarketSim@caiso.com](mailto:MarketSim@caiso.com)

# Market Simulation Issue Management

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# Fall 2019 Release Communication Plan

- **Schedule**

<b><i>Monday</i></b> September 9, 16, 23, 30 October 7, 14, 21, 28	<b><i>Tuesday</i></b> September 3	<b><i>Thursday</i></b> August 29 September 5, 12, 19, 26 October 3, 10, 17, 24, 31
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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