

# Market Simulation – Fall 2019 Release

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November 18, 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
- Fall 2019 Release MAP Stage Data Setup
- Fall 2019 Release Market Simulation Initiatives & Timelines
- External Interface Changes
- Known Issues
- Settlements Calendar
- Initiatives
  - Commitment Costs and Default Energy Bid Enhancements
     Phase 1
- Next Steps



#### Fall 2019 Release MAP Stage Availability

- Refer to MAP Stage portal <a href="https://portalmap.caiso.com">https://portalmap.caiso.com</a> for system availability information
- Current MAP Stage Scheduled Maintenance
  - SIBR November 18 20, 30 minute outage for deployment
- Upcoming MAP Stage Maintenance
  - None
- MAP Stage Weekly Maintenance Window
  - Monday 0700 PT Tuesday 0900 PT



#### Fall 2019 Release MAP Stage Data Setup

 Production data seeding the environment is from November 4<sup>th</sup>, 2019



#### Fall 2019 Release Market Simulation Initiatives & Timelines

Fall 2019 Release Initiatives	Start Date	Start Date (TD)	End Date	Structured Simulation Start (Trade Date)	Expected Participation	<u>Status</u>
Fall 2019 Release Market Simulation Phase 1	09/03/19	09/04/19	10/11/19	09/18/19	<u>I ai ticipation</u>	
Energy Imbalance Market (EIM) Enhancements 2019 (BAAOP)				N/A	EIM Market Participants	Complete
Energy Storage and Distributed Energy Resources (ESDER) Phase 3A				Scenarios Execution TD 9/18	ISO Market Participants  EIM Market Participants	Complete
Federal Energy Regulatory Commission (FERC) Order 841				N/A	ISO Market Participants  EIM Market Participants	Complete
Local Market Power Mitigation Enhancements (LMPME)				Scenarios Execution TD 09/25	ISO Market Participants  EIM Market Participants	Complete
Real-Time (RT) Market Neutrality Settlement	09/25/19	09/25/19		N/A	EIM Market Participants	Complete
Reliability Must-Run (RMR) and Capacity Procurement Mechanism (CPM) Enhancements				Scenarios Execution TD 09/25	ISO Market Participants	Complete
Fall 2019 Release Market Simulation Phase 2	10/14/19	10/21/19	11/04/19	N/A		
Commitment Costs and Default Energy Bid Enhancements (CCDEBE)	10/14/19	11/07/19	11/26/19	N/A	ISO Market Participants EIM Market Participants	In Progress
Energy Imbalance Market (EIM) Enhancements 2019 (BSAP Interface Changes and Reporting Features)				N/A	EIM Market Participants	Complete



### Fall 2019 Release – System Interface Changes

#### **CMRI**

Project	Change Type	UI Change	API Service Name & Major Version, Artifacts	MAP Stage	Technical Specifications
LMPME CCDEBE1	Modify	Tab: Default Bids  Existing Report: Default Energy Bid Curves	RetrieveDefaultBidCurves CMRIv2  RetrieveDefaultBidCurves CMRIv2 DocAttach	LMPME Sep 12, 2019 CCDEBE1 Nov 15, 2019	3.9.3
CCDEBE1	Modify	Tab: Default Bids  Existing Report: Default Commitment Costs	RetrieveExternalDefaultCommitmentCost CMRIv1  RetrieveExternalDefaultCommitmentCost CMRIv1 DocAttach	Nov 15, 2019	3.9.3
EIM 2019	New	Tab: Energy Imbalance Market  New Report: Resource Operating Limits	RetrieveEIMResourceOperatingLimit CMRIv1  RetrieveEIMResourceOperatingLimit CMRIv1 DocAttach	Oct 3, 2019	3.9.3
EIM 2019	New	Tab: Real-Time  New Report: Resource Operating Limits	RetrieveResourceOperatingLimit CMRIv1  RetrieveResourceOperatingLimit CMRIv1 DocAttach	Oct 3, 2019	3.9.3

#### **OASIS**

Project	Change Type	UI Change	API Service Name & Major Version, Artifacts	MAP Stage	Technical Specifications
EIM 2019	New	Tab: ENERGY	ENE TRANS LOSS	Oct 7, 2019	5.1.9
LIW 2019	New	New Report: Transmission Loss	LINE_I MAINS_EOSS	Oct 7, 2019	2.1.3



#### Known Issues -

#	System	Summary	Status	Estimated Fix Date	CIDI#
1	MRI-S	MSG resources settlements statements may not reflect accurately because the MMA Transition Cost functionality is not currently implemented	Open	End of the year	N/A
2	SIBR	UI submit of SUC Adjustment, after submit the display shows blank	Open	To be fixed 11/18 - 11/20	N/A
3	MF	RetrieveGeneratorRDT_MFRDv4 and RetrieveGeneratorRDT_MFRDv4_DocAttach API requests are NOT returning the Additional Bilateral Hub attribute when <resourceid =="" all=""> in the requests.</resourceid>	1	Fixed 11/14	218109
4	SIBR	Energy adjustment submitted for resource with no DEB from RLC rule 31665 invalidates the bid.	Open	To be fixed 11/18 - 11/20	N/A
5	SIBR	Energy adjustment bids not setting the origin (ExAnte or Threshold if exceeding the Threshold price curve.	Open	To be fixed 11/18 - 11/20	N/A
6	SIBR	Energy adjustment bid does not have to match Energy bid curve segments. (not impacting submissions) This is in discussion with vendor.	Open	To be fixed 11/18 - 11/20	N/A
7	SIBR	MSG resources with Energy Adjustment firing content rule 21652 rejecting the bid.	Closed	Fixed 11/13	N/A
8	SIBR	Retrieve of the CleanBid will not show an offer type (ExAnte/Threshold) if submitted. You will see the ExAnte.	Closed	Fixed 11/13	N/A
9	SIBR	SUC adjustments that exceed the Threshold are not showing THRESHOLD as the Origin.	Open	To be fixed 11/21 - 11/26	N/A



#### Settlements Calendar

Calendar Day	Day	CMRI T+1B	Publish Initial Statement T+4B	Submit Meter Data by T+4B 18:00 for Recalc	Publish Recalc Statement T+8B	Publish Market Invoice
18-Nov-19	Monday		12-Nov	12-Nov		
19-Nov-19	Tuesday		Monthly Initial 5-Nov - 12-Nov			
20-Nov-19	Wednesday	19-Nov				
21-Nov-19	Thursday					
22-Nov-19	Friday	21-Nov			12-Nov	
23-Nov-19	Saturday					
24-Nov-19	Sunday					
25-Nov-19	Monday		19-Nov	19-Nov	Monthly Recalc 5-Nov - 12-Nov	
26-Nov-19	Tuesday	25-Nov				
27-Nov-19	Wednesday	26-Nov				
28-Nov-19	Thursday				ISO Holiday	
29-Nov-19	Friday				ISO Holiday	
30-Nov-19	Saturday					
01-Dec-19	Sunday					
02-Dec-19	Monday	_	21-Nov			
03-Dec-19	Tuesday		25-Nov		19-Nov	
04-Dec-19	Wednesday		26-Nov			



# Commitment Costs and Default Energy Bid Enhancements Phase 1

- SIBR Code: Unstructured began November 7
  SIBR functionality available
  - Submit Regular Bids (without Adjustments), MLC, Startup Cost, Energy
  - Submit Adjustments Cost for MLC, Startup, Energy
  - Retrieve All
  - Submission rules (Underlying rules depends on ECIC payloads)
    - Content validated, calculation
- CMRI Code: CMRI UI was available November 13, API was available November 14, unstructured began November 14
- Go Live 12/4
   California ISO

### Next Steps

 The next teleconference is scheduled on Thursday, November 21 at 1400 PPT



#### Reference Slides



#### Structured Scenario Settlements Calendar -

Calendar Day	Day	CMRI T+1B	Publish Initial Statement T+4B	Submit Meter Data by T+4B 18:00 for Recalc	Publish Recalc Statement T+8B	Publish Market Invoice
21-Oct-19	Monday				9-Oct	
22-Oct-19	Tuesday				10-Oct	
23-Oct-19	Wednesday				Monthly Recalc 09- Oct - 10-Oct	Daily Recalc 09-Oct, 10-Oct Monthly Recalc 09-Oct - 10-Oct
24-Oct-19	Thursday	23-Oct				
25-Oct-19	Friday	24-Oct				
26-Oct-19	Saturday					
27-Oct-19	Sunday					
28-Oct-19	Monday					
29-Oct-19	Tuesday		23-Oct			
30-Oct-19	Wednesday		24-Oct			
31-Oct-19	Thursday	30-Oct	Monthly Initial 23-Oct - 24-Oct			Daily Initial 23-Oct, 24-Oct Monthly Initial 23-Oct - 24-Oct
01-Nov-19	Friday					
02-Nov-19	Saturday					
03-Nov-19	Sunday					
04-Nov-19	Monday					
05-Nov-19	Tuesday		30-Oct			
06-Nov-19	Wednesday					
07-Nov-19	Thursday					
08-Nov-19	Friday					



#### Energy Imbalance Market Enhancements 2019

#### • Timeline: September 3 – November 4

■ Re ■ Fle ■ Ell	ransformer Flow – In MAP Stage esource Flex Ramping – In MAP Stage lexible Ramping Sufficiency Results – In MAP Stage IM Area Summary – In MAP Stage TSR Detail – In MAP Stage	Available
	IM Threshold Display and Calculations – In MAP Stage	Available
Reporting Features and BSAP Interface Changes  RT  CN  CN  CN  CN  CN  CN  CN  CN  CN  C	TD Dispatch Control – In MAP Stage  TPD Dispatch Control – In MAP Stage  Diss Transmission OASIS Report  MRI Resource Operating Limits Report  MRI EIM Operating Limits Report  Opy and Modify Base schedule (BSAP) EIM19-BRQ1270  dd retrieve aggregate service for BS Deviation (BSAP) EIM19-BRQ1560	Available



## Energy Storage & Distributed Energy Resources Phase 3A

- Timeline: September 3 October 11
- Structured: September 16 September 27
- Structured Scenarios Execution Date: Trade Date
   September 18
- DRRS Code: Available September 18
- Scenario #3: 15 Min PDR BCR, can be validated on the September 18 Initial Statement.



#### Local Market Power Mitigation Enhancements

- Timeline: September 3 October 11
- Structured: September 16 September 27
- Structured Scenarios Execution Date: Trade Date
   September 25



#### Real-Time Market Neutrality Settlements

Timeline: September 25 – October 11



#### FERC Order 841

Timeline: September 3 – October 11



#### Fall 2019 Release MAP Stage Data Setup

- Production data seeding the environment is from August 27<sup>th</sup>, 2019
- CIRA accepting September and October Supply plans



#### 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: <u>MarketSim@caiso.com</u>



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- Submit all issues to the CIDI case management system
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   SMEs



#### Fall 2019 Release Communication Plan

#### Schedule

Monday	Tuesday	Thursday
September 9, 16, 23, 30	September 3	August 29
October 7, 14, 21, 28,		September 5, 12, 19, 26
November 4, 11, 18, 25		October 3, 10, 17, 24, 31
		November 7, 14, 21

#### Connection Information

#### Web Conference Information

• Web Address: <a href="https://caiso.webex.com/meet/MarketSim">https://caiso.webex.com/meet/MarketSim</a>

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

