

Market Simulation Call - Independent 2020 Release

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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

- MAP Stage & Stage Availability
- Independent 2020 Releases Communication Plan
- Independent 2020 Releases Market Simulation Initiatives & Timelines
- Market Simulation Initiatives
- OMS Enhancements
- ADS Phase 3: Activation of New Features
- Next Steps



MAP Stage Availability

- Refer to MAP Stage portal https://portalmap.caiso.com for system availability information
- Current MAP Stage Maintenance
 - None
- Upcoming MAP Stage Maintenance
 - 11/23: CMRI UI/API brief interruption
- MAP Stage Weekly Maintenance Window
 - Friday



Independent 2020 Releases Communication Plan

Schedule

Monday	Thursday	
Sep 28,		
Oct 5,12,19, 26	Oct 1,8,15, 22, 29	
Nov 2, 9, 16, 23, 30	Nov 5, 12, 19	
Dec 7,14	Dec 3,10,17	

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



Independent 2020 Releases Market Simulation Initiatives & Timelines

Independent 2020 Release Initiatives	Start Date	End Date	Structured Simulation Start (Trade Date)
Independent 2020 Release Market Simulation			
FRP Improvements - Buffer and Min	10/13/20	10/28/20	10/14/20 (Complete)
Energy Imbalance Market (EIM) Enhancements 2020 - CMRI	11/23/20	12/07/20	N/A
Hybrid Resources - Phase 1	10/26/20	11/13/20	N/A
Commitment Costs and Default Energy Bid Enhancements Phase 1	7/27/20 12/01/20	12/18/20	N/A
Nodal Pricing Model	10/6/20	11/13/20	10/20/20 -10/22/20 (Complete)
Intertie Deviation Settlement	12/1/20	12/18/20	12/1/20
Symmetrical Wheeling	11/17/20	12/18/20	
Settlements Q4/Winter Release	10/6/20	11/13/20	

Market Simulation Settlements Calendar:

http://www.caiso.com/Documents/MarketSimulationSettlementsCalendar-IndependentWinter2020Release.pdf



Intertie Deviation Settlement

- Timeline: December 1 December 18
- Structured : December 1
- Please use https://demo.caiso.tag.oati.com/ to submit tags in MapStage environment
- Structured Scenarios document -http://www.caiso.com/Documents/MarketSimulationScenariosIntertieDeviationSettle-ment.pdf

Symmetrical Wheeling

- Timeline: November 17 December 15
- Business Requirements Specification -http://www.caiso.com/Documents/BusinessRequirementsSpecification_Symmetrical-SettlementForWheelingThroughEimBAAs.pdf
- Unstructured Scenarios document - http://www.caiso.com/Documents/MarketSimulationScenariosSymmetricalSettlementor- <u>tForWheelingThroughEimBAAs.pdf</u>



- Hybrid Resources Phase 1
 - Timeline: October 26 November 13
 - Business Requirements Specification -http://www.caiso.com/Documents/BusinessRequirementsSpecification-HybridResourcesPhase1.pdf
 - New flag will be in ISO's Master File and not in the RDT
- Commitment Costs and Default Energy Bid Enhancements
 - Timeline: July 27 December 18; December 1 December 18 for new SIBR rules in market simulation
 - Training
 - http://www.caiso.com/Documents/Presentation-CommitmentCosts-DefaultEnergyBidEnhancements.pdf
 - SIBR business rules, release notes published 10/27
 - http://www.caiso.com/Documents/SIBRBusinessRulesforBiddingv11042Post.xlsx
 - http://www.caiso.com/Documents/SIBRReleaseNotesRulesFall2020.pdf



Nodal Pricing Model

Timeline: October 6 – November 13

Structured: October 20 - October 22

Structured Scenarios document - http://www.caiso.com/Documents/NPM_structured_mktsim-Reviewed.pdf

Project Info	Details/Date
Reference	Reference – ISO market notice from Dec 18, 2019 – see: Stay Informed\Meetings and Events\Miscellaneous stakeholder meetings\Previous Meetings\2019 meetings\PacifiCorp nodal pricing model service informational call - Dec 18,2019 or http://www.caiso.com/Pages/documentsbygroup.aspx?GroupID=E8304346-54B9-4473-9E45-9C282AAD1340
	Reference - NPM FERC filing http://www.caiso.com/Documents/Dec20-2019_NodalPricingModelAgmt_CAISO-PacifiCorp_ER20-664.pdf#search=NPM
Excerpt from the	"The California ISO is hosting an informational stakeholder call on Dec. 18, 2019, to discuss an agreement that it intends to file with Federal Energy Regulatory Commission (FERC) that will provide PacifiCorp with an advisory nodal pricing model (NPM) service. Information related to this effort available on the ISO website at http://www.caiso.com/informed/Pages/MeetingsEvents/MiscellaneousStakeholderMeetings/Default.aspx .
market notice:	This service will produce separate advisory day-ahead nodal pricing results for locations within PacifiCorp's balancing authority areas, without a financial settlement or impact to the ISO's day-ahead market. PacifiCorp will pay the ISO's estimated cost to provide the service. PacifiCorp plans to use the NPM solution results as the basis for its power cost allocation among the states within which it provides retail electric service, consistent with the recently filed inter-jurisdictional cost allocation agreement."

Milestone Type	Milestone Name	Dates	Status
Tariff	FERC Approval	Feb 28, 2020	✓
Config Guides	Publish Config Guide	Aug 10, 2020	✓
Market Sim	Market Sim Window	Oct 06, 2020 - Nov 13, 2020	
Production Activation	Day Ahead Nodal Pricing Model	Jan 15, 2021	



- FRP Improvement Buffer and Min
 - Timeline: October 13 October 28
 - Structured Scenarios document -http://www.caiso.com/Documents/MarketSimulationScenarios-FRPImprovementsBufferandMin.pdf
- Energy Imbalance Market (EIM) Enhancements 2020
 - Timeline: November 23 December 7 (CMRI)
 - BAAOP & BSAP currently available in MAP-Stage
 - Unstructured Scenarios document
 http://www.caiso.com/Documents/MarketSimulationScenariosEnergyImbalanc
 eMarket2020Enhancements.pdf



Settlements Q4/Winter Release

Release Scope:

- Day Ahead Nodal (NPM project)
- Intertie Deviation Settlement (IDS)
- EIM Enhancement: Symmetrical Wheeling
- Production defects as noted in release component SUG email

Release Milestones as follows:

- 1st draft technical documentation posted = 8/10
- 1st draft configuration output file + initial release component summary posted = 8/25
- 2nd draft configuration output file + 2nd draft tech docs + updated release component summary posted = 9/14
- 3rd draft configuration output file (pre market sim) posted = 10/8
- Unplanned draft configuration output file posted 10/29
 - IDS calc granularity change from MW to MWh
- Deployed to MAP-Stage = 10/6
- Pre-prod configuration output file + release artifacts to post 12/9
- Production deployment 12/16

Winter 2020 settlements release draft settlements technical documentation:

http://www.caiso.com/Pages/documentsbygroup.aspx?GroupID=EF90CE68-D8D0-43F7-8052-04FBE1D0825B



Known Issues

#	System	Summary	Status	Estimated Fix Date
1	ADS	Fall Forward didn't refresh connection (CIDI 231456)	In progress	
2	ADS	RT DOT no longer showing (CIDI 231483)	This feature was disabled intentionally and will be available after the new patch	
3	OMS	OMS Discovery Date error for In_Ok and Out_Ok requests	Defect	



OMS Roadmap for 2020

Release	Major Changes	Participant	MAPStage	Production
October	Remove defaulting discovery date - For retro-active outages submit discovery date Handle no discovery date if not previously submitted.	All	√ 11/05/2020	1/11/2021
	Aggregate Resource Outage retrieve results changes - Handle receiving only parent and impacted children.	All		
	Transmission Retrieve Changes - If moving to new version (= 10012020), consume new XSD and handle receipt of multiple change requests.	All		
	Retrieve Resource/Transmission outage change request - Limiting to 50 - Disable querying with participant ID & Date Range Query by Outage ID, Change request ID and Equipment ID/Resource ID	All		Page 13
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2020 - System Interface Changes - OMS

OMS					
Project	Service	Summary	Tech Spec	MAP Stage	Production
N/A	RetrieveResourceOutageChangeRequest_OMSv2_AP & DocAttach RetrieveResourceOutageChangeRequest_OMSv2_DocA ttach_AP RetrieveResourceOutageChangeRequest_OMSv3_AP RetrieveResourceOutageChangeRequest_OMSv3_DocA ttach_AP RetrieveTransmissionOutageChangeRequest_OMSv2_A P RetrieveTransmissionOutageChangeRequest_OMSv2_A P RetrieveTransmissionOutageChangeRequest_OMSv2_D ocAttach_AP RetrieveTransmissionOutageChangeRequest_OMSv3_A P RetrieveTransmissionOutageChangeRequest_OMSv3_A P RetrieveTransmissionOutageChangeRequest_OMSv3_D ocAttach_AP	 Performance Improvements: Retrieve up to 50 outages by querying on outage ID) Retrieve based on Change Request ID Retrieve based on Equipment ID Removed capability of querying by participant ID Recommended use to sync data 	✓ 8/11/20, v2.1	√ 11/5/2020	1/11/2021
N/A		WebOMS system will not default the discovery date	✓ 8/11/20, v2.1	✓ 11/5/2020	1/11/2021
N/A	SubmitResourceOutage_OMSv2_AP SubmitResourceOutage_OMSv2_DocAttach_AP SubmitResourceOutage_OMSv3_AP SubmitResourceOutage_OMSv3_DocAttach_AP	 Changes to aggregate resource outage submission for performance improvement Submit de-rate for parent resource (required) and only the impacted child resources Retrieve results will not be include (for both v2 and v3 services) child resources that have no curtailment Parent resource availability points need not match with child resources' but will remain within the overall outage start and end date span Child resource outages can be added to existing outage if the outage has not commenced UI display and retrieve results for historical outages will be modified to support this model Changes are being done to enhance webOMS performance 	▼ 8/11/20, v2.1	√ 11/5/2020	1/11/2021

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https://developer.caiso.com



ADS Phase 3: Activation of New Features

- √ 10/20: ADS Phase 1: Network
- √ 10/20: ADS Phase 2: New ADS UI, API v8 available
- √ 10/30: Close Stage, End Parallel Operations
 - MAP-Stage remains available with active features from now on
- > 12/16: Activation of New Features
 - Only available on New ADS UI, API v8
 - DOTT
 - Unannounced AS Test
 - RTCD Commitment
 - Follow DOT Flag
 - Operating Instructions
- 2/1/21: ADS Phase 4: Decommission of Old ADS client, API v6



ADS Phase 3: Activation of New Features

- > 12/16: Activation of New Features
 - Only available on New ADS UI, API v8
 - ISO invites customers to leverage ISO Assisted Customer Cutover lines
 - To transition to new ADS UI, API v8
 - To report transition plans, progress, issues
 - By phone: call 1-866-528-2256, access code: 1465216
 - Dates: 11/4, 11/11, 11/18, skip 11/26 due to holiday, 12/2, 12/9 and 12/16
 - Time: 1300-1400 PT
 - Recommendation
 - Run ADS Client and new ADS UI in parallel for validation
 - Cutover to API v8 now, as it provides same functionality as v7



Next Steps

 The next teleconference is scheduled on Monday, November 30th at 1400 PDT



Reference Slides



Independent 2020 Releases 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 October 9, 2020.

We will do our best to accommodate for late registration



Market Simulation Issue Management

- Submit all issues to the CIDI case management system
- CIDI tickets must have "Functional Environment" =
 "Market Simulation Independent 2020" to be reviewed
 by ISO SMEs



ISO Market Simulation Support

- Hours: Monday thru Friday 0900-1800 PDT
- ISO's 24x7 Service Desk: (916) 351-2309 (Connectivity UI or API)
 - Issues called in after hours will be worked on during the next business day
- Email: MarketSim@caiso.com

