

# **Market Simulation**

Trang Vo Release Manager

September 19, 2024

#### Overview

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- Market Simulation MAP Stage Availability
- Market Simulation Activities
- Market Simulation Settlements
- Market Simulation Initiatives Current
  - Settlements Fall 2024 Release
  - FERC 2222 Distributed Curtailment Resources
  - User Interface (UI) Framework Upgrades
- Market Simulation Initiatives Upcoming
  - Transmission Service & Market Scheduling Priorities Phase 2 Track 3 Resale Scope (TSMSP2T3)\*
  - Congestion Revenue Rights (CRR) System Upgrade
  - Highest Emergency Rating (HER)
  - Transmission Exchange Agreement (TEA)
  - Western Energy Imbalance (WEIM) Enhancements
  - Hybrid Resources Phase 2C (HR2C) RIMS\*
- Next Steps
- References



## Market Simulation Communication

	Monday	Tuesday	Wednesday	Thursday	Friday
September	√ 2	√ 3	√ 4	√ 5	√ 6
	<b>√</b> 9	<b>√</b> 10	<b>√</b> 11	<b>√ 12</b>	<b>√</b> 13
	<b>√</b> 16	<b>√ 17</b> *	√ 18	19*	20
	23 (10AM call)	24*	25	26*	27
	30				
October		1*	2	3*	4
	7	8*	9	10*	11
	14	15	16	17	18
	21	22	23	24	25
	28	29	30	31	

**ISO Closure** 

Market Simulation Forum

\*Settlements Trade Date



## Market Simulation MAP Stage Availability

MAP Stage weekly maintenance window is Friday\*

System	UI	API	Comments
ADS			
ALFS	NA		
BAAOP	New UI framework		
BSAP	New UI framework		
CIRA			
CMRI			
CRR			
DRRS			
MF			
OASIS			
OMS			
PLC		NA	
RCBSAP	New UI framework		
RIMS		NA	
SIBR	New UI framework		
MRIS			
TR		NA	
webWheel		NA	

AVAILABLE MAINTENANCE

nia ISO

\*Maintenance may also occur after 1600 PT on other days and may deviate from the weekly maintenance window as necessary

## Market Simulation Activities

Initiative	Market Simulation	Comments	Production
Settlements Fall 2024 Release	9/16 – 10/14: Unstructured	Leverage settlements TDs	11/01/24
FERC 2222	9/16 – 10/11: Market Simulation Window 9/16 – 9/27: Connectivity 9/30 – 10/11: Unstructured Market Simulation	No settlements impacts	11/01/24
UI Framework Upgrades	Unstructured – BAAOP, SIBR, BSAP, RCBSAP available	No settlements impacts See UI known issues	Various: September thru October  Additional Uls may go beyond October
TSMSP2T3 – Resale Scope	10/7 – 10/21	TSMSP2T1: Settlements fix will be in sample statements 9/16-10/14 (Production will be retroactive to 6/1/24)  TSMSP2T3: Settlements will be included in the 10/7-10/14 statements	11/01/24
TEA	February 2025: Unstructured		2025
HER	November: Unstructured	No settlements impacts	Q4 2024 - 2025
CRR System Upgrade	10/28 – 11/1: Connectivity 11/4: Start Market Simulation - 2 weeks Structured - 3 weeks Unstructured		01/27/25 to 01/30/25; March 2025 is first month with processes fully on the new system
WEIM Enhancements - WEIM Commitment Override – BAAOP UI	October: Unstructured	No settlements impacts	Q4 2024
HR2C RIMS	November: Unstructured (Shapefiles)	No settlements impacts	Q4 2024



**ISO PUBLIC** 

## Market Simulation Settlements Calendar

	VICAII		01111011	ation Cotti		arorraar	
Calendar Day	Day	CMRI T+1B	Submit Meter Data by T+2B 10:00 for Initial	Publish Initial Statement T+5B	Submit Meter Data by T+5B 18:00 for Recalc	Publish Recalc Statement T+8B	Publish Market Invoice
			T+9B	T+9B	T+70B	T+70B	
17-Sep-24	Tuesday						
18-Sep-24	Wednesday	17-Sep					
19-Sep-24	Thursday		17-Sep				
20-Sep-24	Friday	19-Sep					
23-Sep-24	Monday		19-Sep				
24-Sep-24	Tuesday			17-Sep	17-Sep		
25-Sep-24	Wednesday	24-Sep					
26-Sep-24	Thursday		24-Sep	19-Sep	19-Sep		
27-Sep-24	Friday	26-Sep		Monthly Initial 17-Sep - 19-Sep		17-Sep	Daily Initial 17-Sep; Daily Initial 19-Sep; Monthly Initial 17-Sep - 19-Sep
30-Sep-24	Monday		26-Sep				
01-Oct-24	Tuesday			24-Sep	24-Sep	19-Sep	
02-Oct-24	Wednesday	1-Oct				Monthly Recalc 17-Sep - 19-Sep	Daily Recalc 17-Sep; Daily Recalc 19-Sep; Monthly Recalc 17-Sep - 19-Sep
03-Oct-24	Thursday		1-Oct	26-Sep	26-Sep		
04-Oct-24	Friday	3-Oct		Monthly Initial 24-Sep - 26-Sep		24-Sep	Daily Initial 24-Sep; Daily Initial 26-Sep; Monthly Initial 24-Sep - 26-Sep
07-Oct-24	Monday		3-Oct				
08-Oct-24	Tuesday			1-0ct	1-Oct	26-Sep	
09-Oct-24	Wednesday	8-Oct				Monthly Recalc 24-Sep - 26-Sep	Daily Recalc 24-Sep; Daily Recalc 26-Sep; Monthly Recalc 24-Sep - 26-Sep
10-Oct-24	Thursday		8-Oct	3-Oct	3-Oct		
11-Oct-24	Friday	10-Oct		Monthly Initial 01-Oct - 03-Oct		1-Oct	Daily Initial 01-Oct; Daily Initial 03-Oct; Monthly Initial 01-Oct - 03-Oct;
14-Oct-24	Monday		10-Oct				
15-Oct-24	Tuesday			8-Oct	8-Oct	3-Oct	
16-Oct-24	Wednesday					Monthly Recalc 01-Oct - 03-Oct	Daily Recalc 01-Oct; Daily Recalc 03-Oct; Monthly Recalc 01-Oct - 03-Oct;
17-Oct-24	Thursday			10-Oct	10-Oct		
18-Oct-24	Friday			Monthly Initial 08-Oct - 10-Oct		8-Oct	Daily Initial 08-Oct; Daily Initial 10-Oct; Monthly Initial 08-Oct - 10-Oct;



## Fall 2024 Settlements Release

- ✓ Active in MAPSTAGE as of TD 8/1/24
- 9/16/24 10/14/24
- Unstructured Sample Settlements Statements for Tuesday & Thursday TDs 9/17/24 thru 10/10/24
- Scope as of 9/4/24 Communication:

Scope as of 9/4/24 Communication:	
Fall 2024 Settlements Release Co	omponent Summary
CHANGE SUMMARY	IMPACTS
FERC 2222 • FERC Order 2222 seeks to remove barriers for DCR (Distributed Curtailment Resources) participation in RTO/ISO markets. The CAISO will amend it's existing DER (Distributed Energy Resource) policy to accommodate FERC 2222, which will include reducing the maximum capacity requirement and introducing a new DERA resource type with underlying DCR.	No PRR required     There are no configuration/formulation changes, hence no tech doc or PRR/BPM posting. For information only.     Effective Start Date: 11/01/2024
COTP Loss  • Defect: Apply losses for the California Oregon Transmission Project (COTP) scheduled into the California Independent System Operator Corporation (CAISO) Balancing Authority Area using COTP capacity made available by Pacific Gas and Electric Company (PG&E) and the Transmission Agency of Northern California (TANC) consistent with the CAISO Tariff. This is an enhancement to implement an amended LOA among TANC, PGAE, WAPA. Instead of using average Day-Ahead Nodal prices for all nodes that includes the intertie (TRCYCOTPISO), a five-year rolling average cost will be used as as alternative for comparison with an hourly MEAA – another agreement - price. The MEAA price is at the intertie TRCYPGAE and Apnode WAPAMEEA3_ON_ASR-APND.	<ul> <li>For those with schedules tagged at the intertie TRCYCOTPISO, the CAISO shall accumulate daily each scheduling coordinator's portion of COTP losses on an hourly basis and invoice each scheduling coordinator per payment calendar.</li> <li>Effective Start Date: 11/01/2024</li> </ul>
RC Config Change  • Defect: Issue with multiple BAA for Minimum RC Charge Flag. BA_RC_SVCS_NLOAD_TOP_MTH_EXMPT_FLAG has reference date "S" and needs to be updated to "T" to correctly be included in RC Settlement runs.	No PRR required     There are no configuration/formulation changes, hence no PRR/BPM posting. Updates is to reflect CAISO internal processing to ensure data is captured correctly.      Effective Start Date: 11/01/2024
RAAIM LESR change  • Defect: Revise the Generic Availability and Flexible Obligation calculations for Limited Energy Storage Resources (LESR) RA resources. Consistent with how generic obligation award is computed only for positive capacity, the generic availability will recognize only bids/availability for the capacity above zero. Conversely, since flexible obligation award allows for the full range – from negative Pmin to positive Pmax – the flexible obligation assessment shall recognize the negative capacity values, particularly for NGRs which can operate in the negative range.	<ul> <li>This will directly impact non-generating resources (NGR) and LESR generic availability calculation and flexible obligation assessment. More likely, as a result of these resettlement, the other resources (non-NGRs, traditional generators and supply resources) may have more or less adjustments in the incentives they settled previously. The generic issue only occurs when the NGR resources has outage on its positive capacity. The flexible issue more likely will be a charge to NGRs for those with penalties, a slight uptick in incentives if they were previously getting incentives, and a likely net effect to non-NGRs to be an increase incentives.</li> <li>Effective Start Date: 3/1/2023. This is retrospective going as far back at T+21M.</li> </ul>



## Fall 2024 Settlements Release (continued)

- ✓ Active in MAPSTAGE as of TD 8/1/24
- 9/16/24 10/14/24
- Unstructured Sample Settlements Statements for Tuesday & Thursday TDs 9/17/24 thru 10/10/24
- Scope as of 9/4/24 Communication:

Scope as of 9/4/24 Communication:	
Fall 2024 Settlements Release Component Summary	
CHANGE SUMMARY	IMPACTS
RMR	No PRR required  There are no configuration/formulation changes, hence no PRR/BPM posting. Update is for typo error clean-up only.  Effective Start Date: 11/1/2024.
BD Name Alias Change  • Defect: Hierarchy Charge Names with Discrepant BILL_DETERMINANT_NAME & BILL_DETERMINANT_ALIAS Values. The BILL_DETERMINANT and ALIAS columns should be exact matches except that the enumeration in the BILL_DETERMINANT column should have an '@' sign in the name. The ALIAS enumeration will have an '_' (underscore) in the same position. As long as we do not plan to recalc the BD for any trade dates in the past that have calculated using the previous spelling in the enumeration column we can make the change prospective without causing calculation errors going forward.	No PRR required     There are no configuration/formulation changes, hence no PRR/BPM posting.     No financial impact because the impacted BDs (some PTB BDs) were never used.     Effective Start Date: 11/1/2024.
T vs. S:  • Defect: Some Bill Determinants need to be updated from reference date "S" to "T" to align with best business practices. During review there were three hill determinants that had a different reference date than expected. While no settlements issues have been	No PRR required     There are no configuration/formulation changes, hence no PRR/BPM posting. Updates is to reflect CAISO internal processing to ensure data is captured correctly.     Effective Start Date: 11/1/2024.
TSMSP2:  • When updates (with a 6/1/2024 Effective Date) associated with the TSMSP2 project were released to Production with the Summer	<ul> <li>PRR 1585</li> <li>A change is required to sum over this conflicting attribute in the configuration so that it not cause conflicts. Its purpose is informational and summing over it will not impact calculations.</li> <li>Effective Start Date: 6/1/2024.</li> </ul>



#### Draft of 2024 Fall Settlements Release Milestones

#### **Release Milestones:**

- √ 1<sup>st</sup> draft config output file + release component summary posted: 8/13/24
- ✓ PRR/BPM posting: 8/27/24
- √ 2<sup>nd</sup> draft config output file + revised release component summary posted: 9/4/24
- Market sim/sample statement window: 9/16 10/14
  - Active in MAPSTAGE as of TD 8/1/24
  - Unstructured Sample Settlements Statements for Tuesday & Thursday TDs 9/17/24 thru 10/10/24
  - First Sample Settlement TD is 9/17/24, to publish 9/24 for Daily Initial
- Pre-prod configuration output file + release artifact revisions targeting: 10/23
- Anticipated prod activation effective trade date: 11/1



## FERC 2222

- ✓ Register by Friday, 9/13/24
- 9/16 10/11: Market Simulation Window
- 9/16 9/27: Connectivity
  - MF, SIBR, MRI-s ready
- 9/30 10/11: Unstructured Market Simulation
- FERC 2222 Impacted Systems: MF, SIBR, MRI-S, RIMS
- BRS response matrix <u>published</u>
- 9/19: Additional BRS questions under review

ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
FERC2222 -MKTSIM- 001	Unstructured Testing.  SIBR, MFRD, MRI-S enhancements will be made available if a market participant wants to test the HDERA resource type.	SC	RIMS MFRD MRI-S	<ul> <li>Interface         Changes</li> <li>New/Modified         Model Data</li> </ul>
	Unstructured testing requires participant has at least one HDERA and one DERA resource set up in Master File for:  • MFRD web service data retrieval		Settlements SIBR	New system process
	<ul> <li>SIBR NBT process (HDERA only), GDF submission with bids</li> <li>MRI-S meter and (for HDERA only) monitor measurement data submission</li> </ul>			



## FERC 2222

<u>Unstructured guided scenario</u>				
Description	Verify HDERA resources in CAISO market			
ISO Actions	ISO will provision HDERA resources in CAISO markets			
WEIM Market Participant Actions	<ul> <li>Submit HDERA resources GRDT for CAISO Masterfile</li> <li>Verify resource availability in SIBR NBT process and GDF submissions with bids.</li> <li>Verify MRIS meter and monitor measurement data submission for the resources.</li> <li>Verify Settlements results for the resources</li> </ul>			
ISO Market Participant Actions	<ul> <li>Submit HDERA resources GRDT for CAISO Masterfile</li> <li>Verify resource availability in SIBR NBT process and GDF submissions with bids.</li> <li>Verify MRIS meter and monitor measurement data submission for the resources.</li> <li>Verify Settlements results for the resources</li> </ul>			
Expected Outcome	Resources are available/visible in CAISO systems.			
Anticipated Settlement Outcome	N/A			
Expected Settlement Outcome	N/A			



## **UI Framework Upgrades**

- UI framework upgrades for multiple systems
- No application functionality changes
- No impact to user access
- Will be made available in MAP-Stage prior to Production cutovers where applicable

User Interface	MAP-Stage	Production
BAAOP	✓ July 2024	Sep – Oct 2024
BSAP	✓ August 2024	Sep – Oct 2024
RCBSAP	✓ August 2024	Sep – Oct 2024
SIBR	✓ August 2024	Sep – Oct 2024
HANA	NA	Sep - Oct 2024
HANA STUDY	NA	Sep - Oct 2024
Other Uls	Various	Various



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## **UI Framework Upgrades**

- Known Issues Uls only
  - SIBR
    - Create Bid Product Type NULL ETA week of 9/23
    - Upload bids/trades function not working ETA week of 9/23
    - Loading Screen Speed Slow
    - Dynamic Limit Resource not populating for SC
  - BSAP
    - Submit Base Schedule Button Not Available
      - Workaround: right-click to submit



#### TSMSP2T3

- Register by next Friday, 9/27/24
- 10/7 10/21: Market Simulation Window
- MF, OASIS, webWheel, SIBR, Settlements, Market
- BRS revision target by week of 9/23/24
- Draft Market/Business Simulation Business Requirements:

Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
Unstructured Market Sim:	N/A	webWheel™	New Process, New Data
SCs must have the capability to submit, view, and download			
their resale information.			
SCs performing resale must attest the information entered for	N/A	webWheel™	New Process, New Data
resale			
Unstructured Market Sim:	webWheel™	OASIS	New Process, New Data
Market Participants must have the capability to view the resale information.			
End-to-End	N/A	webWheel™	New Process, New Data
Internal ISO operator must have the capability to update reason			
code for submitted resales and Forced Releases			
Unstructured Market Sim:	N/A	webWheel™	New Process, New Data
SCs must have the capability to submit, view, and download			
their Forced Release information.			



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#### TEA

- Register by December 31, 2024
- February 2025 Market Simulation
- MF, SIBR, ETCC, ITS, Settlements, CMRI, OASIS

ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
MKT-001	Owner of Transmission Owner Rights must have the capability to send sale information to CAISO.	OASIS OATI	Internal ISO System	Interface changes, New system process
	Note: See BRQ003 for more information.			
MKT-002	Entities with pre-registered CRNs must have the capability to purchase Transmission Owner Rights.	N/A	MF	Interface changes, New system process, Rule Impacts
	Note: See BRQ002 for more information.			
MKT-003	Entities with Parent CRN and have active transacted purchases with Sub CRNs will have access to both Parent and Sub CRN Report data in CMRI.	CMRI	User Client, System	Interface changes, Report Changes, New system process, Rule Impacts



## **TEA**

## • Draft unstructured scenario

<u>Unstructured guided scenario</u>		
Description	3 <sup>rd</sup> party to purchase right and schedule in the market	
ISO Actions	N/A	
WEIM Market Participant Actions	Trans mission owner right sale should be recorded with CAISO	
ISO Market Participant Actions	Needs to establish contract reference numbers (CRN) va MF? Schedule the rights in SIBR Submit tags consistent with their schedule	
Expected Outcome	Contract self-schedule will receive priority a wards Receive scheduling priority in ITS Receive awards in settlements based on their contract usage Verify the results in CMRI WEIM entities can verify sale information on CMRI	
Anticipated Settlement Outcome	Reversal of congestion occurring up to their contract schedule.  Receive exemption from wheeling or transmission access charges	
Expected Settlement Outcome	Under review	



## **HER**

- Register by September 30, 2024
- November Unstructured Market Simulation

Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
End-to-End Testing:	webOMS	webOMS, HANA	New Data Fields
RC Customers to adjust the ER, HER and limit durations.			
Note: Reference BRQ403 for more information.			

ID#	Business Feature	Req. Type	Potential Application Impacted
HER – BRQ403	System (webOMS) must have the capability for all current user who have read/write access to adjust the following new transmission MVA rating data elements/fields:  • Emergency Rating Duration (set in minutes)  • Highest Emergency Rating Limit (set in MVA)  • Highest Emergency Rating Duration (set in minutes)  • Start/End time of override (existing field, set for above fields)  Implementation note: Operators shall be able to adjust to a higher rating, in addition to how they currently adjust to a lower rating; ; ISO users and RC customers shall use existing "Nature of Work" type of "EQUIPMENT_DERATE" in order to adjust rating higher or lower.  Implementation and note: ISO users and RC customers shall utilize existing "Nature of Work" type of "EQUIPMENT_DERATE" in order to adjust to a higher or lower rating.	Core	webOMS



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## **CRR System Upgrade**

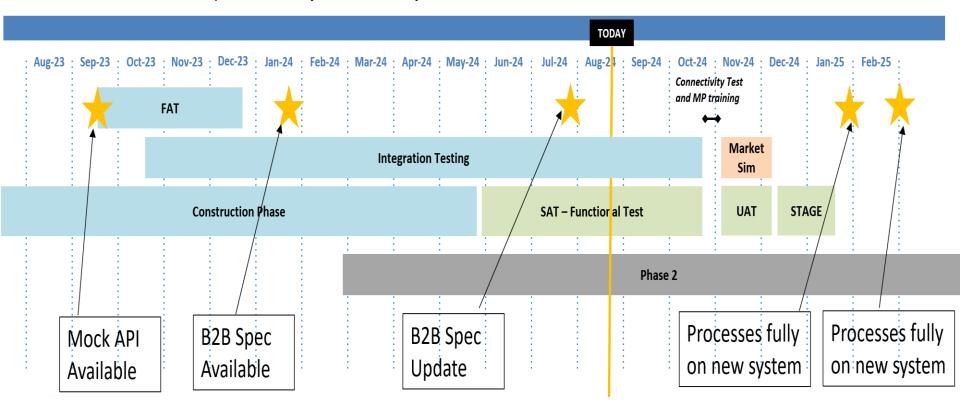
- Register by 9/30/24
- 10/28 11/1: Connectivity
- 11/4: Start Market Simulation
  - 2 weeks Structured
  - 3 weeks Unstructured



#### 2024 - Congestion Revenue Rights (CRR) Upgrade

#### Updated Aug 2024

- Functional Site Acceptance Testing, B2B integration and security testing continues
- Connectivity Testing 1 week after above testing, starting in late October, just before Market SIM
- Training 1 week before Market SIM in late October
- · Market SIM 2 week structured, then 3 week unstructured starting in early November
- 2025 Annual Cycle, carried out in 2024, will occur on the current Production CRR application
- 1 week Cutover to new CRR application 1/27/25 to 1/30/25- 2025
- March is first month with processes fully on the new system





- Calendar layout of proposed CRR monthly and Annual Market Sim plan
- DRAFT CRR 2024 & 2025 Allocation and Auction Markets Calendar



	N	Market Sim 20	)24	
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
week 1 T-2w - Connectivity Prior to Market Sim - Kickoff and Overview  ■ Market Sim Plan ■ High level overview of new system ■ Uploading and Downloading ■ Manual Entry, File Upload, API ■ Public/Private Downloads ■ Messages ■ Sorting and Filtering ■ Documentation and Resources ■ Contact Information data setup of multiple markets	Allocation Monthly Participants  Submit Nominations for Tier 1 Monthly Market (dummy MEQ)  Windows Close on Wednesday  Submit Historical/Forecast Load  Download Nomination Cap data  Download Allocation Market Results  Market Sim Webex	Auction Monthly Participants  Submit Auction Portfolios Monthly Auction Market  Buy Bids, Sell Offers  Credit - provide \$10mil to all MPs for testing  Windows Close on Thursday  Download Auction Market Results  Market Sim Webex	Miscellaneous Monthly process  UDC Load Migration Submissions  CEC Load Forecast Submissions  LT Re-nomination Secondary Market MT_TOR CRR Approvals  Market Sim Webex 3-4pm PST	Reserved for CRR team data processing and participant responses  Environment Patching
week 2 Reserved for CRR team data processing and participant responses CRR team setup for Monthly Mini Auction	Allocation Annual Participants  Submit Nominations for Tier 1 Annual Market (dummy SEQ/UB/Signature Pair)  Market Sim Webex	Auction Annual Participants  Submit Auction Portfolios Annual Auction Market  Buy Bids, Sell Offers Credit - provide \$10mil to all MPs for testing Re-submit for any processes or scenarios which had issues previously	Miscellaneous Annual process  Submit Auction Portfolios for Participant requested scenarios View results from Week 1 submissions  Market Sim Webex	Reserved for Q&A sessions, issue reporting, etc. Environment Patching



Market Sim 2024						
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY		
week 3						
Unstructured Week 1	Re-submit for any process of scenarios for customer specific testing	Unstructured	Unstructured	Reserved for CRR team data processing and participant responses  Environment Patching		
	Market Sim Webex		Market Sim Webex			
week 4 Unstructured Week 2	Unstructured	Unstructured	Unstructured	Reserved for CRR team data processing and participant responses		
		Market Sim Webex		Environment Patching		
week 5	Unstructured Cont.	Unstructured Cont.	Unstructured Cont.	Reserved for CRR team data processing and participant responses		
			Market Sim Webex	Environment Patching		



November 2024					
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
Annual	December January Market Sim/Cute	over		2025 Auction Open	
4 Dec List of outages post by 5P Post January Source/Sink List 2025 Auction Closes 5P	5 Dec Incr. Update by 5P	6	7 Dec Tier 1 Opens 1A Dec Tier 1 Closes SP Jan Hist Load Wind Opens 1A Jan Hist Load Wind Closes SP	8 Jan <u>Frest</u> Load Wind Opens 1A	
	Market Sim – Week 1	Market Sim – Week 1	Market Sim – Week 1	Market Sim – Week 1	
11 Dec Post Tier 1 Results by 5P Post 2025 Auction Results by 5P Jan Frest Load Wind Closes 5P	12 Dec Post Set-Aside Dec Tier 2 MEQ	13 Dec Tier 2 Opens 1A Dec Tier 2 Closes 5P	14	15 Dec Post Tier 2 Results by 5P	
	Market Sim – Week 2	Market Sim – Week 2	Market Sim – Week 2	Market Sim – Week 2	
18	19 Dec Auction Opens 1A	20 Dec Auction Closes 5P Dec UDCs submit LM data by 12P	21	22 Dec Auction results post by 5P	
	Market Sim – Week 3	Market Sim – Week 3	Market Sim – Week 3	Market Sim – Week 3	
25 Jan Post CRR FNM by 5P	26	27 Jan Post MEQ	28 Holiday [Thanksgiving]	29 Holiday (Thanksgiving)	
Market Sim – Week 3	Market Sim – Week 3	Market Sim – Week 3			



December 2024				
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
2 Post February Source/Sink List	3	4	5	6 Jan List of outages post by SP
	Market Sim – Week 4	Market Sim – Week 4	Market Sim – Week 4	
9 Feb Hist Load Wind Opens 1A Feb Hist Load Wind Closes SP	10 Jan Incr. Update by 5P Feb Forecast Load Wind Open 1A	11 Feb Forecast Load Wind Closes 5P	12 Jan Tier 1 Opens 1A Jan Tier 1 Closes 5P	13 Jan Post Tier 1 Results by 5P
	Market Sim – Week 5	Market Sim – Week 5	Market Sim – Week 5	
16 Jan Post Set-Aside Jan Tier 2 MEQ	17 Jan Tier 2 Opens 1A Jan Tier 2 Closes 5P	18	19 Jan Post Tier 2 Results by 5P	20 Jan UDCs submit LM data by 12P
23 Jan Auction Opens 1A	24 Jan Auction Closes SP	25	26 Feb Post CRR FNM by SP	27 Jan Auction results post by 5P
30 Feb Post MEQ	31			January February
				Market Sim/Cutover



January 2025						
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY		
February March Market Sim/Go		1 Holiday (New Year's Day)	2	3 Feb List of outages post by 5P		
Market Sim/Cu  6 Post March Source/Sink List	7 Feb Incr. Update by 5P	8 Mar Hist Load Wind Opens 1A Mar Hist Load Wind Closes 5P (Entered in current system, will be migrated to new System)	9 Feb Tier 1 Opens 1A Feb Tier 1 Closes 5P Mar Frest Load Wind Opens 1A	10 Mar Frest Load Wind Closes 5P		
13 Feb Post Tier 1 Results by 5P	14 Feb Post Set-Aside Feb Tier 2 MEQ	15 Feb Tier 2 Opens 1A Feb Tier 2 Closes 5P	16	17 Feb UDCs submit LM data by 12P Feb Post Tier 2 Results by 5P		
20 Holiday (Martin Luther King's B-Day)	21	22 Feb Auction Opens 1A	23 Feb Auction Closes SP	24		
27 Feb Auction results post by 5P	28 Mar Post CRR FNM by 5P – on SFTP site	29	30	31		
	Production Deployment –Phase 1 cutover	Production Deployment –Phase 1 cutover	Production Deployment –Phase 1 cutover	Production Deployment – Phase 1 cutover Complete		



February 2025							
MONDAY	TUESDAY	AY WEDNESDAY THURSDAY FRIDAY					
March April							
3 New System Online Mar Post MEQ Post April Source/Sink List	4	5 Apr CEC Load Wind Opens 1A Apr CEC Load Wind Closes 5P	6 Mar List of outages post by 5P Mar Incr. Update by 5P Apr <u>Hist</u> Load Wind Opens 1A Apr <u>Hist</u> Load Wind Closes 5P	7 Mar Tier 1 Opens 1A Mar Tier 1 Closes 5P Apr Frest Load Wind Opens 1A			
10 Apr Frest Load Wind Closes 5P	11 Mar Post Tier 1 Results by 5P	12 Mar Post Set-Aside Mar Tier 2 MEQ	13 Mar Tier 2 Opens 1A Mar Tier 2 Closes 5P	14			
17 Holiday (Presidents Day)	18 Mar Post Tier 2 Results by 5P	19	20 Mar UDCs submit LM data by 12P Mar Auction Opens 1A	21 Mar Auction Closes 5P Apr Post CRR FNM by 5P			
24	25 Mar Auction results post by 5P	26 Apr Post MEQ	27	28			



# WEIM Enhancements: WEIM Commitment Override – BAAOP UI

- Register by September 30, 2024
- October Unstructured

ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
MKT - 010	Unstructured Market Sim – WEIM External Commitment Override	N/A	RTM – BAAOP	Changes to UI
	External WEIM BA Operators must have the capability within RTM - BAAOP to enter commitment overrides directly in the RTM Market UI.			
	Note: See BRO030			

ID#	Business Feature	Req.	Applicati on(s)
FAB-	External WEIM Commitment Override	Core	RTM -
BRQ03	System (RTM) within BAAOP, must have the capability for external WEIM BA Operators to enter commitment overrides directly in the RTM Market UI.		BAAOP
	Implementation note: This would be similar functionality as CAISO BA Operations (Generation Dispatcher) having this ability.		
	Implementation note: use the External BAA Operator role for BAAOP.		
	Implementation note: Currently, external WEIM entities call the RTMO to request the commitment override and the RTMO enters the override into the RTM via BAAOP. The RTMOs do not have the authority to deny the request from the external WEIM entity.		
	Implementation note: This requirement applies to any WEIM BAA with existing access to RTM. No new access provisioning needed in AIM, no updates to roles needed in AIM.		
	Implementation note: UI updates only		
	Impacted: BPM, UIs, Unstructured Market Sim		

## HR2C RIMS

- Register by September 30, 2024
- November: Unstructured Shapefiles Market Simulation

ID#	Guidance on Market Participant Impacts	Source	Sink System	Reason for Potential Scenario
MKT-004	Unstructured Market Simulation  Market Participants must have the capability to input Site information data into web form submission.	N/A	RIMS	Unstructured Market Sim, New Data type
	Note: BU requested that Market Participants have the opportunity to practice filling out and submitting the form prior to production.			
MKT – 005	Unstructured Market Simulation  Market Participant must have the capability to upload Topo Map, Sharing Agreement, Shapefile, and provide Site Info via web form.	N/A	RIMS	Unstructured Market Sim, New Data type
MKT-006	Note: See BRQ150, BRQ285, BRQ144, BRQ300.  Unstructured Market Simulation  Mark et Participant must have the capability to see on UI uploaded Topo Map, Sharing Agreement, Shapefile, and provide Site Info via web form.  Note: See BRQ150, BRQ285, BRQ144, BRQ300.	N/A	RIMS	Unstructured Market Sim, New Data type
MKT – 007	Unstructured Market Simulation  Mark et Participants must have the capability to add Topo Map, Site Info, Shapefile, and Sharing Agreement (applicable only to Fuel Type of Solar) to Bucket 1 for any hybrid resource project created with a fuel type of Solar or Wind.  Note: BRQ145, BRQ275.	N/A	RIMS	Unstructured Market Sim, New Data type
MKT-008	Unstructured Market Simulation  In the event Market Participant's upload fails validation, Market Participant must receive notification of the error.	N/A	RIMS	Unstructured Market Sim, New Data type
	Note: See BRQ350A, BRQ350B, BRQ205, BRQ335, BRQ325.			

## **Next Steps**

- The next Market Simulation Forum will be on Monday, September 23, 2024 @ 10:00 AM PT (time change)
- Contact
  - Trang Vo @ tvo@caiso.com
  - MarketSim@caiso.com



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## References

 The following slides include information from previous presentations and/or for general reference



## Market Simulation Support

- Submit questions to CIDI with 'Functional Environment' = "Market Simulation"
- marketsim@caiso.com
- Service Desk: (916) 351-2309



## Market Simulation Registration

- Please register for your participation in Market Simulation activities for each Market Simulation initiative as appropriate
  - If you have intent to actively engage in MAP Stage testing of access, systems, functionality, processes, and/or review of results/data
- This informs CAISO Market Simulation to provide more specific support for your efforts, including
  - Data setup for your testing
  - More immediate communication and coordination impacting your testing/review
  - More detailed information for the applicable initiatives
- How to register
  - Submit CIDI with 'Functional Environment' = "Market Simulation"
    - Identify the Market Simulation initiative(s) you will participate in
    - Identify any specific resources as applicable
    - List the contacts and e-mail addresses that you would like to include
  - CIDI is preferred and if you don't have CIDI, you can e-mail <u>marketsim@caiso.com</u> with the same information

