



California ISO

Market Simulation Plan Fall 2025 Release


Initiatives –

Day-Ahead Market Enhancements

Extended day-ahead market

Version: 1.0

Dec 12, 2023

 California ISO	Market Simulation Plan Project Office	Template Version:	1.1
		Template Date:	03/30/2011
ISO External Market Simulation Plan		Document Version:	1.0
		Effective Date	04/01/2023

Location of Document – [\(link\)](#)

Revision History

Date	Version	Description	Author
12/12/2023	1.0	Initial draft	Anshuman Vaidya



 California ISO	Market Simulation Plan Project Office	Template Version:	1.1
		Template Date:	03/30/2011
ISO External Market Simulation Plan		Document Version:	1.0
		Effective Date	04/01/2023

Table of Contents

1. INTRODUCTION	4
1.1 SCOPE OF INITIATIVES	4
1.2 MARKET SIMULATION	4
1.3 SCHEDULE SUMMARY	5
2. MARKET SIMULATION APPROACH	6
2.1 HIGH LEVEL OVERVIEW	6
2.2 PRE-SIMULATION ACTIVITIES	6
2.3 PRE-SIMULATION AND SIMULATION ACTIVITIES CALENDAR	7
3. GENERAL INFORMATION	8
3.1 PARTICIPANT OBSERVATION AND INPUTS	8
3.2 RELEASE WEB SERVICE CHANGES	9
3.3 KNOWN ISSUE LIST	10
3.4 STRUCTURED SCENARIOS	10
3.5 ISO'S APPROACH	10
3.6 CONFIGURATION GUIDES AND PAYMENT CALENDARS	10
4. MARKET SIMULATION SUPPORT	14
4.1 ROUTINE FUNCTIONS	14
4.2 MARKET SIMULATION-SPECIFIC SUPPORT	14
4.3 MARKET SIMULATION COMMUNICATION	15
4.4 MARKET SIMULATION ENVIRONMENT MAINTENANCE	15
5. MARKET SIMULATION TRAININGS	15
6. MARKET SIMULATION EXECUTION AND EXCEPTIONS	15
7. DOCUMENTATION LINKS	16
8. ISO MARKET SIMULATION CONTACT	16

 California ISO	Market Simulation Plan Project Office	Template Version:	1.1
		Template Date:	03/30/2011
ISO External Market Simulation Plan		Document Version:	1.0
		Effective Date	04/01/2023

1. Introduction

The objective of this document is to provide the information needed by market participants in order to engage in the Fall 2025 Release initiatives, thereby enabling market participants to smoothly transition and utilize the new features.

1.1 Scope of Initiatives

ISO release planning sites for the Fall 2025 Release initiatives – ([link](#))


1. Day-Ahead Market Enhancements ([link](#))
2. Extended day-ahead market ([link](#))

We will be adding the CAISO BAA EDAM Participation details at a later time.

1.2 Market Simulation

The ISO conducts market simulations on a regular basis as part of its bringing new capabilities to its markets. This provides market participants an opportunity to test their systems and procedures in advance of the market implementation. The market simulation process facilitates an effective market operations “dress rehearsal” and helps expedite a smooth production launch. The benefits of market simulation may include but are not limited to:

- Allowing for system or procedural problem identification and mitigation before the market is operationally or financially binding.
- Enabling market participants to observe the behavior of ISO systems and markets in a simulated production environment, particularly in regards to new functions and features introduced through the addition of the modifications included in the Fall 2025 Release initiatives.
- Establishing confidence in the operational processes and systems associated with the new market functionality implementation.
- Providing a hands-on environment to allow participants to interact with new and unique features and functionality.

	Market Simulation Plan Project Office	Template Version:	1.1
		Template Date:	03/30/2011
ISO External Market Simulation Plan		Document Version:	1.0
		Effective Date	04/01/2023


- Providing an environment where market participants can scrutinize and tailor their own tools, applications, and business practices to participate in new market functionality.
- Providing a means of capturing additional market participant input and feedback regarding the implementation of the new market features and functionality, beyond what might have been received in the stakeholder process.
- Providing market participants the tools to help determine:
 - Proper exchange of market-related data and validation of new timelines.
 - Common understanding of data submittal requirements and timelines.
 - Familiarity with market rules and timelines.
- An opportunity to verify the ISO bid-to-bill process in a pre-production environment that includes simulated market and operational data inputs. Allowing the market participants to verify systems, processes, and procedures which may need modifying due to the functional changes tied to the release.

1.3 Schedule Summary

Fall Release 2025 market simulation high-level timeline is the following.

Phase 1 Market Simulation Type	Start	End
Connectivity Testing	06/02/2025	06/16/2025
Structured Simulation	06/17/2025	08/22/2025
Unstructured Simulation	06/17/2025	08/22/2025
Supported Regression Testing	06/24/2025	08/22/2025

ISO will continue to have the MAP Stage environment available for market participants to support regression testing if necessary beyond go live.

	Market Simulation Plan Project Office	Template Version:	1.1
		Template Date:	03/30/2011
ISO External Market Simulation Plan		Document Version:	1.0
		Effective Date	04/01/2023

2. Market Simulation Approach


2.1 High-Level Overview

The timeline for the Fall 2025 Release initiatives market simulations is identified below. Critical pre-simulation activities are identified in section 2.2 of this document.

<u>Fall 2025 Initiatives</u>	<u>Start Date</u>	<u>Start Date (Trade Date)</u>	<u>End Date</u>	<u>Structured Simulation Start (Trade Date)</u>
<u>Fall 2025 Market Simulation</u>				
Day-Ahead Market Enhancements	06/17	06/17	08/22	06/17
Extended day-ahead market	06/17	06/17	08/22	06/17

2.2 Pre-Simulation Activities

The Fall 2025 Release initiatives market simulations will be conducted in the MAP Stage environment. Participants will need to obtain access to this environment if they do not already have access. The ISO envisions participants may wish to access Master File (MF), Market Participant Portal (MPP), Outage Management System (WebOMS), Demand Response Registration System (DRRS), Customer Interface for Resource Adequacy (CIRA), Scheduling Infrastructure and Business Rules (SIBR), Base Schedule Aggregation Portal (BSAP), Balancing Authority Area Operations Portal (BAAOP), CAISO Market Results Interface (CMRI), Automated Dispatch System (ADS), and Market Results Interface Settlements (MRIS). For those who do not already have access to the MAP Stage systems, access can be requested by completing an Application Access Request Form ([AARF](#)) or modifying existing certificates through the Access Identity Management ([AIM](#)) application. Information regarding the completion of AIM and AARF forms can be found on the ISO portal under the application access request forms and application installation instructions heading.


	Market Simulation Plan Project Office	Template Version:	1.1
		Template Date:	03/30/2011
ISO External Market Simulation Plan		Document Version:	1.0
		Effective Date	04/01/2023

Information pertaining to accessing the externally facing ISO environments is detailed in the System Access Information (SAI) for market participants document located on the ISO public site in the “Application Access” ([link](#)).

Systems Access Information Document – ([link](#))

2.3 Pre-Simulation and Simulation Activities Calendar

Activity	Description	Timeframe
MAP Stage maintenance	MAP Stage maintenance for market simulation preparation for the Fall 2025 Release.	06/02 - 06/16
Fall 2025 Releases market simulation kick-off teleconference	ISO to conduct a teleconference to provide market participants with a Fall 2025 Releases market simulation briefing.	06/05/2025
Structured simulation resource registration	As identified in the structured simulation documents for each initiative; registration for the resources to be validated during the structured simulation phase of the market simulation	06/02/2025
Fall 2025 release simulation begins	Fall 2025 Releases market simulation in the MAP Stage environment	06/17/2025
Fall 2025 connectivity testing	MAP Stage open for interface access validation	06/02/2025
Fall 2025 structured scenarios	Fall 2025 structured scenarios to be executed.	06/17/2025

	Market Simulation Plan Project Office	Template Version: Template Date:	1.1 03/30/2011
	ISO External Market Simulation Plan	Document Version: Effective Date	1.0 04/01/2023

3. General Information

3.1 Participant Observation and Inputs

During the Fall 2025 Release market simulation, market participants will be able to observe market results in the same applications that are available in production: OASIS, CMRI, ADS, etc.

The ISO will seed bids and base schedules on your behalf in MAP Stage, participants are encouraged to input data into the ISO bid-to-bill using all systems available: MRI-S, SIBR/BSAP, ADS and OMS etc., for a more realistic simulation.

Day Ahead Market (DAM) bids are submitted for T+4 >> (**NOTE:** CB bids are submitted for T+2, if participant submits for T+4 they will be over-written)

- Example: on 9/10 bids are submitted for 9/14

Participants wishing to check and or submit DA bids for T+1 – T+4) can do so after 7am on T.

- Example T=9/10 - DA bids can be submitted for 9/11, 9/12, 9/13 and if after 8am for 9/14
- In the example no seeded bids will over-write submitted bids for T+1, T+2, T+3. For T+4 if the submitted bids come in after 7am they will not be over-written by seeded bids.

Real Time Market (RTM) bids are submitted for T+1 at 11:00am

- Example: on 9/10 static bids are submitted at 11:00am for 9/11
- Participants wishing to check and or submit RT bids for T+1 can do so after 12:00pm (noon), no seeded data will over-write submitted bids.


Day Ahead Base Schedules BSAP (DAM) base schedules are submitted for T+4

Real Time Base Schedules BSAP (RTM) base schedules are submitted for T+ 4

- Example: on 9/10 base Schedules (DAM/RTM) are submitted for 9/14

Participants wishing to check and or submit base schedules for T+1 – T+4) can do so after 8am on T.

- Example T=9/10 - DA/RT base schedules can be submitted for 9/11, 9/12, 9/13 and if after 7am for 9/14
- In the example no seeded base schedules will over-write submitted base schedules for T+1, T+2, T+3. For T+4 if the submitted base schedules

 California ISO	Market Simulation Plan Project Office	Template Version:	1.1
		Template Date:	03/30/2011
ISO External Market Simulation Plan		Document Version:	1.0
		Effective Date	04/01/2023

come in after 8am they will not be over-written by seeded base schedules.

SIBR RTM functionality for validating submitted bids or generating submitted bid based on DA market results will still apply, typically MAP Stage market results are not published until after 12pm.

All RTM bids are revalidated between 22:10 and 23:00 for the next day based on the latest commitment cost data received.

All DAM bids are revalidated beginning at 03:10 and again at 09:10 for future dates based on the latest Master File and commitment cost data received.

All base schedules are revalidated beginning at 08:25 for the next day only based on the latest Master File data received.

Bids and Base Schedules must be submitted or verified by participants wanting to validate functionality in SIBR and BSAP or downstream applications with regard to project expectations.


3.2 Release Web Service Changes

ISO has provided all the necessary technical specifications for the web service changes in scope for Fall 2025 Release on the developer web site [\(link\)](#) .

Resource Data Template (RDT) submission and/or modifications for the Fall 2025 Release will take 10 business days to process. Prior to the start of simulation all modified RDT's for the Fall 2025 Release should be emailed to RDT@caiso.com please also Cc MarketSim@caiso.com. Once simulation begins RDT's should be submitted to the MAP Stage Master File with an expected turnaround time of 10 business day, similar to Production.

ISO will be settling unstructured scenario trade dates for the Fall 2025 Release simulations.

ISO will be offering Settlements statements during the Fall 2025 Release market simulation. Similar to how the process is performed in our production environment, the ISO will be using estimated Meter data with our initial statements and market participant submitted meter data where applicable, for the re-calc statements.

 California ISO	Market Simulation Plan Project Office	Template Version:	1.1
		Template Date:	03/30/2011
ISO External Market Simulation Plan		Document Version:	1.0
		Effective Date	04/01/2023

3.3 Known Issue List

The ISO will create and publish a known issues list and post in on the release planning site – ([link](#))

3.4 Structured Scenarios

Market participants will need to register their request with the ISO to participate in this simulation via the MarketSim@caiso.com mailbox.

Please submit the information requested by 06/02/25.

For initiatives not listed, there will be no structured scenarios executed –

1. Day-Ahead Market Enhancements ([link](#))
2. Extended day-ahead market ([link](#))

We will be adding more details regarding CAISO BAA EDAM Participation at a later date.

3.5 ISO's Approach

Unstructured Simulation –

If a market participant would like to see specific market conditions for their resource please contact ISO at MarketSim@caiso.com preferably TD-1 prior to the unstructured TD's DAM or RT market run.


Regression Simulation –

If a market participant would like to see specific market conditions for their resource please contact ISO at MarketSim@caiso.com preferably TD-1 prior to the regression TD's DAM or RT market run.


3.6 Configuration Guides and Payment Calendars

ISO Settlements Calendar and Configuration guides Fall 2025 Release -


- Draft Settlements Configuration Guides – ([link](#))

	Market Simulation Plan Project Office		Template Version: 1.1 Template Date: 03/30/2011
	ISO External Market Simulation Plan		Document Version: 1.0 Effective Date: 04/01/2023


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		
16-Jun-25	Monday							
17-Jun-25	Tuesday							
18-Jun-25	Wednesday	17-Jun						
19-Jun-25	Thursday		17-Jun					
20-Jun-25	Friday	19-Jun						
21-Jun-25	Saturday							
22-Jun-25	Sunday							
23-Jun-25	Monday		19-Jun					
24-Jun-25	Tuesday			17-Jun	17-Jun			
25-Jun-25	Wednesday	24-Jun						
26-Jun-25	Thursday		24-Jun	19-Jun	19-Jun			
27-Jun-25	Friday	26-Jun		Monthly Initial 17-Jun - 19-Jun		17-Jun	Daily Initial 17-Jun; Daily Initial 19-Jun; Monthly Initial 17-Jun - 19-Jun	
28-Jun-25	Saturday							
29-Jun-25	Sunday							
30-Jun-25	Monday		26-Jun					
01-Jul-25	Tuesday			24-Jun	24-Jun	19-Jun		
02-Jul-25	Wednesday	1-Jul				Monthly Recalc 17-Jun - 19-Jun	Daily Recalc 17-Jun; Daily Recalc 19-Jun; Monthly Recalc 17-Jun - 19-Jun	
03-Jul-25	Thursday		1-Jul	26-Jun	26-Jun			
04-Jul-25	Friday	ISO Holiday						
05-Jul-25	Saturday							
06-Jul-25	Sunday							
07-Jul-25	Monday	3-Jul		Monthly Initial 14-Jun - 26-Jun		24-Jun	Daily Initial 14-Jun; Daily Initial 26-Jun; Monthly Initial 14-Jun - 26-Jun	
08-Jul-25	Tuesday		3-Jul					
09-Jul-25	Wednesday	8-Jul		1-Jul	1-Jul	26-Jun		

	Market Simulation Plan Project Office		Template Version: 1.1 Template Date: 03/30/2011
	ISO External Market Simulation Plan		Document Version: 1.0 Effective Date: 04/01/2023

10-Jul-25	Thursday						Daily Recalc 14-Jun; Daily Recalc 26-Jun; Monthly Recalc 14-Jun - 26-Jun
11-Jul-25	Friday	10-Jul		3-Jul	3-Jul	Monthly Recalc 14-Jun - 26-Jun	
12-Jul-25	Saturday						
13-Jul-25	Sunday						
14-Jul-25	Monday		10-Jul	Monthly Initial 01-Jul - 03-Jul		1-Jul	Daily Initial 01-Jul; Daily Initial 03-Jul; Monthly Initial 01-Jul - 03-Jul
15-Jul-25	Tuesday			8-Jul	8-Jul		
16-Jul-25	Wednesday	15-Jul				3-Jul	
17-Jul-25	Thursday		15-Jul	10-Jul	10-Jul	Monthly Recalc 01-Jul - 03-Jul	Daily Recalc 01-Jul; Daily Recalc 03-Jul; Monthly Recalc 01-Jul - 03-Jul
18-Jul-25	Friday	17-Jul		Monthly Initial 08-Jul - 10-Jul		8-Jul	Daily Initial 08-Jul; Daily Initial 10-Jul; Monthly Initial 08-Jul - 10-Jul
19-Jul-25	Saturday						
20-Jul-25	Sunday						
21-Jul-25	Monday		17-Jul				
22-Jul-25	Tuesday			15-Jul	15-Jul	10-Jul	
23-Jul-25	Wednesday		22-Jul			Monthly Recalc 08-Jul - 10-Jul	Daily Recalc 08-Jul; Daily Recalc 10-Jul; Monthly Recalc 08-Jul - 10-Jul
24-Jul-25	Thursday		22-Jul	17-Jul	17-Jul		
25-Jul-25	Friday	24-Jul		Monthly Initial 15-Jul - 17-Jul		15-Jul	Daily Initial 15-Jul; Daily Initial 17-Jul; Monthly Initial 15-Jul - 17-Jul
26-Jul-25	Saturday						
27-Jul-25	Sunday						
28-Jul-25	Monday		24-Jul				
29-Jul-25	Tuesday			22-Jul	22-Jul	17-Jul	
30-Jul-25	Wednesday		29-Jul			Monthly Recalc 15-Jul - 17-Jul	Daily Recalc 15-Jul; Daily Recalc 17-Jul; Monthly Recalc 15-Jul - 17-Jul
31-Jul-25	Thursday		29-Jul	24-Jul	24-Jul		
01-Aug-25	Friday	31-Jul		Monthly Initial 22-Jul - 24-Jul		22-Jul	Daily Initial 22-Jul; Daily Initial 24-Jul; Monthly Initial 22-Jul - 24-Jul
02-Aug-25	Saturday						
03-Aug-25	Sunday						
04-Aug-25	Monday		31-Jul				

	Market Simulation Plan Project Office		Template Version: 1.1 Template Date: 03/30/2011
	ISO External Market Simulation Plan		Document Version: 1.0 Effective Date: 04/01/2023

05-Aug-25	Tuesday			29-Jul	29-Jul	24-Jul	
06-Aug-25	Wednesday						Daily Recalc 22-Jul; Daily Recalc 24-Jul; Monthly Recalc 22-Jul - 24-Jul
		5-Aug				Monthly Recalc 22-Jul - 24-Jul	
07-Aug-25	Thursday		5-Aug	31-Jul	31-Jul		
08-Aug-25	Friday						Daily Initial 29-Jul; Daily Initial 31-Jul; Monthly Initial 29-Jul - 31-Jul
		7-Aug		Monthly Initial 29-Jul - 31-Jul		29-Jul	
09-Aug-25	Saturday						
10-Aug-25	Sunday						
11-Aug-25	Monday		7-Aug				
12-Aug-25	Tuesday			5-Aug	5-Aug	31-Jul	
13-Aug-25	Wednesday						Daily Recalc 29-Jul; Daily Recalc 31-Jul; Monthly Recalc 29-Jul - 31-Jul
		12-Aug				Monthly Recalc 29-Jul - 31-Jul	
14-Aug-25	Thursday		12-Aug	7-Aug	7-Aug		
15-Aug-25	Friday						Daily Initial 05-Aug; Daily Initial 07-Aug; Monthly Initial 05-Aug - 07-Aug
		14-Aug		Monthly Initial 05-Aug - 07-Aug		5-Aug	
16-Aug-25	Saturday						
17-Aug-25	Sunday						
18-Aug-25	Monday		14-Aug				
19-Aug-25	Tuesday			12-Aug	12-Aug	7-Aug	
20-Aug-25	Wednesday						Daily Recalc 05-Aug; Daily Recalc 07-Aug; Monthly Recalc 05-Aug - 07-Aug
		19-Aug				Monthly Recalc 05-Aug - 07-Aug	
21-Aug-25	Thursday		19-Aug	14-Aug	14-Aug		
22-Aug-25	Friday						Daily Initial 12-Aug; Daily Initial 14-Aug; Monthly Initial 12-Aug - 14-Aug
		21-Aug		Monthly Initial 12-Aug - 14-Aug		12-Aug	
23-Aug-25	Saturday						
24-Aug-25	Sunday						
25-Aug-25	Monday		21-Aug				
26-Aug-25	Tuesday			19-Aug	19-Aug	14-Aug	
27-Aug-25	Wednesday						Daily Recalc 12-Aug; Daily Recalc 14-Aug; Monthly Recalc 12-Aug - 14-Aug
						Monthly Recalc 12-Aug - 14-Aug	
28-Aug-25	Thursday			21-Aug	21-Aug		

	Market Simulation Plan Project Office		Template Version: 1.1 Template Date: 03/30/2011
	ISO External Market Simulation Plan		Document Version: 1.0 Effective Date: 04/01/2023

29-Aug-25	Friday							Daily Initial 19-Aug; Daily Initial 21-Aug; Monthly Initial 19-Aug - 21-Aug	
30-Aug-25	Saturday								
31-Aug-25	Sunday								
01-Sep-25	Monday	ISO Holiday							
02-Sep-25	Tuesday								
03-Sep-25	Wednesday								
04-Sep-25	Thursday							Daily Recalc 19-Aug; Daily Recalc 21-Aug; Monthly Recalc 19-Aug - 21-Aug	
05-Sep-25	Friday								
06-Sep-25	Saturday								
07-Sep-25	Sunday								

4. Market Simulation Support


4.1 Routine Functions

For system connectivity issues, system availability issues, user account and permissions issues, and other technical issues, please contact the ISO Help Desk 24x7, 365 days a year @ (916) 351-2309.

4.2 Market Simulation-Specific Support

The ISO will operate a Market Simulation Support Center throughout the market simulation. This support center is focused on providing support for market simulation specific issues. Hours of operation of the Market Simulation Support Center are 09:00 – 18:00 PPT, Monday through Friday.

Issues will be tracked through the ISO’s Case Management System, CIDI through market participant portal ([link](#)). Simple questions that can be answered in a single call can be asked without opening a CIDI case, but if the issue cannot be resolved on the call, then participants will need to open a CIDI case. Using the “Functional Environment” field please identify the CIDI case as a “Market Simulation Fall 2025” simulation related question and not a “Production” question.

 California ISO	Market Simulation Plan Project Office	Template Version:	1.1
		Template Date:	03/30/2011
ISO External Market Simulation Plan		Document Version:	1.0
		Effective Date	04/01/2023

4.3 Market Simulation Communication

Links to online conferences, dial in numbers, and call schedules to be posted on the ISO Calendar – ([link](#))

4.4 Market Simulation Environment Maintenance

Fall 2025 Release market simulation maintenance will take place Monday morning through Tuesday morning as the weekly maintenance window. At this time, the market simulation environment will not be available for market simulation activities.

5. Market Simulation Trainings

Please find information regarding Fall 2025 Release market simulation training offerings at the following locations -


- Training calendar – ([link](#))
- ISO training contact – CustomerTraining@caiso.com

6. Market Simulation Execution and Exceptions

MAP Stage has been setup with specific application characteristics and data flows to foster successful simulation, please note these changes are made to facilitate a simulation and will not be implemented in Production –

The ISO will upload a previous day’s production based bid set for the Day Ahead Markets (DAM) run by 10:00 PPT daily.

Market participants can overwrite these bids between 10:00 PPT and 11:00 PPT when the DAM closes.

	Market Simulation Plan Project Office	Template Version:	1.1
		Template Date:	03/30/2011
ISO External Market Simulation Plan		Document Version:	1.0
		Effective Date	04/01/2023

DAM will close @ 11:00 PPT and the results will be published by 14:00 PPT daily unless it is a Structured Scenario day, it may take ISO longer to publish DAM due to Scenario setup and verification.

Real Time (RT) template bids will be built from DAM awards as the standard process, ISO will seed RT bids and base schedules for EIM entities.

RT bid markets for a specific Trade Date (TD) open automatically @ 11:00 PPT TD-1.

Market participants are encouraged to bid and base schedule in the Real Time Markets (RTM) to foster a more realistic simulation, the only exceptions are during structured scenario executions were identified.

Market participants will need to register for a tagging test bed user identification if they would like to simulate E-Tagging, if no E-Tag is submitted ISO will “auto tag” on your behalf, limit one registration per SCID.

ISO has activated auto approval for all OMS submissions and changes in MAP Stage.

Please note the timeframes for each Settlements statement publication period are different.

Settlement timelines are covered in section 3.5 above.

7. Documentation Links

Fall 2025 Release web site – [\(link\)](#)

8. ISO Market Simulation Contact

Please contact MarketSim@caiso.com if you have any questions or concerns regarding this plan and its content.