



California ISO

# Market Simulation Forum

July 17, 2025

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ISO PUBLIC

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# Overview

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- Market Simulation MAP Stage Availability
- Market Simulation MAP Stage Code
- Market Simulation Activities
- Market Simulation Settlements (if needed)
- Market Simulation Initiatives - Current
  - FERC881 Track 2
  - Transmission Exchange Agreement (TEA)
- Market Simulation Initiatives - Upcoming
  - Subscriber Participation Transmission Ownership Model (Subscriber PTO)
  - EDAM/DAME/Western EIM/BAA/ISO

# Summary Of Changes

- Slide 13: Added new slide with FERC881 TR MSIM dates
- Slide 16: Updated EDAM MSIM dates for PG&E

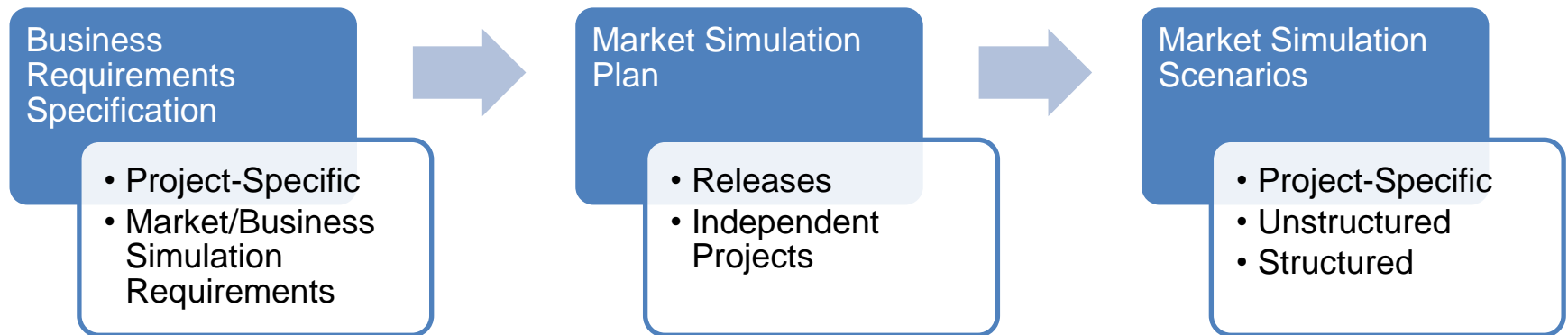
# Market Simulation Overview

- Covers activities in the MAP Stage environment
- MAP Stage is an integrated Production-like environment that is available to customers with provisioned access
- Allows customers to experience ISO release/project implementations prior to Production implementation
- Market Simulation will allow customers and the CAISO to conduct specific market scenarios in a test environment prior to the Production activation to ensure that all system interfaces are functioning as expected and to produce simulated market results
- Customers may also use MAP Stage to validate the interaction of customer-driven changes with the ISO systems

# Reasons for Market Simulation

- **Rule impacts:** Generalized changes in market rules, bidding rules, settlements rules, market design changes, or other business rules.
- **Interface changes:** Changes that impact templates (RA Supply Plan, Master File RDT, etc.), User Interfaces (UI), Application Programming Interface (API) / Web Service.
- **New/modified application/report:** Changes that cause addition/modification of ISO systems or reports, especially when data input is required by the customer
- **New/modified system process:** Modification of data flow in systems, especially if the new/modified process requires the customer to demonstrate proficiency prior to Production
- **New/modified model data:** Addition or substantial modification of model data as a market solution or export provided by the ISO
- **New/modified user role:** The addition or modification of access permissions for a user role

# Market Simulation for ISO Implementation of Releases & Projects - Deliverables



# Market Simulation Forums

*Scheduled for 2-3PM PT*

	Monday	Tuesday	Wednesday	Thursday	Friday
June	2	3	4	5	6
	9	10	11	12	13
	16	17	18	19	20
	23	24	25	26	27
	30				
July		1	2	3	4
	7	8	9	10	11
	14	15	16	17	18
	21	22	23	24	25
	28	29	30	31	

**Market  
Simulation  
Forum**

**ISO Closure**

**Cancelled**

# Market Simulation MAP Stage Availability

- MAP Stage weekly maintenance window is Friday\*

System	UI	API	Comments
ADS			
ALFS	Not Available		
BAAOP			
BSAP			
CIRA			
CMRI			
CRR (old)		Not Available	
CRR (new)			
DRRS			
ECIC	Not Available		
FDR	Not Available		
MF			
OASIS			
OMS			
PLC		Not Available	
RCBSAP			
RIMS		Not Available	
SIBR			
MRIS			
TR		Not Available	
webWheel		Not Available	
webLineR	12/31/24	From 4/14	
AVAILABLE			
MAINTENANCE			

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



# Market Simulation MAP Stage Code

System	MAP-STAGE	PRODUCTION	Comments
Market	Release 23	Release 23	
FNM	DB134	DB134 from 4/14	
ADS			
ALFS			
BAAOP			
BSAP			
CIRA			
CMRI		From 4/9	
DRRS			
ECIC			
FDR			
MF			
OASIS		From 4/1	
RCBSAP			
SIBR			
TR			

AHEAD OF PRODUCTION
SYNCED WITH PRODUCTION
BEHIND PRODUCTION

# Market Simulation Activities

Initiative	Market Simulation	Comments	Activation
<a href="#">FERC881 Track 2</a>	<b>Connectivity Testing:</b> <ul style="list-style-type: none"> <li>• UI: 12/31/24 – 04/14/25</li> <li>• API: 04/14/25 – 06/30/25</li> </ul> <b>Market Simulation:</b> <ul style="list-style-type: none"> <li>• Unstructured: 04/14/25 – 06/30/25</li> </ul>	N/A	Track 2: 07/11/25
<a href="#">Transmission Exchange Agreement (TEA)</a>	<b>Unstructured MSIM (WAPA):</b> 3/17/25 – 4/4/25 (new Aggregate Tie) <b>Unstructured MSIM (WAPA, TEA BRS):</b> Jan. 2026	N/A	<b>Aggregate Tie:</b> 05/01/25 <b>Full Activation:</b> March 2026
<a href="#">DAME / EDAM / Western EIM</a>	See project slide 19.	BPM posting 7/1/25	See project slide 19.
<a href="#">Subscriber PTO</a>	See project slide 21.	Training: Jun - Sept	10/01/25

# Map-Stage Environment Issues

Initiative	Defects
<a href="#">Congestion Revenue Rights (CRR) System Upgrade</a>	N/A
<a href="#">FERC881 Track 2</a>	N/A
<a href="#">Hybrid Resources Phase 2C (HR2C) - RIMS</a>	N/A
<a href="#">Transmission Exchange Agreement (TEA)</a>	N/A
<a href="#">DAME / EDAM / WEIM</a>	N/A
Other projects and issues	N/A

# FERC Order 881 Track 2 – Market Simulation Timeline

## Connectivity Testing (webLineR Only):

- Provisioning & UI: 12/31/24 – 04/14/25
- API: 04/14/25 – 06/30/25

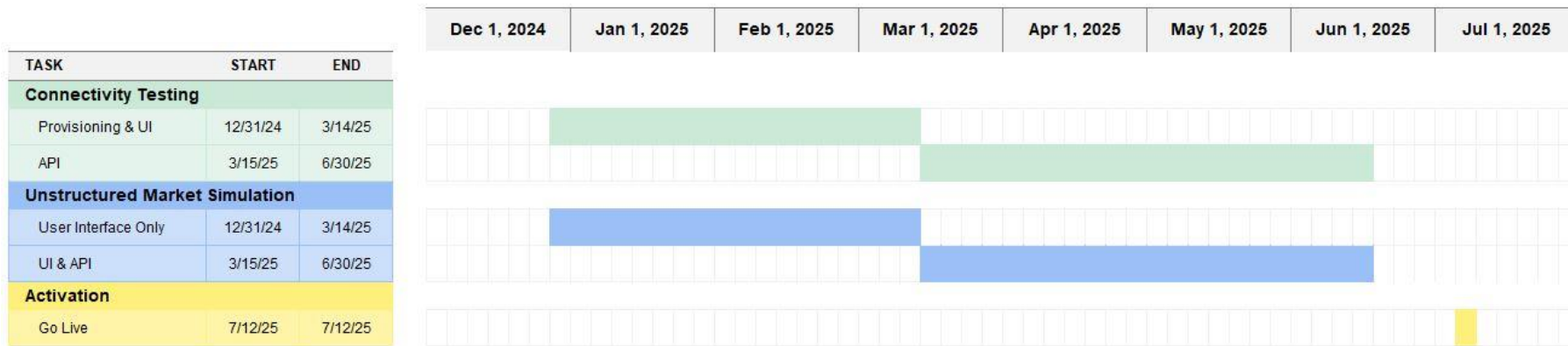
## Market Simulation (webLineR Only):

- Unstructured (UI Only): 12/31/24 - 04/14/25
- Unstructured (UI & API): 04/14/25 – 06/30/25

## Activation (webLineR Only):

- Go-live: 07/11/25
- webLineR MAPSTAGE shall remain accessible to participants after activation.

Note: refer to [webLineR MAPSTAGE](#) to test connectivity. If did not attend the training and would like a copy, please email [CustomerTraining@caiso.com](mailto:CustomerTraining@caiso.com) for training material. Note: Extension being provided for Track 3 does not impact Track 1 and Track 2 FNM and/or ICCP functionality.



# FERC Order 881 Track 2 – Market Simulation Timeline

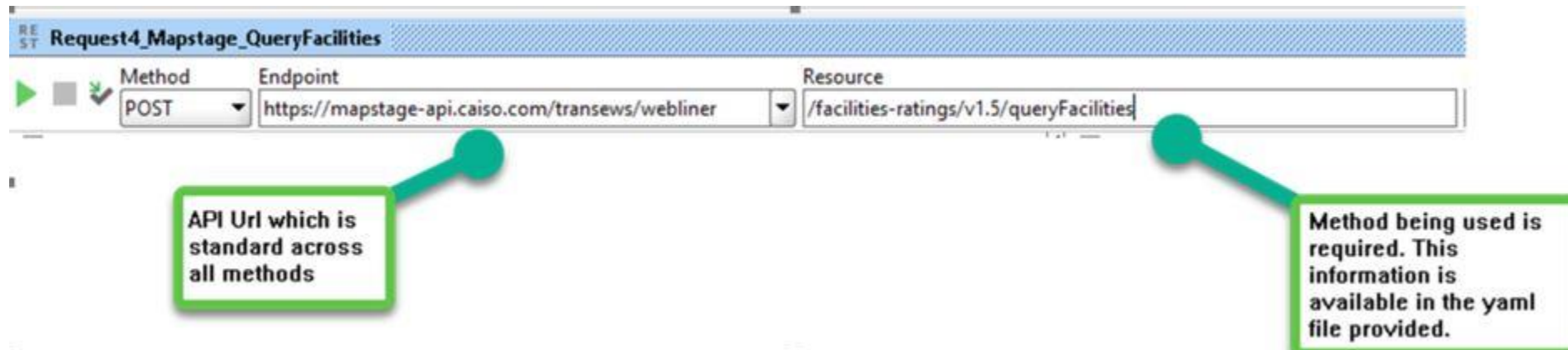
## **Market Simulation (Transmission Registry):**

- Unstructured: 7/14/25 – 7/25/25

Should questions or issues arise with Transmission Registry Market Simulation testing, please email [gridassets@caiso.com](mailto:gridassets@caiso.com) directly and CC [MarketSim@caiso.com](mailto:MarketSim@caiso.com)

## FERC881 Track 2 – webLineR Question

The API URL is <https://mapstage-api.caiso.com/transews/webliner/> and is reflected on the ISO Developer site. As this is not a webpage participants will need to use a tool like SOAPUI or Postman to submit API requests and provide the method utilized. For example:



Note: webLineR UI, <https://mapstage-webliner.caiso.com> is a webpage and can be accessed via a valid certificate.

# Transmission Exchange Agreement (TEA)

- **Register by December 31, 2024**
- MF, SIBR, ETCC, ITS, Settlements, CMRI, OASIS
- Unstructured MSIM (WAPA Only): 03/17/25 - 04/4/25
- Full Scope Unstructured MSIM (WAPA Only, TEA BRS): Jan. 2026
- First Activation: Week of 05/1/25 (new Aggregate Tie)
- Full Activation: March 2026

Note: Refer to [TEA External BRS](#) for overview of functionality for October Activation.

			Feb 17, 2025							Feb 24, 2025							Mar 3, 2025							Mar 10, 2025							Mar 17, 2025							Mar 24, 2025							
TASK	START	END	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	
Unstructured Market Simulation																																													
WAPA Only	2/24/25	3/14/25																																											
Activation																																													
Go-Live	3/24/25	3/24/25																																											

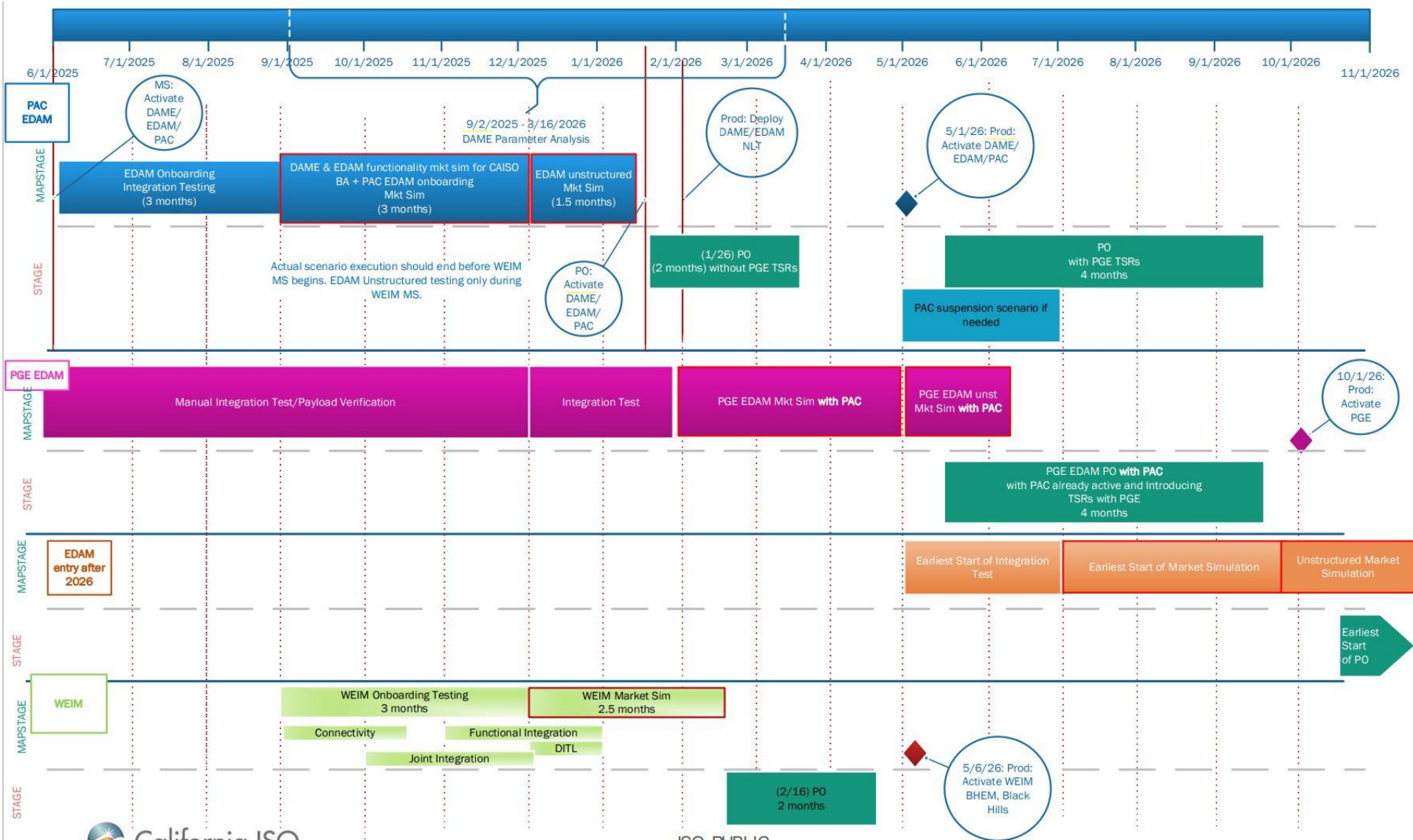
# DAME / EDAM / WEIM – Market Simulation Timeline

Initiative	Connectivity Testing	Integration Testing	Structured Market Sim	Unstructured Market Sim	Parallel Operations	Activation
<a href="#"><u>Day-Ahead Market Enhancements</u></a>	06/01/25 – 09/01/25	06/01/25 – 09/01/25	09/01/25 – 12/01/25	12/01/25 – 01/15/26	01/26/26 – 03/26/26 (EDAM OB)	05/01/26
<a href="#"><u>Extended Day-Ahead Market</u></a>	06/01/25 – 09/01/25	06/01/25 – 09/01/25	09/01/25 – 12/01/25	12/01/25 – 01/15/26	01/26/26 – 03/26/26 (EDAM OB)	05/01/26
<a href="#"><u>EDAM ISO BAA Participation Rules Track A</u></a>	06/01/25 – 09/01/25	06/01/25 – 09/01/25	09/01/25 – 12/01/25	12/01/25 – 01/15/26	01/26/26 – 03/26/26 (EDAM OB)	05/01/26
<a href="#"><u>Extended Day-Ahead Market On-Boarding - Pacificorp</u></a>	05/01/25 – 05/31/25	06/01/25 – 09/01/25	09/01/25 – 12/01/25	12/01/25 – 01/15/26	01/26/26 – 03/26/26	05/01/26
<a href="#"><u>Extended Day-Ahead Market - PGE</u></a>	11/01/25 – 11/30/25	12/01/25 – 03/01/26	03/01/26 – 04/30/26	05/01/26 – 06/12/26	06/01/26 – 09/15/26	10/01/26
<a href="#"><u>WEIM - Berkshire Hathaway Energy Montana</u></a>	09/01/25 – 10/17/25	10/01/26 – 11/30/26	12/01/25 – 02/13/26	NA	02/16/26 – 04/17/26	05/06/26
<a href="#"><u>WEIM – Black Hills</u></a>	09/01/25 – 10/17/25	10/01/26 – 11/30/26	12/01/25 – 02/13/26	NA	02/16/26 – 04/17/26	05/06/26

Note: [Spring 2026 Release Market Sim Plan](#) posted on Release Planning page. Developer related documentation available for [CMRI](#) and [OASIS](#) for DAME and EDAM. [EDAM Market Simulation Scenarios v1.1](#) and [From/To](#) document.



# DAME / EDAM / WEIM – Market Simulation Timeline



# Subscriber Participating Transmission Ownership Model (Subscriber PTO)

## **Connectivity/Integration Testing:**

- 08/11/25 – 08/15/25 (Phase 1)
- TBD - Phase 2

## **Unstructured Market Simulation:**

- 08/18/25 - 08/29/25 (Phase 1)
- 01/05/26 – 01/16/26 (Phase 2)

## **Activation:**

- 10/01/25 (Phase 1)
- 02/01/26 (Phase 2)

Note: Refer to Subscriber PTO BRS for overview of functionality. Phase 1 to include all functionality except for Settlements and CMRI, Phase 2 includes Settlements and CMRI only.

## Next Steps

- Work with your UAA to provision your organization's access to MAP Stage for access to the systems to execute Market Simulation
- Review BRS Market Simulation requirements, Market Simulation Plans, Market Simulation Scenarios and provide any feedback
- Register for participation in Market Simulation
- Attend the Release User Group Forums, every other week, for implementation updates, including active and upcoming Market Simulation activities
- During active Market Simulations, attend the weekly Market Simulation Forums

# 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 [marketsim@caiso.com](mailto:marketsim@caiso.com) with the same information

# Upcoming Meetings

- [Market Simulation Forum:](#)
  - Tuesday, July 24, 2025 @ 2:00 PM PT
- [Release User Group \(RUG\):](#)
  - Tuesday, June 24, 2025 @ 10:00 AM PT
- [CRR Customer Partnership Group \(CPG\):](#)
  - Thursday, June 19, 2025 @ 10:00 AM PT
- [Technical User Group \(TUG\):](#)
  - Tuesday, July 29, 2025 @ 10:00AM PT
- DAME, EDAM, EDAM CAISO BAA PR:
  - Thursdays 1PM PT (registered participants only)

# Market Simulation Support

- Email general questions to [marketsim@caiso.com](mailto:marketsim@caiso.com)
- Submit market simulation specific issues and questions in CIDI with subject: **“Project Name: System Name – Issue Title” with Functional Environment set to Market Simulation.**
  - If not related to a Project submit subject as “NA: System Name – Issue Title”
- Service Desk: (916) 351-2309