

April 1, 2025

10:00 a.m.-11:00 a.m. (Pacific Time)

Web Conference Information	Conference Call Information
Web Address: https://caiso.webex.com/caiso/j.php?MTID=m8f4dee2c7 059898b3609c46be3cd2c20	
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.	1-844-621-3956 United States Toll Free +1-650-479-3208 United States Toll Meeting number (access code): 2491 042 7352

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.

https://www.caiso.com/meetings-events/topics/release-users-group-rug

http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx

Release Plan Summary

Independent 2025 Releases

Highest Emergency Rating – April

Congestion Revenue Rights System Upgrade - April

CPM Enhancements Track 1* - May

FERC Order 2023 Generator Interconnection Life Cycle Release 2.3 – May

Hybrid Resources Phase 2C: RIMS* - May

FERC 881 – Managing Transmission Line Ratings Track 2 – Operational/EMS Model Data & Applications* – July

FERC Order 2023 Generator Interconnection Life Cycle Release 2.4 - Q4

Unwarranted Storage Bid Cost Recovery

Fall 2025 Release

Subscriber Participating Transmission Owner Model* - October Transmission Exchange Agreement – October

Spring 2026 Release

Day-Ahead Market Enhancements Activation* – May

Extended Day-Ahead Market Activation* – May

EDAM ISO BAA Participation Rules* - May

EDAM Onboarding - May

WEIM Onboarding – May

Future Release

WEIM FAB Enhancements

Enable Non-Generating Resources to Participate in Inter-SC Trade

Transmission Service & Market Scheduling Priorities Track 4

Settlement Upgrade Project – Next RUG/SUG quarterly update mid-April 2025

*Policy



BRS Stakeholder Comments & Reviews

- Stakeholders can now submit comments on Business Requirements Specifications
 - BRS Comments status:

Clos	sed	Ор	en	Up	coming
•	USBCR – thru 03/19/25 CPM Enhancements Track 1 EDAM ISO BAA PR v1.4 – thru 03/07/25 EDAM ISO BAA PR v1.3 – thru 01/24/25 DAME v1.4 – thru 01/24/25 WEIM Enhancements v1.1 – thru 01/16/25 EDAM ISO BAA PR v1.2 – thru 10/09/24 TSMSP2 v1.1 – thru 10/16/24 EDAM v1.3 thru 10/31/24	•	EDAM v1.4 – thru 04/11/25	•	DAME v1.5 – publish/open 04/09/25
•	DAME v1.3 thru 09/30/24 Subscriber PTO thru 08/15/24 FERC Order 2222 thru 080/9/24 EDAM ISO BAA Participation Rules v1.0-1.1 thru 08/02/24				

- Access from Release Planning at http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx or access from Policy page
- ISO will schedule BRS reviews as appropriate
- Learn how to use the commenting tool:
 - View presentation
 - View video





Independent 2025 Releases



2025 – Highest Emergency Rating

Project Information	Details/Date			
High Level Business Problem or Need	The project aims to primarily improve market robustness, performance, and the technology foundation for system grid reliability by updating functionality and interfaces to reduce workarounds, automating manual processes and addressing minor defects or functionality enhancements identified in by the business units.			
High Level Project Scope	duration in O Step 1 – HEF LC Tr Step 2 – Use FC M In Step 3 – We We HI	R data cleanup MS. R data cleanup MS in one of the existing slots A sansfer HER to RTCA during the network model build process A RTCA to update HER For interim changes to HER in between models, change the data directly ake the ER and HER duration and value fields editable clude validation to make sure HER is not less than the emergency rati bOMS changes fork with OATI to include a new field for HER ER can be updated in WebOMS in between model promotions bodates to HER will be sent to downstream systems	y in RTCA	and ER
BPM Changes	Not Impacted			
Tariff Changes	Not Impacted			
Impacted Systems	webOMS, HANA, Market			
Milestone Type		Milestone Name	Dates	Status
Board		Board	NA	
BRS		✓		
		D (OMO: THO	E I 07 0004	

Mile stone Type	Mile stone Name	Dates	Status
Board	Board	NA	
BRS	BRS BRS 1.1	Feb 15, 2024 Apr 10, 2024	√ √
Tech Spec	Present OMS in TUG OMS	Feb 27, 2024 Aug 19, 2024	√ √
Training	Training	Oct 28, 2024	✓
Market Simulation	HER OMS UI/API available Market Simulation	Nov 12, 2024 Feb 24 – Apr 03, 2025	✓
Production	Production	Apr 10, 2025	



2025 - Congestion Revenue Rights (CRR) Upgrade

Project Information	Details/Date
	The Congestion Revenue Rights (CRR) system was implemented by CAISO in 2008 as part of the Market Redesign and Technology Upgrade (MRTU) implementation. The current CRR system is at its end of life, does not have the flexibility to accommodate future policy changes and requires the ISO to calculate data and run processes manually outside the current system to produce a successful CRR Auction.
	The CAISO has decided on a significant upgrade of the existing CRR system and adopt the latest technology stack aligned with CAISO's technology standards, consolidate all CRR related functions, minimize human errors, reduce processing time, eliminate manual workarounds, and positions the system to accommodate policy changes down the road.
High Level Project Scope	 Congestion Revenue Rights (CRR) system replacement project scope is the roll-out of a: Brand new user-interface (UI) system with an updated new look-and-feel, to replace the existing legacy system implemented during the MRTU 2008 go-live and brought up to current ISO technology standards Set of application-programming interfaces (APIs) to enable integration between ISO and market participant systems Overall, to support the following in one consolidated CRR external-facing system: Annual/Monthly Auction and Allocation market participant bid submission and results retrieval Load data submission by CRR LSEs, CEC Load migration data submission by CRR UDCs Secured "Congestion Revenue Rights Full Network Model" information access Private and public access of CRR market input and output information
BPM Changes	Congestion Revenue Rights Enhancements made to the new CRR product. Automatic publishing of CRR market results. Automatic CRR notification. New CRR schedule calendar. New CRR FNM access. New CRR data submission and download interface UI/API. New CRR market results interface.
Tariff Change	No
Impacted Systems	CRR, AIM, CMRI, OASIS, CTS, Market Clearing, EMMS, IFM/RTN, MQS, Master File, MPP, Settlements, WebOMS, ETCC.



2025 - Congestion Revenue Rights (CRR) Upgrade

System	High Level Changes
CRR	Significant system upgrade including: Enhancements made to the new CRR application. Automatic publishing of CRR market results. Automatic CRR notification. New CRR schedule calendar. New CRR FNM access. New CRR data submission and download interface Ul/API. Other TBDs identified through BRS development.
AIM	New users and roles to support new CRR functionality
OASIS	 Publish CRR Calendar, and all available CRR market names, and credit margin information, 3 year historical expected value Allow authorized users to publish CRR inventory payloads Broadcast the following: set aside values, the results of all CRR markets, retired pnode/anode mapping, binding constraints, initial and updated CRR source and sink list for each CRR market,
стѕ	Broadcast
EMMS	CRR will consume data from EMMS
IFM/RTN	CRR will consume data from IFM/RTN
MQS	 MQS will consume and process SCID in a new format MQS will consume ownership payload in bulk
Master File	Master File will be modified as needed to support the new CRR functionality
МРР	CRR will provide pre-configured external reports
Settlement	Settlements will be modified as needed to support the new CRR functionality
WebOMS	CRR will consume data from WebOMS
ETCC	CRR will consume data from ETCC



2025 - Congestion Revenue Rights (CRR) Upgrade

Milestone Type	Milestone Name	Dates	Status
Board Approval	Obtain Board of Governors Approval	NA	
External BRS	Publish External BRS BRS Revision v1.7	Nov 16, 2022 Oct 28, 2024	✓
Tech Spec	Publish Technical Specification	Feb 24, 2023	✓
Training	Training	Nov 06 - Nov 08, 2024	✓
Customer Partnership	<u>Last CPG</u>	Mar 20, 2025	✓
Group	Next CPG	Apr 17, 2025 10:00 PT	
Market Simulation	Market Simulation Activities: • Structured Market Sim: • Week 1 (Note: OASIS is only during structured) • Week 2 • Week 3 • Unstructured Market Sim: • Week 4 • Week 5	02/18/25 to 02/20/25 02/25/25 to 02/27/25 03/04/25 to 03/06/25 03/18/25 to 03/20/25 03/25/25 to 03/27/25	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓
ВРМ	Congestion Revenue Rights - PRR 1619	Feb 28, 2025	✓
Production	Hard Cutover	Apr 28 – Apr 30, 2025	



2025 - CPM Enhancements Track 1

2020 01			
Project Information	Details/Date		
High Level Business Problem or Need	The ISO uses its capacity procurement mechanism (CPM) to address resource adequacy (RAISO can use its CPM authority to address specific circumstances defined by the following six 1. Insufficient local capacity area resources in an annual or monthly RA plan 2. A collective deficiency in local capacity area resources 3. Insufficient RA resources in a load-serving entity's annual or monthly RA plan 4. A CPM significant event 5. A reliability or operational need for an exceptional dispatch CPM 6. A cumulative deficiency in the total flexible RA capacity included in the annual or monthly flexible RA capacity plans When the ISO makes CPM designations, it resource owners. To attract such capacity, the ISO conducts annual, monthly and intra-monther resource owners may offer their capacity to the ISO at prices up to a soft offer cap, currently in Resource owners may also cost justify offers above the soft offer cap. The CPM Enhancement tracks. Track 1 addresses five operational and process enhancement issues, and the ISO is processed to the ISO and the ISO and the ISO is processed to the ISO and the IS	CPM designation types: lexible RA capacity plans, or in a flexible trelies on capacity willingly offered to the ally competitive solicitation processes, into set at \$7.34/kw-month. Its stakeholder initiative is comprised of a planning to take Track 1 for approval at the	capacity e ISO by o which at least two
High Level Project Scope	Proposal 4.1: Reducing the volume (MW) of significant event CPM designations when the designation of system changes, Leverage existing functionality, BPM changes Proposal 4.2: Reducing the term of significant event CPM designations when the designated unavailable to the ISO - Leverage existing functionality, BPM changes Proposal 4.3: CPM reporting - Leverage existing functionality, BPM changes Proposal 4.4: CPM market notices - Business process, BPM changes Proposal 4.5: CPM notifications to scheduling coordinators - System changes, BPM changes		
BPM Changes	Reliability Requirements, Settlements & Billing		
Impacted Systems	CIRA, OASIS (existing), <u>www.caiso.com</u> (business process)		
Milestone Type	Milestone Name	Dates Eab 26, 2025	Status

Milestone Type	Milestone Name	Dates	Status
BRS	BRS	Feb 26, 2025	✓
Tech Spec	Tech Spec	N/A	
Market Simulation	Market Simulation	N/A	
BPM	Reliability Requirements: PRR 1616	Jan 31, 2025	\checkmark
Production	Production	May 1, 2025	
alitornia ISO	ISO PUBLIC		Page 9

2025 – FERC 2023 Generator Interconnection Life Cycle

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Project Information	Details/Date
High Level Business Problem or Need	Effective with Cluster 15, the resource interconnection process will transition to maintain compliance with FERC Order 2023 using a new platform GRIP. This mandate will streamline the intake of generator interconnection requests, study processes, contracting and management of the queue.
High Level Project Scope	 Align the following Cluster 15 resource Interconnection processes to meet compliance of FERC Order 2023 tariff provisions: Transition from GIDAP to new Resource Interconnection Standard (RIS) procedures Initiate Cluster Request Window for Interconnection Request (IR) submission, Customer Engagement Window, Cluster Study process including scoping and results meeting, Reassessment process, Contracting and Queue Management Increase transparency of information to customers and public Cluster 14 and prior will initially remain in RIMS but will migrate to GRIP next year
Releases	Release 1 was to open the Cluster Request Window for IR submission on October 1 and close it on December 1 (Completed on 10/01/24). Release 1.5 for GRIP (Grid Resource Interconnection Portal) application included additional items (Completed on 11/14/24). Release 2 was primarily focused on meeting requirements necessary to support the Customer Engagement Window that begins on January 1, 2025 (completed on 12/20/24). Release 2.1 on 01/23/2025 primarily focused on meeting requirements necessary to validate applications in the Customer Engagement Window. Further releases will add the Engagement Window, in Q1 2025, Cluster Study Process module and Generation Interconnection Agreement module in Q3 2025 and Infrastructure Coordination module in Q4, 2025. The existing RIMS Application & Study data will be migrated to the GRIP platform in late 2025. Release 2.2 on 03/18/25: Focused on DocuSign and Project Ledger. The study agreements will be populated with the necessary data, approved, and executed (DocuSign integration) during the Customer Engagement Window Release 4 target Q4 2025

California ISO

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2025 – Hybrid Resources 2C RIMS

Project Information	Details/Date
High Level Business Problem or Need	The ISO launched this stakeholder initiative to identify new or enhanced market rules and business processes needed to accommodate hybrid resources, resources that consist of two sets of market rule changes that will facilitate mixed-fuel type (hybrid and co-located resources) project participation in the ISO markets. Prior to this initiative, Phase 1 identified a first set of modifications generally concerned with setting up and operating co-located resources. Building on phase 1, Phase 2 focuses on modifications that will explore how hybrid generation resources can be registered and configured to operate within the ISO market. The initiative will further develop solutions allowing developers to maximize the benefits of their resource's configuration. Additionally, hybrid resource configurations also raise new operational and forecasting challenges that the ISO plans to address during this initiative.
High Level Project Scope	With this initiative, there's an opportunity to increase storage and the number of hybrid resources that can connect to the ISO grid. Currently the interconnection queue includes more than 24,000 MW of mixed fuel projects and nearly 20,000 MW of storage which represents roughly half of all generation in the current interconnection queue.
BPM Changes	Settlements & Billing
Impacted Systems	Summer 2023: Settlements Fall 2023: Metered Quantities for Hybrids Independent 2025: RIMS Completed: Today's Outlook, ISO Today Mobile Application, Reports
Requirements	http://www.caiso.com/Documents/BusinessRequirementsSpecifications-HybridResourcesPhase2.pdf
California i	NO FUBLIC

2025 – Hybrid Resources 2C RIMS

Milestone Type	Milestone Name	Dates	Status
External BRS	Publish External BRS Revision – Add 4 Market Simulation Business Requirements	Jan 31, 2023 Jan 04, 2024	✓
Settlements Config Guides	NA for RIMS	NA	
Tech Spec	Create and Publish ISO Interface Spec (Tech Specs)	NA	
Training	Training Webinar	Mar 05, 2025	✓
Market Simulation	Market Simulation	NA	
Production Activation	Hybrid Resources 2C – RIMS	May 15, 2025	



Hybrid Resources Phase 2C – RIMS Project

Current Process: Excel Site Sheet

On the New Resource Implementation (NRI) page, users download and fill out an excel format, Wind and/or Solar Site Information Sheet.

New Process: Shapefile Submission

A Shapefile is a Geographic Information System (GIS) file with the ability to plot points within it; an easy way to get a layout for the site. There are several software options to choose from.

Early User Action

<u>Determine the appropriate Shapefile software compatible with your organization's system.</u> Once a software is determined, start using the ISO's CSV templates for the requirements of Solar/Wind projects, to practice creating Shapefiles (ahead of Market Sim).

Solar Templates <i>(.CSV)</i>	Wind Templates (.CSV)
Project Coordinates (latitude, longitude)	Project Coordinates (latitude, longitude)
Met Station Coordinates (ID, latitude, longitud	le) Met Station Coordinates (ID, latitude, longitude)
	Turbine Info (turbine ID, latitude, longitude, elevation, hub height)
C 1:1 : 1CO	

Hybrid Resources Phase 2C – RIMS Project

Resources

- This <u>readiness note</u> provides an example using the Quantum Geographic Information System (QGIS). Please note, that while the ISO uses this software as an example, this is not the only option.
- The CSV templates are located on the <u>Release Planning page</u> under this project's heading.
 Hybrid resources phase 2-C RIMS
 - Business Requirements Specification Hybrid Resources Phase 2-C RIMS POR 01/04/20
 - Readiness Notes Sample Shapefile Submission Walkthrough 🖭 02/14/2025, 8:38 AM
 - <ProjectID>TurbineInfo.csv 02/13/2025, 11:52 AM
 Turbine Info Template is for only Wind components.
 - <ProjectID>ProjectCoordinates.csv 02/13/2025, 11:52 AM
 Project Coordinates Template is for both Solar and/or Wind components.
 - <ProjectID>MetStationCoordinates.csv 02/13/2025, 11:52 AM
 Met Station Coordinates Template is for both Solar and/or Wind components.

Key Dates

Market Simulation: April 2025External Training: May 2025



2025 – FERC 881 – Managing Transmission Line Ratings

Requested FERC Acceptance of Extension of Time & Tariff Revisions

Publish BRS - Track 1 (Updates & Added FAC-011)

Track 2 Operational/EMS Model Data & Applications

Track 3 Market Application and Look Ahead Applications

Publish BRS - Track 2

Publish BRS - Track 2 (Updates)

Track 1 Real-Time Reliability Applications

Market Simulation webLineR

Project Information	Details/Date		
High Level Project Scope	This initiative will address the California ISO's compliance with FERC Order No. 881 in establishing new transmission line rating requirements Order No. 881 establishes new transmission line rating requirements for public utility transmission providers Establish and use ambient-adjusted ratings and seasonal ratings for all transmission lines unless excepted Use AARs for near-term transmission service requests Use seasonal rating for long-term transmission service requests RTOs/ISOs must implement systems and procedures to allow transmission owners to electronically update transmission line ratings at least hourly Use uniquely determined emergency ratings for contingency analysis in the operations horizon and in post-contingency simulations of constraints Implement transparency reform		
Milestone Type	Milestone Name	Dates	Status
Tariff	FERC Acceptance ER22-2362	Apr 20, 2023	✓
	FERC Acceptance Tariff Revisions	Dec 13, 2023	✓
	Filed Motion for Extension of Time	Jan 27, 2025	✓
	Draft Tariff Filing	Feb 06, 2025	✓



BRS

Market Simulation

Production

Jan - Jul 2026 Phased Implementation

Apr 15, 2025

Jun 11, 2024 Nov 22, 2024

Apr 04, 2025

Jun 2025

Jan - Jun 2025

Apr 1, 2024/Dec 10, 2024

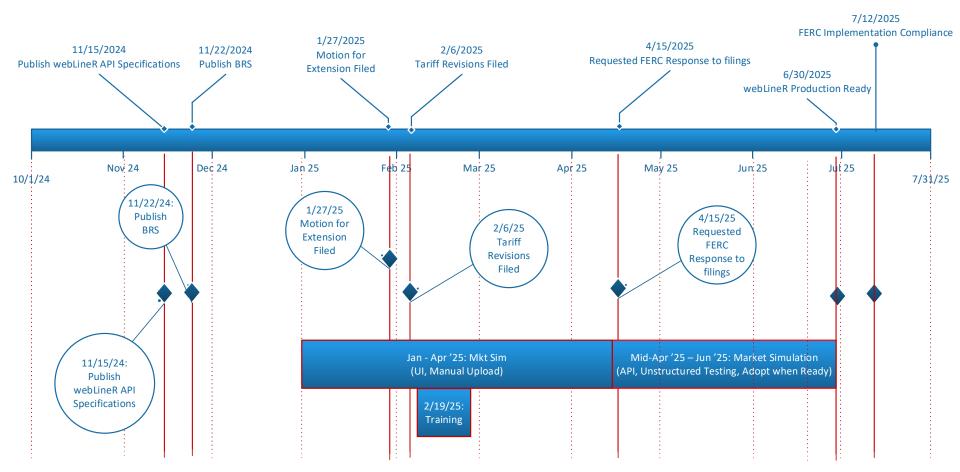
CAISO/RCWEST FERC 881 Implementation:

- Track 1 and Track 2 are in flight to be completed by June 2025.
 - Track 1 Real Time Reliability Applications
 - Target Capability ready by end of December 2024.
 - Final changes will remain inactive until webLineR is ready for production
 - Track 2 Operational/EMS Model Data and Applications
 - webLineR product will be utilized for receiving Look ahead ratings.
 - Target Capability to be ready June 2025
 - External user training completed on Feb 19, 2025
 - Phased Market Simulation planned for Jan –Jun 2025
 - Jan 2025: Limited Market Simulation will consist of:
 - » Connectivity
 - » User Access / Provisioning
 - » User Interface (UI)
 - » Manual data upload
 - » B2B API mock service available
 - Apr 2025: Full Market Simulation
 - » B2B API submissions and validation
 - » Unstructured Scenarios
 - Track 3 Market Application and Look Ahead Applications
 - Proposing a delayed phased in implementation.
 - CAISO/RCWEST filed with FERC motion for extension of time Jan 27, 2025.



webLineR Milestone Timeline

3/17/2025 FERC 881 webLineR





CAISO RCWEST Compliance Phased In Implementation

December 2024

CAISO/RCWEST EMS/EMNA/HANA applications can receive real time AAR ratings through ICCP. Only reliability apps and no markets usage.

TOP can send

AAR ratings

June 2025

New webLineR tool will be ready to receive 240 hrs of AAR.

TR and webLineR will be ready to receive 4 seasonal ratings

TOP can send Seasonal and AAR ratings.

Monitor and evaluate ratings

January 2026

real time markets into production.

Enable usage of AAR in EIM market for WEIM entities.

Entities can choose to enable usage of AAR in real time markets

April 2026

FERC 881 code changes for Day ahead markets into production.
Entities that participate in both markets can

participate in both markets can choose to enable usage of AAR.

Enable Usage of AAR in DACA/LACA / LTCAand IOOC. Look ahead reliability applications.

July 2026

Complete remaining compliance work.

Nomograms and usage of AAR in RAS.

Usage of AAR in ETCC/Webwheel and TTC calculations and post hourly ATC.

Seasonal COI and other Path Limits calculations.



CAISO RCWEST Phased In Implementation

- FERC 881 code for real time and day ahead markets will be included in EDAM code delivery and market simulation activities.
- Enable usage of AAR in real time markets for WEIM entities in January 2026.
- Enable usage of AAR in day ahead markets in April 2026.
- Enable usage of AAR in look ahead reliability applications in April 2026.
- Enable usage of AAR in ETCC/Web wheel for hourly TTC calculations by July 2026.



Implementation Forums

Forum	Summary	Schedule	Presentations & Recordings
Release User Group (RUG)	Discuss project milestones and deliverables	Tuesday every other week 10-11 AM PT	https://www.caiso.com/ meetings- events/topics/release- users-group-rug
Technical User Group (TUG)	Discuss technical design, implementation, and evolution	Tuesday every other week 10-11 AM PT	*https://developer.caiso .com/Pages/Meetings/t echnical-user- group.aspx
Market Simulation Forum	Covers active and upcoming customer testing activities	Typically Thursday weekly – refer to Calendar 2-3 PM PT	https://www.caiso.com/ meetings- events/topics/market- simulation-meeting

These are available on the CAISO Calendar: https://www.caiso.com/meetings-events/calendar

^{*}Developer site requires active user account – please submit registration request at https://developer.caiso.com



Implementation – webLineR Interfaces & References

Interface/Reference	Status	Summary	URLs
FERC881 Business Requirements Specification	Available	 FERC 881 implementation requirements Includes webLineR access/role information Includes Market Simulation Guidance for customer testing in "MAP Stage" environment once that activity starts 	http://www.caiso.com/informed/P ages/ReleasePlanning/Default.as px > FERC order 881 > BRS Track 2
Access & Identity Management (AIM)	Available	 Use to Provision User/Certificate Access webLineR – work with your organization's User Access Administrator 	https://aim.caiso.com/
webLineR API Documentation / Specifications	Available	yaml filesOpenAPI specifications	*https://developer.caiso.com/pag es/application.aspx?app=WEBLI NER
API Tutorials – REST API services	Available	 Instructions for configuration of and use of a mock API service via cURL command, Python and Postman (a free tool for API testing) 	*https://developer.caiso.com/pag es/tutorials.aspx
webLineR API Mock Services	Available	 Standalone services to test API connectivity and interaction Not integrated with webLineR system Preview of webLineR APIs 	https://mapstage- apimock.caiso.com/mocks?appn ame=webliner
webLineR User Interface	Available	 In non-Production, "MAP Stage" environment This is the connected with the native MAP Stage webLineR system Requires CAISO certificate and access – work with your UAA 	https:/mapstage- webliner.caiso.com
webLineR API	Apr 2025	 Will be in non-Production, "MAP Stage" environment Requires CAISO certificate and access – work with your UAA Will be integrated with native MAP Stage webLineR system 	Will be provided closer to start of API connectivity tests April 2025

^{*}Developer site requires active user account – please submit registration request at https://developer.caiso.com



Implementation – webLineR Access Matrix

Belongs to	Org Type	Read Only	Define Data	Read/Write	Define Data
CAISO BAA and EDAM/WEIM					
Market Participants and Non-			CAISO only Equipment and	ļ	
Market Participants		Yes	Rating Data	No	N/A
	RC				
		ļ	l l		Į l
	Note: EIM and EDAM		İ		Į i
RC WEST	Entities included	Yes	All Equipment and Rating Data	No	N/A
	TOP				
			İ		Į l
	Note: EIM and EDAM		Ì		Read to all and Write to their
RC WEST	Entities included	Yes	All Equipment and Rating Data	Yes	own equipment only
	BAA		İ		Į i
			İ		Į i
	Note: EIM and EDAM	ļ	l	\ 	l i
RC WEST	Entities included		All Equipment and Rating Data	No	N/A
		No			
		Note: Cannot access webLineR data directly but			
Not RC WEST		can get information if needed through their			6
(Not WEIM Market)	TOP		N/A	No	N/A
		No			
		Note: Cannot access webLineR data directly but			
Not RC WEST		can get information if needed through their			
(Not WEIM Market)	BAA	Reliability Coordinator.	N/A	No	N/A
Not RC WEST		<u> </u>	l	\	Read to all and Write to their
(Not WEIM Market)	RC	Yes	All Equipment and Rating Data	Yes	own TOP equipment only
Not RC WEST	TOD SINA	[_{w-}	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ <u>\</u>	Read to all and Write to their
(WEIM Market)	TOP-EIM	Yes	All Equipment and Rating Data	res	own equipment only
Not RC WEST	DC.	Ves	All Faurings and a self-Self-Self-Self-Self-Self-Self-Self-S	No.	1,1/2
(WEIM Market)	RC	Yes	All Equipment and Rating Data	INO	N/A
	BAA (Like EIM NON RC		İ		[
	OMS CONTRACT FOR	Ves	All Favings at and Balling Ball	No.	1,1/2
(WEIM Market)	EIM)	Yes	All Equipment and Rating Data	INO	N/A
Not RC WEST (WEIM Market)	EDAM	Vos	All Equipment and Bating Date	No.	1,1/0
Not RC WEST	EDAM	Yes	All Equipment and Rating Data	INU	N/A
(WEIM Market)	EIM	Yes	All Equipment and Bating Date	No	N/A
Not RC WEST	LIIVI		All Equipment and Rating Data	INO	IN/A
(WEIM Market)	EIM BAA TO	Yes ISO PUBLIC	All Equipment and Pating Data	No	N/A
(VV Elivi Iviai ket)	LIIVI DAA TU	162	All Equipment and Rating Data	INU	IN/A

2025 – Unwarranted Storage Bid-Cost Recovery

Production

Production

2020 011	warrarr	tod Otorago Bla Goot Roook	31 y	
Project Information	Details/Date			
High Level Business Problem or Need	 The CAISO proposes to modify the real-time bid cost recovery calculations for storage resources to consider other cost proxies in addition to the real-time energy bid cost in all real-time intervals, thus mitigating the risk of energy bids unduly inflating bid cost recovery payments. These cost proxies will ensure storage resources remain eligible for bid cost recovery but will reduce the potential for unwarranted bid cost recovery payment. These calculations will apply to all intervals. For resources that are "dispatched up", the real-time energy bid cost component in the RT BCR calculation would be replaced by the minimum of the bid and the maximum of (RT DEB, RT LMP, and DA LMP). For resources that are "dispatched down", the real-time energy bid cost component in the RT BCR calculation would be replaced by the maximum of the bid and the minimum of (RT DEB, RT LMP, and DA LMP). In either case, the alternative of using the DA LMP is only applicable to storage resources with a DA Schedule. The phrase "dispatched up" or "dispatched down" is relative to the prior market. A resource is dispatched up if the FMM dispatches a storage resource to increase its discharge or decrease its charge relative to its Day-Ahead Energy Schedule (DAES), or if the five-minute RTD market dispatches a storage resource to increase its discharge or increase its charge relative to the DAES, or if the FMM dispatches the resource to decrease its discharge or increase its charge or increase its charge relative to its FMM schedule. 			
High Level Project Scope	Modify the formula used to calculate RT BCR for Limited energy storage resources (LESRs) to limit the opportunity for adverse financial outcomes and outsized operational costs in the FMM and RTD for intervals with and/or without a DA Schedule Energy (DASE) or Base Schedule Energy (BASE).			
BPM Changes	Market Operations: Update for internal system MQS to revise the EEA for final bid prices for LESRs.			
Tariff Changes	Yes			
Impacted Systems	Internal System: MQS			
Milestone Type		Milestone Name	Dates	Status
BRS		BRS	Mar 07, 2025	✓
Tech Spec		NA	NA	NA
Tariff		File ER25-576 FERC acceptance	Nov 26, 2024 Feb 20, 2025	✓
BPM		Market Operations PRR		
Market Simulation		Market Simulation	TBD	

Retroactive to Dec 01, 2024

Fall 2025 Release



Fall 2025 - Subscriber Participating Transmission Ownership Model

Project Information

Details/Date

High Level Business Problem or

Need

The Subscriber Participating Transmission Owner (Subscriber PTO) model is a new transmission development option available for transmission projects with generation development opportunities outside the CAISO balancing area to bring generation to meet California's policy initiatives. The model specifically supports CPUC generation portfolios required by the memorandum of understanding with the California State agencies and the CAISO. Accordingly, the Subscriber PTO model allows for additional transmission to be developed to connect the CAISO BAA with out-of-state generation that currently lack the necessary transmission to provide electricity to the CAISO BAA. The Subscriber PTO model thereby provides an option for projects not chosen in the transmission planning process to solicit Subscribers who then pay for the project (generation and transmission) and join the CAISO balancing area.

The new Subscriber PTO Model enables a subscriber PTO to develop its project without recovering the costs for its project through a transmission revenue requirement. At the same time, those who have paid for the project, *i.e.*, the subscribers, are exempt from congestion and other related costs on the subscriber PTO line because the subscribers will receive similar treatment and priority to existing contract rights holders (ETCs). Additionally, the Subscriber PTO model provides a mechanism for subscribers that financed the project and associated network upgrades the ability to receive reimbursement for those costs from non-subscribers that use the Subscriber PTO transmission facilities.

High Level Project Scope

- Develop Subscriber PTO Model: account for a new PTO model that does not increase the Transmission Revenue Requirement (TRR) of the Transmission Access Charge / Wheeling Access Charge (TAC/WAC)) and provides those who funded the project ("subscribers") with Existing Transmission Contract (ETC) designation to account for their rights on the CAISO controlled grid
 - Revise the TAC allocation process to fund the non-Subscriber usage payment amount ahead of allocation to the non-load serving PTOs
- Charge non-subscribers for use of the Subscriber PTO line the applicable non-subscriber usage rate (\$/MWH)
- Create a mechanism that allows for the payment to the Subscriber PTO for non-subscriber usage of the Subscriber PTO transmission facility:
 - Compare the Non-Subscriber Usage rate(s) (\$/MWh rate approved by FERC) to the TAC rate and pay the Subscriber PTO the lower of the two values
 - Create a flag to denote when the Non-Subscriber Usage Rate is higher than the TAC rate and publish results in the ISO bill determinant file
 - Indicate monthly gross exports and imports for Non-Subscriber usage of the Subscriber PTO transmission line
 - o Indicate the TAC rate and the Non-Subscriber Usage Rate(s) as part of the Settlements TAC reports
- Develop methodology to address economic BAA to BAA transfers at new scheduling points created by Subscriber PTO transmission lines

Fall 2025 - Subscriber Participating Transmission Ownership Model

System	High Level Changes
BPM Changes	 Definitions and Acronyms Generator Interconnection and Deliverability Allocation Procedures Market Instruments Market Operations Reliability Requirements Settlements & Billing Transmission Planning Process
Tariff Changes	 Section 4: Roles and Responsibilities Section 16: Existing Contracts Section 24: Comprehensive Transmission Planning Process Section 25: Interconnection of Generating Units and Facilities Section 26: Transmission Rates and Charges Appendix A: Master Definition Supplement Appendix F: Rate Schedules Appendix DD: Generator Interconnection Deliverability Allocation Procedures
Impacted Systems	s
MF	Develop Subscriber PTO model: including new participant type, new TAC area, new UDC, new WAC rules, and mapping
CIRA	 Identify resources subject to MIC and stablish MIC at Sub PTO scheduling points/interties Define RA obligation
SIBR	Receive ETC designation and support bidding rules for subscriber generating resources (existing functionality)
ITS	 Consume new tie points and/or ITCs Add Subscriber PTO loss resource IDs to loss table
IFM/RTM	 Calculate ASRS Consume all hourly MSSC values
Settlements/ DReAMS	 Develop new bill determinants Calculate financial loss return Apply existing ETC rules Update TAC/WAC revenue allocation process to include non-subscriber usage rate Update configuration guides and bill determinants Exclude Subscriber PTO UDC areas from UFE
i	

Fall 2025 - Subscriber Participating Transmission Ownership Model

		Dates	
Milestone Type	Mile stone Name	*Tentative	Status
Policy	Straw Proposal	Feb 13, 2023	✓
	Draft Final Proposal	Apr 10, 2023	✓
	Revised Draft Final Proposal	May 15, 2023	✓
	Final Proposal	Jun 22, 2023	\checkmark
Tariff	First Draft Tariff Posting	Jun 22, 2023	\checkmark
	Second Draft Tariff Posting	August 08, 2023	\checkmark
Board Approval	Board approval	July 20, 2023	✓
BRS	Publish BRS v1.0	Jul 26, 2024	✓
Settlements Config Guides	Post Draft Configuration Guide	Mar 2025*	
Tech Spec	Publish Technical Specifications	Apr 2025*	
BPMs	Post Draft BPM – Definitions and Acronyms		
	Post Draft BPM – Generator Interconnection and Deliverability Allocation Procedures		
	Post Draft BPM – Market Instruments	4 000 5 *	
	Post Draft BPM – Market Operations	Apr 2025*	
	Post Draft BPM – Reliability Requirements		
	Post Draft BPM – Settlements and Billing		
	Post Draft BPM – Transmission Planning Process		
Training	Training	Jun – Sep 2025*	
Market Sim	Market Sim Scenarios	Apr 2025*	
	Market Sim Window	Jun - Aug 2025*	
Deployment	Production Deployment	Oct 2025*	
Activation	Production Activation	Oct 2025*	



Fall 2025 – Transmission Exchange Agreement

Project Information	Details/Date
High Level Business Problem or Need	The ISO is committed to develop a process or system that allows Western Area Power Administration – Sierra Nevada Region ("WAPA") to resell some or all of their 400 MW ownership rights on the PACI#1 line to other SCIDs and retain the perfect hedge and scheduling priority to further contract negotiations to extend the term of the Transmission Exchange Agreement. The Transmission Exchange Agreement ("TEA") with WAPA-SNR, PG&E and ISO is scheduled to expire 9/30/2024. A term of the original agreement executed in 2004, was that the ISO would develop a system that allowed WAPA to sell their unused capacity on their line. This project provides solution to the scheduling issue which needs to be in place by June 2024 to ensure that the ISO has solved the problem and support filing an amendment and extension of the TEA at FERC.
High Level Project Scope	 WAPA needs functionality to sell their TOR to other parties on their OASIS. If the TOR rights are sold then WAPA will notify the CAISO to provide the purchaser the hedging and scheduling priority opportunity provided all ETCs/TORs. The market and settlement systems need to be able to "move" the Contract Reference Number ("CRN") from the WAPA CRN to the purchaser SCIDs so that the settlement to the purchaser SCID reverses the costs of the transmission access charge and congestion (aka the perfect hedge) and provides a high scheduling priority in the IFM and RTM. WAPA will not take on the obligation to settle with their purchaser. WAPA can sell any increments of MWs up to their 400 MW ownership rights. Therefore, the solution needs to be flexible enough to allow the "existing" TORs to vary the MWs capabilities. [Note: The MW increments to be sold can be no less than 5 MW.] WAPA's functionality allows them to schedule between Malin and Round Mountain, Malin and PG&E DLAP, and Malin and Tracy. This would be the source and sink that that functionality needs to provide. If there are outages on the line, the curtailment should be consistent with current practice.
BPM Changes	Settlements Configuration Guides
Tariff Changes	N/A
Impacted Systems	AIM, MF, CMRI

Fall 2025 – Transmission Exchange Agreement

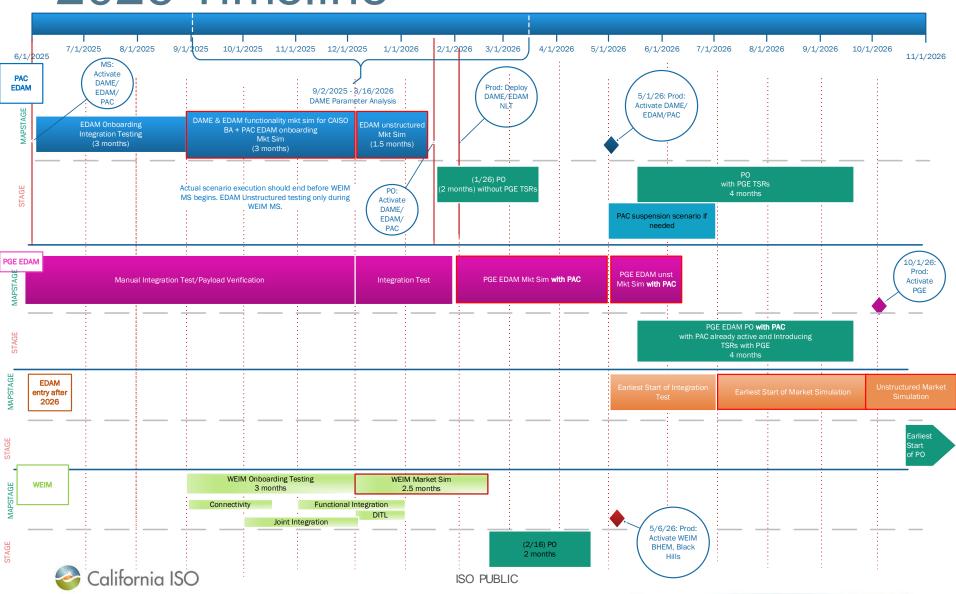
Milestone Type	Milestone Name	Dates	Status
External BRS	Post External BRS	Sep 03, 2024	√
BRS	Provide to WAPA	Jan 23, 2024	✓
Settlements Config Guides	Tech Doc 1st Draft Config File & Release Component Summary	Feb 12, 2024 Mar 04, 2024	✓
Tech Spec	Create ISO Interface Specifications – CMRI UI: The current CMRI CRN report is not being changed. WAPA will be able to see Sub CRNs mapped to its own Parent CRN	Mar 26, 2024	√
Tariff	NA	NA	
BPMs	Draft BPM changes – Settlements & Billing PRR 1559	Mar 20, 2024	\checkmark
Market Simulation	Market Simulation – WAPA	Jul 2025 (Tentative)	
Production Activation	Transmission Exchange Agreement Renegotiation	Oct 2025 (Tentative)	



Spring 2026 Release



2026 Timeline



Spring 2026 – ISO Led Training Schedule for EDAM and DAME Projects

Date	Activity	Audience		
June 2025 (Rescheduled from April by EDAM entity request)	 EDAM Onboarding: Train-the-Trainer Sessions June 23 – 26, 2025 	EDAM entity designated trainers (closed sessions for onboarding entities only)		
August 18, 2025 (tentative date – target is 1-2 weeks before market sim)	DAME Overview: Pre-Market Sim Training	ISO BA customers that participate in Day- Ahead Market		
August 19, 2025 (tentative date – target is 1-2 weeks before market sim)	DAME Settlements: Pre-Market Sim Training	ISO BA customers that participate in Day- Ahead Market		
August 20, 2025 (tentative date – target is 1-2 weeks before market sim)	EDAM CAISO BAA Participation Rules: Pre-Market Sim Training	ISO BA customers that participate in Day- Ahead Market		
	[Market Simulation Activity]			
April 2026 (date TBD – target is 1-2 weeks before go-live)	DAME: Pre Go-Live Refresher TrainingOverview sessionSettlements session	ISO BA customers that participate in Day- Ahead Market		
April 2026 (date TBD – target is 1-2 weeks before go-live)	EDAM CAISO BAA Participation Rules: Pre Go-Live Refresher Training	ISO BA customers that participate in Day- Ahead Market		
	May 1, 2026: DAME & EDAM Production Activation			

Rev. 2/26/2025



Spring 2026 - DAME/EDAM/EDAM ISO BAA PR – Settlements Tech Doc Update

√ We published updates to the DAME/EDAM/EDAM ISO BAA PR Technical Documents on 1/30/25.

- All tiers (1-3) have been updated with "Posted" date of 01/30/2025.
- Please use link below to our Release Planning site to download latest copy.
 - Release planning | California ISO
- Please use CIDI for any questions.
- Most previous Tech Docs were updated
- This update includes new Tech Docs which were not part of tiers 1-3
- These <u>new</u> Tech Docs will be placed in tier 3
- All <u>existing</u> Tech Docs that were updated will be placed back in their original tier
- These updates can easily be identified by looking at "Posted" date
- This update includes a Doc format change per CAISO website posting requirement, all posted tech doc files will be in docx format (previously it's doc format). But vast majority of the updated Tech Doc files include content change as well.
- External notification was sent out after 01/30/25 posting

✓ Published DAME and EDAM Charge Code Change Summary on 03/03/25

- We have published all 126 impacted Settlements Charge Code Change Summary for DAME and EDAM in the link below. This is posted under "Fall 2025 Settlements Release DAME and EDAM tier 3 technical documents". This sheet includes technical document name, charge code name and charge code description. In order to help with validation, please use column "E" to filter for different tiers and column "F" to filter for new charge codes.
- DAME and EDAM Charge Code Change Summary
- 1st DAME/EDAM Config Output File is scheduled for 4/29/25, together with another round of updated Tech Doc posting and Charge Code Matrix.



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Spring 2026 – Day Ahead Market Enhancements

Project Information	Details/Date
	In recent years, Variable Energy Resource (VER) have gained significant traction in the energy grid, playing a crucial role in achieving renewable energy targets and reducing greenhouse gas emissions. However, their increasing presence has introduced a new challenge energy imbalances between the Day Ahead and Real Time markets.
High Level Business Problem or Need	Another reason for the energy imbalance is the day-ahead market operates on hourly time increments, whereas real-time market schedules energy in 15 and 5-minute intervals. This discrepancy in granularity results imbalances since the rea-l-time market schedules fluctuate within the hour while day-ahead market schedules remain fixed for the entire hour.
	These imbalances necessitates out-of-market interventions by operators, such as forecast biasing and dispatches, to uphold grid reliability. However, this situation presents an opportunity to improve our market software, enabling us to achieve a more efficient and economical solution while addressing the variability and reliability concerns within the market.
High Level Project Scope	 Enhance the California ISO's (CAISO's) day-ahead market by: Introducing an imbalance reserve (IRU/IRD) product to provide flexible capacity to account for real-time ramping needs Enhancing the residual unit commitment process to also ensure there is sufficient downward dispatch capability (RCU/RCD) Enhancing the day-ahead market to maximize benefits of greater West-wide diversity in the day-ahead optimization for Western Energy Imbalance Market participants
BPM Changes	Settlements and Billing, Market Instruments & Market Operations
Tariff Changes	Sections 27, 31, 34, 39
Impacted Systems	MF, SIBR, DAM, OASIS, CMRI, Settlements & Internal Systems



Spring 2026 – Day Ahead Market Enhancements

System	High Level Changes
MF	Define IRU, IRD, RCU, RCD eligibility for the resource ID in MF.
SIBR	IRU,IRD,RCU,RCD bid rules
DAM	 Calculate IRU/IRD requirements MPM: Market Power Mitigation for IRU/IRD IFM: procure IRU/IRD IRU/IRD deployment scenarios IRU/IRD requirement distribution IRU/IRD in NA-AC power flow Include IRU/IRD in constraints RCU/RCD procurement RUC-MPM pass Impact on RUC performance with additional MPM pass LMP for EN, IRU/IRD, RCU/RCD
OASIS	IRU, IRC, RCU,RCD related public reports
CMRI	IRU, IRC, RCU,RCD related private reports
Settlements	IRU, IRC, RCU,RCD Settlements

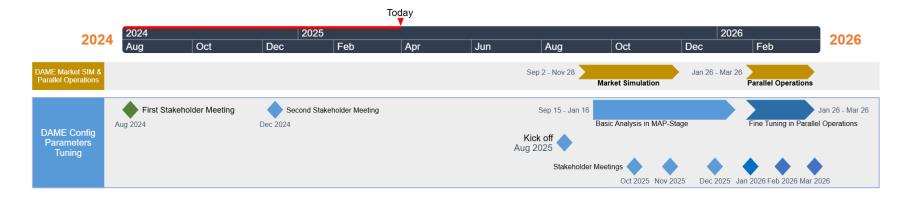


Spring 2026 – Day Ahead Market Enhancements

Milestone Time		Datas	Ctotus
Milestone Type Board Approval	Milestone Name Board briefing/approval	Dates May 17, 2023	Status √
External BRS	Publish External BRS v1.0	Jul 25, 2023	→
Laternal Bito	Publish External BRS v1.1	Dec 22, 2023	
	Publish External BRS v1.2	Apr 24, 2024	· /
	Publish External BRS v1.3	Aug 02, 2024	
	Publish External BRS v1.4	Dec 23, 2024	1
	Publish External BRS v1.5	Apr 09, 2025	
Settlements Config Guides	Post Draft Config Guides - First set of charge codes	Jan 16, 2024	✓
Commonite Coming Canada	Post Draft Config Guides - Second set of charge codes	Mar 26, 2024	✓
	Post Draft Config Guides - Third set of charge codes & updates to First & Second sets	Aug 26, 2024	✓
	Post Updates to Tech Docs (Tiers 1-3)	Jan 30, 2025	✓
	1st Config Output File w/ Updated Tech Doc posting & Charge Code Matrix	Apr 29, 2025	
Tech Spec	Publish Technical Specifications – OASIS	Nov 09, 2023	✓
	Publish Technical Specifications – MF		
	Publish MF GRDT v19.0 DRAFT	Nov 21, 2023	√
	Publish Technical Specifications - SIBR	Nov 28, 2023	✓
	SIBR/BSAP/R CBSAP Rules Release Notes	Mar 05, 2024	✓
	SIBR SC User Guide	Mar 05, 2024	✓
	Publish Technical Specifications - CMRI	Dec 15, 2023	✓
	Publish Technical Specifications - CMRI Revision	Mar 10, 2025	✓
Tariff	First Draft Tariff Posting	Jun 02, 2023	✓
	Second Draft Tariff Posting	Jul 11, 2023	✓
	FERC Filing	Aug 22, 2023	✓
	Receive FERC order – Acceptance in part	Dec 20, 2023	✓
	Draft Compliance Filing Posting	Feb 05, 2024	✓
	Compliance Filing	Feb 16, 2024	✓
BPMs	Business Practice Summary (New)	Apr 25, 2024	✓
	Post Draft BPM - Scheduling Coordinator Certification and Termination	Jan 31, 2025	✓
	Post Draft BPM - Market Instruments	Jul 01, 2025	
	Post Draft BPM - Market Operations	Jul 01, 2025	
	Post Draft BPM - Settlements and Billing	Jul 01, 2025	
	Post Draft BPM - Definitions and Acronyms	Jul 01, 2025	
Configurable Parameters	Implementation Working Group Meeting	Aug 07, 2024	√
	Implementation Working Group Meeting, comments open thru 01/10/26	Dec 11, 2024	✓
	Implementation Working Group Kick-Off	Aug 2025	
External Training	External User Training	Aug 2025	
Market Sim	Fall 2025 Release Market Simulation Plan	Jan 24, 2024	√
	Market Sim Scenarios	Aug 04, 2023	√
Bus describes Describes as a	Market Sim Window	Sept 02 - Nov 21, 2025	
Production Deployment	Day Ahead Market Enhancements (Inactive)	NLT Feb 01, 2026	
Production Activation	Day Ahead Market Enhancements (Financially Binding)	May 01, 2026	

DAME Configurable Parameters Working Group: Timeline

- The CAISO is accommodating requests to extend the timeline of the working group effort and adjusting the timeline to facilitate additional working group sessions
 - additional working group sessions
 - Start session earlier than originally proposed
 - Kick-off session in August 2025
 - Monthly working sessions starting in October



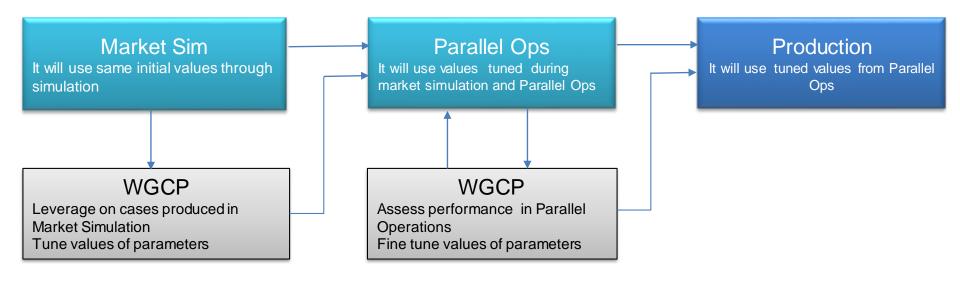


Proposed time schedule for WGCP based on part of the overall DAME/EDAM schedule

- Overall schedule includes formal stages of
 - Market Simulation
 - Parallel Operations
- Analysis of configurable parameters can start only after market application is functional and readily available
- Although effort for WGCP will happen concurrent to Market Simulation and Parallel Operations, it is an independent effort
- The WGCP will leverage on Market Simulation and Parallel Operations efforts to perform analysis on the parameters



Although the WGCP effort will happen concurrent to Market Simulation and Parallel Operations, it is a separate effort



Useful links for Market Sim and Parallel Operations

https://www.caiso.com/documents/draftmarketsimulationplan-fall2025release.pdf

https://www.caiso.com/documents/marketsimulationstructuredscenarios-dayaheadmarketenhancements.pdf

https://www.caiso.com/documents/marketsimulationstructuredscenarios-extendeddayaheadmarket.pdf

https://www.caiso.com/documents/draft-parallel-operations-plan-edam-dame-2026.pdf



Spring 2026 – Extended Day Ahead Market (EDAM) Implementation

Project Information	Details/Date
High Level Business Problem or Need	The purpose of this initiative is to create a comprehensive extended day-ahead market that extends over multiple balancing authority areas (BAAs) participating in the Western Energy Imbalance Market (WEIM). EDAM is a voluntary day-ahead electricity market with the potential to deliver significant economic, environmental, and reliability benefits for participants across the West. EDAM will more efficiently and effectively integrate renewable resources and address the significant operational challenges presented by a rapidly changing resource mix, emerging technologies, and the impacts of climate change. EDAM will enable procurement of robust supply and flexible capacity that will position EDAM participants to effectively address changes in conditions from day-ahead to real-time, improving their response to potential reliability challenges. EDAM builds upon the proven ability of the WEIM to increase regional coordination, support state policy goals, and cost effectively meet demand.
High Level Project Scope	The EDAM design leverages existing features of the ISO day-ahead market that are common in other day-ahead markets across the country. The design also considers enhancements proposed in contemporaneous stakeholder initiatives that will harness flexibility across the larger footprint by incorporating an imbalance reserve product that will enhance price formation. EDAM introduces new products, imbalance reserve and reliability capacity, as well as new penalties, and a Resource Sufficiency Evaluation (RSE) surcharge.
BPM Changes	Definitions and Acronyms Energy Imbalance Market (EIM) Market Instruments Market Operations Settlements and Billing EDAM
Impacted Systems	MF, ALFS, ALFS-SOA, SIBR, RTSI, RTBS, BSAP, DAM (IFM and RUC), DA-RSE (new), RTM (RTPD and RTD), STUC, MPM, ITS, BARC, GHG Pass (new), Settlements, CMRI, OASIS, ADS, WebOMS, Internal ISO Systems



Spring 2026 – Extended Day Ahead Market (EDAM)

9 11119		/	
Milestone Type	Milestone Name	Dates	Status
Board Approval	Board approval	Feb 01, 2023	✓
	Publish External BRS v1.0	Aug 02, 2023	✓
	Publish External BRS v1.1	Dec 22, 2023	✓
External BRS	Publish External BRS v1.2	Apr 25. 2024	✓
	Publish External BRS v1.3	Aug 05, 2024	✓
	Publish External BRS v1.4	Mar 13, 2025	√ · · · · · · · · · · · · · · · · · · ·
	Draft Tariff Language	Mar 30, 2023	<i>-</i>
	Revised Draft Tariff Language	Jun 08, 2023	
	<u> </u>		· /
	Updated Revised Draft Tariff Language	Jul 25, 2023	· · · · · · · · · · · · · · · · · · ·
	FERC Filing	Aug 22, 2023	v
	Receive FERC order – Acceptance in part	Dec 20, 2023	√
Tariff	Requested effective date for tariff changes for EDAM agreements and onboarding provisions	Dec 21, 2023	✓
	Draft Compliance Filing Posting	Feb 05, 2024	✓
	Compliance Filing; accepted Apr 30, 2024	Feb 16, 2024	✓
	Filing for EDAM access charge	Apr 12, 2024	✓
	Receive FERC order accepting EDAM Access Charge Design (EDAM Tariff fully approved)	Jun 11, 2024	1
	Post Draft Config Guides - First set of charge codes	Jan 16, 2024	
	· · · · · · · · · · · · · · · · · · ·		· /
Settlements	Post Draft Config Guides - Second set of charge codes	Mar 26, 2024	v
Config Guides	Post Draft Config Guides - Third set of charge codes & updates to First & Second sets	Aug 26, 2024	∀
3	Post Updates to Tech Docs (Tiers 1-3)	Jan 30, 2025	✓
	1st Config Output File w/ Updated Tech Doc posting & Charge Code Matrix	Apr 29, 2025	
	Publish Technical Specifications – RTSI	Dec 5, 2023	✓
	Publish Technical Specifications – MF	Jan 4, 2024	✓
	Publish Technical Specifications – MF Revision	Mar 10, 2024	✓
	Publish Technical Specifications – SIBR	Mar 21, 2024	✓
Tech Spec	Publish Technical Specifications – OASIS	Apr 12, 2024	✓
•	Publish Technical Specifications – CMRI	Apr 12, 2024	✓
	Publish Technical Specifications – PLC	Jul 19, 2024	✓ ·
	Publish Technical Specifications – ALFS	NA	
	Publish Technical Specifications – OMS	NA	
	·		
	Business Practice Summary	Jul 10, 2024	v
	Post Draft BPM – Energy Imbalance Market (EIM)		
	Post Draft BPM - Market Instruments	1.1.04.0005	
BPMs	Post Draft BPM – Market Operations	Jul 01, 2025	
	Post Draft BPM – Settlements and Billing		
	Post Draft BPM – EDAM		
	Post Draft BPM – Definitions and Acrony ms		
	Fall 2025 Release Market Simulation Plan	Jan 24, 2024	✓
Maukat Circ	Market Sim Scenarios	Jan 29, 2024	✓
Market Sim	Market Sim Scenarios v1.1	Feb 15, 2024	✓
	EDAM Onboarding Market Sim	Sep 02, 2025 – Jan 16, 2026	
Parallel Operations	Draft Parallel Operations Plan	Apr 15, 2024	✓
. a. anci operations	EDAM Onboarding (Financially Binding) & Activation (Pacificorp)	May 01, 2026	
	EDAM Onboarding – PGE	Oct 01, 2026	
Production	EDAM Onboarding – PGE EDAM Onboarding – BANC	2027	
	<u>v</u>		
	EDAM Onboarding – LADWP	2027	

Spring 2026 – EDAM ISO BAA Participation Rules

Project Information	Details/Date
Policy Scope	The purpose of this initiative was to define the unique aspects of how the ISO Balancing Authority Area (BAA) will participate in the Extended Day-Ahead Market (EDAM). The policy addressed how to settle Transfer Resources and Transfer Revenue, the criteria to set ISO BAA's net EDAM Export Transfer constraint, how to allocate ISO BAA resource sufficiency evaluation (RSE) failure surcharges and revenues, and the process for calculating historical revenue recovery amounts. Previously labeled EDAM ISO BAA participation Rules Track A1, or Track A. Going forward label to be simply EDAM ISO BAA Participation Rules
Tariff Changes	FERC Filing ER24-379 – Sections 11, 26, and 27 Approved Tariff Changes: ➤ To allow for the settlement of all Transfer System Resources in the CAISO BA. ➤ To allow for the settlement of EDAM Transfer revenue allocated to the CAISO BA, inclusive of EDAM Transfer revenue and EIM Transfer revenue ➤ To allow the CAISO BA to enable the Net EDAM Export Transfer Constraint, a voluntary, and optional, mechanism that each EDAM Balancing Authority may enable to preserve sufficient supply to meet its projected needs, while managing reliability based on conditions and circumstances anticipated within its balancing area. ➤ To allow an interim solution for the CAISO to distribute all CAISO BA revenues and surcharges for the EDAM RSE Failure Surcharge. Unapproved Tariff Changes (filed 11/14, pending FERC Order): ➤ To set forth the calculations for the EDAM Historical Revenue Recovery amounts for transmission owners in the CAISO BA − referenced as "EDAM Access Charge for CAISO BAA"
High Level Project Scope	Based on current approved Tariff changes
Impacted Systems	Internal ISO Systems, Settlement configuration changes

Spring 2026 – EDAM ISO BAA Participation Rules

Milestone Type	Milestone Name	Dates	Status
Policy	Track A1 Final Proposal	Aug 31, 2023	✓
Board Approval	Board approval	Sep 21, 2023	✓
	FERC Filing (CAISO BAA Participation in EDAM ER24-379)	Nov 13, 2023	√
	FERC Order (DAME/EDAM in ER23-2686): didn't accept EDAM Access Charge	Dec 20, 2023	✓
	FERC Order (CAISO BA Participation in EDAM ER24-379): acceptance in part, mooted EDAM Access Charge for CAISO BAA	Mar 7. 2024	√
		Apr 12, 2024	√
Tariff	FERC Filing (EDAM Access Charge ER24-1746) FERC Order (EDAM Access Charge ER24-1746): acceptance	Jun 11, 2024	√
	EDAM Access Charge for CAISO BAA		✓
	Initial Draft Tariff Language	Sep 30, 2024	✓
	Draft Tariff Language Stakeholder Meeting	Oct 7, 2024	✓
	Final Draft Tariff Language: non-substantive, clarifying edits	Nov 7, 2024	√
	FERC Filing	Nov 14, 2024	√
	FERC acceptance of ER25-437	Feb 20, 2025	√
	Publish External BRS Publish External BRS v1.2: Clarifications, corrections, adding market sim requirements	Jun 18, 2024 Sep 17, 2024	✓
External BRS	Publish External BRS v1.2: Clarifications, corrections, adding market simmequifierties Publish External BRS v1.3: EDAM Access Charge for CAISO BAA rules	Dec 23, 2024	V ✓
External Divo	Publish External BRS v1.4: Addition of calculation example & updates to cross-references to EDAM	Jan 29, 2025	√
	Implementation	oan 20, 2020	
	Post Draft Config Guides - second set	Mar 26, 2024	✓
Settlement Config	Post Draft Config Guides - third set: includes anticipated EDAM Access Charge for CAISO BAA logic	Aug 23, 2024	✓
Guides	Post Draft Config Guides - updates to EDAM Access Charge for CAISO BAA tariff and BRS	Jan 30, 2025	✓
	1st Config Output File w/ Updated Tech Doc posting & Charge Code Matrix	Apr 29, 2025	
Tech Spec	Part of EDAM framework (if applicable)		
BPMs	Post Draft BPMs: Energy Imbalance Market (EIM), EDAM, Market Instruments, Market Operations, Settlements and Billing, Transmission Planning Process	Jul 01, 2025	
External Training	Pre-Market Sim training Pre-Go Live training	Aug 20, 2025 Apr 22, 2026	
Market Sim	Spring 2026 Release Market Simulation Plan v1.1 Market Sim Scenarios EDAM Market Sim	Jan 22, 2025 Apr 2025 Sep 01, 2025 – Jan 16, 2026	√
Production	EDAM Onboarding (Financially Binding) & Activation	May 01, 2026	

Spring 2026 – WEIM BHE Montana & WEIM Black Hills

Project Info	Details/Date
Application Software Changes	System modifications as needed to accommodate any unique Berkshire Hathaway Energy Montana needs to support their WEIM onboarding.
BPM Changes	WEIM BPM will be updated if needed to reflect changes identified during the onboarding and as required to reflect the unique processes of Berkshire Hathaway Energy Montana.
Market Simulation	December 2025 thru January 2026
Parallel Operations	February 2026 thru March 2026

Milestone Type	Milestone Name	Dates
Market Sim	Market Sim Window	Dec 2025 thru Jan 2026
Parallel Operations	Parallel Operations	Feb 2026 thru Mar 2026
Tariff	File Implementation Agreement FERC acceptance of Implementation Agreement File Readiness Certification	✓ Mar 27, 2024 ✓ May 17, 2024 Mar 2026
Production	Activation	May 2026



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Future Releases



2025 - WEIM Fab Enhancements

Business Opportunity/Problem Statement:

What:

WEIM FAB Enhancements consist of three enhancements and one improvement. This project aims to improve RTM robustness, minimize Market Isolations, modernize tools for Support Control Center, provide accurate, accessible, and clear information to ensure customer preparedness and to deepen understanding about the reliability needs of the grid."

WEIM Fab-Enhancements:

- ✓ 1) Congestion Management Full Transparency Implemented June 2024
 - 2) Hourly Base ETSR Schedule Redundancy (project, RTM payload).

Note: This item is being pursued as its own stand alone project.

- √ 3) External WEIM Commitment Override (BAAOP UI) Implemented December 2024
 - 4) Dynamic ETSR Limits Safety Net
- ✓ 5) System Net ITC Definitions Implemented November 2024 WEIM entities, WEIM BA Operators (CAISO included), RTMO

Who does this opportunity/problem impact:

BRS

Version 1.1 available for "Dynamic ETSR Limits – Safety Net" and BRS 1.1 comments period was open thru 01/16/25:

Modify BRQ 040, add BRQs 041 & 042



2025 – WEIM Fab Enhancements: Dynamic ETSR Limits Safety Net

Project Information	Details
High Level Business Problem or Need	 The Dynamic ETSR Limits Safety Net seeks to resolve a known reliability issue for numerous WEIMs. This enhancement is currently slated for 2025. Timeline updates to be provided in future meetings.
High Level Project Scope	 This enhancement seeks to define and introduce a safety net in the event the Dynamic Limits Interface (DLI) has an issue with send/receive payload or null values in RTM. CAISO is actively scoping this enhancement to ensure WEIM alignment prior to proposing an agreed upon solution. This item shall be more thoroughly disclosed in future WEIM meetings.
BPM Changes	TBD
Tariff Changes	N/A
Impacted Systems	RTM-BAAOP
BRS	Version 1.1 available for "Dynamic ETSR Limits – Safety Net" and BRS 1.1 comments period was open thru 01/16/25:
	Modify BRQ 040, add BRQs 041 & 042



Enable Non-Generating Resources to Participate in Inter-SC Trade

Information	Details
Source	2024 Annual Policy Initiatives Roadmap Process
Category	Storage
Submission	Enable non-generating resources to participate in inter-SC trade
Summary	Allow non-generating resources to participate in inter-SC trade and offer physical energy product in order to continue effective integration of higher capacities of energy storage and meet RA and GHG compliance goals.
Description	In the current market design, standalone battery storage projects are not available to be selected in the "location" dropdown list for transactive physicals in IST. To continue effective integration of higher capacities of energy storage and meet RA and GHG compliance goals, the ISO should allow NGRs to participate in inter-SC trade and offer physical energy product. Enabling battery storage to participate in physical IST would increase market efficiency and reduce uncertainty in the preschedule window, and would allow battery storage to offer supplemental capacity or replacement energy through IST.
<u>Presentation</u>	May 15, 2024
System Impacts	Scheduling Infrastructure & Business Rules (SIBR)

Milestone Type	Milestone Name	Dates	Status
ВРМ	Publish PRR: Market Instruments		
SIBR Release Notes	Publish SIBR Release Notes		
SIBR Rules	Publish Inter-SC Trades Rules		
SIBR SC User Guide	Update to allow NGR for Physical Trades		
SIBR Inter-SC Trades (IST) Tutorial	Update to allow NGR for Physical Trades		
Market Simulation	Market Simulation		
Production	Activation		

^{*}This effort is separate from the "Inter-SC Trades in Regional Markets" policy initiative





Settlement Upgrade Project

Jan 21, 2024

Settlement Upgrade Project – Overview

- The current settlement system, implemented in 2008 as part of the Market Redesign and Technology Upgrade (MRTU) implementation, is nearing its end of life. The CAISO is upgrading existing settlement applications to approved architectural and information security standards.
- Benefits for our customers include:
- Improved business efficiency
- Better gathering and analysis for data and front-end improvements for customers interacting with CAISO Settlement Systems
- Increased transparency for some calculations
- Accommodating data processing increases resulting from new market products and an increase in market participants
- Ability to perform complex settlement calculations



Settlement Upgrade Project – Targeted Goals

- The ISO will work closely with our market participants to ensure seamless transition from e-terra 2.5 to 3.0 configuration output file.
- The ISO will leverage the Settlement User Group and Technical User Group for participants to ask more technical questions.
- The ISO will provide an environment with production-like data allowing customers to validate changes.
- The system will provide settlement outputs in various file formats, allowing all customers to access and use the data in day-to-day operations.
- The ISO will strive to make formulas and inputs transparent to enable market participants to monitor and/or validate settlement results.
- The ISO will provide market participants with an extended market simulation and timely support to the market participants and their vendors during the testing phase.



Settlement Upgrade Project – Targeted Goals (continued)

- From a vendor perspective:
- ISO will provide third party vendors with support during the transition period.
- ISO will provide an extended market simulation and/or parallel statements and invoices during the transition period so vendors can resolve defects on their systems.
- ISO will provide open communications to resolve settlement differences through a customer forum.



Settlement Upgrade Project – Status

- The ISO continues reviewing the overall schedule for implementation.
- In order to allow customers to have the time to focus on the Settlement Upgrade Project, as well as EDAM and DAME, a new schedule will be developed.
- The implementation will be after EDAM and DAME implementation.
- ISO will provide quarterly updates for the implementation for now and will ultimately increase the frequency of updates and the depth of information provided accordingly as we proceed
- The updates will be provided in the Release User Group and Settlement User Group
- To help ensure alignment of our communications between these two (2) forums, this same update was provided in the next Settlement User Group call
- The next Settlement Upgrade Project update will be in April 2025
- For comments or questions, please submit CIDI cases



Stay Informed



Ways to participate in releases

- Next Release User Group Forum is April 15, 2025
- Visit the Release Planning page
 - http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx
- Attend meetings
 - Release Users Group (RUG) bi-weekly meetings
 - Initiative status updates
 - System change updates on releases
 - Market Simulation calls
 - Visit the ISO calendar at <u>www.caiso.com</u> for meeting dates and times and add events to your calendar
 - Typically held on Mondays and Thursdays
 - Market Performance and Planning Forum
 - Quarterly review of market performance topics
 - High level discussion of release planning, implementation and new market enhancements



Contact

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- CIDI
 - Functional Environment (Area)
 - "Release"

