

November 12, 2024

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

√ Fall 2024 Settlements Release (No Projects)

Independent 2024 Releases

✓ FERC 2222 – Distributed Curtailment Resources

Transmission Service & Market Scheduling Priorities Phase 2 – Resale Scope*

✓ FERC 2023 – Generator Interconnection Life Cycle

Congestion Revenue Rights System Upgrade

Highest Emergency Rating

WEIM FAB Enhancements

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

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

Modification of Maximum Import Bid Price Hourly Energy Shaping Factor

Independent 2025 Releases

Hybrid Resources Phase 2C – RIMS*

Transmission Exchange Agreement

Spring 2026 Release

Day-Ahead Market Enhancements Activation*

Extended Day-Ahead Market Activation*

EDAM ISO BAA Participation Rules Track A*

EDAM Onboarding

WEIM Onboarding

Future Release

Subscriber Participating Transmission Owner Model*
Settlement Upgrade Project – Next RUG/SUG quarterly update January 2025

*Policy



New: BRS Stakeholder Comments & Review Sessions

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

Closed	Open	Upcoming
 EDAM ISO BAA PR v1.2 – thru 10/9/24 TSMSP2 v1.1 – thru 10/16/24 EDAM v1.3 thru 10/31/24 DAME v1.3 thru 9/30/24 Subscriber PTO thru 8/15/24 FERC Order 2222 thru 8/9/24 EDAM ISO BAA Participation Rules v1.0-1.1 thru 8/2/24 		• EDAM ISO BAA PR v1.3

- 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 2024 Releases



2024 - Transmission Service & Market Scheduling Priorities Phase 2

Project Information	Details
High Level Business Need	Presents a long-term, durable framework to establish wheeling through scheduling priorities in the ISO markets that can further evolve with operational experience. It does not focus on, nor does it change, the processes for wheeling out or exporting from the ISO BAA. This project introduces a design to identify Available Transfer Capability (ATC) that can be allocated to Priority-Wheeling-Through (PWT) across the ISO system. This project also provides opportunity for external entities to drive transmission upgrades across the ISO system to support a wheeling-through. Will result in updates to the Wheel Export Quantity PC. The Original Wheeling Priority SC should be charged WAC for the Maximum of Wheeling Priority Quantity and scheduled export. If a resale should occur the purchaser of the resale Wheeling Priority Quantity should be assessed WAC on the maximum of schedule export less purchased Wheeling priority MW and zero.
High Level Project Scope	The following are the key design elements for Priority-Wheeling-Through (PWT): Calculating PWT Available Transfer Capability (ATC) Aw arding PWT ATC to PWT Requests Using PWT Aw ards in Market Operations Settling PWT Aw ards and Schedules Transmission Planning for PWT Capacity
BPM Changes	 Market Instruments – MF & SIBR Changes Market Operations – ITS, DAM, RTM Changes Reliability Requirements – Internal System Changes Settlements and Billing – Settlements Changes Transmission Planning Process – Impact for long term ATC Generator Interconnection and Deliverability Allocation Procedures – Impact for long term ATC
Tariff Changes	 §23.1, §23.2, §23.3, §23.4, §23.5, §23.6, §23.7 §26.1.4.5 §30.5.1 §34.12.3 §Appendix A §Appendix L §Appendix DD § New Appendix GG Long-Term Transmission Service & Market Scheduling Priorities
Impacted Systems	 AIM CIRA MF New system for ATC calculation, access, and reservation SIBR RTM Settlements OASIS RIMS

2024 - Transmission Service & Market Scheduling Priorities Phase 2

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Milestone	Milestone Name	Dates	Status
Board Approval	Obtain Board of Governors Approval	Feb 01, 2023	✓
External BRS	Post External BRS	Jan 31, 2024	√
	Post External BRS – Resale Scope	Oct 02, 2024	√
Settlements	Tech Doc	Feb 12, 2024	√
Config Guides	1st Draft Config File & Release Component Summary	March 4, 2024	√
Tech Spec	Create ISO Interface Specifications – OASIS Create ISO Interface Specifications – OASIS	Jan 12, 2024 Oct 04, 2024	· /
	Filed ER23-2510 for Wheeling Through	Jul 28, 2023	→
	FERC Acceptance of ER 23-2510 (calculation of available transfer capability (ATC) and the process for establishing market scheduling priority for w heeling through the ISO transmission system)	Oct 30, 2023	√
	Compliance Filing	Nov 29, 2023	✓
	Petition for Limited Waiver for resale or assignment of monthly Wheeling Through Priority	Apr 12, 2024	✓
Tariff	Order Granting Petition for Limited Waiver ER 23-2510 NLT Dec 17, 2024	Jul 08, 2024	✓
		Ga. GG, <u>GG</u> .	
	Track 2 DTL	Jul 14, 2023	✓
	Track 2 Revised DTL	Oct 05, 2023	✓
	Track 2 Final DTL	Dec 19, 2023	✓
	Draft BPM changes – Market Instruments (PRR1558)	Mar 20, 2024	✓
	Draft BPM changes – Market Operations (PRR1548)	Jan 16, 2024	✓
	Draft BPM changes – Market Operations (Automation) (PRR 1570)	Apr 19, 2024	√
BPMs	Draft BPM changes – Reliability Requirements		
	Draft BPM changes – Settlements and Billing (PRR1560)	Mar 20, 2024	√
	Draft BPM changes – Transmission Planning Process		
Market Sim	Draft BPM changes – Generator Interconnection and Deliverability Allocation Procedures Market Simulation – Resale Scope	Nov 18-22, 2024	
Wal Ket Silli	Implementation of w heeling through priority process supports load service planning for Summer 2024	NOV 10-22, 2024	
	implementation of wheeling through phonty process supports load service planning for outliner 2024		
	ISO begin implementation thru manual processes		
	- Publication of Monthly ATC values for June 2024 to January 2025 (13-month horizon)	Jan 16, 2024	✓
	- Request w indow opened (Submit via CIDI)	Jan 18 – Jan 31, 2024	✓
	- Results communicated	Feb 5, 2024	✓
		·	
Production	Monthly Scope: New automation functionality available to support reservation of Monthly and Daily ATC in June 2024 and beyond	Apr 19, 2024	✓
Activation			
	Daily Scope: Transmission Service & Market Scheduling Priorities Phase 2 – Activate daily and long-term increment calculations	May 24 for Jun 01, 2024	✓
	Resale Scope: Resale or Assignment of Monthly Wheeling Through Priority	Target Dec 05, 2024; by Dec	
	2024 Monthly Wheeling Through Priority Request Due Dates	17, 2024	

2024 - Congestion Revenue Rights (CRR) Upgrade

	3 (/ 13
Project Information	Details/Date
High Level Project Scope	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. 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 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.



2024 - 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 dow nload interface UVAPI. 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 IFWRTN
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



2024 - 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 v1.3	Nov 16, 2022 Mar 29, 2023	✓
Config Guides	Post Draft Config Guides	Yes	
Tech Spec	Publish Technical Specification	Feb 24, 2023	✓
Deployment Plan	Draft Deployment Plan	Yes	
Training	Training	Yes	
Customer Partnership Group	Last CPG Next CPG	Oct 24, 2024 Nov 21, 2024	✓



CRR System Upgrade

- Market Simulation
- 11/26: Start Connectivity: UI
- 12/3: Start Market Simulation
 - 12/3: Start unstructured Market Simulation for UI
- Access Provisioning: AlM is ready for access provisioning for MAPSTAGE
- Reminder: OASIS Tech Specs include the new & modified reports (https://developer.caiso.com)

2024 – Highest Emergency Rating

Market Simulation

Production

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	This enhancement focuses specifically on internal ISO users and RC Customers having the capability to adjust the HER and ER duration in OMS. Step 1 – HER data cleanup Load HER in EMMS in one of the existing slots Transfer HER to RTCA during the network model build process Step 2 – Use RTCA to update HER For interim changes to HER in between models, change the data directly in RTCA Make the ER and HER duration and value fields editable Include validation to make sure HER is not less than the emergency rating Step 3 – WebOMS changes Work with OATI to include a new field for HER HER can be updated in WebOMS in between model promotions Updates to HER will be sent to downstream systems			
BPM Changes	Not Impacted			
Tariff Changes	Not Impacted	l		
Impacted Systems	webOMS, HA	NA, Market		
Milestone 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				✓



Market Simulation

Production

ISO PUBLIC Page 11

Nov 2024

Dec 2024

2024 – 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
- 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)
- 4) Dynamic ETSR Limits Safety Net
- 5) System Net ITC Definitions

WEIM entities, WEIM BA Operators (CAISO included), RTMO

Who does this opportunity/ problem impact:

2024 – WEIM Fab Enhancements: Congestion Management Transparency (Implemented June 2024)

Project Information	Details
High Level Business Problem or Need	 The Congestion Management Transparency enhancement seeks to provide WEIM entities with highly accurate, easily accessible, and transparent information to enhance customer preparedness and grid reliability visibility. ✓ This enhancement was implemented June 2024.
High Level Project Scope	 Currently, WEIM Operators can see their own flowgates and resources on the RTM UI but cannot see: 1) Why their resource(s) are being moved if it is for constraint(s) outside of their BAA, and 2) what resources outside of their BAA are being moved to mitigate their BAA's constraints. WEIM Operators must have the capability to see and select their BAA's resources that are impacted by congestion as well as others' resources they are impacting with congestion (even if outside of their BAA). This enhancement is for the following tables within the RTM UI: Congested Resources Table, Binding Transmission Constraints Flowgates, and Binding Transmission Constraints Nomograms. Warning: "WEIM Operators are responsible for ensuring this information is handled within their own organizations consistent with FERC's Standards of Conduct for Transmission Providers. The CAISO is not requiring any additional attestations from WEIM Operators or imposing additional access controls within the BAAOP system."
BPM Changes	Market Operations
Tariff Changes	N/A
Impacted Systems	Transmission Resource Congestion: RTM – RTD, RTPD, STUC Binding Transmission Constraints Flowgates: RTM – RTD, RTPD, STUC Binding Transmission Constraints Nomograms: RTM – RTD, RTPD, STUC



2024 – WEIM Fab Enhancements: Congestion Management Transparency Transmission Resource Congestion (Implemented June 2024)

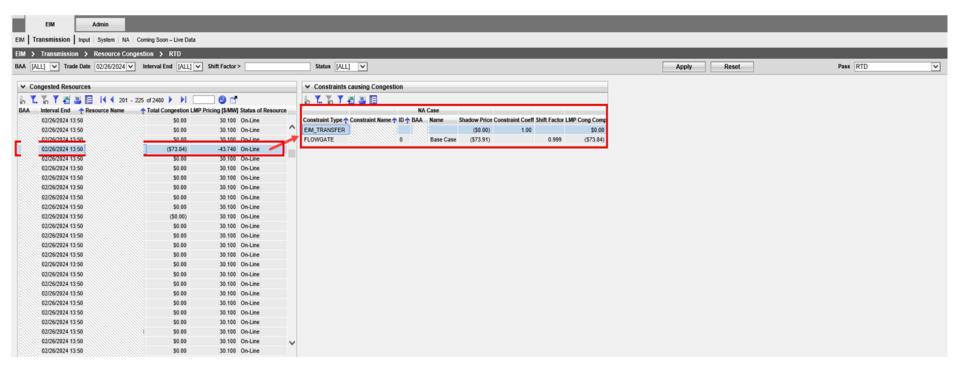
IFM/RTN: Operations > Transmission > Resource Congestion

BAAOP: EIM > Transmission > Resource Congestion

This requirement is for RTD/RTPD/STUC UIs

The CAISO or WEIM entity should only be able to see their BAA's resources in the "Congested Resources" table (left side).

They should be able to select any resource from the left side table and on the "Constraints causing Congestion" table (right side) they should see any constraint in the system that is moving their resource, not just within their own BAA.





2024 – WEIM Fab Enhancements: Congestion Management Transparency Binding Transmission Constraints Flowgates (Implemented June 2024)

IFM/RTN: Operations > Transmission > Binding Transmission Constraints - Flowgates

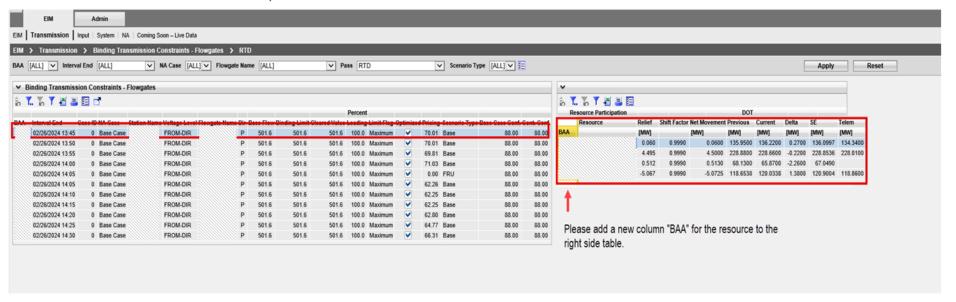
BAAOP: EIM > Transmission > Binding Transmission Constraints - Flowgates

This requirement is for RTD/RTPD/STUC UIs

In this UI, the CAISO or WEIM entity should only be able to see their BAA constraints in the "Binding Transmission Constraints - Flowgates" table (left side).

They should be able to select any constraint from the left side table and on the "Resource Participation" table (right side) they should see any resource in the system that is being moved due to congestion, not just resources within their own BAA.

* Add new column "BAA" to Resource Participation table





2024 – WEIM Fab Enhancements: Congestion Management Transparency Binding Transmission Constraints Nomograms (Implemented June 2024)

IFM/RTN: Operations > Transmission > Binding Transmission Constraints - Nomograms

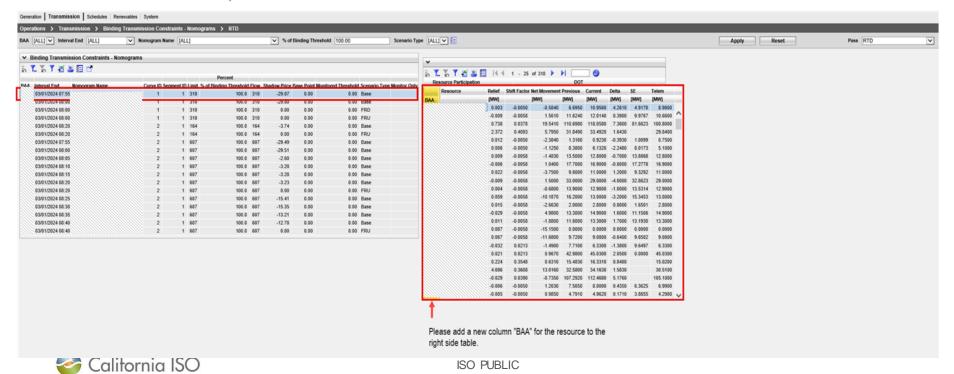
BAAOP: EIM > Transmission > Binding Transmission Constraints - Nomograms

This requirement is for RTD/RTPD/STUC UIs

In this UI, the CAISO or WEIM entity should only be able to see their BAA Nomograms in the "Binding Transmission Constraints - Nomograms" table (left side).

They should be able to select any Nomogram from the left side table and on the "Resource Participation" table (right side) they should see any resource in the system that is being moved due to congestion, not just resources within their own BAA.

* Add new column "BAA" to Resource Participation table



2024 - WEIM Fab Enhancements: External WEIM Commitment Override

Project Information	Details
High Level Business Problem or Need	 The External WEIM Commitment Override enhancement seeks to modernize WEIM operator tools for Support Control Center Operations as well as to enhance customer preparedness and grid reliability visibility. This enhancement is currently slated for 2024. Timeline updates to be provided in future meetings.
High Level Project Scope	 Currently, WEIM Operators call the RTMO to request the commitment override and RTMO enters the override into the RTM via BAAOP. RTMO do not have the authority to deny the request from the external WEIM entity. This enhancement shall provide WEIM Operators with the ability to enter WEIM Commitment Overrides directly in the RTM Market UI themselves. This enhancement applies to any WEIM BAA with existing access to RTM. Currently, no additional access provisioning or roles are required in AIM.
BPM Changes	Market Operations
Tariff Changes	N/A
Impacted Systems	RTM - BAAOP

✓ Market Simulation October – November 08, 2024
 Production – December 2024



WEIM Enhancements: WEIM Commitment Override - BAAOP UI

✓ Market Simulation October – November 08, 2024 Production – December 2024

ID#	Guidance on Market Participant Impacts	Source System	Sink System	Reason for Potential Scenario
MKT - 010	Unstructured Market Sim – WEIM External Commitment Override	N/A	RTM – BAAOP	Changes to UI
	External WEIM BA Operators must have the capability within RTM - BAAOP to enter commitment overrides directly in the RTM Market UI.			
	Note: See BRQ030			

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

2024 – WEIM Fab Enhancements: System NET ITC Definitions

Project Information	Details
High Level Business Problem or Need	 Currently, the System NET ITC Definitions are updated directly during new WEIM onboarding. As there are several existing WEIM entities that were onboarded prior to the addition of this business process the request is to update System NET ITC Definitions for existing WEIM entities. This enhancement is currently slated for 2024. Timeline updates to be provided in future meetings.
High Level Project Scope	 Internal ISO team to update System NET ITC Definitions for existing WEIM entities. This enhancement item is being disclosed for WEIM entities visibility purposes only. No action is required for this enhancement by WEIM entities at this time.
BPM Changes	N/A
Tariff Changes	N/A
Impacted Systems	MasterFile

Available in MAP-Stage for TD 10/16/24 forwards.

The ISO requests each entity submit a Production CIDI ticket with a screenshot of the new definitions in MAPStage and their readiness for their promotion into production.

Kindly submit a Production CIDI ticket with the subject line "NET_ITC Re-Definition Testing complete and ready for Production" no later than November 1st, 2024 as record of readiness.

2024 – 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 2024. 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



2024 – FERC 881 – Managing Transmission Line Ratings

Project Information	Details/Date
	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
High Level	excepted
Project Scope	 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

Mile stone Type	Milestone Name	Dates	Status
Tariff	Draft Tariff Language	May 20, 2022	✓
	Revised Draft Tariff Language	Jun 23, 2022	✓
	FERC Filing ER22-2362	Jun 16, 2022	✓
	FERC Acceptance ER22-2362	Apr 20, 2023	✓
	FERC Acceptance Tariff Revisions	Dec 13, 2023	✓
BRS	Publish BRS – Track 1 Publish BRS – Track 1 (Updates & Added FAC-011) Publish BRS – Track 2	Jan 30, 2024 Jun 11, 2024 Q4 2024	✓
Market Simulation	Market Simulation	NA	
Production	Track 1 Real-Time Reliability Applications	Apr 1, 2024	✓
	Track 2 Operational/EMS Model Data & Applications	Jun 2025	

CAISO/RCWEST FERC 881 Implementation:

- Track1 and Track2 are in flight to be completed by June 2025.
 - Track 1 Real Time Reliability Applications
 - Target Capability to be ready by December 2024.
 - Track 2 Operational/EMS Model Data and Applications
 - OATI WeblineR product will be utilized for receiving Look ahead ratings.
 - Estimated Target Capability to be ready June 2025
- Track 3 Market Application and Look Ahead Applications
 - We are experiencing delays and are working on delayed phased in implementation.
 - CAISO/RCWEST plans to go to FERC and seek an extension in December.
 - We would like to hear feedback from stakeholders.



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

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

Enable Usage of
AAR in
DACA/LACA /
LTCA and 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.

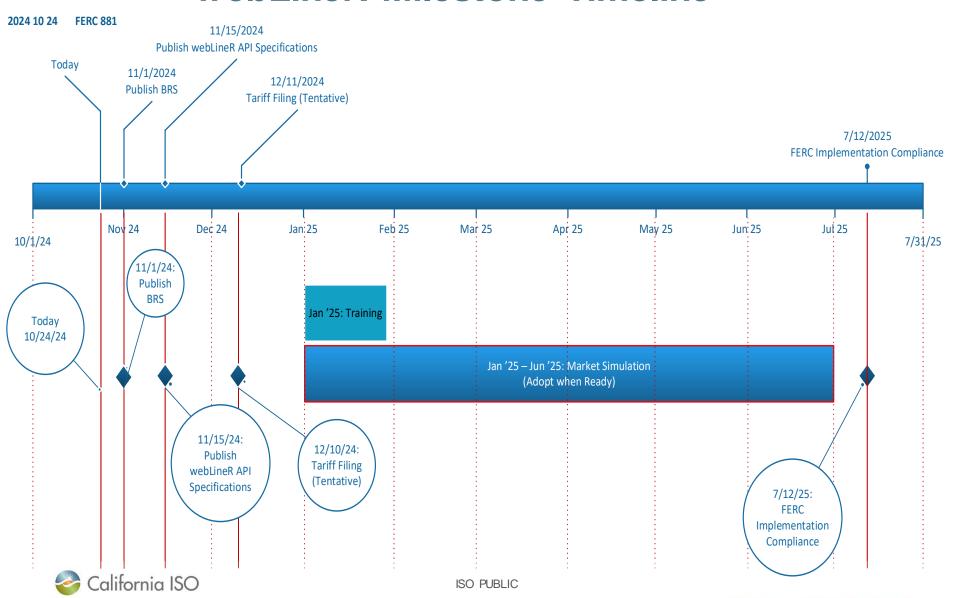


CAISO RCWEST Phased In Implementation

- 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.



webLineR Milestone Timeline



Modification of Maximum Import Bid Price Hourly Energy Shaping Factor

Project Information	Details/Date
	Modify MIBP Energy Price Hourly Shaping Factor
High Level Project Scope	The new formula for shaping factor is based on the high-priced day SMEC only. Use high-priced day SMEC shape to adjust Electric Hub price of the trading day. This is a change from current one that using the SMEC of trade hour in trading day or the same hour of the closest prior day if trading day DAM is not run yet.

Milestone Type	Mile stone Name	Dates	Status
<u>Workshop</u>	Maximum Import Bid Price Workshop	May 28, 2024	✓
BRS	Business Requirements Specification V1.2 Update MIBP Shaping Factor formula (PFECAP-BRQ-151)	Oct 08, 2024	✓
ВРМ	Market Instruments – PRR 1591 Initial Comments Deadline BPM CM PRR Review	Sep 25, 2024 Oct 15, 2024 Oct 22, 2024	✓ ✓
Production	Activation	November 14, 2024	



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.
Presentation	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



Independent 2025 Releases



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	
Shapefile	Shapefile requirements and samples will be presented in future RUG & TUG forums	Early 2025	
Production Activation	Hybrid Resources 2C – RIMS	Feb 2025	



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 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		

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	√
Market Simulation	Market Simulation – WAPA	Feb 2025	
Production Activation	Transmission Exchange Agreement Renegotiation	2025	



Spring 2026 Release



Day Ahead Market Enhancements

Project Information	Details/Date	
High Level Business Problem or Need	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.	
	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	



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



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Day Ahead Market Enhancements

Milestone Type	Milestone Name	Dates	Status
Board Approval	Board briefing/approval	May 17, 2023	✓
External BRS	Publish External BRS v1.0	Jul 25, 2023	✓
	Publish External BRS v1.1	Dec 22, 2023	✓
	Publish External BRS v1.2	Apr 24, 2024	✓
	Publish External BRS v1.3	Aug 02, 2024	✓
Settlements Config Guides	Post Draft Config Guides - First set of charge codes	Jan 16, 2024	✓
	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	✓
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/RCBSAP Rules Release Notes	Mar 05, 2024	✓
	SIBR SC User Guide	Mar 05, 2024	✓
	Publish Technical Specifications - CMRI	Dec 15, 2023	\checkmark
Tariff	First Draft Tariff Posting	Jun 02, 2023	\checkmark
	Second Draft Tariff Posting	Jul 11, 2023	\checkmark
	FERC Filing	Aug 22, 2023	\checkmark
	Receive FERC order – Acceptance in part	Dec 20, 2023	\checkmark
	Draft Compliance Filing Posting	Feb 05, 2024	✓
	Compliance Filing	Feb 16, 2024	\checkmark
BPMs	Business Practice Summary (New)	Apr 25, 2024	\checkmark
	Post Draft BPM – Market Instruments	Apr 15, 2025	
	Post Draft BPM – Market Operations	Apr 15, 2025	
	Post Draft BPM – Settlements and Billing	Apr 15, 2025	
	Post Draft BPM – Definitions and Acronyms	Apr 15, 2025	
Implementation meeting	Configurable Parameters Implementation Working Group	Aug 07, 2024	✓
External Training	External User Training	May 12, 2025	
Market Sim	Fall 2025 Release Market Simulation Plan	Jan 24, 2024	√
	Market Sim Scenarios	Aug 04, 2023	✓
	Market Sim Window	Jun 02, 2025 - Aug 22, 2025	
Production Deployment	Day Ahead Market Enhancements (Inactive)	Oct 01, 2025	
Production Activation	Day Ahead Market Enhancements (Financially Binding)	May 01, 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



Extended Day Ahead Market (EDAM) Implementation

Milestone Type	Milestone Name	Dates	Status
Board Approval	Board approval	Feb 01, 2023	Valus
Bourd Approval	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	<i>y</i>
	Publish External BRS v1.3	Aug 05, 2024	1
	Draft Tariff Language	Mar 30, 2023	√
	Revised Draft Tariff Language	Jun 08, 2023	√ ·
	Updated Revised Draft Tariff Language	Jul 25, 2023	1
	FERC Filing	Aug 22, 2023	<i>'</i>
	Receive FERC order – Acceptance in part	Dec 20, 2023	<i>y</i>
	Neceive i Lino older – 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	✓
	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	√ ·
Config Guides	Post Draft Config Guides - Third set of charge codes & updates to First & Second sets	Aug 26, 2024	√ ·
	Publish Technical Specifications – RTSI	Dec 5, 2023	√ ·
	Publish Technical Specifications – MF	Jan 4, 2024	√
	Publish Technical Specifications – SIBR	Mar 21, 2024	1
	Publish Technical Specifications – OASIS	Apr 12, 2024	1
Tech Spec	Publish Technical Specifications – CMRI	Apr 12, 2024	√
	Publish Technical Specifications – PLC	Jul 19, 2024	<i>y</i>
	Publish Technical Specifications – ALFS	NA	· ·
	Publish Technical Specifications – OMS	NA	
	Business Practice Summary	Jul 10, 2024	√
	Post Draft BPM – Energy Imbalance Market (EIM)	oui 10, 2024	· ·
	Post Draft BPM – Market Instruments		
BPMs	Post Draft BPM – Market Institutions	TBD	
DI MIS	·	100	
	Post Draft BPM – Settlementsand Billing Post Draft BPM – EDAM		
	Post Draft BPM – Definitions and Acronyms Fall 2025 Release Market Simulation Plan	Jan 24, 2024	√
	Market Sim Scenarios	Jan 29, 2024	1
Market Sim	Market Sim Scenarios v1.1	Feb 15, 2024	1
	EDAM Onboarding Market Sim	· ·	
Parallal Coarations	•	Sep 01, 2025 – Jan 16, 2026	1
Parallel Operations	Draft Parallel Operations Plan	Apr 15, 2024	V
Production	EDAM Onboarding (Financially Binding) & Activation (Pacificorp)	Oct 01, 2025	
FIOUUCUOII	EDAM Onboarding – PGE	May 01, 2026 Fall 2026	



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 (to be filed 11/14): 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 FERC Order (CAISO BA Participation in EDAM ER24-379): acceptance in part, mooted EDAM Access Charge for CAISO BAA	Dec 20, 2023 Mar 7. 2024	✓ ✓
Tariff	FERC Filing (EDAM Access Charge ER24-1746) FERC Order (EDAM Access Charge ER24-1746): acceptance	Apr 12, 2024 Jun 11, 2024	✓
	EDAM Access Charge for CAISO BAA Initial Draft Tariff Language Draft Tariff Language Stakeholder Meeting Final Draft Tariff Language: non-substantive, clarifying edits FERC Filing	Sep 30, 2024 Oct 7, 2024 Nov 7, 2024 Nov 14, 2024	√ √ √
External BRS	Publish External BRS Publish External BRS v1.2: Clarifications, corrections, adding market sim requirements Publish External BRS v1.3: EDAM Access Charge for CAISO BAA rules	Jun 18, 2024 Sep 17, 2024 Dec 6, 2024	√ √
	Post Draft Config Guides - second set	Mar 26, 2024	✓
Settlement Config Guides	Post Draft Config Guides - third set: includes anticipated EDAM Access Charge for CAISO BAA logic	Aug 23, 2024	✓
	Post Draft Config Guides - updates to EDAM Access Charge for CAISO BAA tariff and BRS	TBD	
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	Aligned with EDAM schedule	
External Training	Pre-Market Sim training	Aug 20, 2025	
Market Sim	Pre-Go Live training Fall 2025 Release Market Simulation Plan v1.1 Market Sim Scenarios EDAM Onboarding Market Sim	Apr 22, 2026 Dec 2025 Dec 16, 2025 Sep 01, 2025 – Jan 16, 2026	
Production	EDAM Production Deployment - Inactive EDAM Onboarding (Financially Binding) & Activation	Oct 01, 2025 May 01, 2026	1

Spring 2026 – WEIM BHE Montana

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, 2024Mar 2026
Production	Activation	May 2026



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Future Releases



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

Subscriber Participating Transmission Ownership Model

System High Level Changes Definitions and Acronyms Generator Interconnection and Deliverability Allocation Procedures Market Instruments Market Operations Reliability Requirements
 Generator Interconnection and Deliverability Allocation Procedures Market Instruments Market Operations Reliability Requirements
 Settlements & Billing Transmission Planning Process

· Appendix DD: Generator Interconnection Deliverability Allocation Procedures

Identify resources subject to MIC and stablish MIC at Sub PTO scheduling points/interties

Update TAC/WAC revenue allocation process to include non-subscriber usage rate

Develop Subscriber PTO model: including new participant type, new TAC area, new UDC, new WAC rules, and mapping

Receive ETC designation and support bidding rules for subscriber generating resources (existing functionality)

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

Define RA obligation

Calculate ASRS

Consume new tie points and/or ITCs

Consume all hourly MSSC values

Develop new bill determinants

Calculate financial loss return Apply existing ETC rules

Add Subscriber PTO loss resource IDs to loss table

Update configuration guides and bill determinants Exclude Subscriber PTO UDC areas from UFE

Tariff Changes

Impacted Systems

MF

CIRA

SIBR

IFM/RTM

DReAMS

Settlements/

ITS

Subscriber Participating Transmission Ownership Model

Milestone Type	Mile stone Name	Dates	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	✓
Tariff	First Draft Tariff Posting	Jun 22, 2023	✓
	Second Draft Tariff Posting	August 08, 2023	✓
Board Approval	Board approval	July 20, 2023	✓
BRS	Publish BRS v1.0	Jul 26, 2024	✓
Settlements Config Guides	Post Draft Configuration Guide	Yes	
Tech Spec	Publish Technical Specifications	Yes	
BPMs	Post Draft BPM – Definitions and Acronyms		
	Post Draft BPM – Generator Interconnection and Deliverability		
	Allocation Procedures		
	Post Draft BPM – Market Instruments	Yes	
	Post Draft BPM – Market Operations	165	
	Post Draft BPM – Reliability Requirements		
	Post Draft BPM – Settlements and Billing		
	Post Draft BPM – Transmission Planning Process		
Training	Training	Yes	
Market Sim	Market Sim Scenarios	Yes	
	Market Sim Window	Yes	
Deployment	Production Deployment	TBD	
Activation	Production Activation	TBD	





Settlement Upgrade Project

Oct 15, 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 January 2025
- For comments or questions, please submit CIDI cases



Stay Informed



Ways to participate in releases

- 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 www.caiso.com 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



RUG Calendar 2024

January						
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CAISO Holiday



RUG Forum



Contact

- tvo@caiso.com
- release@caiso.com
- CIDI
 - Functional Environment (Area)
 - · "Release"
 - "Market Simulation"

