

August 20, 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

Independent 2024 Releases

Application Delivery Resiliency – URL & IP Changes (& AUP Changes)

Highest Emergency Rating

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

Transmission Exchange Agreement

FERC 2222 - Distributed Curtailment Resources

FERC 2023 – Generator Interconnection Life Cycle

Congestion Revenue Rights System Upgrade

Hybrid Resources Phase 2C - RIMS*

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

WEIM FAB Enhancements

Fall 2024 Settlements Release (No Projects)

Spring 2026 Release

Day-Ahead Market Enhancements Activation*

Extended Day-Ahead Market Activation*

EDAM ISO BAA Participation Rules Track A*

EDAM Onboarding Pacificorp, BANC, PGE

WEIM BHE Montana*

Future Release

Subscriber Participating Transmission Owner Model*

Settlement Upgrade Project - Next RUG/SUG quarterly update October 2024



New: BRS Stakeholder Comments & Review Sessions

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

Closed	Open	Upcoming
 Subscriber PTO thru 8/15/24 5PM PT FERC Order 2222 thru 8/9/24 5PM PT EDAM ISO BAA Participation Rules v1.0-1.1 thru 8/2/24 5PM PT 	 DAME v1.3 thru 8/26/24 5PM PT EDAM v1.3thru 8/26/24 5PM PT 	EDAM ISO BAA PR v1.2 – August 2024

- 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

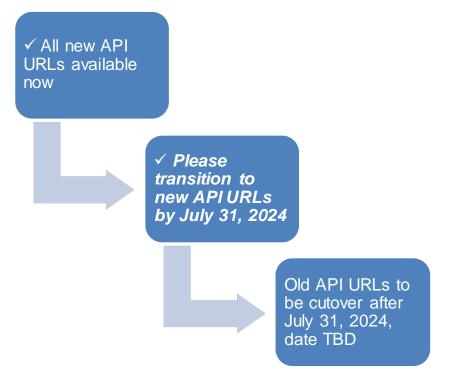




Independent 2024 Releases



2024 - Application Delivery Resiliency: API Customer Transition & Cutover



System	API - New	API - Old	
BAAOP	https://ws.prod.caiso.com/sst/baaop	https://ws.caiso.com/sst/baaop	
BSAP	https://ws.prod.caiso.com/sst/bsap	https://ws.caiso.com/sst/bsap	
CIRA	https://ws.prod.caiso.com/sst/cira	https://ws.caiso.com/sst/cira	
CMRI	https://ws.prod.caiso.com/sst/cmri	https://ws.caiso.com/sst/cmri	
DRRS	https://ws.prod.caiso.com/sst/drrs	https://ws.caiso.com/sst/drrs	
EIDE	https://ws.prod.caiso.com/sst/eide	https://ws.caiso.com/sst/eide	
ALFS (& FDR)	https://ws.prod.caiso.com/sst/runtime.asvc	https://ws.caiso.com/sst/runtime.asvc	
MF	https://ws.prod.caiso.com/sst/runtime.asvc	https://ws.caiso.com/sst/runtime.asvc	
PISOA	https://ws.prod.caiso.com/sst/runtime.asvc	https://ws.caiso.com/sst/runtime.asvc	
RCBSAP	https://ws.prod.caiso.com/sst/rcbsap	https://ws.caiso.com/sst/rcbsap	
RCSERVICES (RCEIDE)	https://ws.prod.caiso.com/sst/rcservices	https://ws.caiso.com/sst/rcservices	
SIBR	https://ws.prod.caiso.com/sst/sibr	https://ws.caiso.com/sst/sibr	
STLMT	https://ws.prod.caiso.com/sst/stlmt	https://ws.caiso.com/sst/stlmt	
OMS	https://ws.prod.caiso.com/sst/weboms	https://ws.caiso.com/sst/weboms	
ECIC	https://ws.prod.caiso.com/sst/ecic	https://ws.caiso.com/sst/ecic	
CRR	NA	NA	
PLC	NA	NA	
TR	NA	NA	
ADS	https://adsws.prod.caiso.com/	NA - Cutover	
OASIS	http://oasis.caiso.com	NA - Cutover	
Key			
NA - Interface doesn	't exist or already cutover		
Available for Transition - Users should be using now, cut over to these now			

Will be cutover - Users should move off these right away

Cuotover complete



2024 – Highest Emergency Rating

Market Simulation

Production

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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	d				
Tariff Changes	Not Impacted	d				
Impacted Systems	webOMS, HA	ANA, Market				
Milestone Type		Milestone Nar	ne		Dates	Status
Board		Board			NA	
BRS	BRS Feb 15, 2024 ✓ BRS 1.1 Apr 10, 2024 ✓		✓ ✓			
Tech Spec	Present OMS in TUG Feb 27, 2024 ✓ OMS Aug 19, 2024 ✓		✓ ✓			
Training		Training			Sep 12, 2024 1-2 PM PT	
			_			



Market Simulation

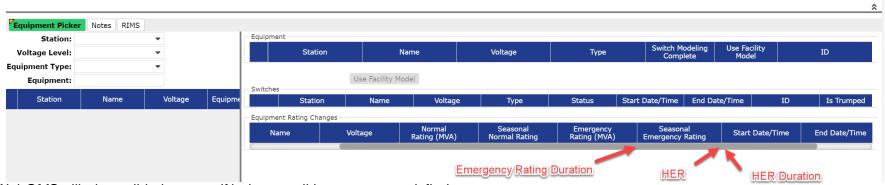
Production

Sep 16 - Oct 04, 2024

Q4 2024

2024 - Highest Emergency Rating - OMS

- Three new fields will be added on the current OMS Derate User Interface and user will have capability to adjust the values through UI and API:
 - "Emergency Rating Duration" as integer, set in minutes.
 - "Highest Emergency Rating" as a numeric input.
 - "Highest Emergency Rating Duration" as integer, set in minutes.



WebOMS will give validation error if below conditions are not satisfied:

Rating Limits and Durations are not defined for ERC.

Highest Emergency Rating is less than active Emergency Rating.

Highest Emergency Duration is greater than Emergency Rating Duration.

If HER Limit and Duration values are partially complete.

If user want to enter ER greater than the current HER then would first have to adjust HER then update ER.

- If neither HER Limit and Duration values are defined, system should auto-fill the HER Limit and Duration values to match their associated Emergency Rating Limit and Duration values.
- Emergency Rating (ERC) flows to Market, RTCA, and EMS; and HER only flows to RTCA, and EMS. WebOMS will display a pop-up notification on submitting the ERC or HER through UI,API akin to SUCCESS message
- There will be XSD update on below services:

SubmitTransmissionOutage_v3-Regular and DocAttach

SubmitTransmissionOutageChangeRequest_v3-Regular and DocAttach

RetrieveTransmissionOutage v3 - Regular and DocAttach

Retrieve Transmission Outage Change Request_v3 - Regular and Doc Attach.

Summer 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) Awarding PWT ATC to PWT Requests Using PWT Awards in Market Operations Settling PWT Awards 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 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

Summer 2024 – Transmission Service & Market Scheduling Priorities Phase 2

Summe	1 2024 – Transmission Service & Market Scheduling Pi	nonues Phase	_
Milestone Type	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	Aug 2024	
Settlements	Tech Doc	Feb 12, 2024	√
Config Guides	1 st Draft Config File & Release Component Summary Create ISO Interface Specifications – OASIS	March 4, 2024	· · ·
Tech Spec	Create ISO Interface Specifications – OASIS	Jan 12, 2024 Aug 21 2024	V
	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	Oct 30, 2023	√
	market scheduling priority for wheeling through the ISO transmission system)	·	
	Compliance Filing	Nov 29, 2023	✓
Tariff	Petition for Limited Waiver for resale or assignment of monthly Wheeling Through Priority	Apr 12, 2024	✓
Tallil	Order Granting Petition for Limited Waiver ER 23-2510 NLT Dec 17, 2024	Jul 08, 2024	✓
	Total O DT	L.I. 4.4 . 0000	
	Track 2 DTL	Jul 14, 2023	√
	Track 2 Revised DTL Track 2 Final DTL	Oct 05, 2023 Dec 19, 2023	✓
	Draft BPM changes – Market Instruments (PRR1558)	Mar 20, 2024	V
	Draft BPM changes – Market Institutions (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		
	Draft BPM changes – Generator Interconnection and Deliverability Allocation Procedures		
Market Sim	Market Simulation – Resale Scope	Sep 30 - Oct 11, 2024	
	Implementation of wheeling through priority process supports load service planning for Summer 2024		
	ISO begin implementation thru manual processes		
	- <u>Publication of Monthly ATC values for June 2024 to January 2025</u> (13-month horizon)	Jan 16, 2024	✓
	- Request window opened (Submit via CIDI)	Jan 18 – Jan 31, 2024	√ ·
	- Results communicated	Feb 5, 2024	√
		,	
	Monthly Scope: New automation functionality available to support reservation of Monthly and Daily ATC in June 2024	Apr 19, 2024	✓
Production	and beyond		
Activation			√
	Daily Scope: Transmission Service & Market Scheduling Priorities Phase 2 – Activate daily and long-term increment	May 24 for Jun 01, 2024	
	calculations		
	Resale Scope: Resale or Assignment of Monthly Wheeling Through Priority	Oct 23, 2024	
	OASIS ETC Data	2024	
	2024 Monthly Wheeling Through Priority Request Due Dates		

2024 – 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 PAC#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

2024 – Transmission Exchange Agreement

Milestone Type External BRS	Milestone Name Post External BRS	Dates Aug 2024	Status
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	Nov 2024	
Production Activation	Transmission Exchange Agreement Renegotiation	TBD	



2024 – FERC 2222 – Distributed Curtailment Resources

Project Information

FERC Order 2222 seeks to remove barriers for DCR (Distributed Curtailment Resources) participation in RTO/ISO markets. Through its prior initiatives, CAISO already supports DER (Distributed Energy Resource) market participation. In this implementation, the CAISO will amend its existing DER policy to accommodate FERC Order 2222, which will include reducing the maximum capacity requirement and introducing a new DERA resource type with underlying DCR. In total, FERC Order 2222 requires RTOs/ISOs to revise the Tariff to establish a DERA participation model, which will:

- 1) Allow DERAs to participate in markets and establish DERAs as a type of market participant,
- 2) allow aggregators to register operational characteristics of a DERA,
- 3) establish maximum capacity requirements for DERAs,
- 4) address locational requirements,
- 5) address distribution and bidding,
- 6) address data and information,
- 7) allow for coordination between necessary entities,
- 8) address metering and telemetry,
- 9) address modifications to the list of resources in DERA, and
- 10) address market participation agreements.

The CAISO and its participating transmission owners have already gone to great lengths to ensure that DERs can easily access the wholesale markets for energy and ancillary services. These include ensuring that the CAISO does not prohibit any particular DER from participating in DERAs. This implementation now builds on this work by adding the DCR as an underlying resource type for the Distributed Energy Resource Aggregate (DERA). DERAs with any underlying DCR will be considered HDERA (given its capability to support both DER and DCR types) as opposed to the existing DERA (which only allows underlying DER). Demand response is considered a type of DCR in this context. Similarly, as with demand response, the metering performance of DCRs will be reflected as supply (or metering channel 4).

The existing CAISO Tariff already complies with most of FERC Order 2222; how ever, a few changes will be needed to align the tariff with the order by including a new resource classification, reducing the minimum allowable DER energy nameplate capacity limit (i.e. Pmax), and the creation of DCRs. Some of these changes will include:

- 1) Adapt small utility opt-in provision in its pro forma Demand Response Provider agreement for the CAISO's pro forma DERP Agreement, replacing Demand Response references with DER references.
- 2) Change definition of DER to align with the Commission's definition as found in section III B of the Order No. 2222 DERAs Compliance Filing.
- 3) CAISO proposes to implement a heterogeneous DERA model such that:
 - "Heterogeneous" DERAs must consist of at least one curtailment resource, and may comprise of the aggregate's underlying capacity in part or total.
 - Heterogeneous DERAs will provide a net response of energy, demand curtailment or both at its PNode(s). Settlements for heterogeneous DERAs will be based on the net service provided to the CAISO. This will be a sum of the net energy and the demand curtailment provided by the aggregate.
- 4) Define "Distributed Curtailment Resource" as a DER providing demand curtailment in a heterogeneous DERA.
- 5) Settle heterogeneous DERAs as a single supply resource, as a sum of net energy provided by DERs and the demand curtailed from DCRs.
- 6) The CAISO will apply a net benefits test to determine a threshold Market Clearing Price for Demand Response Providers and the new HDERA resource type.
- 7) Provision against double counting for any possible future scenarios, prevents a DER from participating in a DERA where the DER already participates in a retail net energy metering program that does not expressly permit wholesale market participation, requiring the distribution company to confer regarding any double-counting concerns
- 8) Reduce the minimum aggregate capacity limit of DERs from 500kW to 100kW for a DERA.
- 9) Revise Tariff to require DERPs to notify the CAISO whenever DERA information changes due to the removal, addition or modification of a DER within a DERA.



2024 – FERC 2222 – Distributed Curtailment Resources

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Project Information	Details/Date
	The proposed changes amend the CAISO's Tariffto comply with FERC Order 2222. FERC Order 2222 requires that all RTOs/ISOs all ow for Distributed Curtailment Resources (DCRs) that can provide a minimum qualified aggregate Pmax value of at least 100kW to participate in all markets. The CAISO already allows for DER participation but will have to make some adjustments to ensure compliance with FERC 2222.
Description	 Key Notes: Reduces DERA and HDERA minimum participation capacity to 100kW Introduction of HDERA Resource, aggregate with underlying DCR Settlements for HDERAs Same Net Benefitstesting as PDR for HDERAs
Scope	 RIMS add new Interconnection Customer display to process HDERA/DERA resource project details during NRI; change Pmax limit from 500 kW to 100 kW Master File GRDT, API Web Service update to accommodate HDERA_YN flag, + HDERA/DERA attributes receive (read-only, may only submit HDERA MF data through Concurrence Letter Attachment A submission and successful NRI process) SIBR enhancements to recognize HDERA resources, apply them to NBT with PDR prices, update rules to allow hourly GDF submission with bids IFM/RTM markets will model HDERA as generic NGR with NREM MRI-S extension of meter submission support for HDERA resources Settlements will configure HDERA charges and payments to settle as generic NGR with NREM (no new charge codes) Process Only (no system impact): Internal ISO process will track HDERA SQMD and monitoring data submission to ensure complian ce; ISO will contact SCs with delinquent submissions
ВРМ	 Definitions and Acronyms: Include HDERA, DCR terms Demand Response: Elaboration of net benefit testing Distributed Generation for Deliverability: Addition of the HDERA resource type. Generator Management: Inclusion of DCR in DERPAs, Schedule 1, and Concurrence Letter A template (add HDERA language) Market Instruments: Revision to minimum allowed Pmax limit; and HDERA (aggregate includes both DER and DCR child units, models as an aggregate generic NGR, bidshave NBT applied, may submit GDFs with bidselse default used) Market Operations: Revision to minimum allowed Pmax limit; and HDERA (aggregate includes both DER and DCR child units, models as an aggregate generic NGR, bidshave NBT applied, may submit GDFs with bidselse default used) Metering: New HDERA resource type includes net energy meter submission for DERA, as well asmonitoring requirement data from DCR and underlying consumption/energy data used with metering basis for baseline determination); HDERA monitoring Settlements and Billing: Impacts on settlements for HDERAs
Tariff Changes	§ 4.17.7 § 11.6.5.1 § 30.5.2.6 § 4.6.3.2 (existing) Appdx K: A 1.1 B 1.1 C 1.1 (existing)
Impacted Systems	RIMS, Master File, SIBR, MRI-S, Settlements
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2024 – FERC 2222 – Distributed Curtailment Resources

Milestone Type	Milestone Name	Dates	Status
Tariff	FERC Filing ER21-2455	Jul 19, 2021	✓
	FERC Filing ER21-2455 Amend Effective Date NLT Nov 01, 2024	Aug 15, 2022	✓
	FERC Order Accepting ER 21-2455	May 18, 2023	✓
BRS	Publish BRS 1.2 BRS comment period open thru Aug 09, 2024 05:00 pm (PT)	Jul 01, 2024 Closed	√
Tech Spec	MF Generator RDT v6: Add HDERA flag and baseline methodology attributes (read-only): Validation: values must be read-only; cannot be submitted via: Generator RDT excel template or SubmitGeneratorRDT_MFRD SubmitGeneratorRDT_MFRD_DocAttach RDT Definitions Draft	Aug 08, 2024 Aug 16, 2024	✓
ВРМ	Definitions and Acronyms Demand Response Distributed Generation for Deliverability Generator Management Market Instruments Market Operations Metering Settlements and Billing—Not applicable	Aug 23, 2024	
Operating Procedures	5330 – Resource Testing Guidelines	Yes	
Training	Training	Sep 12, 2024 9-10 AM PT	
Market Simulation	Market Simulation Scenarios Market Simulation – Unstructured	Jul 22, 2024 Sep 16 – Oct 11, 2024	✓
Production	FERC 2222 – Distributed Curtailment Resources	Nov 01, 2024	



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FERC 2023 – Generator Interconnection Life Cycle

Project Information	Details/Date
High Level Business Problem or Need	Effective with Cluster 15, the Generation Interconnection process will transition to maintain compliance with FERC Order 2023 using a new cloud platform from Grid Unity. This mandate will streamline the intake, study processes for generator interconnection requests, contracting and management of the queue.
High Level Project Scope	 Align the following Cluster 15 Generation Interconnection processes with FERC Order 2023 tariff provisions: Enhanced interconnection information for public access (Interactive Heatmap, Cluster Study Status Report) Transition from GIDAP to new RIS Interconnection Procedures Initiate IR submission, Customer Engagement Window, Cluster Request Window Cluster 14 and prior will initially remain in RIMS but will migrate to GridUnity next year
BPM Changes	Definitions and Acronyms (new) Resource Interconnection Standards (applies Tariff Appendix KK procedures) Generator Interconnection Procedures Generator Management Transmission Planning Process
Tariff Changes	Section 25: 25.1, 25.4, 25.5 Appendices A, B.23 (removed), DD, KK (new), LL (LGIA), MM (SGIA)
Impacted Systems	RIMS, Market Participant Portal, CAISO Public Website



FERC 2023 – Generator Interconnection Life Cycle

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Milestone Type	Milestone Name	Dates	Status
Policy	FERC Order 2023 is a mandate, but the project will additionally implement scope from the Interconnection Process Enhancements (IPE) 2023 initiative.	NA	NA
Board Approval	FERC Order 2023 compliance filing does not require Board approval. IPE 2023 Track 1 and 2 have been approved by the Board.	NA	NA
BRS	No BRS will be provided. Effective with Cluster 15, business processes shall align with the new Resource Interconnection Standards per FERC Order No. 2023 (ER24-2042). This will be implemented in a new cloud-based platform – Grid Resource Interconnection Portal (GRIP), This is separate from RIMS, which will initially remain to administer procedures for Cluster 14 and back. During the Resource Interconnection Standards Fair, stakeholders will receive training on FERC Order 2023 compliance and procedures as performed in the new GRIP.	NA	NA
Settlements Config Guides	Settlements Config Guides	NA	NA
Tech Spec	Publish Technical Specifications	NA	NA
Tariff	File Tariff Amendment – Interconnection Process Enhancements 2024 (ER242671)	Aug 01, 2024	✓
	Compliance Filing regarding FERC Order No. 2023 (ER24-2042)	May 16, 2024	✓
BPMs	Post Draft - Definitions and Acronyms Post Draft - Resource Interconnection Standards (applies Tariff Appendix KK procedures) – Post Draft BPM – Generator Interconnection Procedure Post Draft BPM – Generator Management Post Draft BPM – Transmission Planning Process	TBD – Waiting for FERC Approval	
Training	Resource Interconnection Standards Fair	Sep 17, 2024	
Production Activation	Production Activation will be delivered in alignment with the Cluster 15 Resource Interconnection Standards process within the following deliverables: - Cluster Application Window* - Cluster Study Process - Infrastructure Coordination *Note: CAISO will provide customers a 60-day period to input their interconnection request (versus the standard 15 days) to allow extra time to familiarize with the new GRIP.	Oct 01, 2024 (Cluster 15 Application Window Initiates) April 15, 2025 (Cluster Study Process Initiates) October 15, 2025 (Infrastructure Coordination Initiates)	

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.



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
CMRI	 Full and incremental Payload publishing Publish CRR Awards payload on event-driven, ad-hoc or scheduled basis Publish CRR Awards payload on event-driven, ad-hoc or scheduled basis
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
MPP	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

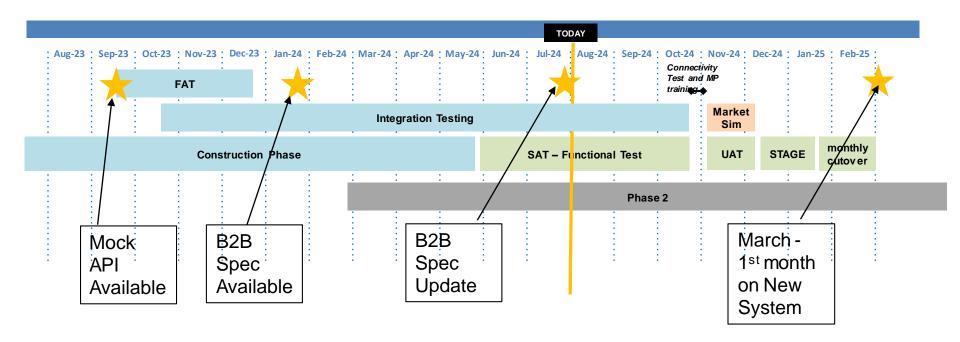


Milestone Type	Milestone Name	Dates	Status
Board Approval	Obtain Board of Governors Approval	NA	
External BRS	Publish External BRS BRS Revision v1.3	Nov 16, 2022 Mar 29, 2023	✓
Config Guides	Post Draft Config Guides	Yes	
Tech Spec	Publish Technical Specification	Feb 24, 2023	✓
Deployment Plan	Draft Deployment Plan	Yes	
Training	Training	Yes	
Customer Partnership Group	Last CPG Next CPG	Jul 25, 2024 Aug 22, 2024	✓



Updated July 2024

- Functional Site Acceptance Testing, B2B integration and security testing continues
- Connectivity Testing 1 week after above testing, starting in late October, just before Market SIM
- Training 1 week before Market SIM in late October
- Market SIM 2 week structured, then 3 week unstructured starting in early November
- 2025 Annual Cycle, carried out in 2024, will occur on the current Production CRR application
- Cutover to new CRR application 2025 March Monthly Allocation and Auction Market, carried out in February 2025





2024 - CRR System Upgrade - Get Connected

- CRR meetings:
 - Bi-weekly Technical User Group (TUG) Tue 10 AM, alternates with RUG.
 - Meetings available on the CAISO calendar on www.caiso.com
 - Meeting details and presentation materials are available on the CAISO Developer site at www.developer.caiso.com, which requires an account to be setup for access
 - CRR Customer Partnership Group
 - Last CPG Jul 25, 2024; <u>recording available</u>
 - Next CPG meeting is Thursday, Aug 22, 2024
 - Monthly
 - Meetings available on the CAISO calendar on www.caiso.com
 - Meeting details and presentation materials are available on <u>www.caiso.com</u> > Stay Informed > Meetings & Events > Customer Partnership Groups



2024 – 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 2024: RIMS Completed: Today's Outlook, ISO Today Mobile Application, Reports
Requirements	http://www.caiso.com/Documents/BusinessRequirementsSpecifications-HybridResourcesPhase2.pdf
California i	SO FUBLIC

2024 – 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	
Market Sim	Market Sim Window – RIMS	Q3 2024	
Shapefile	Shapefile requirements and samples will be presented in future RUG & TUG forums	Q3 2024	
Production Activation	Hybrid Resources 2C – RIMS	Oct 1, 2024	

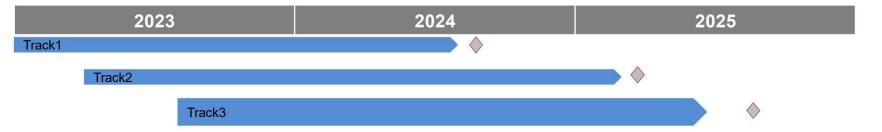


2024 – FERC 881 – Managing Transmission Line Ratings

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
High Level	 Establish and use ambient-adjusted ratings and seasonal ratings for all transmission lines unless 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

Milestone 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 By end of Sep 2024	✓
Market Simulation	Market Simulation	NA	
Production	Track 1 Real-Time Reliability Applications	Apr 1, 2024	✓
	Track 2 Operational/EMS Model Data & Applications	2024/early 2025	4

FERC 881 Project Timelines by Tracks



Track 1 – Real Time Reliability Applications

- Delays in application deliver timeline with FAC-11 additions to the project.
- Utilization of AAR in real time reliability applications.
- Estimated Target Capability to be ready by Q3 2024. Originally Q2.

Track 2 – Operational/EMS Model Data and Applications

- OATI WeblineR product will be utilized for receiving Look ahead ratings.
- Finalizing OATI functional specification document.
- Estimated Target Capability to be ready early 2025

Track 3 – Market Application and Look Ahead Applications

- Requirements phase started and should be complete by September 2024.
- Based on requirements gathering and vendor/internal resources constraints potential for delay in some aspects of implementation.
- Estimated Target Capability to be ready in Q2 2025.



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
- 4) Dynamic ETSR Limits Safety Net
- 5) System Net ITC Definitions WEIM entities, WEIM BA Ope

Who does this opportunity/ problem impact:

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



2024 – WEIM Fab Enhancements: Congestion Management Transparency

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

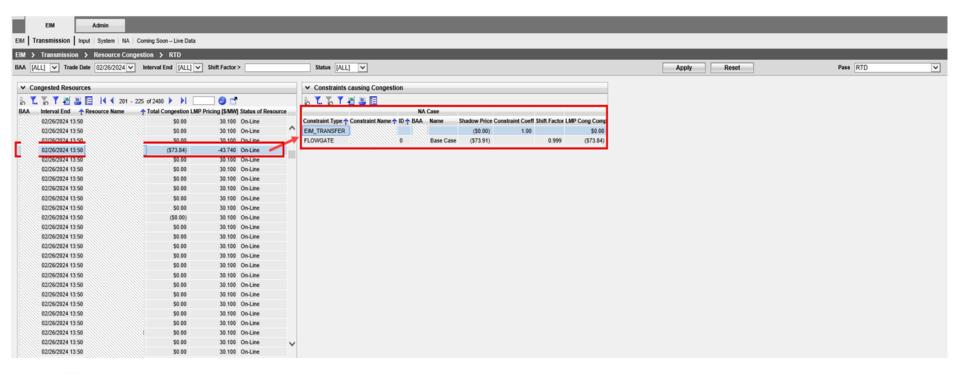
IFM/RTN: Operations > Transmission > Resource Congestion

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

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

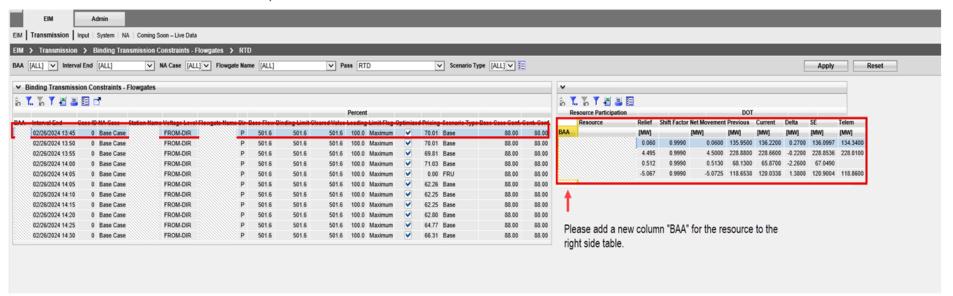
BAAOP: EIM > Transmission > Binding Transmission Constraints - Flowgates

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

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

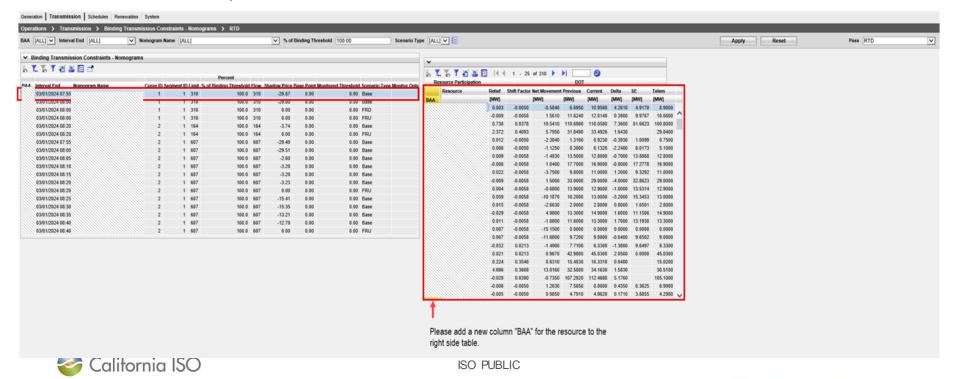
BAAOP: EIM > Transmission > Binding Transmission Constraints - Nomograms

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



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	



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



Fall 2024 Settlements Release – No Projects



Draft of 2024 Fall Settlements Release

**Please note this is a draft and subject to change **

Release Scope:

Non-Projects:

COTP Loss:

• Defect: Apply losses for the California Oregon Transmission Project (COTP) scheduled into the California Independent System O perator Corporation (CAISO) Balancing Authority Area using COTP capacity made available by Pacific Gas and Electric Company (PG&E) and the Transmission Agency of Northern California (TANC) consistent with the CAISO Tariff. This is an enhancement to implement an amended LOA among TANC, PGAE, WAPA. Instead of using average Day-Ahead Nodal prices for all nodes that includes the intertie (TRCYCOTPISO), a five-year rolling average cost will be used as as alternative for comparison with an hourly MEAA – another agreement - price. The MEAA price is at the intertie TRCYPGAE and Apnode WAPAMEEA3_ON_ASR-APND.

– RC Configuration Change:

• Defect: Issue with multiple BAA for Minimum RC Charge Flag. BA_RC_SVCS_NLOAD_TOP_MTH_EXMPT_FLAG has reference date "S" and needs to be updated to "T" to correctly be included in RC Settlement runs.

– RAAIM LESR Change:

• Defect: Revise the Generic Availability and Flexible Obligation calculations for Limited Energy Storage Resources (LESR) RAres ources. Consistent with how generic obligation award is computed only for positive capacity, the generic availability will recognize only bids/availability for the capacity above zero. Conversely, since flexible obligation award allows for the full range – from negative Pminto positive Pmax—the flexible obligation assessment shall recognize the negative capacity values, particularly for NGRs which can operate in the negative range.

– RMR:

• Defect: Fix a typo in BD with impact to CC 6470 design template. Typo correction will allow an RMR specific daily amount to be consumed by 7020 correctly.

Hierarchy Charge Name

• Defect: Hierarchy Charge Names with Discrepant BILL_DETERMINANT_NAME & BILL_DETERMINANT_ALIAS Values. The BILL_DETERMINANT and ALIAS columns should be exact matches except that the enumeration in the BILL_DETERMINANT column should have an '@' sign in the name. The ALIAS enumeration will have an '_' (underscore) in the same position. As long as we do not plan to recalc the CT for any trade dates in the past that have calculated using the previous spelling in the enumeration column we can make the change prospective without causing calculation errors going forward

– AET:

• Defect: ABC Regulation not being accounted for correctly in some scenarios for AET.

– Reference Date Usage (Tvs S):

• Defect: Some Bill Determinants need to be updated from reference date "S" to "T" to align with best business practices. align with best business practices.



Draft of 2024 Fall Settlements Release Milestones

Please note this is our first draft of 2024 Fall Release. It's subject to change

Release Milestones:

- ✓ 1st draft config output file + release component summary posted: 8/12/24
- 2nd draft config output file + revised release component summary posted: 9/4/24
- Market sim/sample statement window: 9/16 10/14
- Pre-prod configuration output file + release artifact revisions targeting: 10/23
- Anticipated prod activation effective trade date: 11/1

PRRs will be published by next week/end of August and covered in September and October BPM meetings.

PRRs will be presented in the Aug 28, 2024 Settlement User Group meeting.



Spring 2026 Release



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



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



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	\checkmark
	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	✓
Тооп орос	Publish Technical Specifications – MF	Nov 21, 2023	√ ·
	Publish MF GRDT v19.0 DRAFT		Ť
	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	✓
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 – 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	Implementation meeting	Aug 07, 2024	✓
External Training	External User Training	May 08, 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	✓
i i	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	√ ·
		Mar 30, 2023	√
	Draft Tariff Language		√
	Revised Draft Tariff Language	Jun 08, 2023	V
	Updated Revised Draft Tariff Language	Jul 25, 2023	V
	FERC Filing	Aug 22, 2023	√
	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	✓ ·
	Compilation Tilling, addopted April 50, 2024	100 10, 2024	
	Filing for EDAM aggrees shares	Apr 12 2024	
	Filing for EDAM access charge	Apr 12, 2024	v
	Receive FERC order accepting EDAM Access Charge Design (EDAM Tariff fully approved)	Jun 11, 2024	V
Settlements	Post Draft Config Guides - First set of charge codes	Jan 16, 2024	√
Config Guides	Post Draft Config Guides - Second set of charge codes	Mar 26, 2024	√
Coming Calacts	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	✓
	Publish Technical Specifications – OASIS	Apr 12, 2024	✓
Tech Spec	Publish Technical Specifications – CMRI	Apr 12, 2024	√
	Publish Technical Specifications – PLC	Jul 19, 2024	√ ·
			· ·
	Publish Technical Specifications – ALFS	NA NA	
	Publish Technical Specifications – OMS	NA	
	Business Practice Summary	Jul 10, 2024	✓
	Post Draft BPM – Energy Imbalance Market (EIM)		
	Post Draft BPM – Market Instruments		
BPMs	Post Draft BPM – Market Operations	TBD	
	Post Draft BPM - Settlements and 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	√ ·
Market Sim			./
	Market Sim Scenarios v1.1	Feb 15, 2024	V
D #10 "	EDAM Onboarding Market Sim	Sep 01, 2025 – Jan 16, 2026	
Parallel Operations	Draft Parallel Operations Plan	Apr 15, 2024	✓
	EDAM Production Deployment - Inactive	Oct 01, 2025	
Production	EDAM Onboarding (Financially Binding) & Activation (Pacificorp & BANC)	May 01, 2026	
	EDAM Onboarding – PGE	Fall 2026	

Extended Day Ahead Market BRS Revisions 1/3

- BRS v1.3 published 8/5/24
- Updated for the following
 - 1. Clarified RUC scope item
 - 2. Clarify ISO vs. EDAM BAA RSE participation rules
 - 3. Updates to GMC definition and configuration
 - 4. Added BRQ to define AS regions for each EDAM BAA
 - 5. Updates to account for new GMC definition for use in variable cost-based DEBs
 - Changed EDAM Entity access of "clean bids" to "bid-in quantity"
 - 7. Added EDAM Entity submission of CRN entitlement updates
 - 8. RSE optimization shall run for entire EDAM footprint
 - 9. Clarifications/additional details regarding EDAM disruption rules
 - 10. Clarify constraint interactions in RUC
 - 11. Clarify hourly TSR award tagging as EDAM Entity Responsibility
 - 12. Clarification to change calculation of hourly DA forecasted movement from "resource specific" to "nodal, by SC"
 - 13. New EDAM Access Charge requirements
 - 14. Updated list of reports to be accessible to EDAM entity
 - 15. Example added to Appendix A8 support new EDAM Access Charge requirements
 - 16. Updates to Requirement type
 - 17. Updates to impacted systems
 - 18. Language/terminology alignment, updates, and clarifications



Extended Day Ahead Market BRS Revisions 2/3

BRS v1.3 published 8/5/24

Section	Overview of Changes	Reason for Update	Updated	Ne w	Removed
1.3 Scope	Clarified RUC scope item	Clarification			
	Clarify ISO vs. EDAM BAA RSE participation rules	Clarification	BRQ-02060		
5.1 Manage Model and Contract Implementation and Full	Updates to GMC definition	Align EDAM GMC definition with 2023 Cost of Service Initiative	BRQ-02180		
Netw ork Model (MF)	Added BRQ to define AS regions for each EDAM BAA	ISO SME Feedback		BRQ-02270	
	Updates to account for new GMC definition for use in variable cost-based DEBs	Align EDAM GMC definition with 2023 Cost of Service Initiative	BRQ-08040		
5.4 Manage Default Energy Bids	Requirement type changed from "Core" to "Existing"	ISO SME Feedback	BRQ-08132		
	Redundant/unnecessary requirement removed	Changes are covered under BRQ-08040		BRQ-08130	
	Removed RTBS as impacted system	ISO SME Feedback	BRQ-11058a		
5.5 Manage Bid Submission	- Removed AIM as impacted system - Language clarification	ISO SME Feedback	BRQ-11260		
(SIBR)	Changed EDAM Entity Access of "clean bids" to "bid-in quantity"	ISO SME Feedback	BRQ-11295		
	EDAM Entity submission of CRN entitlement updates	ISO SME Feedback		BRQ-11261	
5.6 Manage DAM Resource Sufficiency Evaluation (DA-RSE)	Removal of "TBD: or each BAA" for RSE optimization	ISO SME Feedback	BRQ-12090		
5.7 Manage DAM (DAM)	-Removal of Settlements as impacted system -Clarifications regarding EDAM disruption rules	ISO SME Feedback	BRQ-13052		
	Additional details for EDAM disruption procedure	ISO SME Feedback		BRQ-13052a	
5.8 Manage RUC	Clarify constraint interactions in RUC	ISO SME Feedback	BRQ-14020		
5.9 Manage agging DAM Schedules and Resupply	Clarify hourly TSR aw ard tagging as EDAM Entity Responsibility	ISO SME Feedback	BRQ-15050		
5.12 Mange Market Quality, Validation, and Price Correction	Clarification to change calculation of hourly DA forecasted movement from "resource specific" to "nodal, by SC"		BRQ-18140		

Extended Day Ahead Market BRS Revisions 3/3

BRS v1.3 published 8/5/24

Section	Overview of Changes	Reason for Update	Updated	Ne w	Removed
	Updates to GMC configuration	Align EDAM GMC configuration with 2023 Cost of Service Initiative	BRQ-19298		
5.13 Manage Billing and Settlements	New EDAM Access Charge requirements	Developed updated BRQs to reflect FER-approved Tariff language		BRQ-19300, BRQ-19301, BRQ-19302, BRQ-19305, BRQ-19310, BRQ-19310a, BRQ-19310b, BRQ-19310c, BRQ- 19320, BRQ-19330, BRQ-19330a, BRQ-19330b, BRQ-19330c, BRQ- 19340a, BRQ-19340b, BRQ-19340c, BRQ-19350a, BRQ-19350b, BRQ- 19350c, BRQ-19360, BRQ-19361, BRQ- 19362, BRQ-19364, BRQ-19365	
	Removed "10 am"	Make requirements less prescriptive	BRQ-20050, BRQ- 20051, BRQ-20070		
5.14 Manage Market Reporting (CMRI, OASIS)	Updated list of reports to be accessible to EDAM entity	ISO SME Feedback	BRQ-20054		
Reporting (Civini, CASIS)	Changed requirement "movement" to requirement "transfer	ISO SME Feedback	BRQ-20082		
	Removed details	Make requirement less prescriptive	BRQ-20245		
	Detail added	ISO SME Feedback	MSISM-BRQ-2040		
Section 5.17 Market/Business	Changed "Entity" to "SC"	ISO SME Feedback	MSIM-BRQ-24120		
Simulation	Changed EDAM "Administrative Charge" to EDAM "GMC"	Policy/term alignment	MSIM-BRQ-24220		
Appendix A8: EDAM Access Charge Illustrative Example	Example added to support nev	v EDAM Access Charge requirements (\$	See Section 5.13)		

- Link to EDAM BRS v1.3 Redline
- Link to EDAM BRS v1.3 Clean

Link to commenting tool for EDAM BRS v1.3

Comments due August 26, 2024

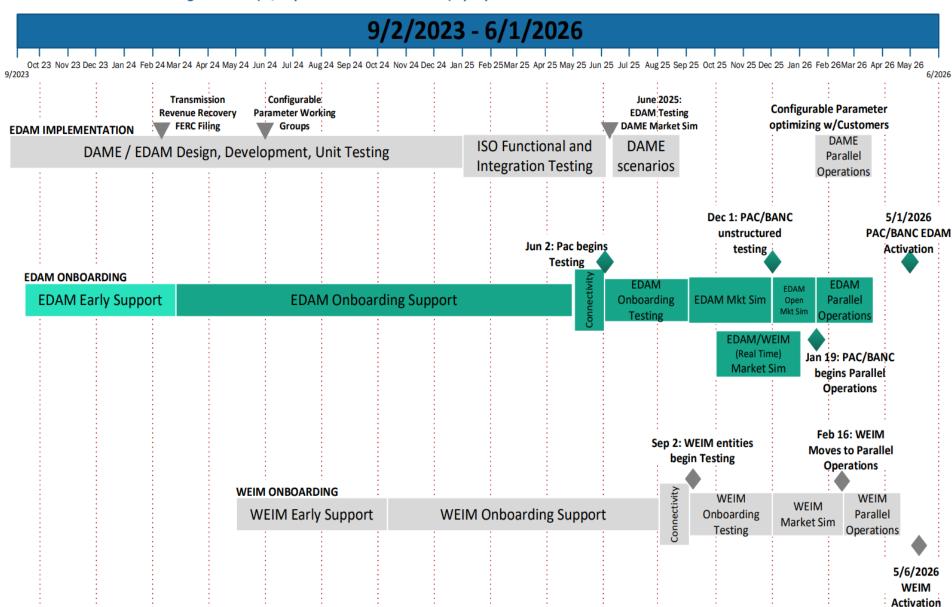
Reminder: Users must be registered in order to use the commenting tool



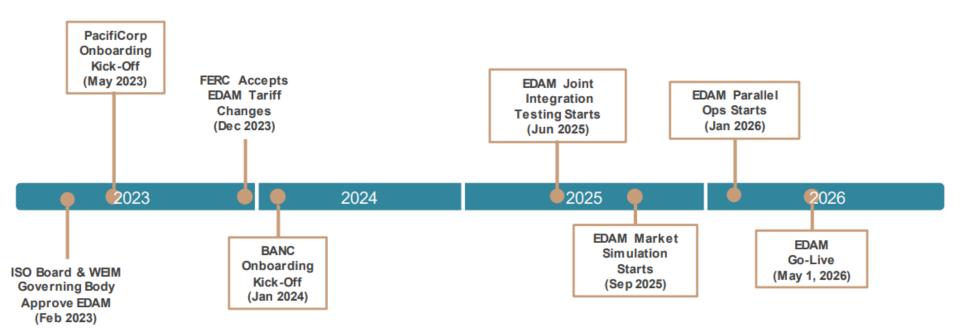
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EDAM & DAME Activation May 1, 2026

1/24/2023 EDAM Onboarding Timeline (w/implementation and WEIM) - proposed



Key EDAM Onboarding Milestones to Date





Spring 2026 – EDAM ISO BAA Participation Rules Track A

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 calculated historical revenue recovery amounts.
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 (requires refiling): To set forth the calculations for the EDAM Historical Revenue Recovery amounts for transmission owners in the CAISO BA
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 Track A

Mile et ene Tyre	Mile stone Neme	Detec	Ctatus
Milestone Type Policy Development	Milestone Name Track A1 Final Proposal Historical Recovery Revenue policy confirmation	Dates Aug 31, 2023 Part of tariff work	Status √
Board Approval	Board approval	Sep 21, 2023	✓
Tariff	Draft Tariff Language Revised Tariff Language FERC Filing (CAISO BA Participation in EDAM ER24-379) 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 Historical Recovery Revenue FERC Filing (EDAM Access Charge ER24-1746) FERC Order (EDAM Access Charge ER24-1746): acceptance	Aug 25, 2023 Oct 11, 2023 Nov 13, 2023 Dec 20, 2023 Mar 7. 2024 Apr 12, 2024 Jun 11, 2024	✓ <p< td=""></p<>
BRS	Publish BRS BRS comment period open thru Aug 02, 2024 05:00 pm (PT) Publish External BRS v1.n: Clarifications, corrections, adding market simulation requirements Publish External BRS v1.n: Historical Recovery Revenue tariff dependency	TBD Jun 18, 2024 Closed TBD TBD	✓ ✓
Settlement Config Guides	Post Draft Config Guides - second set of charge codes Post Draft Config Guides - Third set of charge codes & updates to First & Second sets Charge codes impacted by Historical Recovery Revenue	Mar 26, 2026 Aug 26, 2024 TBD	√
Tech Spec	Part of EDAM framework (if applicable)		
BPMs	Post Draft BPM – Congestion Revenue Rights Post Draft BPM – Definitions and Acronyms Post Draft BPM – Energy Imbalance Market (EIM) Post Draft BPM – EDAM Post Draft BPM – Market Instruments Post Draft BPM – Market Operations Post Draft BPM – Settlements and Billing Post Draft BPM – Transmission Planning Process	TBD	
External Training	Training	TBD	
Market Sim	Coordinated with EDAM market sim	TBD	
Production	EDAM Production Deployment - Inactive EDAM Onboarding (Financially Binding) & Activation	Oct 01, 2025 May 01, 2026	

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

Jul 23, 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 is reviewing the overall schedule for implementation. The current schedule is colliding with EDAM and DAME 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.
- 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 October 2024
- 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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	November						
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CAISO Holiday



RUG Forum



Contact

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





