

# Scheduling Infrastructure & Business Rules (SIBR) Overview for DAME & EDAM – Part 1

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Rev. 2/5/26

## What you will learn

By completing this training, you will gain essential skills and knowledge to prepare for EDAM participation. You will be able to:

- Describe the basic use and process flows of the SIBR User Interface.
- Explain the process for gaining access to SIBR.
- Locate useful SIBR reference resources.



This is step 1 in a 3-part SIBR training series

1

Introduction to SIBR –  
Basic Concepts  
Part 1  
Part 2

2

SIBR Fundamentals –  
General Bidding

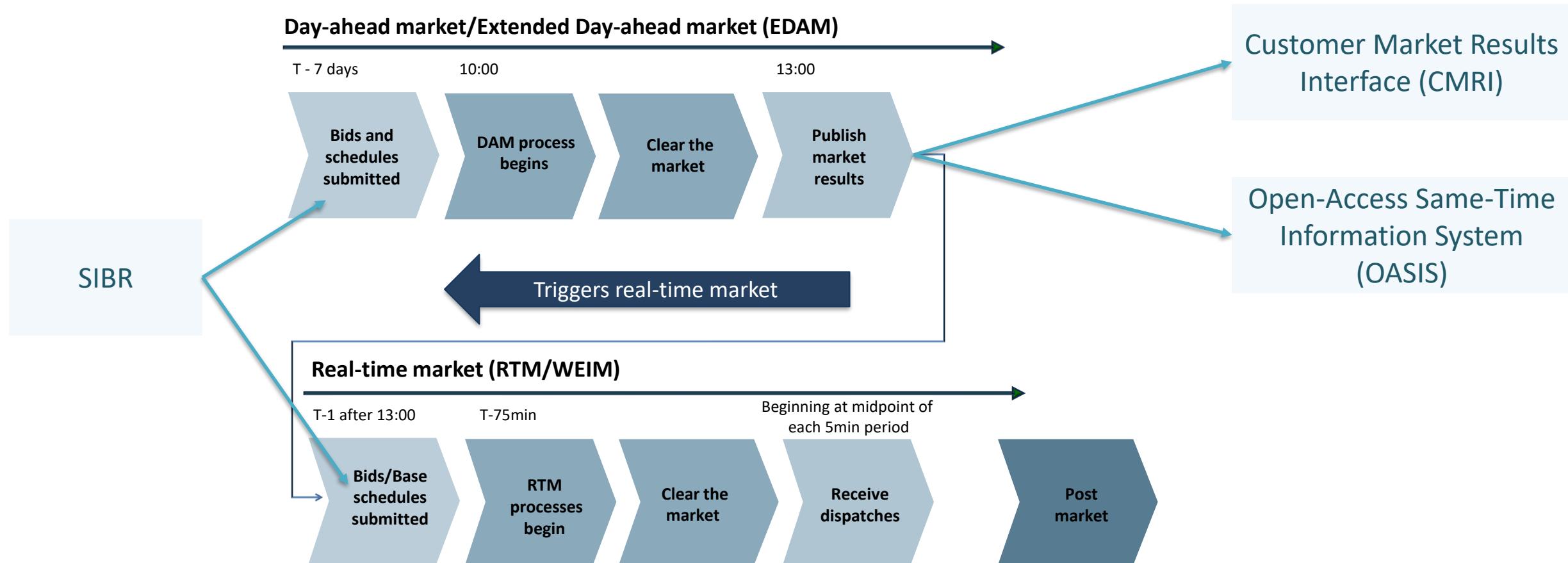
3

Advance SIBR Bidding  
Concepts for EDAM –  
Transfer System  
Resources

# SIBR OVERVIEW



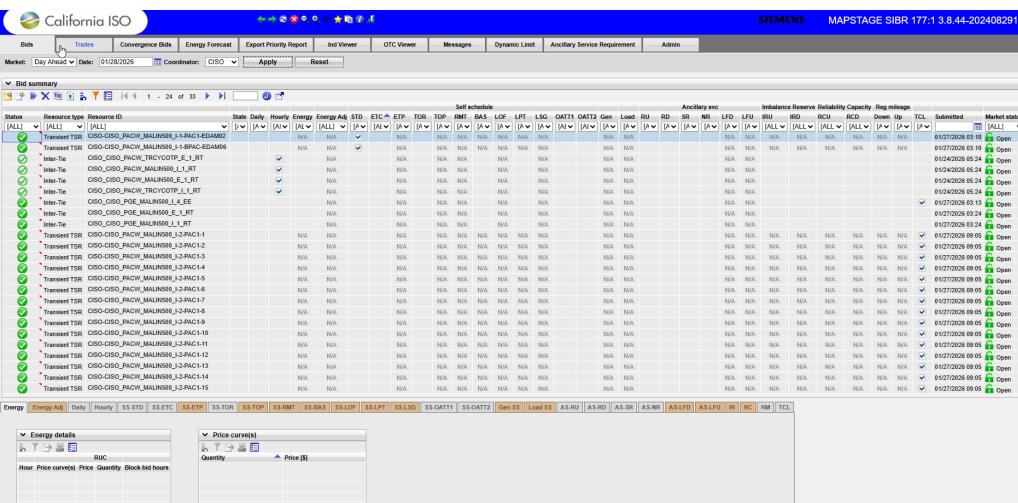
# Market Timeline



# Scheduling Infrastructure and Business Rules (SIBR)

User interface (UI) provided by the California ISO that:

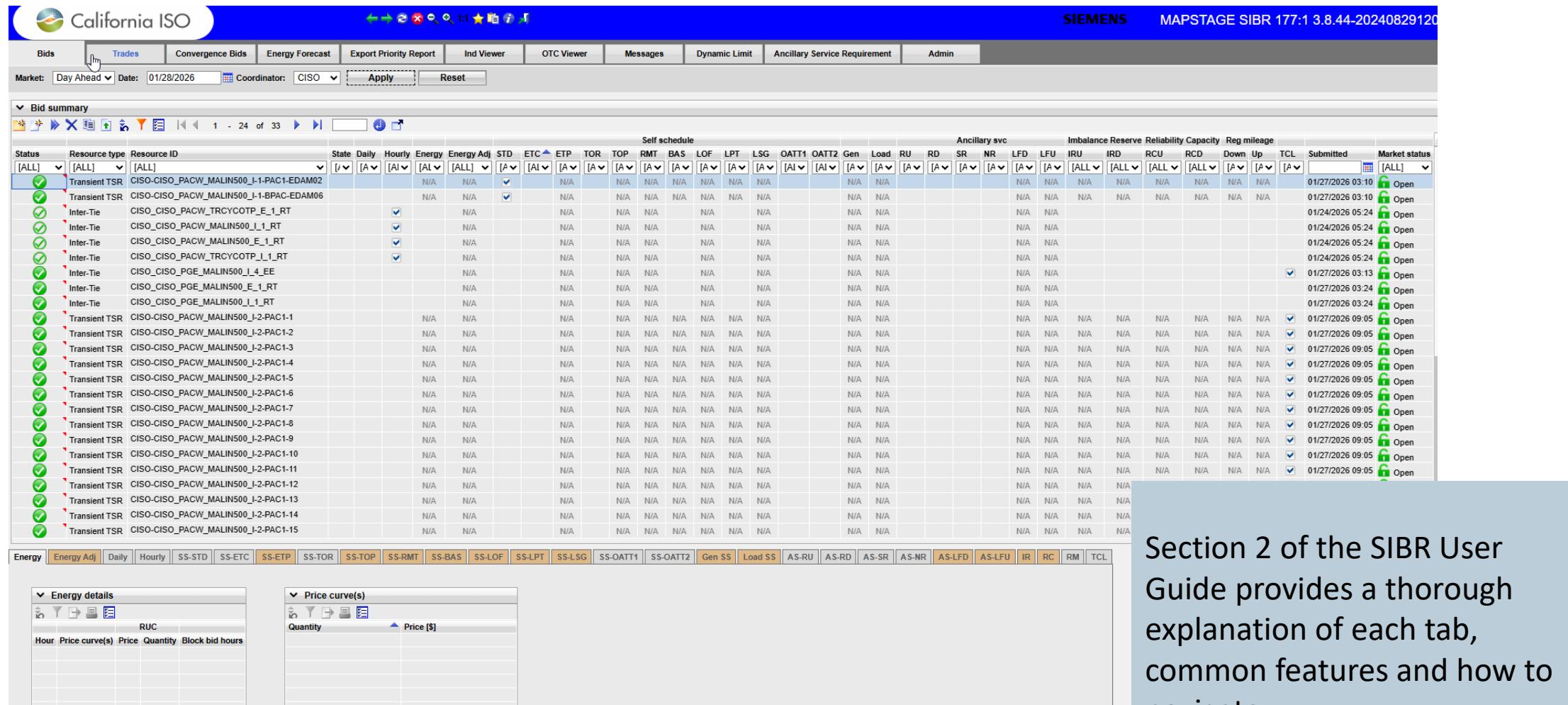
- Accepts bids and trades for energy and energy-related commodities from Scheduling Coordinators that are certified to interact with CAISO
- Ensures that those bids and trades are valid and modifies bids for correctness when necessary
- Enters those bids and trades into a database for processing by other components of CAISO's management systems
- Provides required feedback in the form of messages displayed to SCs concerning bids and trades that have been submitted



The screenshot shows a software interface titled "California ISO" with a sub-header "MAPSTAGE SIBR 177-1 3.8.44-20240829120". The main window is titled "Bid summary". The interface includes a toolbar with buttons for Back, Forward, Home, and Search, and a menu bar with "File", "Edit", "View", "Tools", "Help", and "Admin". Below the menu is a toolbar with buttons for "Bids", "Trades", "Convergence Bids", "Energy Forecast", "Export Priority Report", "Ind Viewer", "OTC Viewer", "Messages", "Dynamic Limit", "Ancillary Service Requirement", and "Admin". The "Bids" button is highlighted. A status bar at the bottom shows "Market: Day Ahead | Date: 01/28/2026 | Coordinator: CISO | Apply | Reset". The main content area is a table titled "Bid summary" with columns for "Status", "Resource type", "Resource ID", "State", "Daily", "Hourly", "Energy", "Energy Adj", "STD", "ETC", "ETP", "TOR", "RME", "LOP", "LSD", "DAT1", "OAT2", "Gen", "Load", "RU", "RD", "SB", "NG", "LED", "LPU", "RSH", "RSD", "RCL", "RCS", "Down", "IM", "TCL", "Submitted", and "Market status". The table lists numerous entries, each with a green checkmark icon. The "Submitted" column shows dates like "01/27/2026 03:19" and "01/27/2026 03:24" with "Open" status. The "Market status" column shows "Open" for most entries.

Status	Resource type	Resource ID	State	Daily	Hourly	Energy	Energy Adj	STD	ETC	ETP	TOR	RME	LOP	LSD	DAT1	OAT2	Gen	Load	RU	RD	SB	NG	LED	LPU	RSH	RSD	RCL	RCS	Down	IM	TCL	Submitted	Market status
✓	Transient TSR	CISO-CISO_PAVC_MAULIN09_3_JPA04-0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/27/2026 03:19	Open		
✓	Transient TSR	CISO-CISO_PAVC_MAULIN09_3_JPA04-0003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/24/2026 03:24	Open		
✓	Inter-Tie	CISO-CISO_PAVC_MAULIN09_1_JRT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/24/2026 03:24	Open		
✓	Inter-Tie	CISO-CISO_PAVC_MAULIN09_1_JRT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/24/2026 03:24	Open		
✓	Inter-Tie	CISO-CISO_PAVC_MAULIN09_1_JRT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/27/2026 03:24	Open		
✓	Inter-Tie	CISO-CISO_PAVC_MAULIN09_1_JEE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/27/2026 03:24	Open		
✓	Inter-Tie	CISO-CISO_PAVC_MAULIN09_1_JRT	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/27/2026 03:24	Open		
✓	Transient TSR	CISO-CISO_PAVC_MAULIN09_1_JPA04-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/27/2026 03:24	Open		
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✓	Transient TSR	CISO-CISO_PAVC_MAULIN09_1_JPA04-5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/27/2026 03:24	Open		
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✓	Transient TSR	CISO-CISO_PAVC_MAULIN09_1_JPA04-8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/27/2026 03:24	Open		
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# Scheduling Infrastructure and Business Rules (SIBR)



The screenshot shows the California ISO SIBR interface. The top navigation bar includes links for Bids, Trades, Convergence Bids, Energy Forecast, Export Priority Report, Ind Viewer, OTC Viewer, Messages, Dynamic Limit, Ancillary Service Requirement, and Admin. The main content area displays the Bid summary table, which lists various resource types and their bids across different markets and timeframes. The table includes columns for Status, Resource type, Resource ID, State, Daily, Hourly, Energy, Energy Adj, STD, ETC, ETP, TOR, RMT, BAS, LOF, LPT, LSG, OATT1, OATT2, Gen, Load, RU, RD, SR, NR, LFD, LFU, IRU, IRD, RCU, RCD, Down, Up, TCL, Submitted, and Market status. Below the table are tabs for Energy, Energy Adj, Daily, Hourly, SS-STD, SS-ETC, SS-ETP, SS-TOR, SS-RMT, SS-BAS, SS-LOF, SS-LPT, SS-LSG, SS-OATT1, SS-OATT2, Gen SS, Load SS, AS-RU, AS-RD, AS-SR, AS-NR, AS-LFD, AS-LFU, IR, RC, RM, and TCL. At the bottom, there are tabs for Energy details and Price curve(s).

Section 2 of the SIBR User Guide provides a thorough explanation of each tab, common features and how to navigate

# ACCESS



# Application Access

- Certificate provisioning is required to access SIBR and all other ISO applications.
- Access the Market Participant Portal (MPP) to locate the link to SIBR.
- If you do not have access to the MPP or any other ISO applications or portals, contact your organization's User Access Administrator (UAA) for assistance.



To learn more about how to access ISO applications view the [How to Gain Access to the ISO Applications](#) computer-based training course

# REFERENCE MATERIALS



# SIBR documentation is posted to caiso.com

- Existing business rules are posted, along with upcoming changes based on EDAM implementation.
- Release notes capture changes made to business rules.
- Additional technical information is posted to the ISO's Developer Portal (account required).

## Scheduling Infrastructure Business Rules (SIBR) - Bidding

The Scheduling Infrastructure Business Rules (SIBR) – Bidding application provides market participants with the ability to submit bids for energy and energy-related commodities and services.

[Access the application through the MPP\\*](#) 

\* Certificate required

Technical documentation, including technical specifications and artifacts (WSDL, XSD), are available on the [Developer Portal](#) (developer account required).

[View all previous release notes and business rules for SIBR.](#)

### Production

- [SIBR Scheduling Coordinator User Guide](#)  08/23/2023, 9:44 AM
- [SIBR Business Rules for Bidding v11.7.4](#)  08/02/2023, 11:51 AM
- [SIBR Reports Self Schedule Contracts Report](#)  07/16/2009, 12:59 PM

### Upcoming

- [SIBR Business Rules for DAME and EDAM](#)  05/28/2025, 10:28 AM
- [SIBR Release Notes for Extended Day-Ahead Market and Enhancements \(EDAM/DAME\)](#)  05/28/2025, 10:28 AM
- [SIBR Release Notes Rules for Price Formation Enhancement \(PFE\)](#)  06/28/2024, 10:22 AM
- [SIBR Business Rules for Bidding v 11.8.3](#)  06/28/2024, 10:22 AM  
Scheduling Infrastructure Business Rules for Price Formation Enhancement
- [SIBR Scheduling Coordinator User Guide for DAME](#)  03/05/2024, 11:06 AM
- [SIBR Business Rules for Bidding v11.8](#)  12/01/2023, 10:09 AM

# Developer Portal



Developer

## Developer resources

Welcome to the ISO's site for developers to interface with our technical systems and services. This site provides detailed descriptions of current and emerging Application Programming Interfaces (APIs), acceptable use, connectivity, sample code, and frequently asked questions.

[Sign up](#)

[Log in](#)

<https://developer.caiso.com/>

### Documentation Types:

- Technical Specs
- Services
- Resources:
  - User Guides
  - Release Notes
  - FAQs & Forums

### Enhance your programs using our APIs

This is the main source for technical programming information for California ISO. Find services, sites, and documentation for each ISO app.

Don't know where to start?

[View our Getting Started Guide](#)

Have questions?

[View our Developer Forum](#)

### News

CAISO will be retiring  
<https://wsstas.caiso.com:4445> 6/23

CAISO Python B2B SOAP Utility  
Available for Download

### Frequently asked questions

Answers to common questions

### B2B Security Specification

Provides definition of the syntax and semantics of security tokens that California ISO exchanges with external entities

### Truststore Root Certificate Integration

Truststore Root Certificate Integration FAQ

### Accessing applications and services

#### Sites

ISO URLs and end point information

#### Rate Limit and Acceptable Use Policy

Regulates web service consumption by users

#### API Terms of Use

License and restriction information for use of California ISO APIs

#### Release planning

Technical specifications and project information

#### Access and Identity Management (AIM)

Request, obtain, update and maintain user access to ISO applications

#### Supported browsers

List of applications and sites with supported browsers

### Apps

#### ADS

Automated Dispatch System

#### ALFS

Advanced Load Forecasting System

#### BAAOP

Balancing Area Authority Operator Portal

#### BSAP

Base Schedule Aggregation Portal

#### CIRA

Customer Interface for Resource Adequacy

#### CMRI

Customer Market Results Interface

#### CRR

Congestion Revenue Rights

#### DRRS

Demand Response Registration System

#### ETCC

Existing Transmission Contracts Calculator

#### FDR

Forecast Data Repository

#### HANA

Hosted Advanced Network Applications

#### MFRD

MasterFile

#### MNS

Market Notification Service

#### MRI-S

Market Results Interface - Settlements

#### OASIS

Open Access Same-time Information System

#### OMS

Outage Management System

#### RCBSAP

Reliability Coordinator Base Schedule Aggregation Portal Interface

#### RCEIDE

RC Electric Industry Data Exchange

#### RTSI

Real Time Scheduling Interface

#### webLineR

Transmission Line Ratings Management System

#### SIBR

#### SIBR

Scheduling Infrastructure Business Rules

# Developer Portal – SIBR Page

The image displays the California ISO Developer Portal interface, specifically the SIBR (Scheduling Infrastructure Business Rules) page and its associated library content.

**Top Navigation:** California ISO, Developer, Apps, Releases, Resources, Support, Contact, Carder, Heidi.

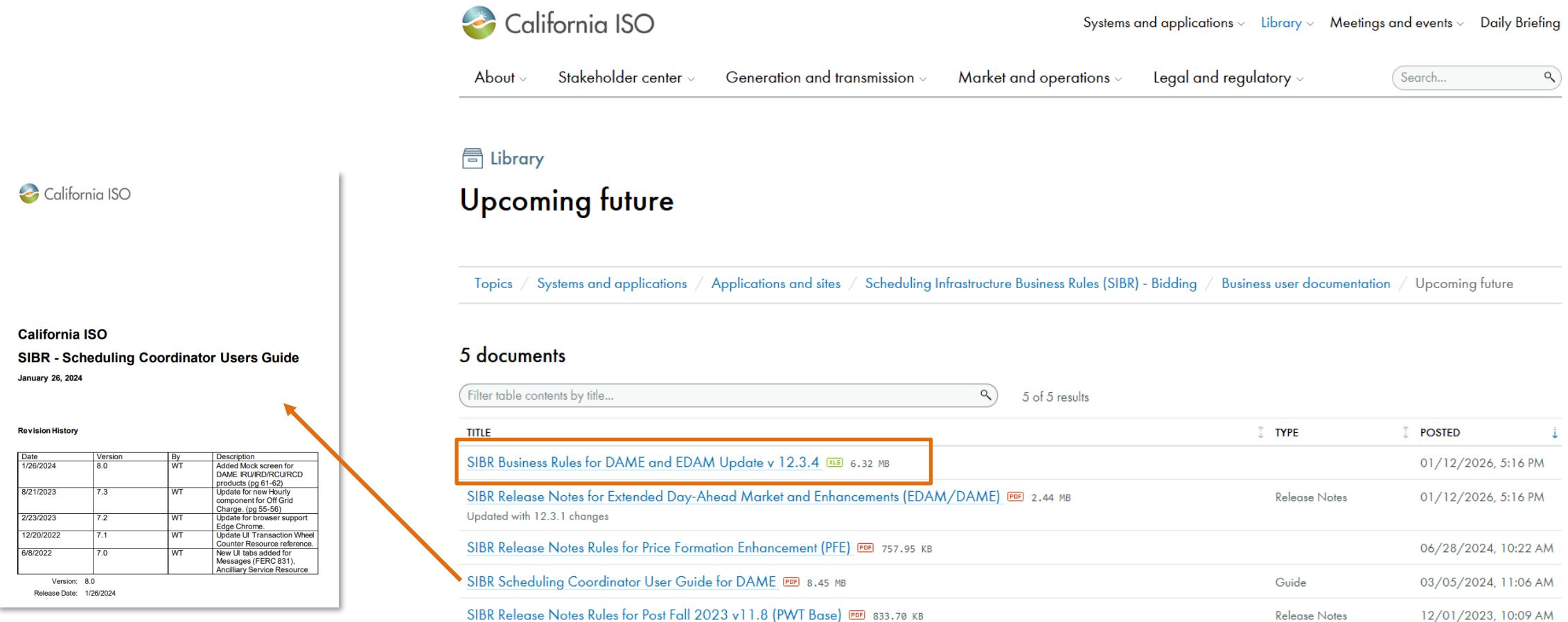
**SIBR Page:** SIBR Scheduling Infrastructure Business Rules. Overview section lists the application's purpose and features. A 'Resources' sidebar contains links to SIBR Bidding, Inter-SC Trades, UI screenshots, HTTP Error Codes, Connectivity Test, SIBR FAQ, and .NET Sample.

**Library:** Scheduling Infrastructure Business Rules (SIBR) - Bidding. This section contains technical documentation and artifacts. An orange arrow points from the 'Business user documentation' section in the library to the 'Business user documentation' section in the 'Upcoming future' folder of the library.

**Business User Documentation:** This section is part of the 'Business user documentation' folder in the library. It contains 6 documents.

**Upcoming Future:** This section is part of the 'Upcoming future' folder in the library. It contains 5 documents.

# Developer Portal – SIBR Page



California ISO

Systems and applications  Library  Meetings and events  Daily Briefing

About  Stakeholder center  Generation and transmission  Market and operations  Legal and regulatory 

Search... 

 Library

## Upcoming future

Topics / Systems and applications / Applications and sites / Scheduling Infrastructure Business Rules (SIBR) - Bidding / Business user documentation / Upcoming future

### 5 documents

Filter table contents by title...  5 of 5 results

TITLE	TYPE	POSTED
<a href="#">SIBR Business Rules for DAME and EDAM Update v 12.3.4  6.32 MB</a>		01/12/2026, 5:16 PM
<a href="#">SIBR Release Notes for Extended Day-Ahead Market and Enhancements (EDAM/DAME)  2.44 MB</a> Updated with 12.3.1 changes	Release Notes	01/12/2026, 5:16 PM
<a href="#">SIBR Release Notes Rules for Price Formation Enhancement (PFE)  757.95 KB</a>		06/28/2024, 10:22 AM
<a href="#">SIBR Scheduling Coordinator User Guide for DAME  8.45 MB</a>	Guide	03/05/2024, 11:06 AM
<a href="#">SIBR Release Notes Rules for Post Fall 2023 v11.8 (PWT Base)  833.70 KB</a>	Release Notes	12/01/2023, 10:09 AM

Revision History

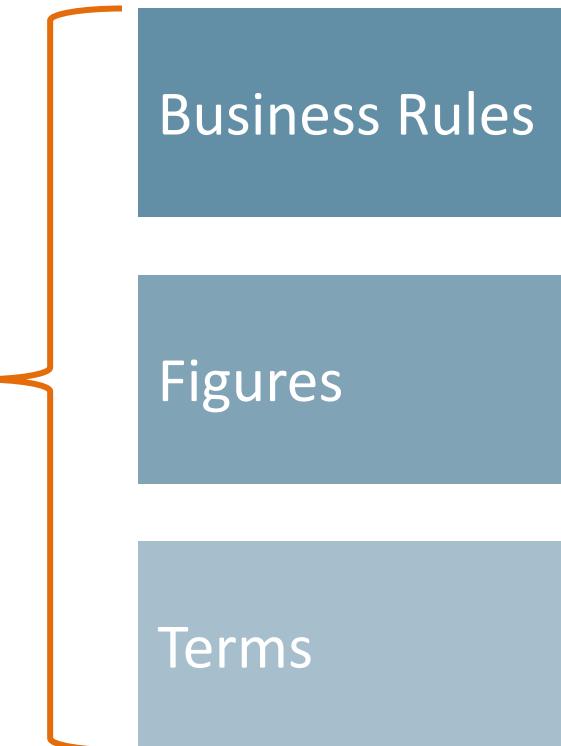
Date	Version	By	Description
1/26/2024	8.0	WT	Added Mock screen for DAME IRU/DR/RCUR/CD products (pg 61-62)
8/21/2023	7.3	WT	Update for new Hourly component for Grid Changes 65-59
2/23/2023	7.2	WT	Update for browser support Edge Chrome
12/20/2022	7.1	WT	Update UI Transaction Wheel Counter Resource reference.
6/8/2022	7.0	WT	New UI tabs added for Messages (FERC 831), Ancillary Service Resource

Version: 8.0  
Release Date: 1/26/2024

# Scheduling Infrastructure Business Rules (SIBR)

Market	Business Rule ID	Business Rule Numbering	Description			Comments
			General			Constants, configurable parameters and general system
ALL	10001	1	The configurable Time Precision must be initialized to one minute.			
ALL	10002	1	The configurable Quantity Precision must be initialized to 0.01 MW, MWh, or MW/min.			
ALL	10003	1	The configurable Price Precision must be initialized to one cent of a US Dollar.			
ALL	10020	1	The configurable Distribution Factor Precision must be initialized to 0.0001.			
ALL	10029	1	The configurable Balancing Tolerance must be initialized to 0.1 MW.			
ALL	10004	1	All Submitted Bids and Submitted Trades must adhere to the following numerical precision rules: a) all time quantities must have a precision no finer than the configurable Time Precision, b) all Energy, Capacity, and Ramp Rate quantities must have a precision no finer than the configurable Quantity Precision, and c) all prices must have a precision no finer than the configurable Price Precision.			
ALL	10005	1	The configurable Maximum Start-Up Time/Cost Curve Segment Number for Submitted Bids must be initialized to 3.			
ALL	10006	1	The configurable Maximum Energy Curve Segment Number for Submitted Bids must be initialized to 10.			
ALL	10007	1	The configurable Maximum Ramp Rate Curve Segment Number for Submitted Bids must be initialized to 4.			
ALL	10048	1	The configurable NGR Maximum Ramp Rate Curve Segment Number for Submitted Bids must be initialized to 2.			
ALL	10021	1	The configurable Energy Bid Floor must be initialized to -\$150/MWh			
ALL	10022	1	The configurable Energy Bid Ceiling must be initialized to \$2000/MWh			
ALL	10074	1	The configurable Energy Bid Soft Cap must be initialized to \$1000/MWh			
DAM	10076	1	The configurable Day-Ahead Inter-Tie Virtual and Non-Participating Load Energy Bid Ceiling must be initialized to the Energy Bid Soft Cap for each Trading Hour.			
RTM	10077	1	The configurable Real-Time Inter-Tie Energy Bid Ceiling must be initialized to the Energy Bid Ceiling for each Trading Hour in which the Energy Bid Ceiling High Limit Flag is set to Yes, otherwise it must be initialized to the Energy Bid Soft Cap, and all Scheduling Coordinators must be notified of Trading Hours in which the Real-Time Inter-Tie Energy Bid Ceiling was initialized to the Energy Bid Ceiling.			

SIBR Business Rules for DAME and EDAM Update v12.3.4



Bidding rules for bid submission

Business Rules

Definitions of the business rules

# BID CREATION & SUBMISSION PROCESSES



# Products and services

Financial and physical resource capabilities determine how customers can participate in the Extended Day-Ahead Market.

## Energy

- Physical supply and demand
- Virtual supply and demand (optional feature of EDAM)

## Transmission

- Transfer Capacity Limit
  - For Transfer System Resources

## Capacity

- Ancillary Services (self-provided)
  - Regulation up & down
  - Spin & non-spin operating reserves
- Imbalance Reserves
- Reliability Capacity
- Flexible ramping product (Real-Time Market)

Awarded from Energy bids

# Scheduling Infrastructure and Business Rules (SIBR)

California ISO

SIEMENS MAPSTAGE SIBR 177:1 3.8.44-20240829120

Bids Trades Convergence Bids Energy Forecast Export Priority Report Ind Viewer OTC Viewer Messages Dynamic Limit Ancillary Service Requirement Admin

Market: Day Ahead Date: 01/28/2026 Coordinator: CISO Apply Reset

**Bid summary**

Self schedule Ancillary svc Imbalance Reserve Reliability Capacity Reg mileage

Status	Resource type	Resource ID	State	Daily	Hourly	Energy	Energy Adj	STD	ETC	ETP	TOR	TOP	RMT	BAS	LOF	LPT	LSG	OATT1	OATT2	Gen	Load	RU	RD	SR	NR	LFD	LFU	IRU	IRD	RCU	RCD	Down	Up	TCL	Submitted	Market status		
[All]	[All]	[All]	[I]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	[A]	
Transient TSR	CISO-CISO_PACW_MALIN500_I-1-PAC1-EDAM02					N/A	N/A	✓					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/27/2026 03:10	Open
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Inter-Tie	CISO_CISO_PACW_TRCYCOTP_E_1_RT					✓							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/24/2026 05:24	Open
Inter-Tie	CISO_CISO_PACW_MALIN500_I_1_RT					✓							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/24/2026 05:24	Open
Inter-Tie	CISO_CISO_PACW_MALIN500_E_1_RT					✓							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/24/2026 05:24	Open
Inter-Tie	CISO_CISO_PACW_TRCYCOTP_I_1_RT					✓							N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/24/2026 05:24	Open
Inter-Tie	CISO_CISO_PGE_MALIN500_I_4_EE												N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/27/2026 03:13	Open
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Transient TSR	CISO-CISO_PACW_MALIN500_I-2-PAC1-1												N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	01/27/2026 09:05	Open
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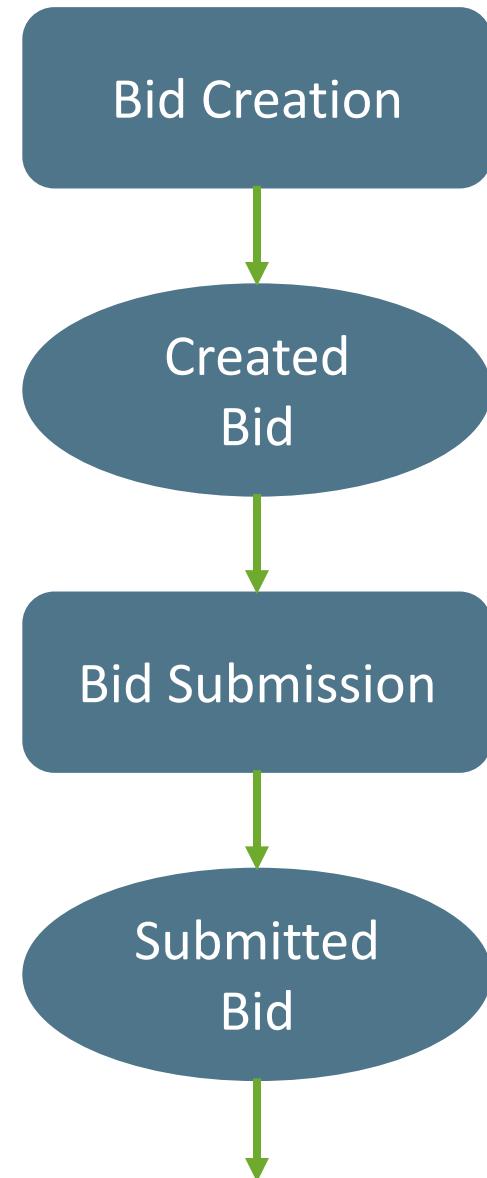
Energy Adj Daily Hourly SS-STD SS-ETC SS-ETP SS-TOP SS-RMT SS-BAS SS-LOF SS-LPT SS-LSG SS-OATT1 SS-OATT2 Gen SS Load SS AS-RU AS-RD AS-SR AS-NR AS-LFD AS-LFU IR RC RM TCL

**Energy details**

**Price curve(s)**

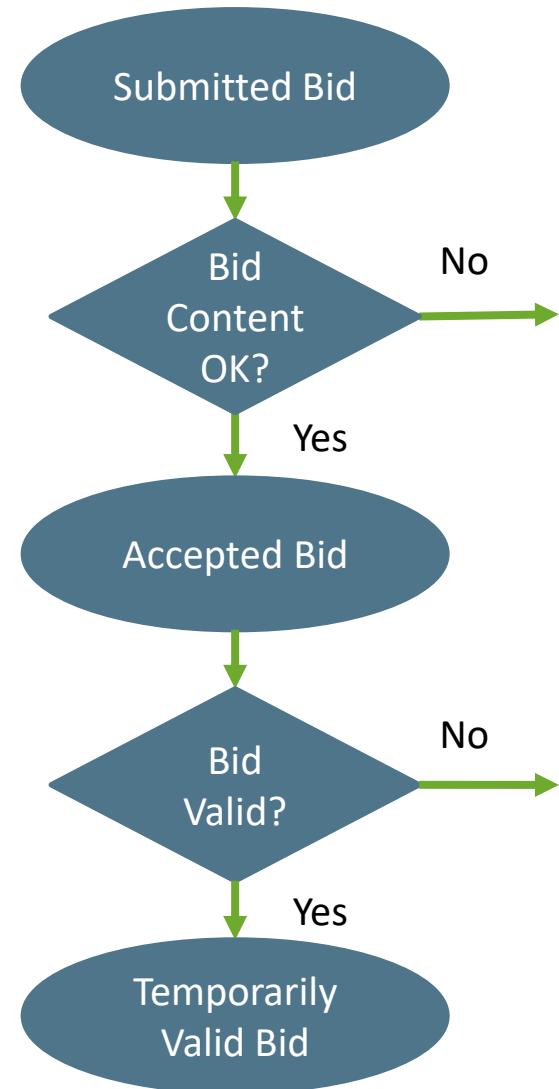
## Process Flows – Day-Ahead Bid Creation & Submission

- Bid created in SIBR
- Results in “Created Bid” that is saved in the system’s database
- When bid creation is complete submit the bid
- Results in “submitted bid” that can be used by the system



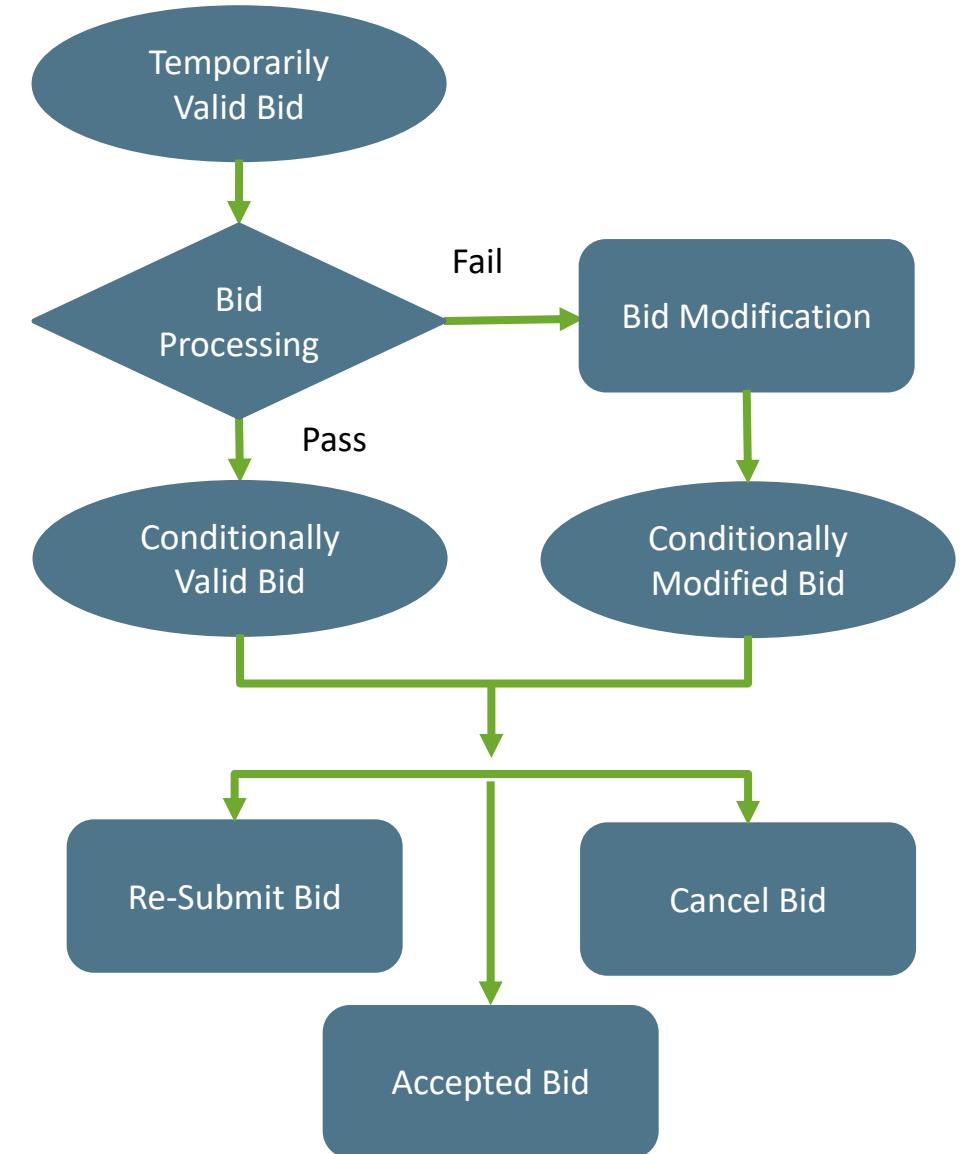
## Process Flows – Day-Ahead Bid Validation

- Rules Engine performs a “bid content” validation on submitted bid
- Bids that are structurally complete and correct produces “Accepted Bid”
- Further processing by Rules Engine to ensure it complies with applicable market rules
- Results in “Temporarily Valid” bid



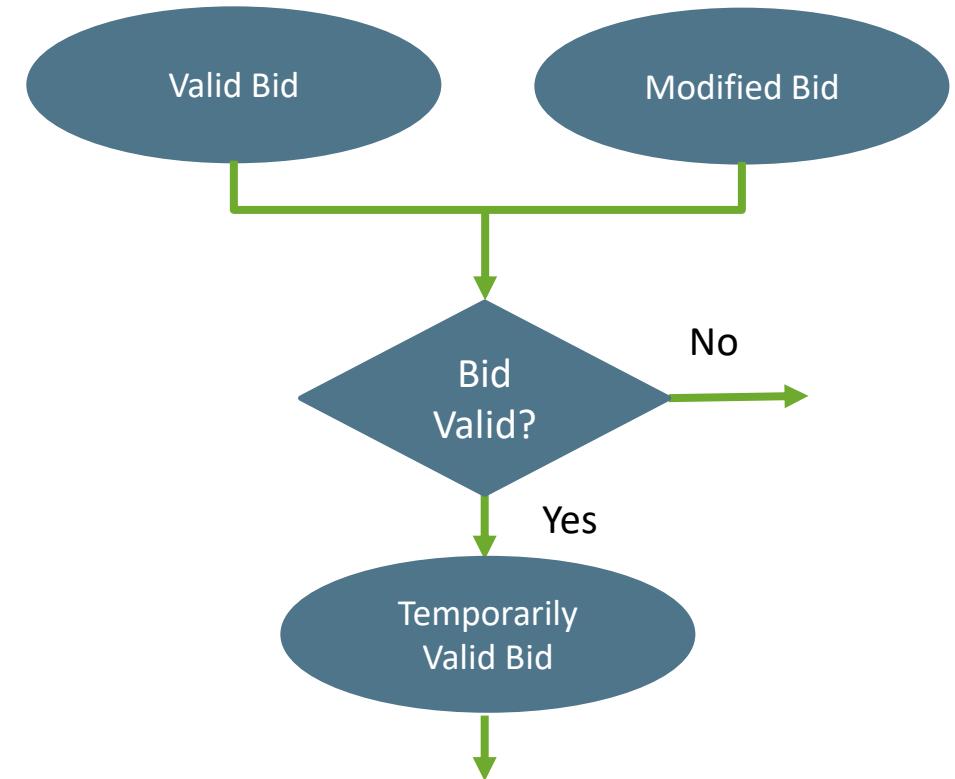
# Process Flows – Day-Ahead Bid Processing

- Starts with a bid that has passed previous validation steps
- Bid may be modified by the system
- Produces a “Conditionally Valid” or “Conditionally Modified” bid
- Bidder may choose to accept, cancel or resubmit bid



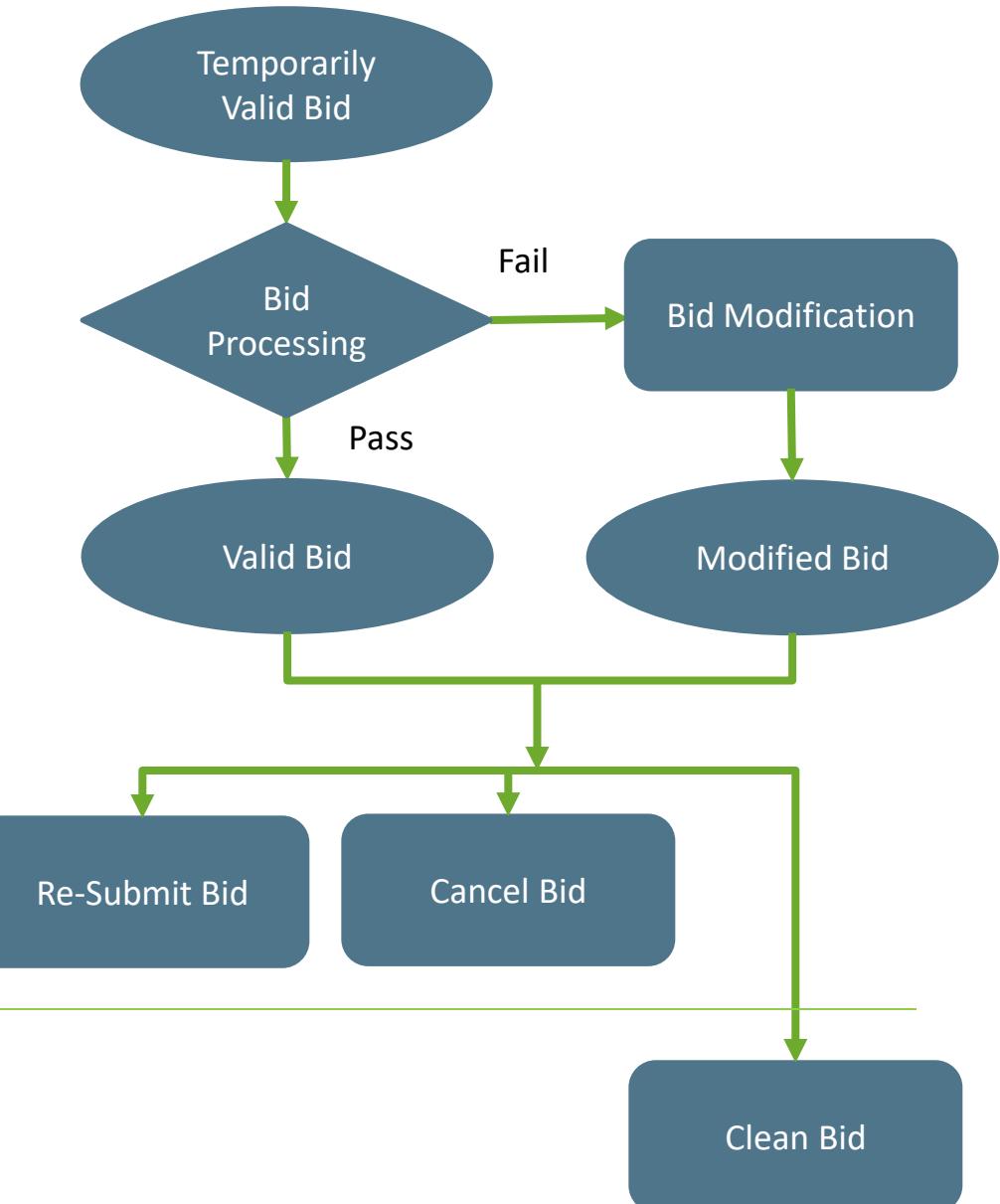
## Process Flows – Bid Validation After Master File Update

- “Conditional” since bid was adjudged valid prior to Master File update
- Must be revalidated
- Produces a “Temporarily Valid” bid



# Process Flows – Day-Ahead Processing After Master File Update

- Starts with a bid that has passed previous validation steps
- Bid may be modified by the system
- Produces a “Valid” or “Modified” bid

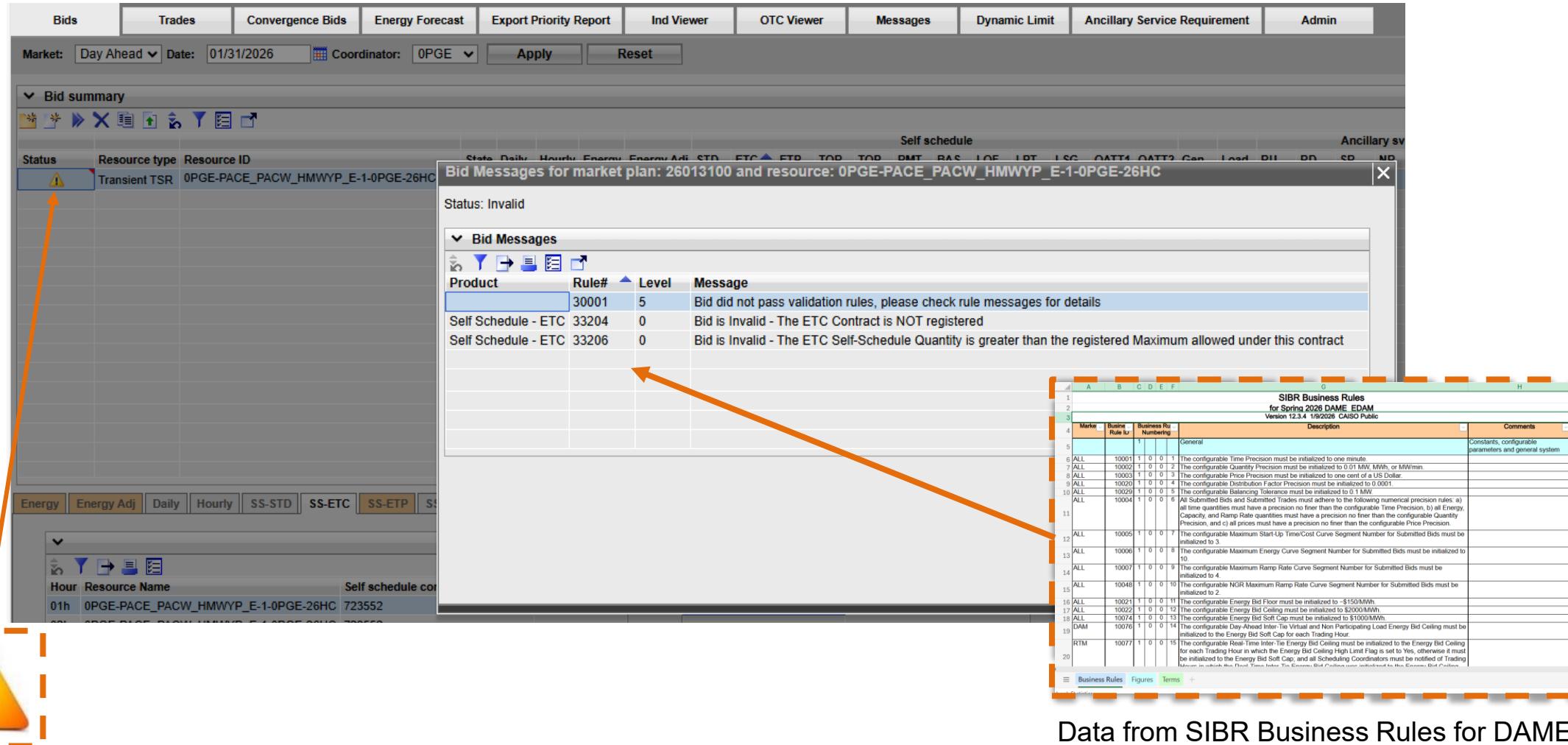


# Status Icons provide a visual indicator of your bid status



Section 2.2.2 of the SIBR User Guide provides more status icons and their definitions

# Clicking on the bid provides the business rules that explain the status



The screenshot shows a software interface for managing energy bids. At the top, there is a navigation bar with tabs: Bids, Trades, Convergence Bids, Energy Forecast, Export Priority Report, Ind Viewer, OTC Viewer, Messages, Dynamic Limit, Ancillary Service Requirement, and Admin. Below the navigation bar, there are dropdown menus for Market (Day Ahead), Date (01/31/2026), Coordinator (OPGE), and buttons for Apply and Reset.

The main area is titled "Bid summary" and contains a table with columns: Status, Resource type, Resource ID, and several tabs for different time periods: State, Daily, Hourly, Energy, Energy Adj, SS-STD, ETC, ETP, TOP, TOP, PMT, PAS, LOE, LPT, LSC, QATT1, QATT2, Gen, Load, PII, PD, SD, ND. The "Status" column for the first row shows a yellow warning icon, with an orange arrow pointing from this icon to a large yellow warning icon in the bottom-left corner of the image.

A modal window titled "Bid Messages for market plan: 26013100 and resource: OPGE-PACE\_PACW\_HMWYP\_E-1-0PGE-26HC" is open. It displays the message "Status: Invalid" and a table titled "Bid Messages" with columns: Product, Rule#, Level, and Message. The table contains three entries:

- Product: 30001, Rule#: 5, Message: Bid did not pass validation rules, please check rule messages for details
- Product: Self Schedule - ETC, Rule#: 33204, Message: Bid is Invalid - The ETC Contract is NOT registered
- Product: Self Schedule - ETC, Rule#: 33206, Message: Bid is Invalid - The ETC Self-Schedule Quantity is greater than the registered Maximum allowed under this contract

Below the modal window, there is a table titled "SIBR Business Rules for Spring 2009 DAME, EDAM Version 12.3.4 1/9/2026 CAISO Public". This table lists various business rules with columns: Rule ID, Rule Number, Description, and Comments. An orange arrow points from the "Message" table in the modal to the "SIBR Business Rules" table.

**SIBR Business Rules for Spring 2009 DAME, EDAM Version 12.3.4 1/9/2026 CAISO Public**

Rule ID	Rule Number	Description	Comments
1	1	General	Constants, configurable parameters and general system
2	1	The configurable Time Precision must be initialized to one minute	
3	1	The configurable Quantity Precision must be initialized to 0.01 MW, MWh, or MW/min.	
4	1	The configurable Price Precision must be initialized to one cent of a US Dollar	
5	1	The configurable Distribution Factor Precision must be initialized to 0.0001	
6	ALL	All Submitted Bids and Submitted Trades must adhere to the following numerical precision rules: a) all time quantities must have a precision no finer than the configurable Time Precision, b) all Energy, Capacity, and Ramp Rate quantities must have a precision no finer than the configurable Quantity Precision, and c) all prices must have a precision no finer than the configurable Price Precision	
7	ALL	All Submitted Bids and Submitted Trades must be initialized to 0	
8	ALL	The configurable Maximum Start-Up Time/Cost Curve Segment Number for Submitted Bids must be initialized to 1	
9	ALL	The configurable Maximum Energy Curve Segment Number for Submitted Bids must be initialized to 10	
10	ALL	The configurable Maximum Ramp Rate Curve Segment Number for Submitted Bids must be initialized to 1	
11	ALL	The configurable Maximum Ramp Rate Curve Segment Number for Submitted Trades must be initialized to 1	
12	ALL	The configurable Maximum Start-Up Time/Cost Curve Segment Number for Submitted Trades must be initialized to 1	
13	ALL	The configurable Maximum Energy Curve Segment Number for Submitted Trades must be initialized to 10	
14	ALL	The configurable Maximum Ramp Rate Curve Segment Number for Submitted Trades must be initialized to 1	
15	ALL	The configurable Maximum NGR Maximum Ramp Rate Curve Segment Number for Submitted Bids must be initialized to 2	
16	ALL	The configurable Energy Bid Floor must be initialized to -\$150/MWh	
17	ALL	The configurable Energy Bid Ceiling must be initialized to \$2000/MWh	
18	ALL	The configurable Energy Bid Soft Cap must be initialized to \$1000/MWh	
19	DAM	The configurable Energy Bid Hard Cap must be initialized to \$1000/MWh	
20	RTM	The configurable Real-Time Inter-Tie Energy Bid Ceiling must be initialized to the Energy Bid Ceiling for each Trading Hour in which the Energy Bid Ceiling High Limit Flag is set to Yes, otherwise it must be initialized to the Energy Bid Soft Cap, and all Scheduling Coordinators must be notified of Trading Hours in which the Real-Time Inter-Tie Energy Bid Ceiling is initialized to the Energy Bid Soft Cap	

**Data from SIBR Business Rules for DAME and EDAM Update v 12.3.4 spreadsheet populates these fields**

# REFERENCES



## These resources provide more information about bidding and validation

Title	Link
Business Practice Manual (BPM) for Market Instruments	<a href="https://bpmcm.caiso.com/Pages/BPMDetails.aspx?BPM=Market%20Instruments">https://bpmcm.caiso.com/Pages/BPMDetails.aspx?BPM=Market%20Instruments</a>
Business Practice Manual (BPM) for Market Operations section 2.5.2 Bids	<a href="https://bpmcm.caiso.com/Pages/BPMDetails.aspx?BPM=Market%20Operations">https://bpmcm.caiso.com/Pages/BPMDetails.aspx?BPM=Market%20Operations</a>
Knowledge Article: Reasons Day-Ahead Market Results May Not Seem Economic	<a href="https://caiso.my.site.com/custsvcomm/s/article/Reasons-Day-Ahead-Market-Results-May-Not-Seem-Economic">https://caiso.my.site.com/custsvcomm/s/article/Reasons-Day-Ahead-Market-Results-May-Not-Seem-Economic</a>
Resource Performance Expectations of Dispatch and Operating Instructions (CBT)	<a href="https://www.caiso.com/content/cbt/resource-performance-expectations-dispatch-operating-instructions/story.html">https://www.caiso.com/content/cbt/resource-performance-expectations-dispatch-operating-instructions/story.html</a>
SIBR Business Rules for Bidding webpage	<a href="https://www.caiso.com/systems-applications/portals-applications/scheduling-infrastructure-business-rules-sibr-bidding">https://www.caiso.com/systems-applications/portals-applications/scheduling-infrastructure-business-rules-sibr-bidding</a>
Tariff: Section 30 – Bid and Self-Schedule Submission for all CAISO Markets	<a href="https://www.caiso.com/legal-regulatory/tariff">https://www.caiso.com/legal-regulatory/tariff</a>

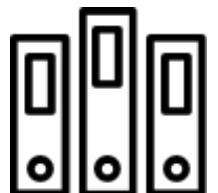


## Reference Material (cont.)

Title	Link
Market Participant Portal	<a href="https://portal.caiso.com/">https://portal.caiso.com/</a>
Developer Portal	<a href="https://developer.caiso.com/">https://developer.caiso.com/</a>
SIBR – Scheduling Coordinator Users Guide for DAME	<a href="https://www.caiso.com/documents/sibr_scuserguide_80.pdf">https://www.caiso.com/documents/sibr_scuserguide_80.pdf</a>
SIBR Business Rules for DAME and EDAM Update v12.3.4	<a href="https://www.caiso.com/documents/sibr-business-rules-for-dame-and-edam-update.xlsx">https://www.caiso.com/documents/sibr-business-rules-for-dame-and-edam-update.xlsx</a>

To find basic training information on bids and base schedules, and gaining access to applications view the following resources:

- Computer-based training courses:
  - [Economic Bids and Self Schedules](#)
  - [EDAM Bidding Basic Concepts](#)
  - [How to Gain Access to the ISO Applications](#)
- Instructor led training presentations and recordings:
  - [EDAM Bidding Intermediate – presentation](#)
  - [EDAM Scheduling Coordinator Training Day 2, September 11th, 2025 – recording](#)



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## Training center

The California ISO is committed to providing our customers with a broad menu of high-quality training courses on the ISO market functionality, as well as individual market applications. These self-paced courses are organized into training topics that are designed to be an industry resource for market participants and the general public to learn about electric grids and markets, and the ISO's role in the electricity system.

### Training topics

Click on a training topic to view the available courses. Our courses are intended for market participants and the general public. Please note, course content is subject to change based on the implementation of new market functionality, rules, or processes.

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05/29/2024 10:00 AM - 11:00 AM

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Congestion revenue rights

Reference

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Presentation - Resource Operations - Readiness Training	Presentation	05/07/2024, 3:37 PM

### Computer-Based Training Courses:

- EDAM Overview Video
- EDAM Processes & Timelines
- EDAM Pricing Model
- EDAM GHG Regulation Obligations
- EDAM Bidding: Basic Concepts
- EDAM Integration with WEIM

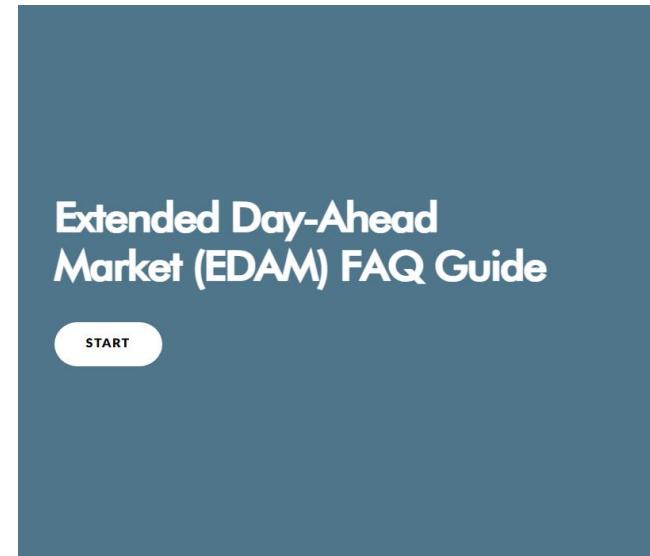
# EDAM Frequently Asked Questions Guide

The [EDAM FAQ Guide](#) is a web-based resource designed to address general EDAM-related “how-to” questions.

Guide will continue to be updated based on Q&A from CIDI inquiries, training, etc.

You can find this guide along with other helpful training resources on:

- [ISO Training Center](#)
- [EDAM Stakeholder page](#)
- [WEM Webpage](#)
- [WEIM Portal](#) (certificate required)
- [CIDI Knowledge Article](#)



Questions about where to find the guide? Email: [CustomerReadiness@caiso.com](mailto:CustomerReadiness@caiso.com)

# Early drafts of the EDAM BPM documents and Business Requirement Specifications (BRS) with detailed changes are now available on the Release Planning page.



## Business Practice Manual for Extended Day-Ahead Market

Version 1

Revision Date: October 30, 2025 date version is posted to the Library

Note – this document is a working draft and remains under internal review by the CAISO and subject to revision.

Extended day-ahead market (EDAM) header

### Attachment A - CISO BAA Supplement to the EDAM Business Practice Manual

#### Reference Section 33 and Section 27.14 of the ISO Tariff.

Consistent with Section 27 of the ISO Tariff, the ISO Balancing Authority Area ("CISO BAA") will participate as a balancing authority in the EDAM Area. The implementation details specific to the CISO BAA's participation in EDAM are set forth below. These CISO BAA-specific elements include how to set the EDAM net export transfer constraint and options for curing CISO BAA EDAM advisory RSE shortfalls.

#### A. Establishing the EDAM Net Export Transfer Constraint for the CISO BAA

##### Reference ISO Tariff, Section 27.14.3

As provided in section 33.31.3 of the ISO Tariff and section 3.1.6 of the Business Practice Manual for the Extended Day-Ahead Market, each Balancing Authority Area in the EDAM Area, including the CISO BAA, may configure the constraints to establish the Balancing Authority Area's hourly limit on the amount of Net Export Transfer exports. The CISO may enable the configurable EDAM net export transfer constraint as set forth below, utilizing the confidence factor provided in the ISO Tariff Section 4.3.2.

For the CISO BAA, it will always elect to enable the EDAM net export transfer constraint by using a configurable confidence factor and additional reliability margin, configured on a hour, or tariff, in this Business Practice Manual. The CISO BAA will use a structure where each hour will be classified as "stressed" or "non-stressed," and the configurable parameters established accordingly. This will result in a variable approach where the constraint will always be enabled and the confidence factor and additional reliability margin vary across a 24-hour twenty-four hour period.

**CONFIDENCE FACTOR:** the CISO BAA will select a 0% confidence factor during all stressed and non-stressed hours.

**ADDITIONAL RELIABILITY MARGIN:** the CISO BAA will tune the additional reliability margin based on a determination of stressed and non-stressed hours.

For all stressed hours, the CISO BAA will utilize hourly default values calculated by taking, at a minimum, the max of (1) replacement reserves based on forecasted most severe single contingency and (2) protection for a non-credible contingency (e.g., extreme weather, fires, gas operational flow order).

For all non-stressed hours, the CISO BAA will utilize hourly values established through operator experience based on system conditions.

EDAM ISO balancing authority area participation rules track a header

#### Day-ahead market enhancements (DAME)

- [Business Requirements Specification v1.6 Redline - Day-Ahead Market Enhancements](#) 09/04/2025, 9:59 AM
- [Business Requirements Specification v1.6 - Day-Ahead Market Enhancements](#) 09/04/2025, 9:59 AM
- [Business Practice Summary v1.1 - Day-Ahead Market Enhancements](#) 04/16/2025, 10:21 AM
- [Market Simulation Structured Scenarios - Day-Ahead Market Enhancements v1.3](#) 08/22/2025, 8:28 AM
- [Submit Business Requirements Specification v1.5 - Day-Ahead Market Enhancements](#) 09/18/2025, 11:23 AM

Due: Oct 06, 05:00 pm

#### DAME Business practice manuals (BPMs)

- [Business Practice Manual Market Instruments v91.2 DAME](#) 10/23/2025, 12:06 PM
- [Business Practice Manual for Reliability Requirements Version 78.1 -DAME](#) 07/02/2025, 4:53 PM
- [Appendices Market Operations v62.1 DAME](#) 07/02/2025, 4:32 PM
- [Business Practice Manual Market Operations v101.1 DAME](#) 07/02/2025, 4:32 PM

#### Extended day-ahead market (EDAM)

- [Extended Day-Ahead Market Business Practice Manual Draft](#) 10/31/2025, 10:34 AM
- Extended Day-Ahead Market Business Practice Manual Draft posted for initial review.
- [Business Requirements Specification v1.6 Redline - Extended Day-Ahead Market](#) 01/28/2026, 4:07 PM
- [Business Requirements Specification v1.6 - Extended Day-Ahead Market](#) 01/28/2026, 4:07 PM
- [Business Practice Summary - Extended Day-Ahead Market](#) 07/10/2024, 9:10 AM
- [Market Simulation Structured Scenarios v1.6 Redline - Extended Day-Ahead Market](#) 09/30/2025, 11:41 AM
- [Market Simulation Structured Scenarios v1.6 - Extended Day-Ahead Market](#) 09/30/2025, 11:52 AM
- [Submit Business Requirements Specification Comments - Extended Day-Ahead Market Business Requirements Specification v 1.6](#) 01/29/2026, 1:08 PM
- Comments due 2/26/25 at 5 pm
- [Presentation - Settlements Business Practice Manual Walkthrough EDAM Access Charge](#) 08/19/2025, 12:59 PM

# ENVIRONMENTS & SUPPORT



# Environments

CAISO uses multiple application environments so teams can develop, test, and validate changes without disrupting real-time grid operations.

Color coded bands at the top of ISO UIs let you know the which environment you are working in:



# Each environment has a distinct purpose

## PROD

- Live environment running the actual CAISO grid and markets
- Handles all real submissions, settlements, and telemetry
- Updated only after thorough testing to protect reliability

## STAGE

- Full-scale test environment mirroring Production
- Used to validate releases, rule changes, and integrations
- Ensures participant systems work with upcoming updates

## MAPSTAGE

- Environment dedicated to Market Participant testing
- Supports connectivity checks and early API/interface validation
- Less strict than Stage but designed to catch issues early

# Submitting Questions in Customer Inquiry, Dispute and Information (CIDI) system

CONTACT CUSTOMER SUPPORT  
TELL US HOW WE CAN HELP

\* SCID  \* Functional Environment

Review for Price Correction  
 Manual Reference Level Change Request  
 Subject

Metering Inquiry  
 Assistance Energy Designation Request

\* Description

Trade Date  Trade Hours   
 01  
 02  
 03  
 04  
 05  
 06

Resource ID  Market

Email Recipients - Add up to 5 comma-separated addresses

- CIDI is the ISO's central platform for submitting questions, issues, and requests.
- Ticket submissions should clearly state the environment (e.g., Prod, Market Simulation).
- Include screenshots, timestamps, and steps taken.
- You must be a Scheduling Coordinator to enter information into CIDI
  - If you are not the SC contact your SC to request to submit on your behalf

# WHAT'S NEXT?



This is step 1 in a 3-part SIBR training series

1

Introduction to SIBR –  
Basic Concepts

Part 1 

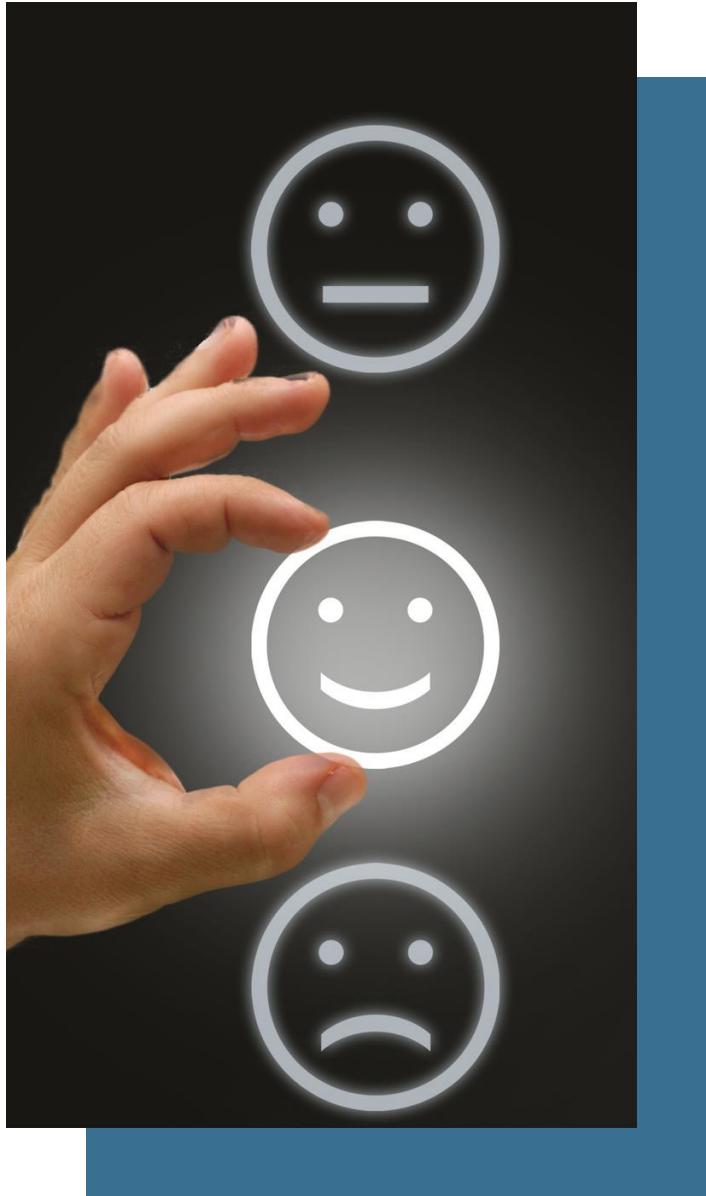
Part 2

2

SIBR Fundamentals –  
General Bidding

3

Advance SIBR Bidding  
Concepts for EDAM –  
Transfer System  
Resources



## Tell us how we're doing

Takes 3-5 minutes to complete

Helps us improve future training

Link: <https://www.surveymonkey.com/r/caisocoursesurvey>

# Thank you for your participation!



For clarification on anything presented in this training, send an email to: [CustomerReadiness@caiso.com](mailto:CustomerReadiness@caiso.com)

For other questions or stakeholder specific questions or concerns use one of these methods:

- Submit a [CIDI ticket](#)
- Contact your Scheduling Coordinator
- Use the “[Contact us](#)” page on caiso.com to submit questions