Pre Market-Simulation Training: Inter-SC Trades (EDAM Enhancements 2026)

July 7, 2026

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Housekeeping

REMAIN MUTED

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ASKING QUESTIONS

Unmute to ask verbal questions or write in the chat pod

RAISING HAND

Raise your hand using WebEx interactivity tools

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TRAINING MATERIALS

This presentation and recording will be posted on the ISO website in the Training Center. The recording is for informational and convenience purposes only. Any related transcriptions should not be reprinted without the ISO’s permission.

Defining roles & responsibilities

Role	Definition
WEIM/EDAM Entity	A Balancing Authority (BA) that participates in the WEIM/EDAM markets (this includes the CAISO BA). WEIM/EDAM entities provide inputs such as market limits, outages and transmission constraints specifically for their Balancing Authority Area (BAA). WEIM/EDAM entities can also be an SC representing loads and resources within their BA should they hold such responsibilities.
Market Operator/ Real Time Market Operator	The Market Operator is a separate role within the CAISO that is staffed by personnel dedicated to the equal and independent operation of both regional markets – WEIM and EDAM.
Scheduling Coordinator (SC)	The SC is a certified entity that participates in the market by submitting bids and outages and managing the coordinated operations of its facilities.

The output from the day-ahead timeframe (EDAM) is reviewed and implemented in real-time (WEIM) with any necessary real time adjustments

Who is the primary audience for this training session?

- Western Energy Imbalance Market (WEIM) Entity/BAA
- WEIM Scheduling Coordinators
- Extended Day-Ahead Market (EDAM) Entity/BAA
- EDAM Scheduling Coordinators
- SCs within the California ISO BAA are also welcome to attend

Inter-SC Trade Enhancements for WEIM and EDAM

1

Inter-SC trade functionality exists today in the California ISO BAA.

2

This training covers enhancements that extend this capability to WEIM and EDAM participants.

3

The session prepares SCs for the Inter-SC trades market simulation activity scheduled to occur in July 2026.

[EDAM Enhancements 2026]

These are the primary software applications that will be discussed throughout the session.

SCHEDULING INFRASTRUCTURE & BUSINESS RULES (SIBR)

CUSTOMER MARKET RESULTS INTERFACE (CMRI)

MARKET RESULTS INTERFACE – SETTLEMENTS (MRI-S)

Our Meeting Agenda

Today we will cover...

- Overview of inter-SC trade functionality
- How to submit inter-SC trades
- Settlement of inter-SC trades

Inter-SC Trades

Section Focus

- Define inter-SC trades
- Describe how inter-SC trades work

What are inter-SC trades?

An optional settlement service provided to facilitate trades of bilaterally procured energy between SCs.

Note: No impact on scheduling or dispatch of resources.

Both supply and demand schedule or bid their energy in the Day-Ahead and Real-Time Markets.

Allows participants to “flip the money” and potentially reverse the “double settlement” from the market.

Types of inter-SC trades

Focus of
today's session

ENERGY
DAY-AHEAD & REAL-TIME MARKETS
(WEIM, EDAM, AND CAISO BAA)

ANCILLARY SERVICE CAPACITY
REAL-TIME MARKET
(CAISO BAA ONLY)

IFM LOAD UPLIFT OBLIGATION
REAL-TIME MARKET
(CAISO BAA ONLY)

WEIM and EDAM participants can submit inter-SC trades for **energy**

Types

PHY
physical resource

Backed by a physical resource

APN
trading hub or default LAP

Not backed by physical resource

CPT
PHY not supported by energy schedule

Converted physical trade

Market Timing

Day-Ahead: Submit beginning seven days prior to trade date and up to 11:00 hours the day before trade date

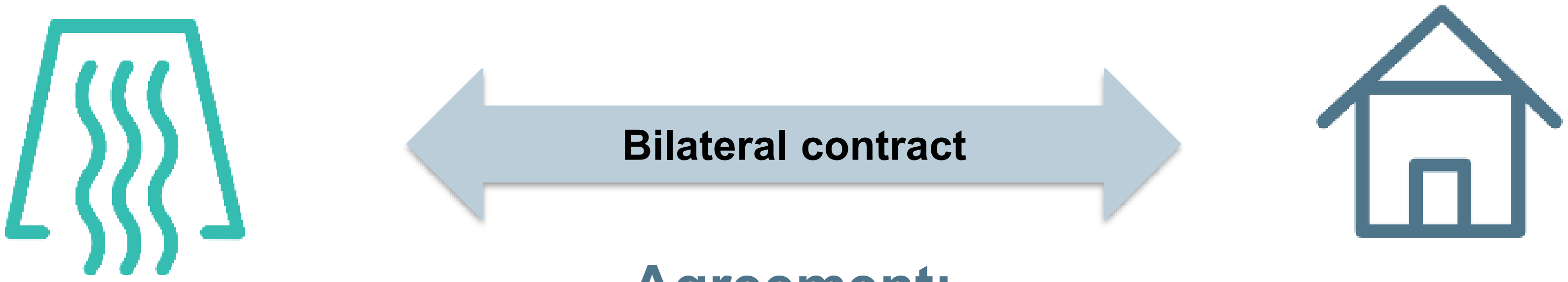
Real-Time: Submit beginning at midnight the day prior to the trade hour up to 45 minutes prior to the trade hour (T-45)

How does a converted physical trade (CPT) work?

- When the Day-Ahead Market clears, CAISO conducts a post-market validation on Day-Ahead physical trades (PHYs), based on the final Day-Ahead Market results from the Integrated Forward Market run.
- Any portion of a PHY, where the dependent generating unit's final Day-Ahead schedule is less than the PHY trade amount becomes a converted physical trade (CPT).
- CAISO informs the SC of the amount of the CPT.
  - This will show on the SIBR UI, or retrieved through the API
- (See Business Practice Manual (BPM) for Market Instruments, section 10)

BPM for Market Instruments

Example: Day-ahead inter-SC trade (IST) for energy



Generator A

Load B

Agreement:

Quantity: 20.60 MW per hour

Price: $40 per MW

Contract payment:

For one trade date, Load B pays Generator A **$19,776** for the energy supplied

Show your work:
(20.60 * 24) * 40

After both parties submit their schedules, they use an IST to transfer funds and reconcile the “double settlement”.
Let’s look at the results!

Example: Day-ahead market results: Without and with an inter-SC trade

Demand settles at the Load Aggregation Point, while Supply settles at the resource location, which is why the values differ.

Scenario 1	Load B	Gen A
Bi-lateral contract	($19,776)	$19,776
CAISO Market	($20,305)	$20,750
Net amount	**($40,081)**	**$40,526**

Money exchanged outside of the market

Market settlements

Net amount without inter-SC trade

An IST is scheduled at a mutually selected location. Here, the resource location was chosen, which is why the dollar amount matches Gen A from Scenario 1.

Scenario 2	Load B	Gen A
Bi-lateral contract	($19,776)	$19,776
CAISO Market	($20,305)	$20,750
IST	$20,750	($20,750)
Net amount	**($19,331)**	**$19,776**

Gen A and Load B submit matching inter-SC trades in SIBR

Net amount settled through the inter-SC trade process

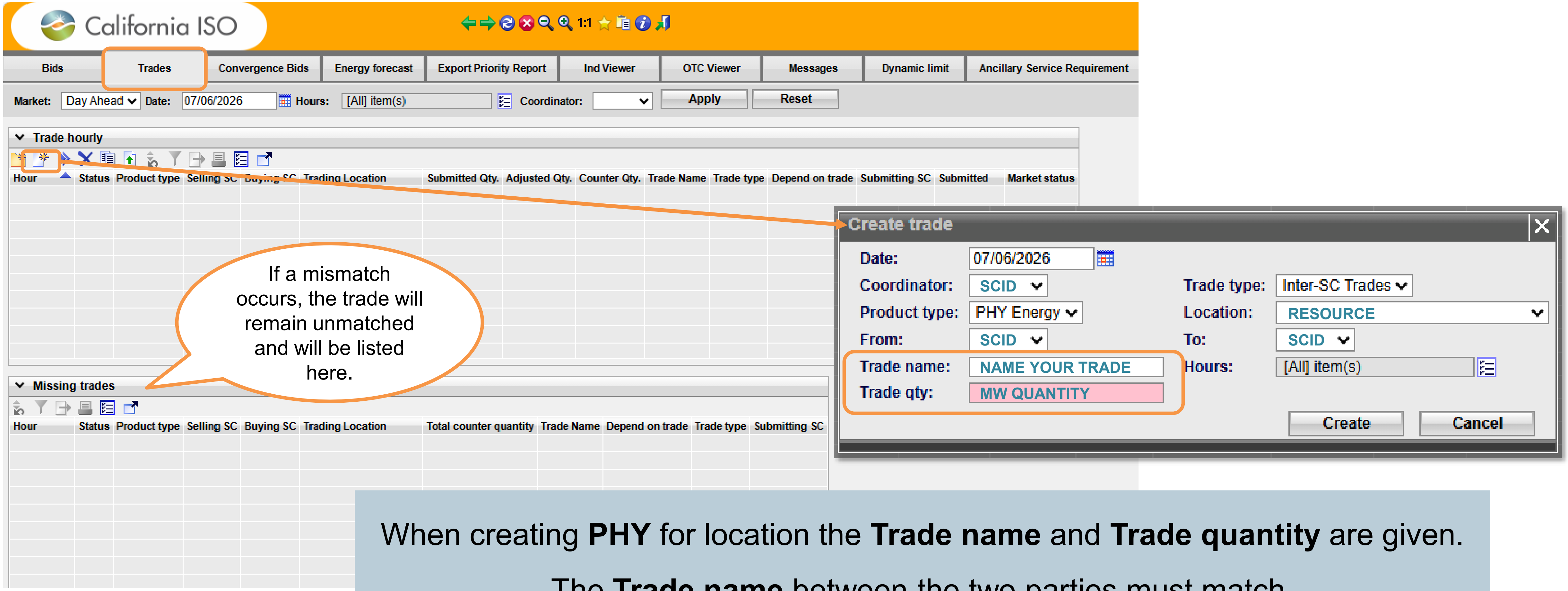
Market Applications

Section Focus

- Scheduling Infrastructure & Business Rules (SIBR)
- Customer Market Results Interface (CMRI)
- Market Results Interface – Settlements (MRI-S)

Scheduling Infrastructure & Business Rules (SIBR)

SIBR: Submitting an inter-SC trade for physical energy (PHY)



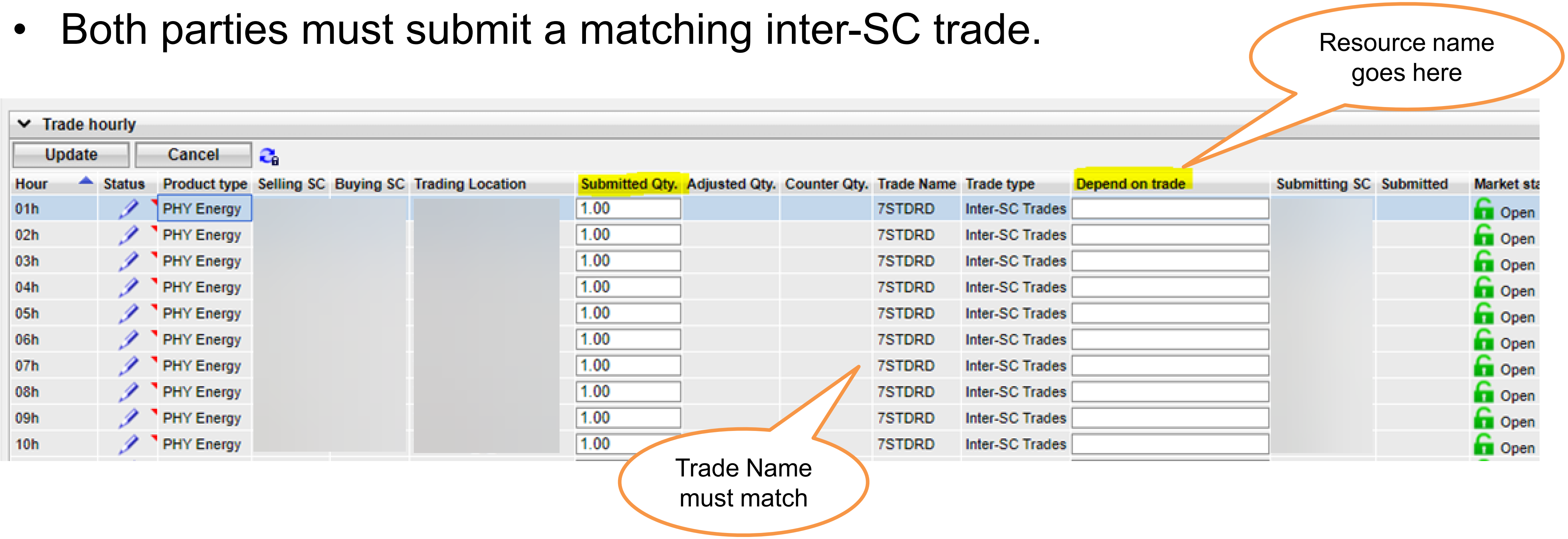
When creating **PHY** for location the **Trade name** and **Trade quantity** are given.

The **Trade name** between the two parties must match.

Quantity applies for all 24 hours on **create**, change is made on **edit**.

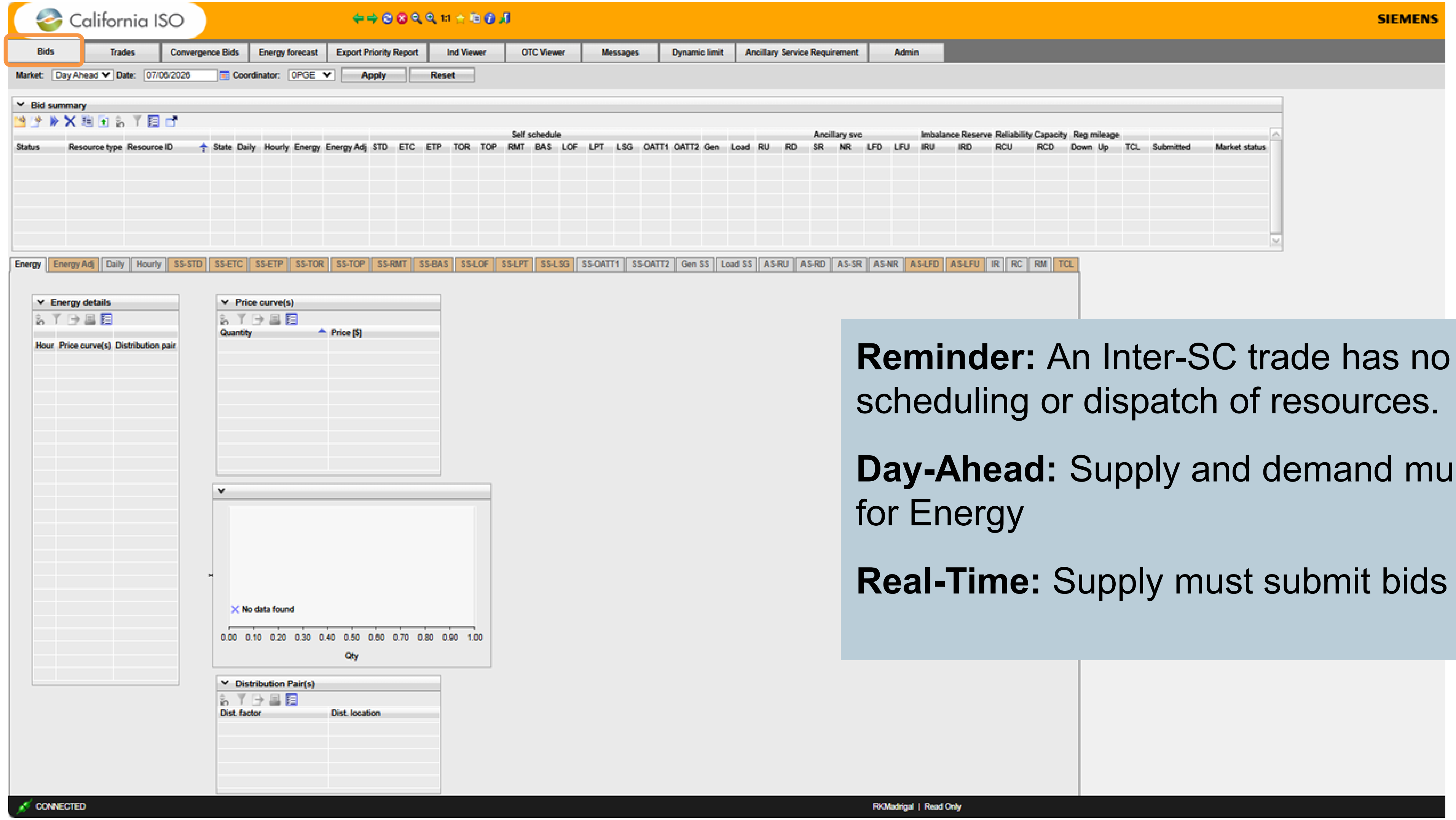
SIBR: Submitting an inter-SC trade for physical energy (PHY)

- For physical trades, the resource name goes in the **Depend on trade** field.
- The submitted quantity can be adjusted for each hour.
- Both parties must submit a matching inter-SC trade.



Hour	Status	Product type	Selling SC	Buying SC	Trading Location	Submitted Qty.	Adjusted Qty.	Counter Qty.	Trade Name	Trade type	Depend on trade	Submitting SC	Submitted	Market sta
01h		PHY Energy				1.00			7STDRD	Inter-SC Trades				Open
02h		PHY Energy				1.00			7STDRD	Inter-SC Trades				Open
03h		PHY Energy				1.00			7STDRD	Inter-SC Trades				Open
04h		PHY Energy				1.00			7STDRD	Inter-SC Trades				Open
05h		PHY Energy				1.00			7STDRD	Inter-SC Trades				Open
06h		PHY Energy				1.00			7STDRD	Inter-SC Trades				Open
07h		PHY Energy				1.00			7STDRD	Inter-SC Trades				Open
08h		PHY Energy				1.00			7STDRD	Inter-SC Trades				Open
09h		PHY Energy				1.00			7STDRD	Inter-SC Trades				Open
10h		PHY Energy				1.00			7STDRD	Inter-SC Trades				Open

Supply and demand must also submit bids according to market rules

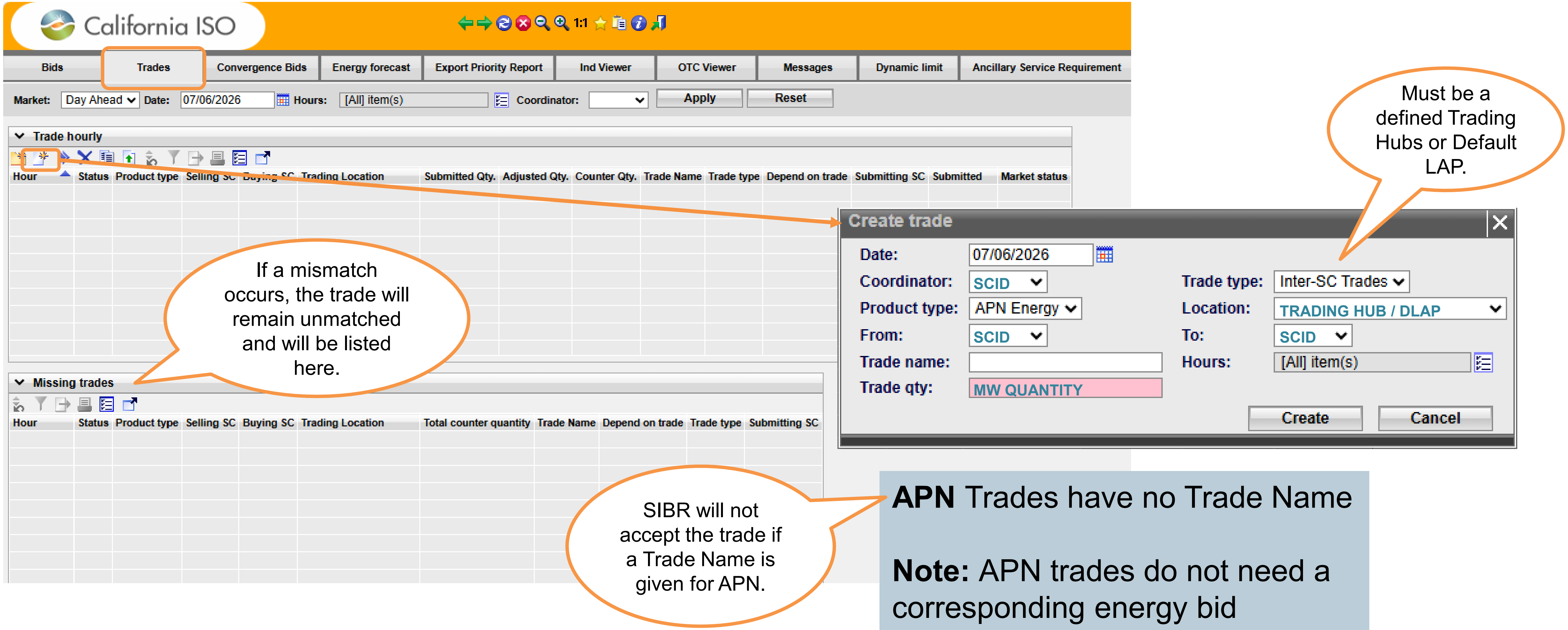


Reminder: An Inter-SC trade has no impact on the scheduling or dispatch of resources.

Day-Ahead: Supply and demand must submit bids for Energy

Real-Time: Supply must submit bids for Energy

SIBR: Submitting an inter-SC trade at aggregated pricing nodes that are also defined trading hubs or load aggregation points (LAPs)

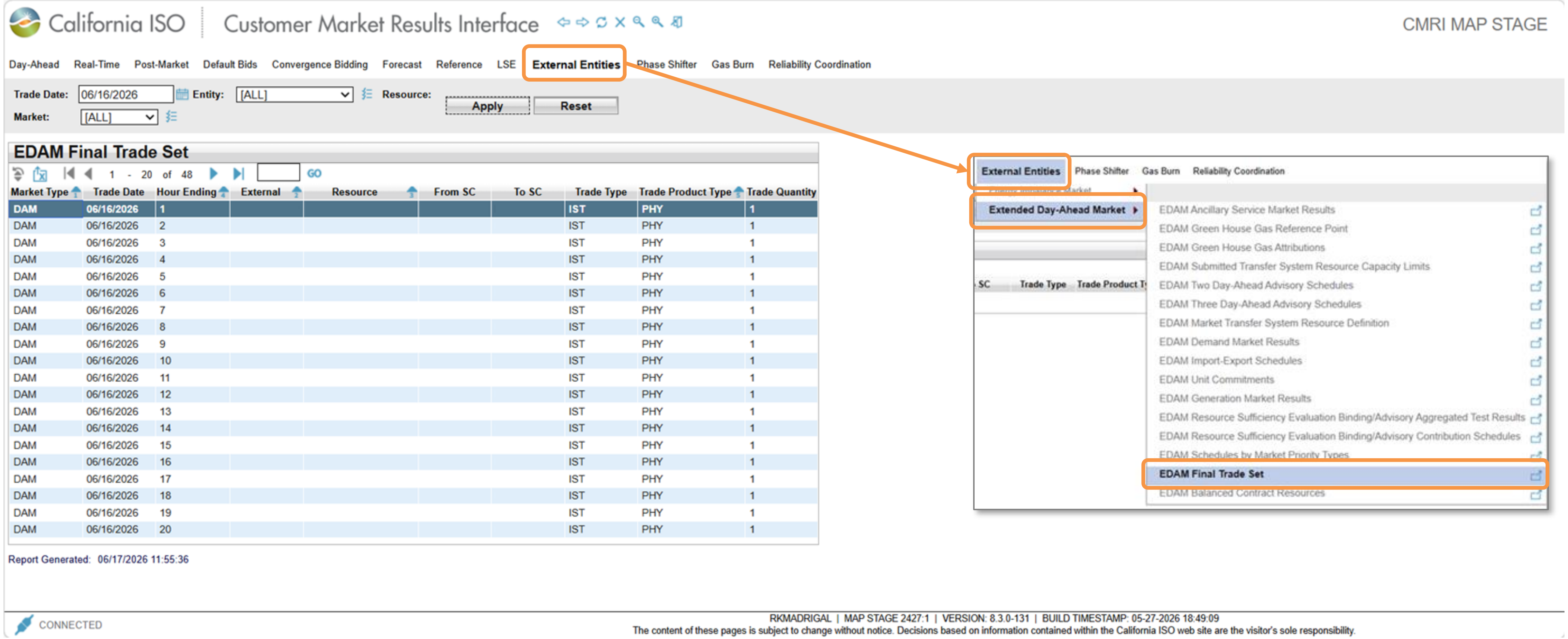


APN Trades have no Trade Name

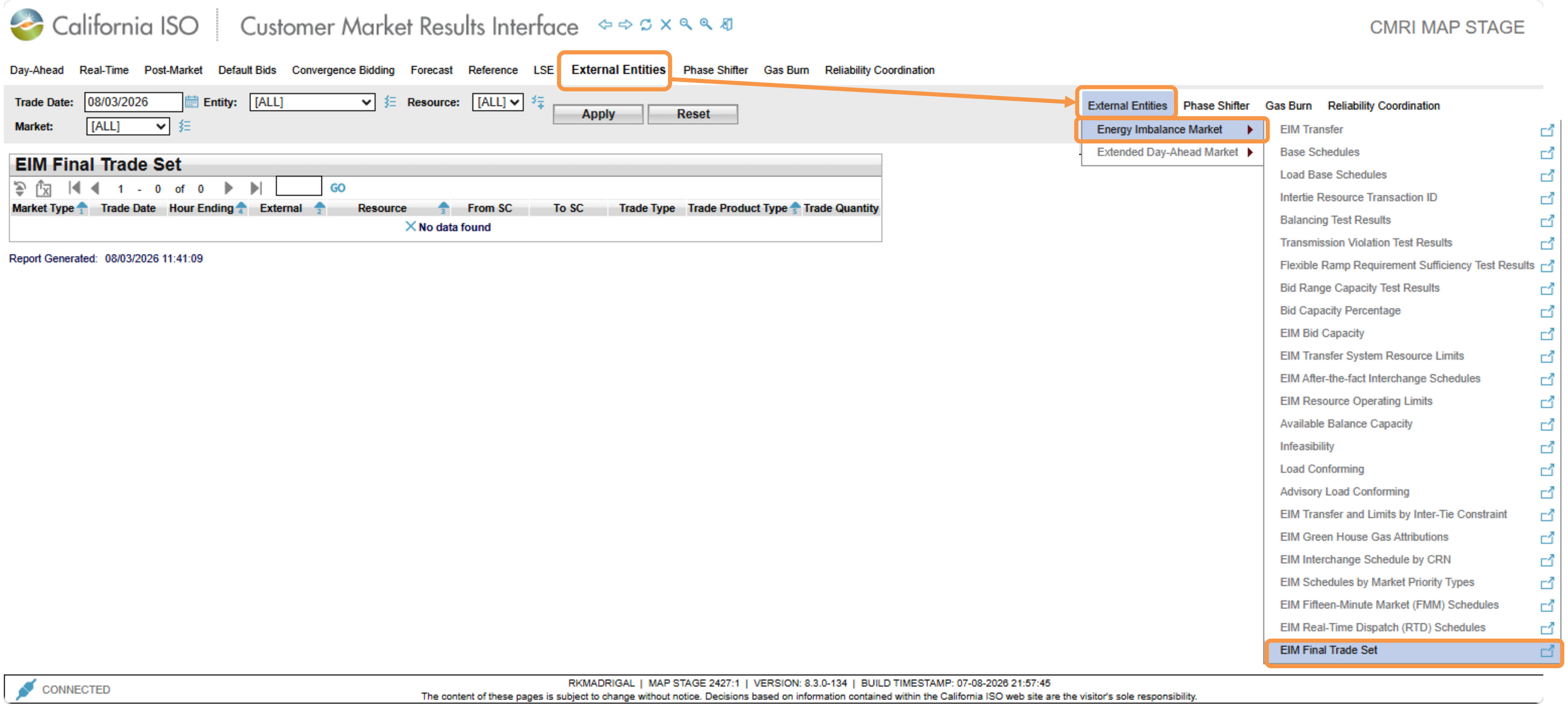
Note: APN trades do not need a corresponding energy bid

Customer Market Results Interface (CMRI)

EDAM Final Trade Set report available for EDAM Entity/BAA review



EIM Final Trade Set report available for WEIM Entity/BAA review



Report Details: Final Trade Sets

- Final Trade set reports are posted along with the publishing of market results and are available to the respective Entity/BAA only
  - **EDAM Final Trade Set** for EDAM Entities/BAA
  - **EIM Final Trade Set** for WEIM Entities/BAA
- Note: EDAM and WEIM SCs can view their completed trades in the SIBR application

Market Results Interface – Settlements (MRI-S)

Settlement of Inter-SC trades for **Energy**

Types

PHY
physical resource

Backed by a physical resource

APN
trading hub or default LAP

Not backed by physical resource

CPT
PHY not supported by energy schedule

Converted physical trade

Settlement

Day-Ahead: Settled hourly based on corresponding pnode/apnode DA LMPs

(CC 6301)

Real-Time: Settled hourly based on the average of 4 FMM intervals on corresponding pnode/apnode LMPs

(CC 6371)

Excerpts from Charge Codes (for your reference)

6301 Day Ahead Inter-SC Trade Settlement

Inter-SC Trades of Energy submitted in the Day Ahead Market are settled hourly based on the hourly LMPs at the applicable PNode, EZ Generation Hub, or Default LAP in those hours.

An Inter-SC Trade (IST) involves two SCs: the “From” SC and the “To” SC. The “From” SC is charged the same amount that the “To” SC is paid. Specifically, the “From” SC is charged the product of the valid quantity of the “From” Inter-SC Trade and the LMP at the appropriate PNode, EZ Generation Hub, or Default LAP. The “To” SC is paid the product of the valid quantity of the “To” Inter-SC Trade and the LMP at the appropriate PNode, EZ Generation Hub, or Default LAP. Inter-SC trades of Energy are settled on an hourly basis and the respective Settlements account is net to zero.

(Note: No predecessor or successor charge codes)

6371 FMM Inter SC Trades Settlement

Inter-SC Trades of Energy submitted in the Fifteen Minute Market (FMM) are settled hourly based on the simple average of the four FMM Interval LMPs at the applicable PNode, EZ Generation Hub, or Default LAP in those hours.

An Inter-SC Trade (IST) involves two SCs: the “From” SC and the “To” SC. The “From” SC is charged the same amount that the “To” SC is paid. Specifically, the “From” SC is charged the product of the valid quantity of the “From” Inter-SC Trade and the simple average of the four FMM Interval LMPs at the appropriate PNode, EZ Generation Hub, or Default LAP. The “To” SC is paid the product of the valid quantity of the “To” Inter-SC Trade and the simple average of the four FMM Interval LMPs at the appropriate PNode, EZ Generation Hub, or Default LAP. Inter-SC trades of Energy are settled on an hourly basis and the respective Settlements account shall net to zero.

(Note: No predecessor or successor charge codes)

Sample settlement statement that shows inter-SC trade charge group

Statement Validation Notes

- These charge codes are settled at the **SCID** level.
- Use the **CAISO Bill Determinants** file in MRI-S to validate the charges shown on your settlement statement.
- The resource listed in the **Depend on Trade** field in SIBR is identified by the **DEPEND_ON_NAME** attribute.
- The **Trade Name** is identified by the **IST_ID** attribute.
- Third-party settlement systems may transform, aggregate, or rename data from the CAISO Bill Determinants file. Refer to your vendor documentation to understand how CAISO attributes are mapped and displayed in your application.

California ISO
Shaping a Renewed Future

Daily Initial Market Statement
for May 01, 2026

Date: 13-May-26
Page: 5 of 6

Statement #:
Version:
BAID:

Comments:

Charge for Settlement 01-MAY-2026

Charge Code	Description	Current	Previous	Net
CC6301	Day Ahead Inter-SC Trades Settlement	(74,862.03015)	0.00000	(74,862.03015)
CC6371	FMM Inter-SC Trades Settlement	240.59700	0.00000	240.59700
	Inter-SC Trades Settlement Charge Group Total	**($74,621.43315)**	**$0.00000**	**($74,621.43315)**
	Inter-SC Trades Parent Group Total	**($74,621.43315)**	**$0.00000**	**($74,621.43315)**
	Statement TOTAL		**$0.00000**	

Wrap Up

Summary, Q&A

- What’s happening next.

Participate in market simulation

Get hands-on experience with new functionality before it is deployed to production.

Test business scenarios, validate processes, and build readiness for upcoming changes.

To participate, ensure you are provisioned for the required applications in the STAGE environment.

Attend Market Simulation calls to stay informed and engage with the project team.

Ready to participate? Submit a CIDI ticket or email MarketSim@caiso.com.

Market simulation timeline

Connectivity Testing
(7/6/26 – 7/19/26)

Market Sim Structured Scenarios
(7/20/26 – 8/1/26)

Activation Date
(TBD)

Market Simulation: Structured Scenario

Scenario Number	Scenario	
MSS-001	Description	**Inter-SC trade for EDAM/WEIM BAA**
	WEIM/EDAM Market Participant Actions	• Two registered Scheduling Coordinators (a selling SC and a buying SC) submit matching inter-SC trades for energy in a non-CISO BAA. Note: EDAM and/or WEIM BAA SCs can participate in this scenario.

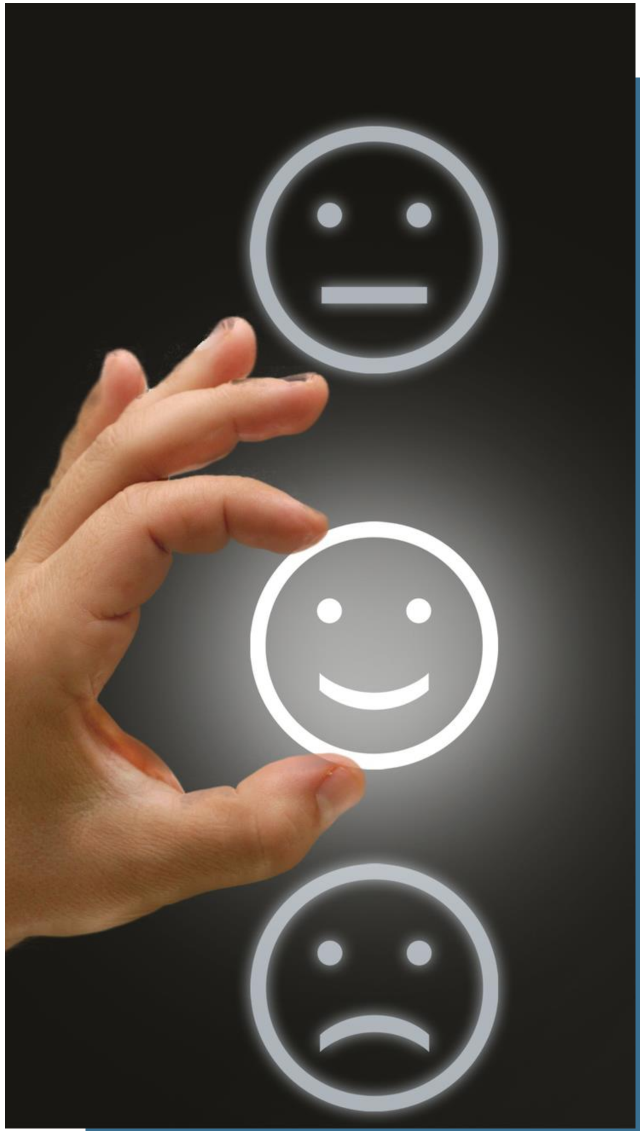
	ISO Actions	• CAISO systems to allow registered SCs to submit the inter-SC trade, and allow inter-SC trading for Energy (IST) for the EDAM and WEIM BAA outside of CISO
		    ○ Existing: SIBR validates matching inter-SC trade submissions from both SCs and confirms both legs reference the same non-CISO EDAM/WEIM BAA.
		    ○ Existing: Day-ahead market process runs; SIBR processes and awards day-ahead inter-SC trades for the EDAM entity.
		    ○ Existing: Real-time / FMM market process runs; SIBR processes and awards FMM inter-SC trades for the EDAM entity.
		Note: unmatched or mismatched inter-SC trades are invalidated per existing business rules

	Expected Outcome (SIBR, CMRI)	**SIBR**
		• EDAM and WEIM SCs can submit and retrieve in SIBR UI and webservice API, validate the following for DAM and FMM (RTM):
		    ○ IST Physical Energy
		    ○ IST Aggregate Pricing Node (APN)
		    ○ IST Converted Physical Trade (CPT)
		
		CMRI
		• Trades are processed in the Day-Ahead Market, and the hourly RTM (FMM), settled, and reflected in the new CMRI IST report for the EDAM entity SCs only, accessible via UI and B2B API.
		    ○ CMRI Report: CMRI UI > External DAM > EDAM Final Trade Set Report: New CMRI Report IST trades by BAA, with access available via UI and B2B API
		    ○ Validate all three energy types for DAM and FMM (RTM)

	Anticipated Settlement Outcome	• Settlement calculation and posting:
		    ○ Existing: Settlement calculates day-ahead inter-SC trade settlement (charge/payment determinants) for the BAA.
		    ○ Existing: Settlement calculates FMM inter-SC trade settlement determinants for the BAA.
		    ○ Existing process: MRI-S publishes inter-SC trade settlement determinants to both SCs.
		• Inter-SC trade settlement
		    ○ Settle Inter-SC trade
		    ○ Day-ahead Inter-SC Trade Settlement
		    ○ FMM Inter-SC Trade Settlement

	Expected Settlement Outcome	CC 6301 (DAM), 6371 (FMM)

[Market Sim Structured Scenarios]



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2026 STAKEHOLDER SYMPOSIUM

Welcome reception - Oct. 5
at Kimpton Sawyer Hotel, Sacramento, CA

Symposium program - Oct. 6
SAFE Credit Union Convention Center
Sacramento, CA

Visit: https://www.caiso.com/meetings-events/events/stakeholder-symposium

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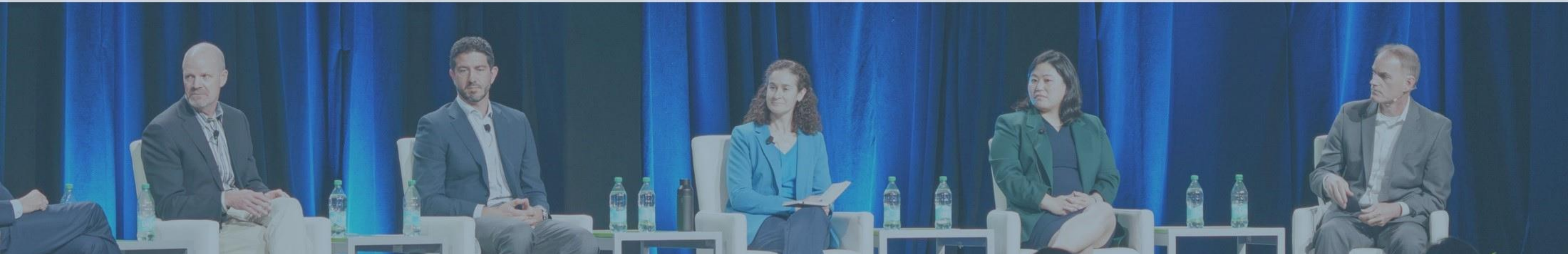

Thank you for your participation!

For clarification on anything presented in this training, send an email to:
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

REFERENCE MATERIAL

Reference Links

Tariff, BPM, and Project Documentation

- Tariff Section 28: Inter-Scheduling Coordinator Trades
- BPM for Market Instruments: Section 10: Inter-SC Trades (begins on p. 132)
- BPM for Settlements and Billing: Charge Codes 6301 & 6371
- Business Requirements Specification: EDAM Enhancements 2026
- Market Simulation Scenarios

Application Documentation

- SIBR User Guide
- Inter-SC Trades Tutorial
  (needs to be updated to include WEIM/EDAM)
- Knowledge Article on Inter-SC Trades
  (needs to be updated to include WEIM/EDAM)