



California ISO

# Settlement User Group

April 12, 2023

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

Web Conference Information	Conference Call Information
<p>Web Address: <a href="https://caiso.webex.com/meet/settlementuser">https://caiso.webex.com/meet/settlementuser</a></p> <p>Meeting Number: 961 854 046</p> <p>Audio connection instructions will be available after connecting to the web conference. When prompted, select "Call me" and enter your phone number you will use during the call.</p>	<p>US Toll Free: 1-844-621-3956</p> <p>US Toll : 1- 650-479-3208</p> <p>Access Code: 961 854 046</p>
<p>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 publically available on the ISO web page for a limited time following the meeting. The recording, and any related transcriptions, should not be reprinted without the ISO's permission. Hyperlinks in blue in PDF version.</p> <p>The recording will be posted on our website and be available for a short period of time until April 26<sup>th</sup> , 2023. Please mute your phone while the discussion is going on in order to eliminate background noise, to unmute press and hold the spacebar to temporarily unmute, double mute. Calls are structured to stimulate an honest dialogue and engage different perspectives.</p> <p>To ask a question after each topic, unmute yourself before asking your question, or enter question on the chat</p> <p style="text-align: center;">please state your name and affiliation. Thank you.</p>	



[mute](#)

# Settlement User Group Agenda

Wednesday, April 12, 2022

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

Time	Topic	Presenter
▪ 10:00 – 10:02	▪ Welcome and Introduction	▪ Massih Ahmadi
▪ 10:02 – 11:00	▪ Settlements <ul style="list-style-type: none"><li>▪ Summer Settlements Release 2023</li><li>▪ Market Simulation Calendar</li><li>▪ Dispute Topics</li><li>▪ Training Update</li><li>▪ Proposed Revision Requests Update</li></ul>	<ul style="list-style-type: none"><li>▪ Elizabeth Caldwell</li><li>▪ Assad Al-Baijat</li><li>▪ Uma Ramanathan</li><li>▪ Cynthia Hinman</li><li>▪ Massih Ahmadi</li></ul>

# 2023 Summer Settlements Release

- Project scope with direct settlement impact, **updated**
  - Ancillary Service State of Charge Constraint – *retro activation (9/20/22)*
  - ~~Energy Storage Enhancements Phase 1 Track 1 – Ancillary Services & Exceptional Dispatch~~ *settlement scope moved to Track 2 targeting fall 2023*
  - WEIM Resource Sufficiency Evaluation Enhancements Phase 2 Track 1
  - Hybrid Resources Phase 2C
- Non-project scope: *see release component summary email*
- Key Deliveries
  - Tech docs:
    - A/S SOC & Hybrid Phase 2C: **posted 2/13**
    - Energy Storage & WEIM: **posted 2/21**
    - 1<sup>st</sup> draft config file + release component summary: **posted 3/15**
    - 2<sup>nd</sup> draft config file + release component summary: **posted 4/5**
    - 3<sup>rd</sup> draft config file: **targeting 4/26**
  - Prod deployment: **5/31**
  - Prospective activation: **6/1**
- **RUG next Tuesday = 4/18**

# Parallel Operation 2023 Calendar (STAGE)



## Parallel Operation 2023 Calendar (STAGE) Feb 01, 2023 through March 31, 2023

Calendar Day	Day	CMRI T+1B	Submit Meter Data by T+2B 10:00 for	Publish Initial Statement T+5B	Submit Meter Data by T+5B 18:00	Publish Recalc Statement T+8B	Publish Market Invoice
06-Mar-23	Monday		T+9B 2-Mar	T+9B	T+70B	T+70B	
07-Mar-23	Tuesday			28-Feb	28-Feb	23-Feb	
08-Mar-23	Wednesday	7-Mar		Monthly Initial 21-Feb - 28-Feb			Daily Initial 21-Feb; Initial 23-Feb; Initial 28-Feb Monthly Initial 21-Feb - 28-Feb
09-Mar-23	Thursday		7-Mar	2-Mar	2-Mar		
10-Mar-23	Friday	9-Mar				28-Feb	
11-Mar-23	Saturday						
12-Mar-23	Sunday						
13-Mar-23	Monday		9-Mar			Monthly Recalc 21-Feb - 28-Feb	Daily Recalc 21-Feb; Recalc 23-Feb; Recalc 28-Feb Monthly Recalc 21-Feb - 28-Feb
14-Mar-23	Tuesday			7-Mar	7-Mar	2-Mar	
15-Mar-23	Wednesday	14-Mar					
16-Mar-23	Thursday		14-Mar	9-Mar	9-Mar		
17-Mar-23	Friday	16-Mar		Monthly Initial 02-Mar - 09-Mar		7-Mar	Daily Initial 02-Mar; Initial 07-Mar; Initial 09-Mar Monthly Initial 02-Mar - 09-Mar
18-Mar-23	Saturday						
19-Mar-23	Sunday						
20-Mar-23	Monday		16-Mar				
21-Mar-23	Tuesday			14-Mar	14-Mar	9-Mar	
22-Mar-23	Wednesday	21-Mar				Monthly Recalc 02-Mar - 09-Mar	Daily Recalc 02-Mar; Recalc 07-Mar; Recalc 09-Mar Monthly Recalc 02-Mar - 09-Mar
23-Mar-23	Thursday		21-Mar	16-Mar	16-Mar		
24-Mar-23	Friday	23-Mar		Monthly Initial 14-Mar - 16-Mar		14-Mar	Daily Initial 14-Mar; Initial 16-Mar; Monthly Initial 14-Mar - 16-Mar
25-Mar-23	Saturday						
26-Mar-23	Sunday						
27-Mar-23	Monday		23-Mar				
28-Mar-23	Tuesday			21-Mar	21-Mar	16-Mar	
29-Mar-23	Wednesday	28-Mar				Monthly Recalc 14-Mar - 16-Mar	Daily Recalc 14-Mar; Recalc 16-Mar; Monthly Recalc 14-Mar - 16-Mar
30-Mar-23	Thursday		28-Mar	23-Mar	23-Mar		
31-Mar-23	Friday	30-Mar		Monthly Initial 21-Mar - 23-Mar		21-Mar	Daily Initial 21-Mar; Initial 23-Mar; Monthly Initial 21-Mar - 23-Mar

# Settlements User Group – 04/12/2023

## Dispute Topics Market Services

# Incorrect Bid Cost Recovery Settlement

CAISO calculated incorrect Bid Cost Recovery (BCR) Settlement and Allocations on T+9B Initial Settlement Statement.

## **Impacted Trade Dates:**

3/15/2023 through 3/26/2023

## **Impacted Charge Codes:**

CC6620, CC66200, CC6678 and CC66780

## **Impacted Resource Types:**

VER, RDRR, PDR, Hydro and Generators (Non-MSGs).

# Incorrect Bid Cost Recovery Settlement

The following are the root causes for the incorrect BCR Settlement.

- SIBR created “Incorrect Minimum Load Cost” (MLC) of \$1600 for all resources which has PMIN of 0, and those incorrect MLC was used in the BCR calculation. Impacted TDs are 3/15/2023-3/17/2023.
- Market passed “Incorrect Status Comm” of ONLINE when the resource has no awards or is completely offline. Hence the MLC was allocated for those resources. Impacted TDs are 3/16/2023-3/26/2023.

Both issues created incorrect BCR Settlement and Allocation charge codes.

# Incorrect Bid Cost Recovery Settlement

CAISO performed some corrections on T+9B Settlement Statement. We have received disputes from a few SC's.

CAISO has reviewed the issue holistically and will be making corrections to all the impacted Trade Dates and Resources on T+70B Settlement Statement.

Please wait until CAISO publishes T+70B Settlement Statement to file SDS dispute to CAISO if not seeing the expected results.



# Questions



# ISO Training Schedule

Training Course	Date and time
Energy Storage Enhancements Track 1 Training (tentative)	May 2 9am – 10am PPT
ISO Workshop: Introduction to ISO Markets	August 8 and 9 9am – 12pm PPT
ISO Workshop: Market Transactions	August 15 and 16 9am – 12pm PPT
ISO Workshop: ISO Settlements	August 22 and 23 9am – 12pm PPT

Are you looking for more training?

The ISO Learning Center has computer based training available for lots of topics. Check out the Learning Center: <http://www.caiso.com/participate/Pages/LearningCenter/default.aspx>



# PRR and BPM Updates

To view all details for the PRRs in the [BPM Change Management application](#)

PRR	PRR Title	Stage
1491	Ancillary Service State of Charge Constraint Initiative	Initial
1492	WEIM resource sufficiency evaluation Initiative	Initial
1493	Dispute - Updated BPM Configuration guide for PC CG PC System Resource Deemed Delivered Energy Quantity to accommodate Logical Meter Calculator scenarios where the E-tag is curtailed mid-hour	Initial
1494	Dispute - Updated CG PC MSS Deviation Penalty Quantity to accurately account for Resources with SPIN/NSPIN dispatches outside contingency intervals	Initial
1495	Dispute - Updated multiple BPM Configuration guides to accommodate MSP allocating one sided charge or payment neutrality adjustments to measured demand in CC 8989 and CC 8999 while also achieving revenue neutrality	Initial
1499	Hybrid Phase 2C	Initial

# Next SUG Meeting: April 26<sup>th</sup>, 2023 at 10:00 A.M

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# Settlement User Group Calendar 2023

January						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

February						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

March						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

April						
Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

May						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

June						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

July						
Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

August						
Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

September						
Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

October						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

November						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

December						
Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

# RC West Initial and Recalculation Statement and Invoice Published January 3, 2023

- RC West has published the Reliability Coordinator (RC) Services Initial and recalculation statements and invoices for the period provided below to the Market Results Interface-Settlements (MRI-S) and the Secure File Transfer Protocol (SFTP) server on **Jan. 3, 2023**.

Statement	Bill Period
RC Services Initial	1/1/2023 - 12/31/2023
RC Services Recalculation	1/1/2022 - 12/31/2022

- The above RC Services statement and invoice files can be retrieved in MRI-S under the Reliability Coordination tab by selecting RC Services Initial, RC Services Recalc, or RC Services Invoices as the file types and setting the post date to Jan. 3, 2023.
- Statement and invoice file sets are available on MRI-S and SFTP for 45 calendar days after publication. RC Customers are advised to download the files for validation purposes and future reference.
- Payments for the invoices are due no later than 10 a.m. (Pacific Time) on **Feb. 2, 2023**.

# RC Services

## RC Services

- RC Info Submittal Window – 09/01/2022 – 09/30/2022
  
- Informational Statement:
  - **Publishes: 10/31/2022**
  - Customer Review Period Resubmittal Window: 11/01/2022 – 11/30/2022
  
- Statement and Invoice:
  - 2023 Initial & 2022 Recalculation Publishes: 01/03/2023
  - Payment Due: Thursday, 02/02/23
  
- RC West Payment Calendar:  
<http://www.caiso.com/Documents/RCWestAnnualPaymentsCalendar.pdf>

## HANA Services

- No updates

## Settlement References

- Unscheduled Directed Recalculation Statements and Invoices – presented Jul 20
- NERC/WECC Invoice – presented Sep 14
- Knowledge Articles
- Ways to Participate in Settlements



# Unscheduled Directed Recalculation Statements and Invoices

- The California ISO will publish unscheduled directed recalculation settlement statements under run type Daily Rerun Market on July 25, 2022 for the trading days April 1, 2017 thru July 30, 2018. The statements will reflect the outcome of updated wheeling access charge rates under Federal Energy Regulation Commission (FERC) order ER-17-998.
- A calendar reflecting the publication date, review period and invoicing is available on the ISO website at <http://www.caiso.com/market/Pages/Settlements/Default.aspx> under the *Retroactive settlements > Recalculation settlements > Unscheduled directed* subheading.
- The California ISO has posted the following updated wheeling access charge rates effective as noted below on its [settlements webpage](#), under the Transmission access charge rates/Wheeling rates/Wheeling rates 2017 and 2018 subheadings.

# Unscheduled Directed Recalculation Statements and Invoices

- These rates will be included in the unscheduled directed recalculation settlement calculation of transmission access charge transactions starting on the following trade dates:

Wheeling Access Rates	FERC Order	FERC Order Date
Rates effective Apr. 21, 2017	DATC Path 15, LCC 2017 TRR information under Docket Number ER17-998	May. 26, 2022
Rates effective Jan. 1, 2018	DATC Path 15, LCC 2017 TRR information under Docket Number ER17-998	May. 26, 2022
Rates effective Ju1. 22, 2018	DATC Path 15, LCC 2017 TRR information under Docket Number ER17-998	May. 26, 2022

- Disputes may be submitted in accordance with section 11.29.8.4.8 of the ISO Tariff. Adjustments for any valid disputes related to incremental data changes will be reflected on a subsequent recalculation settlement statement.
- The market notice can be found in the <http://www.caiso.com/dailybriefing/Pages/default.aspx>

# NERC/WECC for AY 2023

- The California ISO published the final North American Electric Reliability Corporation/Western Electricity Coordinating Council (NERC/WECC) charge statements and invoices for assessment year 2023 to the Market Results Interface-Settlements (MRI-S) and the Secure File Transfer Protocol (SFTP) server on Dec. 1, 2022. Statement and invoice files can be retrieved in MRI-S by setting the post date to 12/01/2022. Statement and invoice file sets are available on MRI-S and SFTP for 45 calendar days after publication. Scheduling coordinators (SCs) are advised to download the files for validation purposes and future reference.
- The charges appear on the NERC/WECC final statements and invoices under charge code (CC) 6490, with Jan. 1, 2021 as the trade date.
- Payments for the final NERC/WECC charges are due by 10 a.m. (Pacific Time) on Dec. 22, 2022, pursuant to ISO Tariff section 11.20.5.
- The final NERC/WECC charge rate for assessment year 2023 is provided below for scheduling coordinators' information pursuant to Section 11.20.4 of ISO Tariff.

Item	Value	Unit
Total NERC/WECC Charge for Assessment Year 2023	9,044,037.00	\$
Total NERC/WECC Metered Demand for Calendar Year 2021	216,037,246.08	MWh
Final NERC/WECC Charge Rate for Assessment Year 2023	0.041863323	\$/Mwh

# NERC/WECC Preliminary Statements and Invoices for AY 2023 Published

- The California ISO has published preliminary NERC/WECC statements and invoices for 2023 NERC/WECC charges to the Market Results Interface-Settlements (MRI-S) and the Secure File Transfer Protocol (SFTP) server on August 15, 2022. The charges for assessment year 2023 appear on the NERC/WECC Initial statement under charge code (CC) 6490, with January 1, 2021 as the trade date.
- The preliminary NERC/WECC charge rate for assessment year 2023 is provided below for scheduling coordinators' information pursuant to ISO Tariff section 11.20.4.

Item	Value	Unit
Total NERC/WECC Charge for Assessment Year 2023	10,390,938.72	\$
Total NERC/WECC Metered Demand for Calendar Year 2021	216,037,246.08	MWh
Preliminary NERC/WECC Charge Rate for Assessment Year 2023	0.048097904	\$/MWh

- Payments for the preliminary NERC/WECC charges are due by 10:00 a.m. (Pacific Time) on September 14, 2022, pursuant to ISO Tariff section 11.20.5.
- On May 9, 2022, the ISO posted NERC/WECC information files to the MRI-S and the SFTP server in accordance with the approved tariff provisions for review by scheduling coordinators.

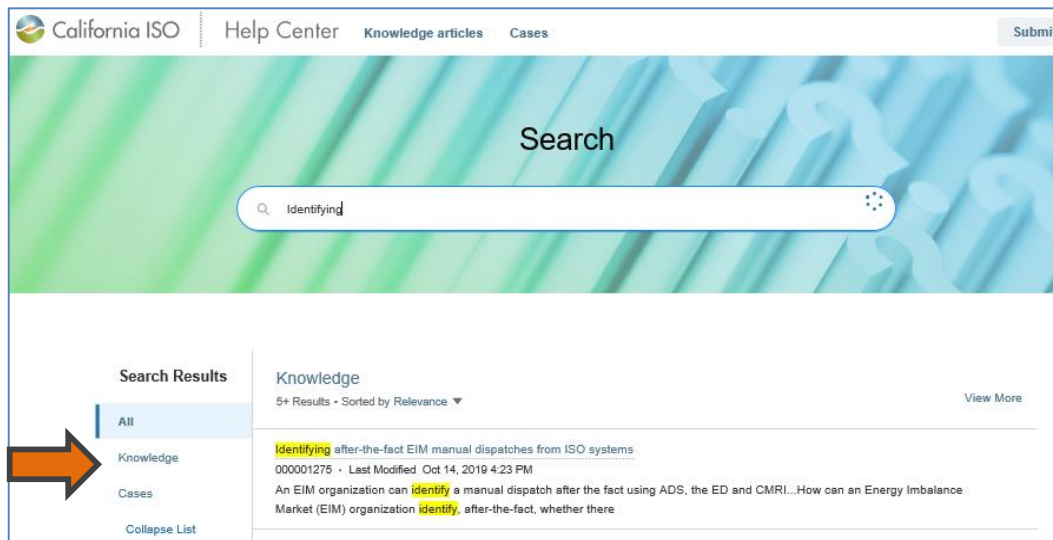
# Knowledge Articles

CAISO has posted **Knowledge Articles** for FAQs in CIDI.

To access the articles in CIDI, you either:

**Option 1:** Type in the keyword “**Identify**” in the search field to pull up the article, or

**Option 2:** Click on the **Knowledge Articles** tab, and then click the **Settlements and Metering** category link to pull up a list of the Settlements related articles.



California ISO Help Center Knowledge articles Cases Submit a

Search

Identifying

Search Results

All Knowledge Cases Collapse List

Knowledge  
5+ Results - Sorted by Relevance View More

Identifying after-the-fact EIM manual dispatches from ISO systems  
000001275 - Last Modified Oct 14, 2019 4:23 PM  
An EIM organization can identify a manual dispatch after the fact using ADS, the ED and CMRI...How can an Energy Imbalance Market (EIM) organization identify, after-the-fact, whether there

**Posted Knowledge Articles to date:**

- RC rate location
- RC Informational Statement
- RC services charge
- 2019 prorated RC charge
- Payment calendar
- ED-DPMIN
- After-the-Fact EIM Manual Dispatches from ISO systems
- Validate Mitigated prices in DA, RTPD (FMM) and RTD
- Calculation of meter data for TG resources
- Pricing node (Pnode) price used for CRR Settlement
- In relation to the Day-Ahead Nodal Pricing Model, the California ISO has posted a Market Analysis report to its website for market participant review. [Nodal Pricing Model Report v1](#)

# Ways to participate in settlements

- Visit the Settlements page
  - <http://www.caiso.com/market/Pages/Settlements/Default.aspx>
- Attend web conference meetings
  - Settlement User Group (SUG) bi-weekly meetings
    - Release User Group
    - Market Sim Conference Calls
    - Initiative status with settlement updates
    - <http://www.caiso.com/StakeholderProcesses/>
    - [System change with settlement updates on independent releases](#)
- BPM Change Management monthly web meeting
  - Settlement and Billing BPM status updates
  - <http://bpmcm.caiso.com/Pages/default.aspx>
  - <http://www.caiso.com/rules/Pages/BusinessPracticeManuals/Default.aspx>
  - <http://www.caiso.com/Documents/ISO-AcronymList.pdf>

# Settlement User Group

Thank you for participating in our call

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