



California ISO

# Settlement User Group

May 10, 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 May 24<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, May 10, 2023

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>▪ Proposed Revision Requests Update</li><li>▪ Training Update</li></ul>	▪ Elizabeth Caldwell ▪ Assad Al-Baijat ▪ Massih Ahmadi ▪ Cynthia Hinman

# 2023 Summer Settlements Release

- Project scope with direct settlement impact:
  - Ancillary Service State of Charge Constraint – *retro activation (9/20/22): included in release package but inactive until prod criteria met*
  - WEIM Resource Sufficiency Evaluation Enhancements Phase 2 Track 1
  - Hybrid Resources Phase 2C
- Non-project scope: *see release component summary email*
- Key Deliveries
  - A/S SOC & Hybrid Phase 2C tech docs: **posted 2/13**
  - Energy Storage & WEIM tech docs: **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: **posted 4/27**
  - Prod deployment: **5/31**
  - Prospective activation: **6/1**
- Mkt Sim forums = **recurrences M + Th @ 2pm**
- **RUG next Tuesday = 5/16**

# Market Simulation Pre-Summer 2023 Calendar (MAP STAGE)



## Market Simulation Pre-Summer 2023 Calendar (MAP STAGE) May 1, 2023 through May 30, 2023

Calendar Day	Day	CMRI T+1B	Data by T+2B 10:00 for Initial T+9B	Publish Initial Statement T+5B T+9B	Submit Meter Data by T+5B 18:00 for Recalc T+70B	Publish Recalc Statement T+8B T+70B	Publish Market Invoice
01-May-23	Monday						
02-May-23	Tuesday						
03-May-23	Wednesday	2-May					
04-May-23	Thursday		2-May				
05-May-23	Friday	4-May					
06-May-23	Saturday						
07-May-23	Sunday						
08-May-23	Monday		4-May				
09-May-23	Tuesday			2-May	2-May		
10-May-23	Wednesday	9-May					
11-May-23	Thursday		9-May	4-May	4-May		
12-May-23	Friday	11-May		Monthly Initial 2-May - 4-May		2-May	Daily Initial 2-May; Daily Initial 4-May Monthly Initial 2-May - 4-May
13-May-23	Saturday						
14-May-23	Sunday						
15-May-23	Monday		11-May				
16-May-23	Tuesday			9-May	9-May	4-May	
17-May-23	Wednesday	16-May				Monthly Recalc 2-May - 4-May	Daily Recalc 2-May; Daily Recalc 4-May Monthly Recalc 2-May - 4-May
18-May-23	Thursday		16-May	11-May	11-May		
19-May-23	Friday	18-May		Monthly Initial 9-May - 11-May		9-May	Daily Initial 9-May; Daily Initial 11-May Monthly Initial 9-May - 11-May
20-May-23	Saturday						
21-May-23	Sunday						
22-May-23	Monday		18-May				
23-May-23	Tuesday			16-May	16-May	11-May	
24-May-23	Wednesday	23-May				Monthly Recalc 9-May - 11-May	Daily Recalc 9-May; Daily Recalc 11-May Monthly Recalc 9-May - 11-May
25-May-23	Thursday		23-May	18-May	18-May		
26-May-23	Friday	25-May		Monthly Initial 16-May - 18-May		16-May	Daily Initial 16-May; Daily Initial 18-May Monthly Initial 16-May - 18-May;
27-May-23	Saturday						
28-May-23	Sunday						
29-May-23	Monday						
30-May-23	Tuesday		25-May				
31-May-23	Wednesday	30-May		23-May	23-May	18-May	
01-Jun-23	Thursday		30-May			Monthly Recalc 16-May - 18-May	Daily Recalc 16-May; Daily Recalc 18-May Monthly Recalc 16-May - 18-May
02-Jun-23	Friday			25-May	25-May		
03-Jun-23	Saturday						
04-Jun-23	Sunday						
05-Jun-23	Monday					23-May	
06-Jun-23	Tuesday			30-May	30-May		
07-Jun-23	Wednesday			Monthly Initial 23-May - 30-May		25-May	Daily Initial 23-May; Daily Initial 25-May; Daily Initial 30-May Monthly Initial 23-May - 30-May
08-Jun-23	Thursday						
09-Jun-23	Friday					30-May Monthly Recalc 23-May - 30-May	Daily Recalc 23-May; Daily Recalc 25-May; Daily Recalc 30-May Monthly Recalc 23-May - 30-May;

# 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	Recommendation
1492	WEIM Resource Sufficiency Evaluation Phase 2	Recommendation
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	Recommendation
1494	Dispute - Updated CG PC MSS Deviation Penalty Quantity to accurately account for Resources with SPIN/NSPIN dispatches outside contingency intervals	Recommendation
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	Recommendation
1499	Hybrid Phase 2C	Recommendation

# ISO Training Schedule

Training Course	Date and time
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>



# Next SUG Meeting: May 24<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
9	10	11	12	13	14	15
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.

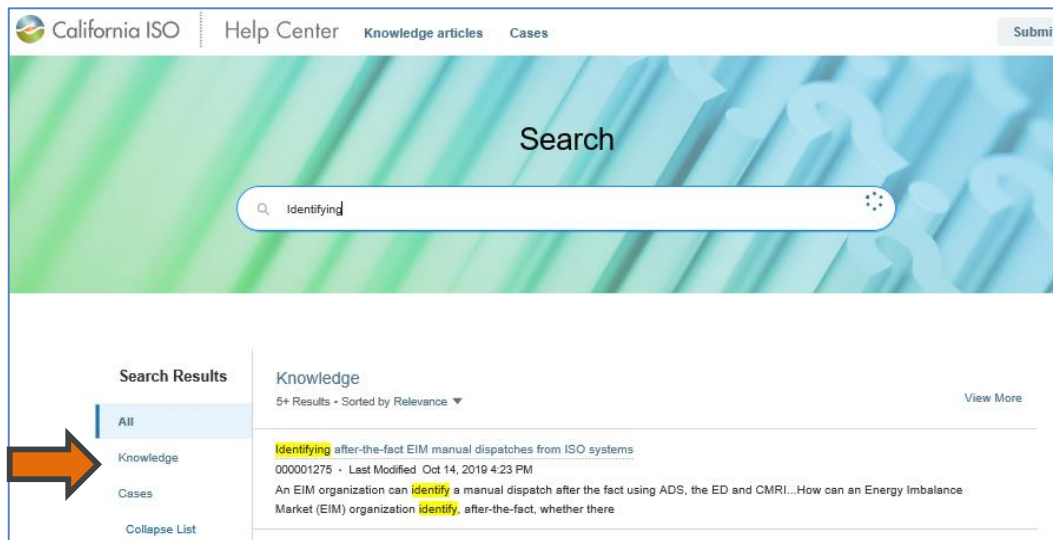
# Knowledge Articles

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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This is the last slide to this presentation