

Settlement User Group

March 29, 2023

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

Web Conference Information	Conference Call Information
Web Address: https://caiso.webex.com/meet/settlementuser	US Toll Free: 1-844-621-3956
Meeting Number: 961 854 046	00 16.1.1.00.1.01.1.02.1.000
Audio connection instructions will be available after connecting	US Toll : 1- 650-479-3208
to the web conference. When prompted, select "Call me" and enter your phone number you will use during the call.	Access Code: 961 854 046

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.

The recording will be posted on our website and be available for a short period of time until April 12th, 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.

To ask a question after each topic, unmute yourself before asking your question, or enter question on the chat please state your name and affiliation. Thank you.



<u>mute</u>

Settlement User Group Agenda

Wednesday, March 29, 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	
	 Summer Settlements Release 2023 	Elizabeth Caldwell
	 Market Simulation Calendar 	Assad Al-Baijat
	Training Update	Cynthia Hinman





2023 Summer Settlements Release

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



Parallel Operation 2023 Calendar (STAGE)



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

			Submit Meter		Submit Meter		
Calendar	Day	CMRI	Data	Publish Initial Statement	Data	Publish Recalc Statement	
Day		T+1B	by T+2B 10:00 for	T+5B	by T+5B 18:00	T+8B	Publish Market Invoice
7	~	-	T+9B -	T+9B ~	T+70B ~	T+70B -	-
06-Mar-23	Monday		2-Mar				
07-Mar-23	Tuesday			28-Feb	28-Feb	23-Feb	
08-Mar-23	Wednesday						Daily Initial 21-Feb; Initial 23-Feb; Initial 28-Feb
		7-Mar		Monthly Initial 21-Feb - 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						Daily Recalc 21-Feb; Recalc 23-Feb; Recalc 28-Feb
			9-Mar			Monthly Recalc 21-Feb - 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						Daily Initial 02-Mar; Initial 07-Mar; Initial 09-Mar
		16-Mar		Monthly Initial 02-Mar - 09-Mar		7-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						Daily Recalc 02-Mar; Recalc 07-Mar; Recalc 09-Mar
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24-Mar-23	Friday						Daily Initial 14-Mar; Initial 16-Mar;
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ISO Training Schedule

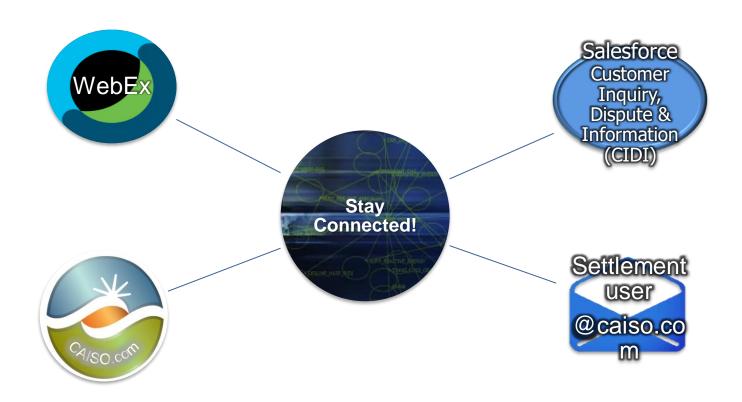
Training Course	Date and time
ISO Workshop: Introduction to ISO Markets	August 8 and 9 9am – 12pm PPT
ISO Workshop: Market Transactions	August 15 and 16 9am – 12pm PPT
ISO Workshop: ISO Settlements	August 22 and 23 9am – 12pm PPT

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: April 12th, 2023 at 10:00 A.M





ISO Public

Settlement User Group Calendar 2023



February								
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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 <u>settlements webpage</u>, under the Transmission access charge rates/Wheeling rates/Wheeling rates 2017 and 2018 subheadings.



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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.



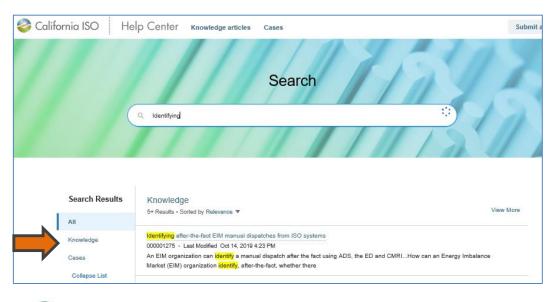
Knowledge Articles

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.



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

California ISO

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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



ISO Public

Settlement User Group

Thank you for participating in our call

This is the last slide to this presentation

