

Settlement User Group

January 18, 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	
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 February 1st, 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.



Settlement User Group Agenda

Wednesday, January 18, 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	
	 Pre-Summer Settlements Release 2023 	Elizabeth Caldwell
	 Market Simulation Calendar 	Assad Al-Baijat
	 Proposed Revision Requests Update 	Massih Ahmadi
	Training Update	Massih Ahmadi





2023 Pre-Summer Settlements Release

- Project scope (tentative) with direct settlement impact
 - Ancillary Service Start of Charge Constraint retro activation
 - Energy Storage Enhancements Phase 1 Track 1 Ancillary Services & Exceptional Dispatch
 - WEIM Resource Sufficiency Evaluation Enhancements Phase 2 Track 1
- Non-project scope: to be communicated 2/27
- Anticipated targets
 - Tech doc posting: 2/13
 - 1st draft config file + release component summary: 2/27
 - Prod deployment: 5/31
 - Prospective activation: 6/1



EIM Market Sim 2023 Calendar (MAP STAGE)



Market Sim 2023 Calendar (MAP STAGE) Dec 01, 2022 through Jan 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
			T+9B	T+9B	T+70B	T+70B	
02-Jan-23	Monday				Cal IS0) Holiday	
03-Jan-23	Tuesday					20-Dec	
04-Jan-23	Wednesday	3-Jan		27-Dec	27-Dec		
05-Jan-23	Thursday		3-Jan	Monthly Initial 20-Dec - 27-Dec		22-Dec	Daily Initial 20-Dec; Daily Initial 22-Dec; Daily Initial 27-Dec; Monthly Initial 20-Dec - 27-Dec
06-Jan-23	Friday	5-Jan					
07-Jan-23	Saturday						
08-Jan-23	Sunday						
09-Jan-23	Monday		5-Jan			27-Dec	
10-Jan-23	Tuesday			3-Jan	3-Jan	Monthly Recalc 20-Dec - 27-Dec	Daily Recalo 20-Dec; Daily Recalo 22-Dec; Daily Recalo 27-Dec; Monthly Recalo 20-Dec - 27-Dec
11-Jan-23	Wednesday	10-Jan					
12-Jan-23	Thursday		10-Jan	5-Jan	5-Jan		
13-Jan-23	Friday	12-Jan		Monthly Initial 03-Jan - 05-Jan		3-Jan	Daily Initial 03-Jan; Daily Initial 05-Jan Monthly Initial 03-Jan - 05-Jan
14-Jan-23	Saturday						
15-Jan-23	Sunday						
16-Jan-23	Monday				Cal ISC) Holiday	
17-Jan-23	Tuesday		12-Jan				
18-Jan-23	Wednesday	17-Jan		10-Jan	10-Jan	5-Jan	
19-Jan-23	Thursday		17-Jan			Monthly Recalc 03-Jan - 05-Jan	
20-Jan-23	Friday	19-Jan		12-Jan	12-Jan		
21-Jan-23	Saturday						
22-Jan-23	Sunday						
23-Jan-23	Monday		19-Jan	Monthly Initial 10-Jan - 12-Jan		10-Jan	Daily Initial 10-Jan; Daily Initial 12-Jan Monthly Initial 10-Jan - 12-Jan
24-Jan-23	Tuesday			17-Jan	17-Jan		
25-Jan-23	Wednesday	24-Jan				12-Jan	
26-Jan-23	Thursday		24-Jan	19-Jan	19-Jan	Monthly Recalc 10-Jan - 12-Jan	Daily Recalo 10-Jan; Daily Recalo 12-Jan Monthly Recalo 10-Jan - 12-Jan
27-Jan-23	Friday	26-Jan		Monthly Initial 17-Jan - 19-Jan		17-Jan	Daily Initial 17-Jan; Daily Initial 19-Jan; Monthly Initial 17-Jan - 19-Jan
28-Jan-23	Saturday						
29-Jan-23	Sunday						
30-Jan-23	Monday		26-Jan				
31-Jan-23	Tuesday			24-Jan	24-Jan	19-Jan	
01-Feb-23	Wednesday	31-Jan				Monthly Recalc 17-Jan - 19-Jan	Daily Recalc 17-Jan; Daily Recalc 19-Jan; Monthly Recalc 17-Jan - 19-Jan
02-Feb-23	Thursday		31-Jan	26-Jan	26-Jan	,	•
03-Feb-23	Fridau					24-Jan	

California ISO

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PRR and BPM Updates

To view all details for the PRRs in the <u>BPM Change Management application</u>

PRR	PRR Title	Stage
1476	Emergency PRR - Updated multiple BPM Configuration guides to accommodate configuration issue related to PTO Vernon leaving CAISO Market mid-month	Recommendation
1481	Emergency PRR - Settlement configuration changes from market sim review to support Hybrid Resources Phase 2B initiative and ensure non-hybrid resources selecting ISO forecast receive forecast fee	Recommendation



ISO Training Schedule

Training Course	Date and time
Hybrid Resources Phase 2B Refresher Training*	January 24 8:30am – 10am PPT
FRP Refinements – Deliverability Refresher Training*	January 25 1pm – 2:30pm PPT
ISO Workshop: Introduction to ISO Markets	March 7 and 8 9am – 12pm PPT
ISO Workshop: Market Transactions	March 14 and 15 9am – 12pm PPT
ISO Workshop: ISO Settlements	March 21 and 22 9am – 12pm PPT

*If you have questions that you would like addressed in the upcoming refresher training please submit them at the following link: https://www.surveymonkey.com/r/CAISOreleasetrainingquestions

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

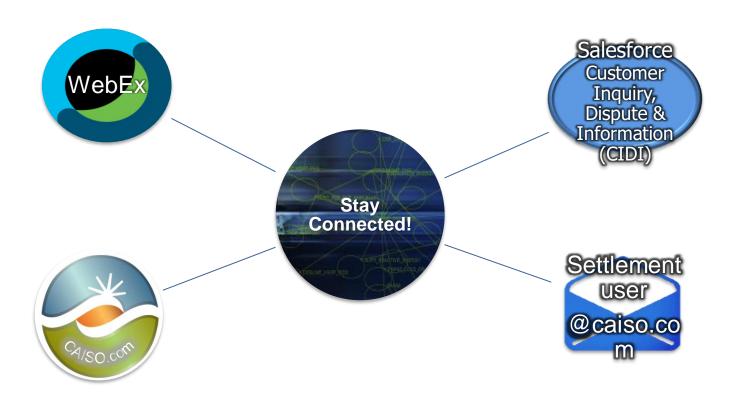


Settlement Corner

Upcoming Topics	Previous Topics	Published Knowledge Articles
• Fall 2022 Release	 Renewable and energy storage - Link Fall Release Projects - Link Transportation electrification and micro grids Link Real Time Settlement P2 Link ESDER P2 Link UFE election process for RT Settlement P2 Link Real Time Settlement Initiative - UFE Settlement - presented Oct 13 Link Ancillary Services NO PAY (AS NO PAY) Knowledge Article- Link 	 RC Informational Statement 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 Energy Transfer System Resource (ETSR) Pricing node (Pnode) price used for CRR Settlement



Next SUG Meeting: February 1st, 2023 at 10:00 A.M





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Settlement User Group Calendar 2023



February							
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	November					
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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.



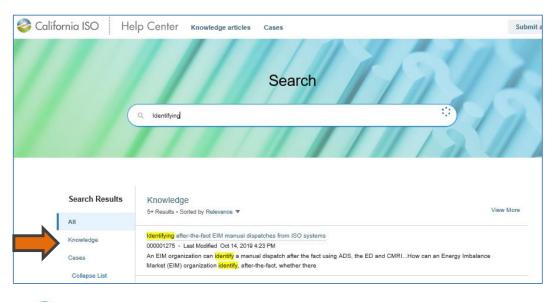
Knowledge Articles

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



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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



Settlement User Group

Thank you for participating in our call

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