Settlement User Group

April 28, 2021   10:00 a.m. – 11:00 a.m. (Pacific Time)

Web Conference Information	Conference Call Information
Web Address: https://caiso.webex.com/meet/settlementuser Meeting Number: 961 854 046 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.	US Toll Free: 1-844-517-1271 US Toll : 1- 682-268-6591 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 May 12, 2021. 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. 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, April 28, 2021   10:00 a.m. – 11:00 a.m. (Pacific Time)

Time	Topic	Presenter	Unmute ⌄
▪ 10:00 – 10:02	▪ Welcome and Introduction	▪ Brenda Corona	
▪ 10:02 – 11:00	▪ Settlements		
	▪ Spring/Q1 2021 – Settlement Release	▪ Elizabeth Caldwell	
	▪ Summer/Q2 2021 Settlement Release	▪ Elizabeth Caldwell	
	▪ PRR and BPM updates	▪ Brenda Corona	
	▪ Market Simulation Summer 2021 Updates	▪ Anshuman Vaidya, Trang Vo	
	▪ Modified Market Simulation Settlement Timeline	▪ Assad Al- Baijat	
	▪ Customer Readiness 2021 Training	▪ Rashele Wiltzius	

California ISO

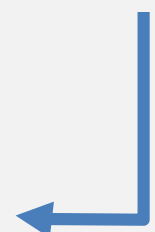ISO Public

Spring/Q1 2021 Settlement Release

- Release scope:
  - Projects:
    - Hybrid Resources Phase 1b Settlements
    - Real Time Settlement Review
  - Production defects detailed in release component summary
- 1st draft tech docs + config output file + release component summary posted – **1/19**
- 2nd draft config output file + updated release component summary posted – **2/24**
- 3rd draft config output file + updated release component summary posted - **3/17**
- 4th draft config output file + updated release component summary posted **– 4/7**
- Market sim extended for spring
  - Conference calls are bi-weekly, Monday + Thursday
  - Stay current thru Release User Group (RUG), every other Tuesday 10-11am
  - Next web conference on 4/20
- Pre-prod configuration output file + release artifacts posted **– 4/21**
- Anticipated prod deployment today – **4/28**

Summer/Q2 2021 Settlement Release

- Release scope:
  - Projects:
    - Summer 2021 Readiness: Make Whole/Uplift Settlement for Economic Bid Hourly Block Resources with FMM Inc Import or FMM Dec Export.
  - Production defects: *None in scope currently*
- 1st draft tech docs posted: **4/7**
- 1st draft config output file + release component summary posted: **4/21**
- Market sim window: targeting 4/26 – May 21
  - Conference calls are bi-weekly, Monday + Thursday
  - Stay current thru [Release User Group](#) (RUG), every other Tuesday 10-11am
  - Next web conference on 5/4

PRR and BPM Updates

PRR	Title	Status
1322	Configuration adjustment for DA Nodal defect in charge code 4515 GMC Bid Transaction fee to re-enable the bid segment count formulas	
1323	Configuration changes to consider bid option flag for resources that switch between 15 minute and hourly bid option within the same trade date	
1330	Configuration change to spilt allocation of any unallocated RAAIM funds leftover at year-end between generic and flexible RA and CPM types.	
1331	Configuration change to enhance dynamic resources logical meter calculation (LMC) to use hourly-integrated tag values for the trade hour to derive the logical meter value.	PRRs in final stage to post to BPM site this week
1332	Configuration change adjusting the intertie attribute under Day Ahead Energy, Congestion and Loss charge code 6011 to enable unique price on Hourly Day Ahead Nodal MCL Price.	
1333	Documentation only change to clarify mapping rules for Resource Channel 4 Generator Meter Quantity for 'DDR' and 'LESR' to net the Gen measurement type with Load measurement type.	
1328	To support the Hybrid Resource Phase 1b project extension, configuration revision to retroactively charge Hybrid Resources a forecasting fee.	
1329	To support the Real Time Settlement Review - Phase 1 project, configuration revisions to allow for BCR Transfer adjustments, settling the base ETSR at unique pricing location LMP, and the elimination of the option for EIM entities to not settle Base ETSRs schedule deviations. Effective date 5/1/2021	

PRR and BPM Updates (con't)

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

PRR	Title	Status for all
1335	Update CC 7020 RMR Capacity Payment BPM to clawback excess revenue when RMR designation is for System TAC Area	• Recommendation comment period expires on 5/18
1338	Configuration change to MD over control area calculation applicable to pre and post-excess behind the meter formulas to correctly pass data into 8835 and to properly pro-rate the LAP neutrality allocation.	• Initial comment period expires 5/18 • PRRs will be discussed during the May 25th BPM meeting
1339	Configuration change to exempt both contracted internal pseudo-ties and resources with valid ETC/TOR contracts from intertie deviation settlement penalty charges calculated under charge code 6456	

Updated Settlement Related Documents
- [ISO Charge Codes Matrix](#)
- [Settlements and Billing Design Standard and Convention v5.22](#)

[Business Practice Manual Proposed Revision Request Tracking Log](#)

Market Simulation Summer 2021 Updates

- [Market Simulation Plan -Summer 2021 Release](#)
- [Market Simulation Settlements Calendar-Summer 2021 Release](#)
- Market Simulation structured scenarios for the projects are now available on release planning website.

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					

Web address: https://caiso.webex.com/meet/MarketSim
Meeting number: 962 067 710
- Dial-in Number: 844-517-1271 (Toll Free)
- International Dial-in: 682-268-6591
- Access Code: 962 067 710

MarketSim@caiso.com

Market Simulation Initiatives – Summer 2021 Updates

- Timeline: April 26-May 28
- **FERC order 831**
- Structured: May 25, 26, 27
  - Structured Scenarios document -
  - http://www.caiso.com/Documents/MarketSimulationStructuredScenarios-FERCorder831.pdf
  - Business Requirements Specification -
  - http://www.caiso.com/Documents/BusinessRequirementsSpecificationFERC831ImportBiddingMarketParameters.pdf
- **Resource adequacy enhancements track 1**
- Structured: May 11 and 13
  - Business Requirements Specification - http://www.caiso.com/Documents/Business-Requirements-Specification-Resource-Adequacy-Enhancements-Track-1-Clean.pdf
  - Structured Scenarios document - http://www.caiso.com/Documents/MarketSimulationResourceAdequacyEnhancementTrack1.pdf
- **Summer 2021 readiness**
- Structured: May 18 and 20
  - Business Requirements Specification - http://www.caiso.com/Documents/BusinessRequirementsSpecificationSummer2021Readiness.pdf
  - Structured Scenarios document - http://www.caiso.com/Documents/MarketSimulationStructuredScenariosSummerReadiness2021.pdf

Modified Market Simulation Settlement Timeline

- Draft is posted, targeting 4/26
- Expect the standard Tue/Thurs publication routine, **but with new timeline + additional statements FERC 831 structured week**

- Dates below are subject to change, but overall structure will be similar
  - 4/27 + 4/29: connectivity + End to End>
  - 5/4 +5/6: connectivity + End to End>
  - 5/11 + 5/13: UAT + structured for Summer Readiness: 5/25, 5/26 +5/27: unstructured for Summer
  - 5/18 +5/20: UAT + structured for Summer Readiness: 5/25, 5/26 ,5/27: unstructured for Summer Readiness and structured for FERC 831 (no settlement for this)
- Three trade dates for the first week of structured scenarios – TD 5/25, 5/26 and 5,27
- Modified settlement timeline the will show:
  - Move Meter Data Initial T+3B to T+2B
  - Move Publishing initial T+6B to T+5B
  - Move Meter Data Recalc - T+6B to T+5B
  - Move Publishing Recalc - T+9B to T+8B

Market Simulation Calendar

Summer 2021 Release Calendar (MAP STAGE)
Apr 26, 2021 through May 28, 2021

California ISO

Calendar Day	Day	CMRI T+1B	Submit Meter Data by T+2B 10:00 AM for Initial	Publish Initial Statement T+5B	Submit Meter Data by T+5B 18:00 for Recalc	Publish Recalc Statement T+8B	Publish Market Invoice
				T+9B		T+70B	
26-Apr-21	Monday						
27-Apr-21	Tuesday						
28-Apr-21	Wednesday	27-Apr					
29-Apr-21	Thursday		27-Apr				
30-Apr-21	Friday	29-Apr					
01-May-21	Saturday						
02-May-21	Sunday						
03-May-21	Monday		29-Apr				
04-May-21	Tuesday			27-Apr	27-Apr		
05-May-21	Wednesday	4-May					
06-May-21	Thursday		4-May	29-Apr	29-Apr		
07-May-21	Friday	6-May		Monthly Initial 27-Apr -29-Apr		27-Apr	Daily Initial 27-Apr; 29-Apr / Monthly Initial 27-Apr - 29-Apr
08-May-21	Saturday						
09-May-21	Sunday						
10-May-21	Monday		6-May				
11-May-21	Tuesday			4-May	4-May	29-Apr	
12-May-21	Wednesday	11-May				Monthly Recalc 27-Apr -29-Apr	Daily Recalc 27-Apr; 29-Apr / Monthly Recalc 27-Apr - 29-Apr
13-May-21	Thursday		11-May	6-May	6-May		
14-May-21	Friday	13-May		Monthly Initial 4-May -6-May		4-May	Daily Initial 4-May; 6-May / Monthly Initial 4-May - 6-May
15-May-21	Saturday						
16-May-21	Sunday						
17-May-21	Monday		13-May				
18-May-21	Tuesday			11-May	11-May	6-May	
19-May-21	Wednesday	18-May				Monthly Recalc 4-May -6-May	Daily Recalc 4-May; 6-May / Monthly Recalc 4-May - 6-May
20-May-21	Thursday		18-May	13-May	13-May		
21-May-21	Friday	20-May		Monthly Initial 11-May -13-May		11-May	Daily Initial 11-May; 13-May / Monthly Initial 11-May - 13-May

Market Simulation Calendar (cont'd)

Summer 2021 Release Calendar (MAP STAGE)
Apr 26, 2021 through May 28, 2021

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

ISO <u>Instructor-Led</u> Training Sessions

Visit caiso.com **Learning Center** web page to access our training calendar, register for courses and find other informational resources: http://www.caiso.com/participate/Pages/LearningCenter/default.aspx

Training Courses and workshops	Date and time
Summer Readiness 2021 Enhancements (Virtual training)	~~April 27, 2021 (9am-11am)~~ April 29, 2021 (9am-11am) – **tomorrow**
FERC 831 Phase 2 (Virtual training)	April 28, 2021 (11am-12:30pm) - **today**
Intro to ISO Workshop (Virtual workshop)	June 8 - 9, 2021 (9am-12pm)
Market Transactions (Virtual workshop)	June 15 -16, 2021 (9am-12pm)
ISO Settlements (Virtual workshop)	June 22 - 23, 2021 (9am-12pm)

If you are unable to attend any of the live trainings, a video file recording of the webinars will be available within three business days after the completion of the training in the ISO Learning Center.

ISO Computer Based Training Programs

Visit caiso.com **Learning Center** web page to access our training calendar, register for courses and find other informational resources: http://www.caiso.com/participate/Pages/LearningCenter/default.aspx

Computer Based Training – Settlements

There are more than 30 computer based training modules on the ISO website covering:	
RC Settlements	http://www.caiso.com/CBT/RC-Settlements/rc-settlements.html#/
Energy Settlements Validation Practice	http://www.caiso.com/CBT/EnergySettlementsValidation/story.html
Settlement Validation Practice	http://www.caiso.com/CBT/Settlements%20Validation%20Practice/story_html5.html
Commitment Costs	http://www.caiso.com/CBT/CommitmentCosts-CBT/story.html
Settlements foundational concepts (EIM)	https://www.westerneim.com/CBT/Settlements%20Foundational%20Concepts/Settlements-FoundationalConcepts.html
Metering Overview	http://www.caiso.com/CBT/MeteringOverview/MeteringOverview.html
Settlements Process	http://www.caiso.com/CBT/SettlementsProcess/story_html5.html
Market Pricing	http://www.caiso.com/CBT/Market-Pricing/story.html
New initiatives training course on the learning center web page and retooling Settlements trainings	

Settlement Corner

Upcoming Topics	Previous Topics	Published Knowledge Articles
• Summer Settlement Release Projects	• Storage- Link • Bid Cost Recovery - Link • FERC 841- requested adjustments – Link • Renewable and energy storage - Link • Fall Release Projects – Link • Transportation electrification and micro grids Link • Hybrid Resource Phase 1b - Link • Real Time Settlement Review 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

Submit topics to us at twitter.com/isosettlements.com

Recent Tweets

https://twitter.com/ISOSettlements

Next SUG Meeting: May 12, 2021

WebEx

Twitter @ISO Settlements

Stay Connected

CAISO.com

Settlementuser @caiso.com

Settlement References

- Settlement User Group Calendar 2021
- Market Simulation New URLs – For MapStage
- Knowledge Articles
- ISO Settlements Twitter Page
- Ways to Participate in Settlements

California ISO

Settlement User Group Calendar 2021

2021

Market Services

Settlement User Group Meetings

Note: dates subject to change; for the latest information please visit the Calendar on www.caiso.com and follow us on Twitter @ISOSettlements

California ISO

| | Meeting | | Agenda posted | | Holiday |

Market Simulation New URLs – For MapStage

- https://sibr.map.caiso.com

- https://bsap.map.caiso.com

- https://rcbsap.map.caiso.com

- https://baaop.map.caiso.com
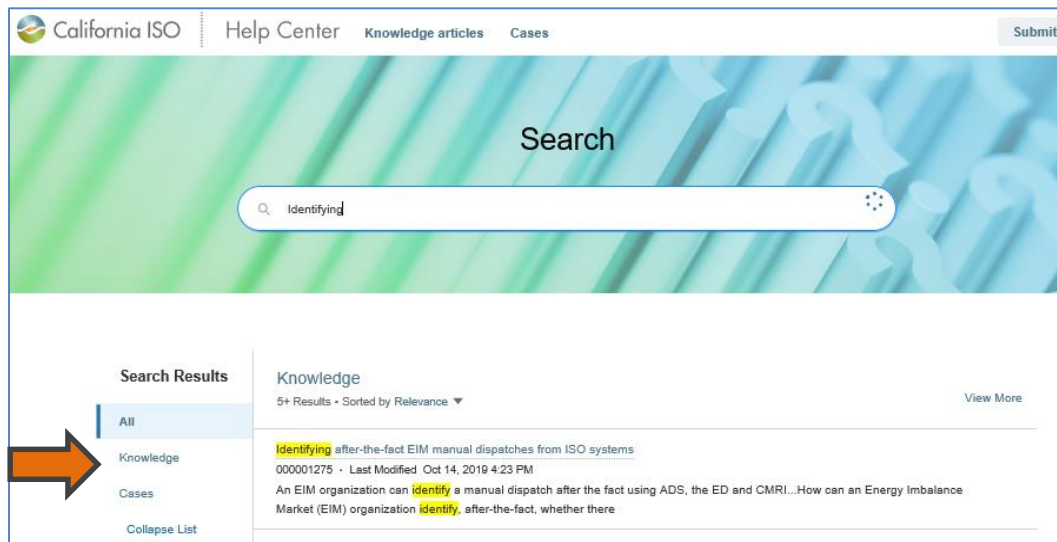
MarketSim@caiso.com

California ISO

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

ISO Settlements Twitter

- Settlement related updates

- Market sim updates

- Note: Will not replace any existing media communications

- Please take the opportunity to follow @ISOSettlements on Twitter by downloading the Twitter application to **any mobile device**

- Twitter feed can be accessed on **any web browser**

- **No account required** to view the Twitter feed and posts

- Save twitter page as a 'Favorite' on your tab

California ISO

Ways to participate in settlements

- ISO Settlements Twitter Page
  - https://twitter.com/isosettlements
- 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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🐦 Follow us on Twitter @ISO Settlements