

Settlement User Group

June 23, 2021

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

Web Conference Information Conference Call Information						
Web Address: <u>https://caiso.webex.com/meet/settlementuser</u> Meeting Number: 961 854 046						
Audio connection instructions will be available after connecting to the web conference. When prompted, select "Call me" and US Toll : 1- 682-268-6591						
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 July 7, 2021. Please m 🛛 Muteur 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 O Chat						
please state your name and affilia	tion. Thank you.					



Settlement User Group Agenda

Wednesday, June 23, 2021

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

Unmute

Time	Торіс	Presenter
 10:00 – 10:02 	 Welcome and Introduction 	Brenda Corona
 10:02 – 11:00 	 Settlements 	
	 Summer/Q2 2021 Settlement Release 	 Elizabeth Caldwell, Luis Cantos
	 Fall/Q3 2021 Settlement Release 	Elizabeth Caldwell
	PRR and BPM updates	Brenda Corona
	 Market Simulation 2021 Updates 	Anshuman Vaidya, Trang Vo
	 Market Simulation Settlement Calendar 	Assad Al-Baijat
	Real Time Settlements Phase 2	Luis Cantos
	 Customer Readiness 2021 Training 	 Radha Madrigal

Summer/Q2 2021 Settlement Release

- Release scope: Summer 2021 Readiness: Make Whole/Uplift Settlement for Economic Bid Hourly Block Resources with FMM Inc Import or FMM Dec Export.
- 1st draft tech docs posted: 4/7
- 1st draft config output file + release component summary + updated tech docs: 4/21
- 2nd draft config output file posted: 5/11
- Market sim in progress: 4/26 7/6
 - Conference calls are bi-weekly, Monday + Thursday
 - Stay current thru <u>Release User Group (RUG)</u>, every other Tuesday 10-11am
 - Next RUG on 6/29
- 3rd draft config output file + updated release component summary posted: 6/22
 - Additional configuration change to CC 6483 to resolve design gap
 - Threshold value applied to CC 6456
 - Executed + published rerun statement for TD 6/4 to demo changes
- Pre-prod configuration output file + release artifacts to post: *revised date 6/25*
- Prod deployment target: 6/29
 - Configuration effective date: **retro**, **6/1** to meet system processing requirements
 - Upstream data flow expected: 6/15, uplift would only calc on or after this date
 - Some TD processing may miss T+9 if uplift occurs, will reflect on T+70B



Fall/Q3 2021 Settlement Release

- Release scope:
 - Projects with Settlement Configuration Changes:
 - ESDER Phase 4
 - Real Time Settlement Review Phase 2
 - Intertie Shadow Pricing Resolution
 - Non-project: outlined in release component summary
- 1st draft tech docs posted: 5/28
- 1st draft config output file + release component summary posted: 6/14
- 2nd draft config output file + updated release component summary to post: **7/21**
- 3rd draft config output file + updated release component summary to post: *revised date* 8/25
- Market sim targeting: revised dates 8/30 10/1
- Pre-prod configuration output file + release artifacts to post: *revised date* **10/20**
- Anticipated prod deployment: *revised date* **10/27**



PRR and BPM Updates

To view all details for the PRRs in the BPM Change Management application

PRR	Title		Status for all
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.	12 configuration guides	PRRs final decisions will be posted by the end of this week.
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	CG CC 6456 Intertie Deviation Settlement	* *
1350	Created 6483 Hour-Ahead Scheduling Process Uplift (HASP) Settlement, and 6484 HASP Uplift Settlement Allocation to accommodate the changes as per the Real Time Market Import & Export Market Incentives during Tight System Conditions Initiative	CG CC 6483 HASP Uplift Settlement CG CC 6484 HASP Uplift Settlement Allocation	

Business Practice Manual Proposed Revision Request Tracking Log



ISO Public

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Fall/Q3 2021 - Settlement Release – PRRs Forthcoming

Project	Charge Codes
Intertie shadow pricing resolution Effective Date: 11/1/2021	6710 Day Ahead Congestion - AS Spinning Reserve Import Settlement v5.4 6715 Real Time Congestion - AS Spinning Reserve Import Settlement v5.3 6720 Day Ahead Congestion - AS Non-Spinning Reserve Import Settlement v5.4 6725 Real Time Congestion - AS Non-Spinning Reserve Import Settlement v5.3 6750 Day Ahead Congestion - AS Regulation Up Import Settlement v5.3 6755 Real Time Congestion - AS Regulation Up Import Settlement v5.3 6760 Day Ahead Congestion - AS Regulation Down Import Settlement v5.4 6765 Real Time Congestion - AS Regulation Down Import Settlement v5.3
	64740 Real-Time Unaccounted for EIM Energy Settlement v5.3 6985 Real Time Marginal Losses Offset v5.7 Real Time Congestion v5.7
Energy storage and distribution energy resources phase 4 Effective date: 11/1/2021	RTM Net Amount v5.36
Short long start definition initiative Effective date: 11/1/2021	RA Availability Incentive Mechanism 5.10.0a CG PC Start-Up and Minimum Load Cost v5.18



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Link to Draft Guides

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Market Simulation Summer 2021 Updates

		<u>Start Date</u> (Trade Date)	<u>End</u> Date	Structured Simulation Start (Trade Date)	Go Live Date
Summer 2021 Release Market Simulation	04/26/21	04/26/21	07/06/ 21	05/10/21	
 Resource adequacy enhancements track 1 Phase 2 – Scenario 3,4,5 OMS Prevention of Extension; Overlapping Outages; Prevention of Curtailment Increase; Ambient Outages 		 Phase 2 – 6/16 OMS Changes - 6/28 		 Phase 2 – 6/17 OMS Changes - 6/28 	 Phase 2- June 30 OMS Changes - July 12
Summer 2021 readiness Phase 3 – Scenario 3,4		Phase 3 – 6/14		Phase 3 - 6/17	Phase 3 – June 30
Summer 2021 readiness Export, wheeling, and load scheduling priorities		6/30	7/6	TBD	By July 15

Presentation - Market Simulation Summer 2021 Release - Jun 21, 2021 Market Simulation Plan -Summer 2021 Release





ISO Public

Market Simulation Initiatives – Summer 2021 Updates

Resource adequacy enhancements track 1

- Structured: Phase 2: June 17
 - Structured Scenarios document <u>http://www.caiso.com/Documents/MarketSimulationResourceAdequacyEnhancementTrack1.pdf</u>

Summer 2021 readiness

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- Structured: Phase 3: June 17
 - Structured Scenarios document -<u>http://www.caiso.com/Documents/MarketSimulationStructuredScenariosSummerReadiness2021.p</u> <u>df</u>



Market Simulation Calendar

<i> </i>	California ISO Summer 2021 Release Calendar (MAP STAGE) Apr 26, 2021 through Jul 6, 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			
07-Jun-21	Monday	4-Jun	3-Jun	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	7-Jun	4-Jun			26-May			
09-Jun-21	Wednesday	8-Jun	7-Jun	2-Jun	2-Jun	27-May			
10-Jun-21	Thursday	9-Jun	8-Jun	3-Jun	3-Jun	Monthly Recalc 25-May -27-May	Daily Recalc 25-May; 26-May; 27-May Monthly Recalc 25-May - 27-May		
11-Jun-21	Friday	10-Jun	9-Jun	4-Jun; Monthly Initial 02-Jun -04-Jun	4-Jun		Daily Initial 02-Jun; 03-Jun; 04-Jun Monthly Initial 02-Jun-04-Jun		
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25-Jun-21	Friday	24-Jun	23-Jun	Monthly Initial 15-Jun -17-Jun		15-Jun	Daily Initial 15-Jun; 17-Jun Monthly Initial 15-Jun -17-Jun		



Market Simulation Calendar (cont'd)

<i> </i>	Californi	a ISO	STAGE)				
Calendar Day	Day	CMRI T+1B	Submit Meter Data by T+2B 10:00 AM for Initial	Publish Initial Statement T+5B	hrough Jul 6, 2021 Submit Meter Data by T+5B 18:00 for Recalc	Publish Recalc Statement T+8B	Publish Market Invoice
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19-Jul-21	Monday					Monthly Recalc 1-Jul -6-Jul	Daily Recalc 1-Jul; 6-Jul Monthly Recalc 1-Jul -6-Jul

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Real Time Settlement Review Phase 2

- To support the Real Time Settlement Review Phase 2 initiative, updating configuration to allow EIM entities using a load derivation approach the option not to settle unaccounted for energy (UFE).
- Charge codes modified:
- Unaccounted for energy (UFE) related changes
 - CC 64740 Real-Time Unaccounted for EIM Energy Settlement v5.3
 - CC 6985 Real Time Marginal Losses Offset v 5.7
 - PC Real Time Congestion v 5.7



ISO Instructor-Led Training Sessions

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

Training Courses and workshops	Date and time
Market Enhancements for Summer 2021 Readiness – Part 3 (Load, export, and wheeling priorities)	June 24, 2021 (10am-11am)
New Process for Submitting Ongoing Obligation Requirements and CIDI	June 24, 2021 (11am-noon)
Energy Storage and Distributed Energy Resources – Phase 4 (Tentative)	August 31, 2021 (9:30am-11:00am)
Short-Long Start Definitions Training (Tentative)	September 7, 2021 (1pm-2:30pm)
Hybrid Resources – Phase 2 (Tentative)	September 9, 2021 (10am-11:30am)
Real-time Settlements Review – Phase 2 (Tentative)	TBD – First week of Sept.
Variable Operations and Maintenance Cost Review (Tentative)	October 14, 2021 (11am – noon)

All Summer Readiness related webinar recordings are available on <u>www.caiso.com</u> in the Learning Center and on the Summer Readiness release page.



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: <u>http://www.caiso.com/participate/Pages/LearningCenter/default.aspx</u>

Computer Based Training – Settlements

There are more than <u>30</u> 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				
Full Network Model	http://www.caiso.com/CBT/FullNetworkModel/FullNetworkModel.html				
New initiatives training course on the learning center web page and retooling Settlements trainings					

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Settlement Corner

 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 FERC 841- requested adjustments – Link Settlement 	Upcoming Topics	Previous Topics	Published Knowledge Articles
Real Time Settlement Review <u>Link</u>		 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 	 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



Submit

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





Settlement User Group Calendar 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

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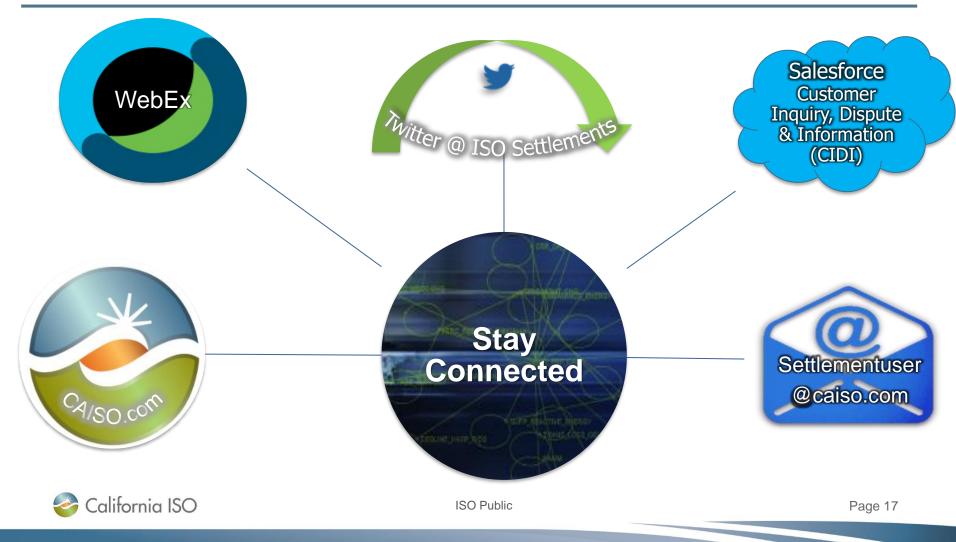
Agenda posted

Holiday



Next SUG Meeting: July 7, 2021

at 10:00 A.M



Settlement References

- Settlement User Group Calendar 2021
- Knowledge Articles
- ISO Settlements Twitter Page
- Ways to Participate in Settlements



Settlement User Group Calendar 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

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Agenda posted

Holiday



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.

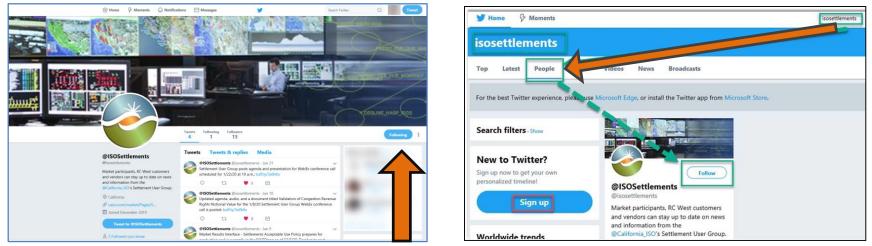
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Posted Knowledge Articles to date:

- 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. <u>Nodal Pricing Model Report</u> v1

ISO Settlements Twitter

- Settlement related updates
- Market sim updates
- Note: Will not replace any existing media communications
- Please take the opportunity to follow <u>@ISOSettlements on Twitter</u> 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





ISO Public

Ways to participate in settlements

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



Settlement User Group

Thank you for participating in our call



