

Settlement User Group



November 11, 2020

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

Web Conference Information	Conference Call Information
Web Address: https://caiso.webex.com/meet/settlementuser	Dial-in Number: (866) 528-2256
Meeting Number: 961 854 046 Audio connection instructions will be available after	International Dial-in: (216) 706-7052
connecting to the web conference. When prompted, select "Call me" and enter your phone number you will use during the call. You will be called by the conference shortly.	Access Code: 673 78 64
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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 copy.

The recording will be posted on our website and be available for a short period of time until Nov 25, 2020.

Please mute your phone and do not put it on hold while the discussion is going on in order to eliminate background noise. There will be an opportunity to ask questions after each topic, but before asking your question,

please state your name and affiliation. Thank you.

<u>mute</u>

ISO Public

Settlement User Group Agenda

Wednesday, November 11, 2020



Time	Topic	Presenter
■ 10:00 – 10:05 ■ V	Velcome and Introduction	■ Tyler DuBeshter
■ 10:05 – 11:00 ■ S	 RC Services Update Q4 2020 - Settlement Release Milestones Independent Market Simulation Winter Market Simulation Settlement Updates PRR and BPM Update Customer Readiness- Trainings for 2021 	 Karen Voong Elizabeth Caldwell Trang Vo Assad Al- Baijat Brenda Corona Rashele Wiltzius



RC Services update

RC Services

- Informational Statement timeline:
 - COMPLETED: Customers external to CAISO BAA submit 2019 NEL/NG data in MRI-S between
 - 9/3/2020 9/30/2020
 - COMPLETED: Informational Statement will publish 10/30/2020
 - Customer review and re-submit 2019 data (if needed) by 11/30/2020
- Statement and Invoice published on 01/04/2021
 - Payment is due by 02/03/2021
 - Note: there are some due date exceptions per contract
- RC West Payment Calendar: http://www.caiso.com/Documents/RCWestAnnualPaymentsCalendar.pdf

HANA Services

No updates



Winter/Q4 2020 – Settlement Release Milestones

- Release Scope:
 - Day Ahead Nodal (NPM project)
 - Intertie Deviation Settlement (IDS)
 - EIM Enhancement: Symmetrical Wheeling
 - Production defects as noted in release component SUG email
- 1st draft technical documentation posted 8/10
- 1st draft configuration output file + initial release component summary to post 8/25
- 2nd draft configuration output file + 2nd draft tech docs + updated release component summary posted 9/14
- 3rd draft configuration output file (pre market sim) posted 10/9
- Unplanned draft configuration output file posted 10/29
 - IDS calc granularity change from MW to MWh
- Market sim in progress: please stay informed by participating in both:
 - Market Simulation web conferences each Monday & Thursday 2-3pm
 - Release User Group (RUG) web conference, every other Tuesday 10-11am
- Pre-prod configuration output file + release artifacts to post 12/9
- Production deployment 12/16



Independent Market Simulation

- Visit CAISO.com at Stay Informed>Release Planning>Independent 2020
- Upcoming meeting will be on Thursday, November 12 at 2pm and extending to end of November no meeting on Thanksgiving.

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Web Conference Information

Web address: https://caiso.webex.com/meet/MarketSim,

Meeting number: 962 067 710

Audio connection instructions will be available after connecting to the web conference. When prompted, select "Call me" and enter the phone number you will use during the call. You will be called by the conference shortly.

Conference Call Information

Dial-in Number: 866-528-2256

International Dial-in: 216-706-7052

Access Code: 202 249 0





Winter Market Simulation Settlements Updates

Market Simulation Calendar - Winter 2020 Release Oct 05, 2020 through Nov 13, 2020

Calendar	Day	CMRI	Submit Meter Data by T+3B 18:00 for	Publish Initial Statement	Submit Meter Data by T+6B 18:00 for	Publish Recalc Statement	
Day	Day	T+1B	Initial	T+6B	Recalc	T+9B	Publish Market Invoice
			T+9B	T+9B	T+70B	T+70B	
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04-Nov-20	Wednesday					Monthly Recalc 20-Oct - 21-Oct	Daily Recalc 13-Oct, 14-Oct
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						Monthly Recalc 10-Nov - 12-Nov	



Winter Market Simulation Settlements Updates



MarketSim@caiso.com

Day Ahead Nodal Pricing Model

- Timeline: October 6 –October 30 (CMRI)
- Structured: October 20 -October 22
- Structured Scenarios document http://www.caiso.com/Documents/NPM_structured_mktsim-Reviewed.pdf

Intertie Deviation Settlement

- Timeline: December 1-December 18
- Structured: October 27
- Please use https://demo.caiso.tag.oati.com/ to submit tags in Map Stage environment
- Structured Scenarios document http://www.caiso.com/Documents/MarketSimulationScenariosIntertieDeviationSettlement.pdf

Symmetrical Wheeling

Timeline: November 12 –November 30

Unstructured Scenarios document -

http://www.caiso.com/Documents/MarketSimulationScenariosSymmetricalSettlementForWheelingThroughEimBAAs.pdf

EIM Enhancements 2020

- Timeline November 16-November 30 (CMRI)
- Unstructured Scenarios document
 http://caiso.com/documents/marketsimulationscenariosenergyimbalancemarket2020enhancements.pdf

California ISO

PRR	Title	ВРМ	Status for all
1292	To support the Intertie Deviation Settlement initiative, configuration revisions to incentivize acceptance and delivery of intertie market awards to reduce adverse impact to grid stability and market pricing.	BPM - CG CC 6455 Intertie Schedules Decline Charges v5.9 BPM - CG CC 6456 Intertie Deviation Settlement v5.0 BPM - CG CC 6457 Intertie Schedules Decline Charges Allocation v5.1a BPM - CG CC 6458 Intertie Deviation Settlement Allocation v5.0 BPM - CG PC System Resource Deemed Delivered Energy Quantity v5.4 BPM - CG PC ETC TOR CVR Quantity v5.7	 ✓ Market notice was sent 10/30/20 ✓ Initial comments expire on 11/13/20 ✓ BPM Meeting on 11/17 at 11 a.m.
1293	To support the anticipated changes stemming from the EIM Enhancements 2020 initiative, configuration revisions to provide symmetrical settlement for wheeling through EIM BAAs by settling all Base ETSR schedule deviations at an EIM BAA intertie at an SP-Tie LMP.	BPM - CG PC Real Time Congestion_5.5 BPM - CG PC Real Time Energy Quantity_5.22.1 BPM - CG CC 6985 Real Time Marginal Losses Offset v5.5	



PRR and BPM Updates (con't)

PRR	Title	ВРМ	Status for all
1294	To support the Day-ahead nodal pricing model (NPM) initiative, configuration revisions to provide advisory settlement for NPM resources and SCs that participate in the NPM which ensure no commingling with financially binding settlement.	BPM - CG CC 6455 Intertie Schedules Decline Charges v5.9 BPM - CG CC 6456 Intertie Deviation Settlement v5.0 BPM - CG CC 6457 Intertie Schedules Decline Charges Allocation v5.1a BPM - CG CC 6458 Intertie Deviation Settlement Allocation v5.0 BPM - CG PC System Resource Deemed Delivered Energy Quantity v5.4 BPM - CG PC ETC TOR CVR Quantity v5.7	✓ Market notice was sent 10/30/20 ✓ Initial comments expire on 11/13/20 ✓ BPM Meeting on 11/17 at
1295	To support the slow demand response enhancement, documentation changes to include business rule for comparing resource locational marginal price to day ahead bid price for slow demand response resources in cases where exceptional dispatch type of non TModel Exceptional Dispatch Type, which result to a document only change and utilizing current active settlement configuration	BPM CG CC 6470 Real Time Instructed Imbalance Energy Settlement	11 a.m.

PRR	Title	ВРМ	Status for all
1296	Retroactive configuration adjustment to RMR capacity payments to ensure that RUC commitment costs are considered in the calculation for the combined RUC and RTM excess revenues.	BPM – CG PC RTM Net Amount v5.34.1 BPM – CG PC RTM Net Amount v5.35.1	✓ <u>Market</u> <u>notice</u> was sent
1297	To support the excess behind the meter production initiative, configuration enhancements to account for new energy measurement type excess behind the meter production and to settle charges to non-participating load.	BPM CG CC 6046 Over and Under Scheduling EIM Allocation BPM CG CC 6474 Real-Time Unaccounted for Energy Settlement BPM CG CC 6788 Real Time Market Congestion Credit Settlement BPM CG PC Ancillary Services BPM CG PC Measured Demand Over Control Area Excl MSS Energy BPM CG PC Measured Demand Over Control Area BPM CG PC MSS Deviation Penalty Quantity BPM CG PC Real Time Energy Quantity BPM CG PC ETC TOR CVR Quantity	10/30/20 ✓ Initial comments expire on 11/13/20 ✓ BPM Meeting on 11/17 at 11 a.m.
1298	Updated settlement and billing business practice manual for market settlements timeline transformation initiative	Settlements and Billing BPM v26	
1299	Retroactive configuration correction to the Spin/Non-Spin No Pay quantity calculation that ensures accurate accounting for fast start units deemed offline in real time.	BPM - CG PC Spin Non-Spin No Pay Quantity v5.20.1 BPM - CG PC Spin Non-Spin No Pay Quantity v5.21.1 BPM - CG PC Spin Non-Spin No Pay Quantity v5.22.1	
1300	Updated charge code 6045 over and under scheduling energy imbalance market settlement in the business rules to align with incremental price is applied for under scheduling with current configuration	CG CC 6045 Over and Under Scheduling EIM Settlement 5.0a CG CC 6045 Over and Under Scheduling EIM Settlement 5.1b CG CC 6045 Over and Under Scheduling EIM Settlement 5.2b	

Settlement Corner

Upcoming Topics	Previous Topics	Published Knowledge Articles
 Intertie Deviation Settlements Asymmetrical Wheeling Hybrid Policy Day Ahead Nodal 	 Storage- <u>Link</u> Bid Cost Recovery - <u>Link</u> FERC 841- requested adjustments – <u>Link</u> Renewable and energy storage - <u>Link</u> Fall Release Projects – <u>Link</u> Transportation electrification and micro grids <u>Link</u> 	 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 - New

Submit topics to us: <u>twitter.com/isosettlements.com</u>





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

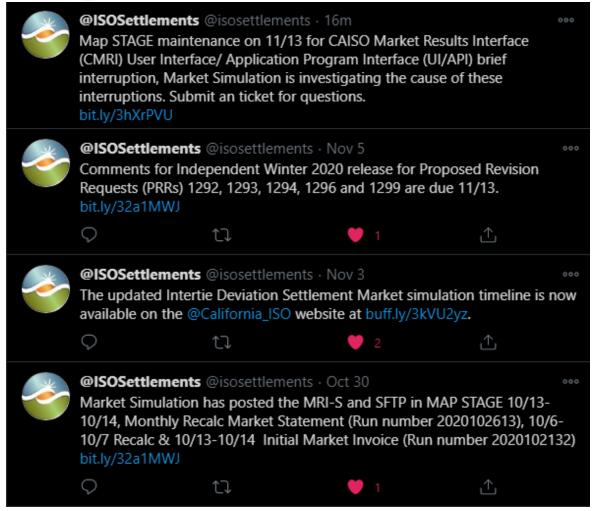
Computer Based Training – Settlements					
There are more than <u>30</u> computer based training modules on the ISO website covering:					
RC Customer Settlements http://www.caiso.com/CBT/RC-Settlements/index.html					
Energy Settlements Validation Practice	http://www.caiso.com/CBT/EnergySettlementsValidation/story.html				
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				

Webinars	
Welcome to the ISO (Webinar)	January 14, 2021
Intro to ISO Workshop (Virtual workshop)	March 2-3, 2021 (9am-12pm)
Market Transactions (Virtual workshop)	March 9-10, 2021 (9am-12pm)
ISO Settlements (Virtual workshop)	March 16-17, 2021 (9am-12pm)



Recent Tweets









Upcoming WebEx Update

Current audio conferencing Dial-in information and phone numbers **will change** and it will take place <u>early December 2020.</u>

- We plan to tweet the details
- We will update the CAISO Calendar
- No change to WebEx URL: https://caiso.webex.com/meet/settlementuser

Current Dial In information (Will change in early December)

Dial-in Number: (866) 528-2256

International Dial-in Number: (216) 706-7052

Access Code: 673 78 64





Settlement User Group Calendar

2020

Market Services

Settlement User Group Meetings

Note: dates subject to change; for the latest information please visit the Calendar on www.caiso.com.

3 MEETINGS LEFT THIS YEAR





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Meeting



Agenda posted



Will present 2021 calendar soon

Next SUG: November 25, 2020

at 10:00 A.M













Settlement References

- SUG meeting calendar for 2020
- Release Training Information for Settlements
- Knowledge Articles
- ISO Settlements Twitter Page
- Ways to Participate in Settlements



Settlement User Group Calendar

2020

Market Services

Settlement User Group Meetings

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3 MEETINGS LEFT THIS YEAR





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Meeting



Agenda posted



Holiday

Release Training Information for Settlements

Project Presentation Links

<u>Hybrid Resources Phase 1</u>

<u>Intertie Deviation Settlement</u>

EIM Enhancements 2020

Excess Behind the Meter Production

<u>Market Settlement Timeline Transformation</u>

<u>FERC 841 – Requested Adjustments</u>

Energy Storage and Distributed Energy Resources 3B

Commitment Costs and Default Energy Bid Enhancements

Access Video to trainings on http://www.caiso.com/participate/Pages/LearningCenter/default.aspx





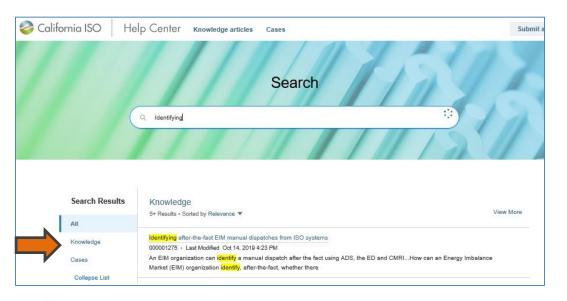
Knowledge Articles

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 -New
- Calculation of meter data for TG resources –New
- Pricing node (Pnode) price used for CRR Settlement – New



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







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 PRR 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

Follow us on Twitter @ISO Settlements



