

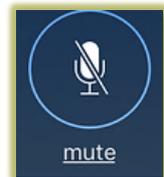


Settlement User Group

May 27, 2020

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

Web Conference Information	Conference Call Information
<p>Web Address: https://caiso.webex.com/meet/settlementuser</p> <p>Meeting Number: 961 854 046</p> <p>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.</p>	<p>Dial-in Number: (866) 528-2256</p> <p>International Dial-in: (216) 706-7052</p> <p>Access Code: 673 78 64</p>
<p>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.</p> <p>The recording will be posted on our website and be available for a short period of time until June 10, 2020.</p> <p>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.</p>	



Settlement User Group Agenda

Wednesday, May 27, 2020

10:00 a.m. – 11:00 a.m. Pacific Time

Time	Topic	Presenter
▪ 10:00 – 10:05	▪ Welcome and Introduction	▪ Tyler DuBeshter
▪ 10:05 – 11:00	▪ Settlements <ul style="list-style-type: none">– Market Settlement Timeline Transformation updates– CRR 1b Post Implementation– Fall 2020 – Settlement Release Milestones and Scope– Q4 2020-Settlement Release Scope– PRR and BPM Updates	▪ Karen Voong ▪ Jeremy Malekos
	▪ Customer Service Spotlight On: EIM <ul style="list-style-type: none">– ISO Webinars– New EIM Settlements Training Resources	▪ Brenda Corona ▪ Rashele Wiltzius
	▪ Settlement Corner <ul style="list-style-type: none">– New Knowledge Articles	▪ Jonas Cruz and Uma Ramanathan

Market settlement timeline transformation (MSTT) updates

Draft Tariff Language posted on May 20, 2020

- <http://www.caiso.com/StakeholderProcesses/Market-settlement-timeline>
- Please submit comments to initiativecomments@caiso.com by **June 3, 2020**
- Meeting Details:
 - Date: June 5, 2020
 - Time: 10 a.m. - 12 p.m. Pacific Time
- Participation Information
 - Step 1: call 1-877-369-5230, access code: 0877526##
 - Step 2: [join web conference](#)
 - Technical support: call the AT&T Help Desk at 1-888-796-6118

Draft CAISO Payment Calendar will be posted on Friday, May 29, 2020

CRR 1b Post Implementation

Summary of change:

- **Issue:** CRR options are not receiving adequate payment for their CRR. This issues is due to the netting of notional values across time intervals when the option is in the counter flow vs. flow direction. The CRR option should receive a payment in the flow direction and not receive a payment when the sink exceeds the source.
- **Solution:** This enhancement will run prior to the CRR1B calculation process. The source and sink MCCs shall be compared for each option CRR and each hour. If the value of sink MCC -source MCC is positive, then the CRR shall be included in the CRR1B calculations for that hour. If the value is zero or negative, then the CRR shall not be included. This shall be an hour by hour comparison. A possible outcome is that an option CRR is considered in CRR1B for some hours but not all hours.

–This change will be effective **1/1/2019**, **Production deployment 6/3/2020**

Fall 2020 - Settlement Release Milestones

Initial Release Milestones as follows:

- 1st draft technical documentation to post = 5/29: *ON TRACK*
- 1st draft configuration output file + initial release component summary
ETA = 6/15: *ON TRACK*
- Post 2nd draft technical documentation updates + initial FERC 841= 6/26
- 2nd draft configuration output file + updated release component summary
ETA = 7/24
- Fall release market sim
 - connectivity start scheduled for 7/27
 - please stay informed by participating in [Release User Group](#) (RUG)



Fall 2020 - Settlement Release Scope

Project	Charge Codes/Impacts
Excess behind the meter production (EBTMP)	6046 6474 6788 Ancillary Services PC Measured Demand Over Control Area Excluding MSS Energy PC Measured Demand Over Control Area PC MSS Deviation Penalty Quantity PC MSS Netting PC Real Time Energy Quantity PC ETC_TOR_CVR QTY PC
Effective date: 1/1/2021	
Intertie deviation settlement – implementation (IDS)	6455 (Terminated) 6457 (Terminated) 6456 (New) 6458 (New) System Resource Deemed Delivered Energy Quantity PC
Effective date: 10/1/2020	
Energy storage and distributed energy resources (ESDER 3B)	Spin Non Spin No Pay Quantity PC RUC No Pay Quantity PC
Effective date: 10/1/2020	



Fall 2020 - Settlement Release Scope (cont.)

Project	Charge Codes/Impacts
Market settlement timeline transformation (MSTT)	6474* 64740*
Effective date: 1/1/2021	Real Time Energy Quantity PC*
	*These are design only. Configuration Guide change not expected for these charge codes but will be reflected have daily initial runs that include UFE (CC 6474, 64740), MSS Deviation Penalties (CC 1407, 2407), EIM Transfers and EIM Bid Cost recovery uplift allocation.
FERC Order No. 841 – requested adjustment	IFM Net Amount PC RTM Net Amount PC
Effective date: 10/1/2020	Real Time Energy Quantity PC RUC Net Amount PC
ADS Replacement	<i>No Settlement configuration impact; MRI-S only: ADS data will only be available for 30 days, Market participants will need to download and store this data beginning 10/1/2020.</i>



Q4 2020 - Settlement Release Scope

Project	Charge Codes
Day Ahead Nodal Model Pricing Project	6011
	6790
	6947
	6630
	6636
	6637
Effective Date: 1/1/2021	4515
	4560
	Nodal Pricing Model PC

Subject to change

PRR and BPM Updates

PRR	Title	BPM	Stage
1244	Updated BPM configuration guide for CC 6045 Over and Under Scheduling EIM Settlement to align the documentation with current active settlement configuration	CC 6045 Over and Under Scheduling EIM Settlement 5.1a and 5.2a	Initial expired on 5/19- recommendation

- Next BPM PRR review monthly web conference meeting is on Tuesday, June 23, 2020 at 11 AM



ISO Computer Based Training Programs

Visit [caiso.com](http://www.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 20 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

Webinar

ISO Customer Readiness trainers have cancelled in person trainings

Welcome to the ISO July 9, 2020

ISO Training Workshop August 18 – 20, 2020
(Day 3 Settlements)

New initiatives training courses on the learning center web page



CustomerReadiness@caiso.com

Customer Readiness Spotlight On...

Settlements Foundational Concepts (EIM)

- Settlements Basics
- Validating Settlements
- Resolving Common Settlements Issues



Settlements - Foundational concepts

Settlement basics: Locational marginal price components

The locational marginal price, or LMP, is the market clearing price used to pay or charge for energy produced or consumed. It is determined for each node taking into account energy, congestion, loss and greenhouse gas cost.

Click each icon to learn more about these requirements.

Locational Marginal Price

System marginal energy cost + Marginal cost of congestion + Marginal cost of losses + Greenhouse gas component

Settlements - Foundational concepts

Validating settlements: Validation reports

California ISO Market Results

Day-Ahead Ancillary Services

Start Date: 03/08/2015
End Date: 03/08/2015

Report Generated: 03/08/2015 10:31:59

Settlements - Foundational concepts

Settlement charges: What happens if...

Joe missed a payment due date last week. He needs to figure out how to read the Payment Calendar so this won't happen again.

Click the correct answer to solve Joe's problem.

[View the Payment Calendar](#)

Joe received an invoice on Wednesday, January 18th. What is his payment due date?

The payment is due no later than Tuesday, January 24th at 10:00am.

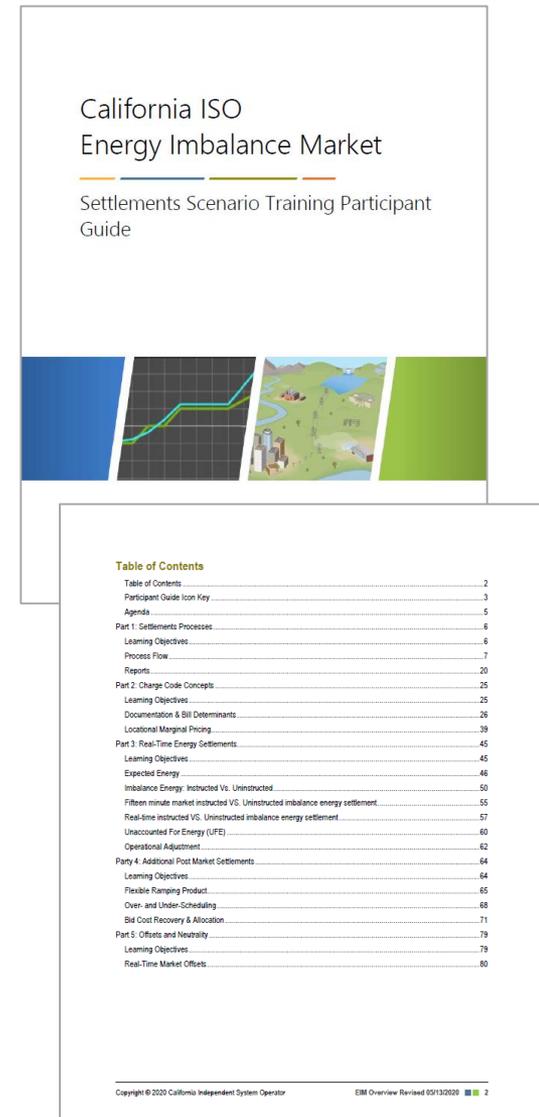
The payment is due no later than Tuesday, January 17th at 10:00am.

The payment is due on the same day received, Wednesday January 18th, no later than 10:00am.

New EIM Settlements Training Resources

New Train-the-Trainer toolkit

- PowerPoint, participant guide, skill assessment and key, learning activity, training admin documents, etc.
- Available through Accellion
- Provided after Train-the-Trainer attendance (or in July for all other EIM customers)
 - Train-the-Trainer dates:
 - June 15th – June 18th
 - June 22nd – June 25th
 - July 6th – July 9th
 - Settlements training done on Day 3
- Recording of EIM Settlement Train-the-Trainer recording available on Accellion in Toolkit
- Email us (CustomerReadiness@caiso.com) for registration or Accellion access information



Settlement Corner: New knowledge articles

- One Knowledge Article is to help market participants to understand the data points to validate Mitigated prices in DA, RTPD (FMM) and RTD.
 - **Understanding the data points to validate prices in Day-Ahead (DA), Real-Time Pre-Dispatch (RTPD) and RT Dispatch (RTD) that were mitigated through the Market Power Mitigation (MPM) process**
 - [Link](#)
- Second Knowledge Article is to help market participants to understand the data points for the calculation of meter data for TG resources.
 - **How is the meter quantity derived for a Dynamic resource modeled as Tie Generator (TG)?**
 - [Link](#)
 - Please refer to slide 18 for accessing knowledge articles in CIDI

We are requesting topics

Topics

- Real Time Storage
- No Pay
- Hybrid Policy
- Fall Release Projects

Previous Topics

- Storage- [Link](#)
- Bid Cost Recovery - [Link](#)

⌘ Submit topics to us: twitter.com/isosettlements.com

Submit



Next SUG: June 10, 2020

Contact for questions & agenda requests: settlementuser@caiso.com

Stay connected



Follow us
@ISOSettlements



Download ISO Today
mobile app



Daily Briefing at
www.caiso.com



[Sign up](#) for
Flex Alerts

Settlement References

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

Ways to participate in settlements

- ISO Settlements Twitter Page
 - <https://twitter.com/isosettlements>
 - Additional information see slide 16 and 17
- Visit the Settlements page
 - <http://www.caiso.com/market/Pages/Settlements/Default.aspx>
- Attend web conference meetings
 - Settlement User Group (SUG) bi-weekly meetings
 - Settlement only status updates
 - Initiative status with settlement updates
 - System change with settlement updates on independent releases
 - <http://www.caiso.com/Pages/documentsbygroup.aspx?GroupID=ECD8A9C2-07CA-488C-8D1C-9F758595B487>
 - 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>

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

The screenshot shows the California ISO Help Center interface. At the top, there are navigation links for 'California ISO', 'Help Center', 'Knowledge articles', and 'Cases'. A search bar is prominently displayed with the text 'Identifying' entered. Below the search bar, the search results are shown. On the left, there is a sidebar with 'Search Results' and a list of categories: 'All', 'Knowledge', 'Cases', and 'Collapse List'. An orange arrow points to the 'Knowledge' category. The main content area shows the search results for 'Identifying', with the first result highlighted: 'Identifying after-the-fact EIM manual dispatches from ISO systems'. The result includes a date and time: '000001275 · Last Modified Oct 14, 2019 4:23 PM'. The description of the article is: 'An EIM organization can identify a manual dispatch after the fact using ADS, the ED and CMRI...How can an Energy Imbalance Market (EIM) organization identify, after-the-fact, whether there

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](https://twitter.com/ISOSettlements) 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



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.



California ISO

January						
S	M	T	W	T	F	S
			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	

February						
S	M	T	W	T	F	S
						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

March						
S	M	T	W	T	F	S
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				

April						
S	M	T	W	T	F	S
			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						
S	M	T	W	T	F	S
					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						

June						
S	M	T	W	T	F	S
	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				

July						
S	M	T	W	T	F	S
			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	

August						
S	M	T	W	T	F	S
						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					

September						
S	M	T	W	T	F	S
		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			

October						
S	M	T	W	T	F	S
				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

November						
S	M	T	W	T	F	S
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					

December						
S	M	T	W	T	F	S
		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		

Meeting
 Agenda posted
 Holiday

Settlement User Group

Thank you for participating in our call

Follow us on Twitter



@ISO Settlements