

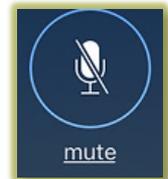


Settlement User Group

June 10, 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 25, 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, June 10, 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	
	– CRR1b Post Implementation	▪ Jeremy Malekos
	– Fall 2020 – Settlement Release Milestones and Scope	▪ Elizabeth Caldwell
	– Q4 2020 - Settlement Release Scope	
	– Draft Fall Release Market Simulation Settlements Calendar	▪ Assad Al-Baijat
	– PRR and BPM Updates	▪ Brenda Corona
	▪ Settlement Corner	
	– New Knowledge Article: Energy Transfer System Resource (ETSR)	▪ Manoj George
	▪ Customer Readiness Spotlight on: Commitment Costs	▪ Rashele Wiltzius

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 6/24/2020**

Fall 2020 - Settlement Release Milestones

Initial Release Milestones as follows:

- 1st draft technical documentation posted = **5/29**
- 1st draft configuration output file + initial release component summary
ETA = **6/15**: *ON TRACK*
 - All fall projects except FERC 841
- 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 Quantity 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) Effective date: 1/1/2021	6474* 64740* Real Time Energy Quantity PC*
ADS Replacement	<p>*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.</p> <p><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></p>



Fall 2020 - Settlement Release Scope (cont.)

Project

Charge Codes/Impacts

FERC Order No. 841 –
requested adjustment

Effective date: 10/1/2020

6011

6460

6470

6474

6475

6482

6488

6824

64600

64700

64740

64750

IFM Net Amount PC

RTM Net Amount PC

Real Time Energy Quantity PC

RUC Net Amount PC

Commitment Cost Enhancement Tariff
Clarifications

Effective Date: 7/1/2020

RAAIM PC



Q4 2020 - Settlement Release Scope

Project

Charge Codes

Day Ahead Nodal Model Pricing
Project

Effective Date: 1/1/2021

6011
6790
6947
6630
6636
6637
4515
4560

Nodal Pricing Model PC

Asymmetrical Wheeling

Effective Date: 1/1/2021

CCs will be communicated at upcoming SUG meeting

Draft Fall Release Market Simulation Settlements Calendar

Connectivity is scheduled to run from 7/27 to 8/7

Structured scenarios will run 8/10 – 8/21

Unstructured from 8/24 to 9/4

Market Simulation Calendar - Fall 2020 Release

Jul 27, 2020 through Sep 4, 2020

Calendar Day	Day	CMRI T+1B		Publish Initial Statement T+4B	Meter Data Due T+4B Statement	Publish Initial statement T+6B	Publish Recalc Statement T+8B	Meter data due for T+70B statement	Publish Recalc Statement T+9B	Publish Market Invoice
			Submit Meter Data by T+3B 18:00 for T+9B Initial	T+3B Initial. Estimated by DReAMS. No Meter Data submission	Submit Meter Data by T+4B 18:00 for Recalc	T+9B Initial. Includes Estimation		Submit Meter Data by T+6B 18:00 for Recalc	T+70B Recalculation	
				INITIAL (Current MSTT)	Current MSTT	INITIAL (New MSTT)	RECALC1 (Current MSTT)	New MSTT	RECALC (New MSTT)	
27-Jul-20	Monday									
28-Jul-20	Tuesday									
29-Jul-20	Wednesday	28-Jul								
30-Jul-20	Thursday	29-Jul								
31-Jul-20	Friday									
01-Aug-20	Saturday									
02-Aug-20	Sunday									
03-Aug-20	Monday			28-Jul	28-Jul					
04-Aug-20	Tuesday			29-Jul	29-Jul					
05-Aug-20	Wednesday			Monthly Initial 28-Jul - 29-Jul						Daily Initial 28-Jul, 29-Jul Monthly Initial 28-Jul - 29-Jul
06-Aug-20	Thursday	4-Aug								
07-Aug-20	Friday	5-Aug								
08-Aug-20	Saturday						28-Jul			
09-Aug-20	Sunday									
10-Aug-20	Monday			4-Aug	4-Aug		29-Jul			
11-Aug-20	Tuesday			5-Aug	5-Aug		Monthly Recalc 28-Jul - 29-Jul			
12-Aug-20	Wednesday			Monthly Initial 4-Aug - 5-Aug						Daily Recalc 28-Jul, 29-Jul Monthly Recalc 28-Jul - 29-Jul Daily Initial 4-Aug, 5-Aug Monthly Initial 4-Aug - 5-Aug
13-Aug-20	Thursday	11-Aug								
14-Aug-20	Friday	12-Aug					4-Aug			

Draft Fall Release Market Simulation Settlements Calendar (cont.)

Market Simulation Calendar - Fall 2020 Release Jul 27, 2020 through Sep 4, 2020

Calendar Day	Day	CMRI T+1B		Publish Initial Statement T+4B	Meter Data Due T+4B Statement	Publish Initial statement T+6B	Publish Recalc Statement T+8B	Meter data due for T+70B statement	Publish Recalc Statement T+9B	Publish Market Invoice
			Submit Meter Data by T+3B 18:00 for T+9B Initial	T+3B Initial. Estimated by DReAMS. No Meter Data submission	Submit Meter Data by T+4B 18:00 for Recalc	T+9B Initial. Includes Estimation		Submit Meter Data by T+6B 18:00 for Recalc	T+70B Recalculation	
24-Aug-20	Monday			18-Aug	18-Aug		12-Aug			
25-Aug-20	Tuesday			19-Aug	19-Aug		Monthly Recalc 11-Aug - 12-Aug			
26-Aug-20	Wednesday			Monthly Initial 18-Aug - 19-Aug						Daily Recalc 11-Aug, 12-Aug Monthly Recalc 11-Aug - 12-Aug Daily Initial 18-Aug, 19-Aug Monthly Initial 18-Aug - 19-Aug
27-Aug-20	Thursday	25-Aug								
28-Aug-20	Friday	26-Aug	25-Aug				18-Aug			
29-Aug-20	Saturday									
30-Aug-20	Sunday									
31-Aug-20	Monday		26-Aug				19-Aug			
01-Sep-20	Tuesday						Monthly Recalc 18-Aug - 19-Aug			
02-Sep-20	Wednesday	1-Sep				25-Aug		25-Aug		
03-Sep-20	Thursday	2-Sep				26-Aug		26-Aug		
04-Sep-20	Friday		1-Sep			Monthly Initial 25-Aug - 26-Aug				
05-Sep-20	Saturday									
06-Sep-20	Sunday									
07-Sep-20	Monday						ISO Holiday			
08-Sep-20	Tuesday		2-Sep						25-Aug	
09-Sep-20	Wednesday									Daily Initial 25-Aug, 26-Aug Monthly Initial 25-Aug - 26-Aug Daily Recalc 18-Aug, 19-Aug Monthly Recalc 18-Aug - 19-Aug
10-Sep-20	Thursday					1-Sep		1-Sep	26-Aug	
11-Sep-20	Friday					2-Sep		2-Sep	Monthly Recalc 25-Aug - 26-Aug	

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	Recommendation expires on 6/16 Next to post Final decision

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





Settlement Corner: Energy Transfer System Resource (ETSR) Knowledge Article

What is an ETSR and how it is settled?

Click on CIDI Link:

https://na120.salesforce.com/_ui/chatter/service/ChatterAnswersUi#!/feedtype=SINGLE_ARTICLE_DETAIL&dc=All&criteria=BESTANSWERS&id=kA03q000000kLH0

We are requesting topics

Upcoming 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



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 *(Day 3 Settlements)* August 18 – 20, 2020

New initiatives training courses on the learning center web page



CustomerReadiness@caiso.com

Customer Readiness Spotlight On...

Commitment Costs

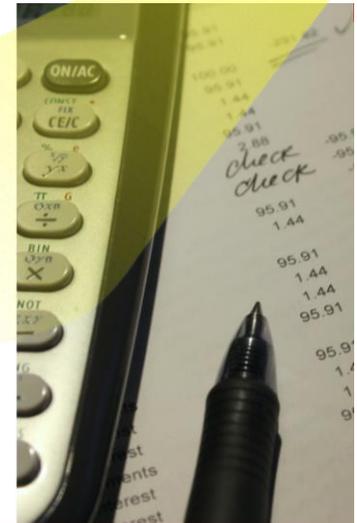
- Commitment Cost Overview
- Understanding Bid Cost Components
- Calculating Bid Cost Recovery



BCR Eligible Resources

Not all resources are eligible for BCR. The table below shows the resource types that may recover some, or all, bid costs.

Resource Type	Eligible Bid Costs
Generators, including Dynamic System Units	All
Intertie imports electing 15-minute scheduling	Energy only
Intertie imports electing hourly bid option	None
Intertie exports	None
Participating load	All (although generally there are no costs associated with participating load)
Non-participating load	None



Calculate the Bid Cost for DA

Click in each box to enter the correct value, then click Submit. *Do NOT enter commas in the boxes.

Start-Up Cost (SUC)

+

Minimum Load Cost (MLC)

+

Energy Bid Cost (DABE x energy bid)

Generator in ISO BA: Unit ABC
Trade Date: 01/01/2019
Trade Hour: 20

Validation Components	What do the acronyms mean?
SUC = \$1,000	Start-Up Costs , from the Master File
MLC = \$800	Minimum Load Cost , from the Master File
DABE = 30 MW	Day-Ahead Bid Awarded Energy , or the amount of energy the ISO requires the resource to produce for the trade hour.
DAMLE = 20 MW	Day-Ahead Minimum Load Energy , or the least amount of energy the resource can produce to perform as expected.
DA Energy LMP = \$10	Locational Marginal Price , or the marginal cost to supply the next megawatt at a specific location on the network.
DA Energy Bid = \$10	The amount the resource wants to be paid for each megawatt supplied.

Notes: Transition costs do not apply; this is not an MSG resource. This resource did not get any other awards for this trade date.

Meet Alex

It seems like a normal day...

Alex, a Settlements Analyst for a Scheduling Coordinator, has just started his day. He's only been in his role for a few months.

Today, Alex is verifying that his records of what happened in the market last Monday match the settlements statements he received from the ISO for the same day.

What is a settlements statement?

The ISO issues settlements statements to market participants listing the charges and payments for market and transmission-related activities for a Trade Date.

Next SUG: June 24, 2020

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

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Settlement References

- Ways to Participate in Settlements
- Knowledge Articles
- New EIM Settlements Training Resources
- 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 *-New*
- Calculation of meter data for TG resources *-New*

California ISO Help Center Knowledge articles Cases Submit a

Search

Identifying

Search Results

All Knowledge Cases Collapse List

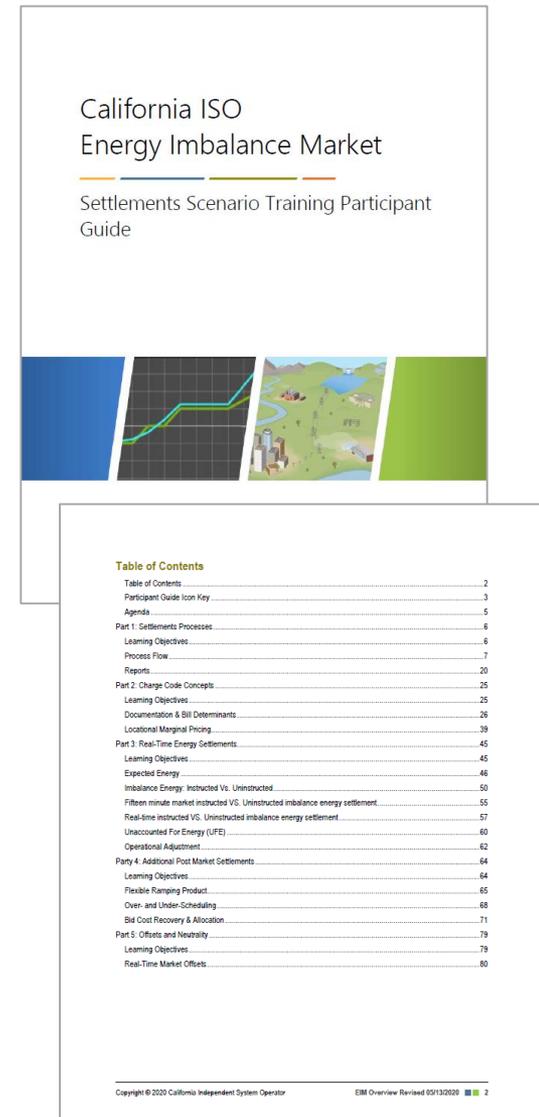
Knowledge
5+ Results - Sorted by Relevance View More

Identifying after-the-fact EIM manual dispatches from ISO systems
000001275 - Last Modified Oct 14, 2019 4:23 PM
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

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



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
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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
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19	20	21	22	23	24	25
26	27	28	29	30		

May						
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17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

June						
S	M	T	W	T	F	S
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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

July						
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			1	2	3	4
5	6	7	8	9	10	11
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26	27	28	29	30	31	

August						
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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

September						
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13	14	15	16	17	18	19
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27	28	29	30			

October						
S	M	T	W	T	F	S
				1	2	3
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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

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