

Settlement User Group

June 24, 2020

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

mute

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

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.

The recording will be posted on our website and be available for a short period of time until July 9, 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.

Settlement User Group Agenda

Wednesday, Ju	ine 24,	2020
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10:00 a.m. - 11:00 a.m. Pacific Time

Time	Topic	Presenter
1 0:00 – 10:05	Welcome and Introduction	Tyler DuBeshter
■ 10:05 – 11:00	Settlements	
	 Peak Reliability Coordinator Charge Refund 	Karen Voong
	 CRR1b Publishing Issue 	raion voong
	 Post Implementation 	Jeremy Malekos
	 Fall 2020 – Settlement Release Milestones and Scope 	Elizabeth Caldwell
	 Q4 2020 - Settlement Release Scope 	Elizabeth Galawell
	 Draft Fall Release Market Simulation Settlements Calendar 	 Assad Al-Baijat
	 PRR and BPM Updates 	Brenda Corona
	 Settlement Corner: FERC Order 841- Requested Adjustments 	Tyler DuBeshter
	 Customer Readiness Spotlight on: Settlement Validation Practice 	Rashele Wiltzius



Peak Reliability Coordinator Charge Refund

- Peak Reliability completed its wind-down and financial management review. As they anticipated, their year-end actuals for 2019 came in under budget.
- Consequently, each California ISO scheduling coordinator that received a 2019 Peak Reliability Coordinator charge invoice is receiving a refund.
- 2017 NERC/WECC Metered Demand was used to calculate the 2019 Peak Reliability Coordinator charges and the refunds will be calculated using the same source.
- The Market Notice for the Peak Reliability Coordinator charge rate for the period of January 1, 2019 to December 31,2019 is available at http://www.caiso.com/Documents/ReliabilityCoordinatorChargeRate-AssessmentYear2019.html



Peak Reliability Coordinator Charge Refund (cont.)

- The ISO issued the Peak Reliability Coordinator refund on June 18, 2020.
- The refund appeared on the Peak Recalculation statement and Peak Invoice under charge code (CC) 6496, with January 1, 2017 as the trade date.
- The files are available on MRI-S and SFTP server by setting the post date to 06/18/2020.
- Statement and invoice file sets are available on MRI-S and SFTP for fortyfive calendar days after publication.
- Refunds will be disbursed by 2:00 p.m. (Pacific Time) on July 2, 2020, pursuant to ISO Tariff section 11.20.9.



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CRR 1b - Publishing Issue

In February 2020, we received a dispute regarding CRR 1b mismatches between CMRI and Settlements. After further research we found 40 TDs were impacted. The corrections will be reflected on the following Settlement statements:

Statement Reflected On	Trade Dates
T+18M	1/24 - 1/25/2019, 1/29 - 1/31/2019
T+18M	2/2/2019, 2/5 - 2/7/2019 and 2/11/2019
T+18M	3/22 - 3/23/2019 and 3/25 - 3/31/2019
T+18M	4/1 - 4/2/2019, 4/4 - 4/7/2019, 4/9 - 4/12/2019 and 4/14 - 4/16/2019
T+18M	5/1/2019, 5/7/2019 and 5/10/2019
T+9M	10/20/2019, 10/24 - 10/26/2019
T+9M	11/3/2019



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 7/8/2020



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 posted = 6/15
 - All fall projects except FERC 841
- Post 2nd draft technical documentation updates = 6/26 ON TRACK
 - To include FERC 841 + MSTT
- 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 <u>Release User Group</u> (RUG)
- Pre-production draft configuration output file + release artifacts planned = 9/22
- Production deployment planned = 9/29



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Fall 2020 - Settlement Release Scope

Project	Charge Codes/Impacts
	6046
	6474
	6788
	Ancillary Services PC
Excess behind the meter production	Measured Demand Over Control Area Excluding MSS
(EBTMP)	Energy PC
Effective date: 1/1/2021	Measured Demand Over Control Area PC
	MSS Deviation Penalty Quantity PC
	MSS Netting PC
	Real Time Energy Quantity PC
	ETC TOR CVR Quantity PC

Intertie deviation settlement – implementation (IDS)

Effective date: 10/1/2020

6455 (Terminated)
6457 (Terminated)
6456 (New)
6458 (New)
System Resource Deemed Delivered Energy Quantity PC



Fall 2020 - Settlement Release Scope (cont.)

Project	Charge Codes/Impacts
Energy storage and distributed energy resources (ESDER 3B) Effective date: 10/1/2020	Spin Non Spin No Pay Quantity PC RUC No Pay Quantity PC RTM Net Amount PC
Market settlement timeline transformation (MSTT) Effective date: 1/1/2021	6474* 64740* 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.
ADS Replacement	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.

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 7070 7071 7077 7081 7087 64600 64700 64740 64750 IFM Net Amount PC REal Time Energy Quantity PC RUC Net Amount PC

Fall 2020 - Settlement Release Scope (cont.)

Project	Charge Codes/Impacts
Commitment Cost Enhancement Tariff Clarifications Effective Date: 7/1/2020	RAAIM PC



Q4 2020 - Settlement Release Scope

Project	Charge Codes/Impacts
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	RT Energy Quantity PC Real Time Congestion PC



Note does not include all projects- settlements only

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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	D	CMRI		Publish Initial Statement	Meter Data Due T+4B		Publish Recalc Statement	Meter data due for T+70B	Publish Recalc Statement	
Day	Day	T+1B		T+4B	Statement	Publish Initial statement T+6B	T+8B	statement	T+9B	Publish Market Invoice
			Submit Meter Data	T+3B Initial. Estimated by						
			by T+3B 18:00 for	DReAMS. No Meter Data	Submit Meter Data			Submit Meter Data		
			T+9B Initial	submission	by T+4B 18:00 for Recalc	T+9B Initial. Includes Estimation		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										
28-Jul-20										
	Wednesday	28-Jul								
30-Jul-20		29-Jul								
31-Jul-20										
01-Aug-20										
02-Aug-20										
03-Aug-20				28-Jul	28-Jul					
04-Aug-20				29-Jul	29-Jul					
05-Aug-20	Wednesday			Monthly Initial 28-Jul - 29-Jul						Daily Initial 28-Jul, 29-Jul
		4-Aug								Monthly Initial 28-Jul - 29-Jul
06-Aug-20		5-Aug								
07-Aug-20							28-Jul			
08-Aug-20										
09-Aug-20										
10-Aug-20				4-Aug	4-Aug		29-Jul			
11-Aug-20				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
		11-Aug								Monthly Initial 4-Aug - 5-Aug
13-Aug-20		12-Aug								
14-Aug-20	Friday						4-Aug			



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Draft Fall Release Market Simulation Settlements Calendar (cont.)

- MSTT Structured scenarios
- will run 8/25, 8/26, 9/1, 9/2

Calendar		CMRI		Bulletine	W . D . D T.4D	Publish Initial statement	Dublick Donalo Statement	Meter data due for T+70B	Dublish Donala Statement	
Day	Day	T+1B		Publish Initial	Meter Data Due T+4B	T+6B	T+8B	statement	T+9B	Publish Market Invoice
Day		ITIU	Submit Meter	Statement	Statement	1700	1700	statement	ITJU	Fublish Halket IIIVoice
			Data	T+3B Initial. Estimated	Submit Meter Data	T+9B Initial. Includes		Submit Meter Data		
			by T+3B 18:00 for	by DReAMS. No Meter	by T+4B 18:00 for Recalc	Estimation		by T+6B 18:00 for Recalc	T+70B Recalculation	
28-Aug-20	Friday		25-Aug	Data submission	by 1+40 to.00 for necalc	LStillation	18-Aug	by 1+00 10.00 for necalc	1+100 necalculation	
29-Aug-20	Saturday		Z5-Aug				io-Aug			
30-Aug-20	Sunday									
31-Aug-20	Monday		26-Aug				19-Aug			
01-Sep-20	Tuesday		20-Mug				Monthly Recalc 18-Aug - 19-Aug			
02-Sep-20	Wednesday	1-Sep				25-Aug	Thomasy records to ring to ring	25-Aug		
03-Sep-20	Thursday	2-Sep				26-Aug		26-Aug		
04-Sep-20	Friday	2 000	1-Sep			Monthly Initial 25-Aug - 26-Aug		20 Hag		
05-Sep-20	Saturday		1 000							
06-Sep-20	Sunday									
07-Sep-20	Monday		-			ISO F	lolidag			
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
									26-Aug	Monthly Recalc 18-Aug - 19-Aug
10-Sep-20	Thursday					1-Sep		1-Sep	Monthly Recalc 25-Aug - 26-Aug	
11-Sep-20	Friday					2-Sep		2-Sep		
12-Sep-20	Saturday									
13-Sep-20	Sunday									
14-Sep-20	Monday					Monthly Initial 01-Sep - 02-Sep				
15-Sep-20	Tuesday									
16-Sep-20	Wednesday									Daily Initial 01-Sep , 02-Sep
										Monthly Initial 01-Sep - 02-Sep
										Daily Recalc 25-Aug, 26-Aug
49.0									1-Sep	Monthly Recalc 25-Aug - 26-Aug
17-Sep-20	Thursday								2-Sep	
18-Sep-20	Friday								Monthly Recalc 01-Sep - 02-Sep	Daily Recald 01-Sep., 02-Sep
10.0 00	0.5									Monthly Recalc 01-Sep - 02-Sep
19-Sep-20	Saturday									
20-Sep-20	Sunday									



PRR and BPM Updates

PRR	Title	ВРМ	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	Post Final decision this week

Next BPM PRR review monthly web conference meeting is on Tuesday, July 28, 2020 at 11 AM
 No BPMs for Settlement and Billing PRRs will be discussed at this meeting



<u>Business Practice Manual Proposed Revision Request Tracking Log</u> available to view current PRR in progress and completed



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Settlement Corner: FERC 841- Requested Adjustments

Business Drivers:

- Where a UDC or retail utility does not separate out wholesale and retail charges, a storage resource may be subject to duplicative billing
- FERC-directed requirement to ensure storage resources are not billed twice
- CAISO Tariff change removes wholesale settlement charges for storage resources, where the storage resource is drawing energy from the grid (i.e., negative energy)



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Settlement Corner: FERC 841- Requested Adjustments (cont.)

FERC Order No. 841 – requested adjustment Effective date: 10/1/2020 FERC Order No. 841 – Requested adjustment Effective date: 10/1/2020 Effective date: 10/1/2020 RTM Net Amount PC Real Time Energy Quantity PC RUC Net Amount PC			
FERC Order No. 841 – requested adjustment Effective date: 10/1/2020 FERC Order No. 841 – 64740 64750 IFM Net Amount PC RTM Net Amount PC Real Time Energy Quantity PC	Project	Scope/Charge Codes/Impacts	
	requested adjustment	64700 64740 64750 IFM Net Amount PC RTM Net Amount PC Real Time Energy Quantity PC	



Settlement Corner: FERC 841- Requested Adjustments (cont.)

Project	Scope/Charge Codes/Impacts
FERC Order No. 841 – requested adjustment Effective date: 10/1/2020	6011 6460 6470 6474 6475 6482 6488 6824 7070 7071 7077 7081



We are requesting topics

Upcoming Topics	Previous Topics	Published Knowledge Articles
Real Time StorageNo PayHybrid PolicyFall Release Projects	 Storage- <u>Link</u> Bid Cost Recovery - <u>Link</u> 	 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) –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 20 computer based training modules on the ISO website covering:							
RC Customer Settlements	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	
ISO Customer Readin have cancelled in per- trainings	
Welcome to the ISO	July 9, 2020
ISO Training Workshop (Day 3 Settlements)	August 18 – 20, 2020
New initiatives training cou	rses on the



learning center web page

CustomerReadiness@caiso.com



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Release Training Information for Settlements

Project Name	Current Training Date
Intertie Deviation Settlement	07/20/2020
Excess Behind the Meter Production	07/21/2020
Market Settlement Timeline Transformation	07/20/2020
EIM Enhancements 2020	07/23/2020
FERC 841 – Requested Adjustments	07/15/2020
Hybrid Resources Phase 1	3 rd quarter before Market Sim

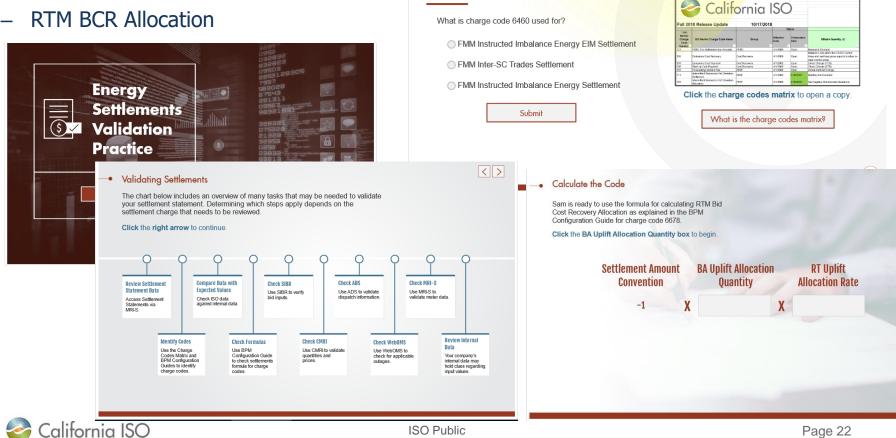
Project Name	Past Training Date
ESDER Phase 3b – Load Shift Product	6/22/2020
CCDEBE 1	10/8/2019



Customer Readiness Spotlight On...

Settlement Validation Practices

- Validating Settlements
- FMM Energy Settlements
- **UIF Settlements**



Know the Code

answer below and click Submit.

The ISO Charge Codes Matrix is a tool for researching charge

codes that may be assessed to different types of SCs. Tom checks the matrix for more details about charge code 6460. Check the charge codes matrix, then select the correct

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Next SUG: July 8, 2020

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

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Settlement References

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



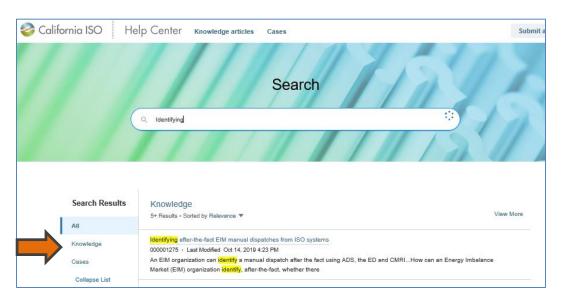
Knowledge Articles

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



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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 (<u>CustomerReadiness@caiso.com</u>) for registration or Accellion access information

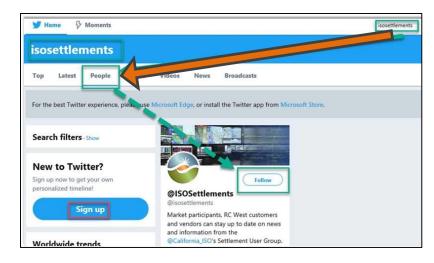




ISO Settlements Twitter

- Settlement related updates
- Market sim updates
- Note: Will not replace any existing media communications
- Please take the opportunity to follow <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







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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



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.



	January								
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	July								
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27	28	29	30	31					





Agenda posted



Holiday

Settlement User Group

Thank you for participating in our call



