



Settlement User Group

April 29, 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 meetings. The recordings, 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 May 14, 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 and ISO Roll Call

April 29, 2020

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

Time	Topic	Presenter
▪ 10:00 – 10:05	▪ Welcome, Introduction and ISO Roll Call	▪ Tyler DuBeshter
▪ 10:05 – 11:00	▪ Market Settlements <ul style="list-style-type: none">– Information on Market Disruptions Report– Spring 2020 – Settlement Release Scope and Milestones– Fall 2020 – Settlement Release Milestones and Scope– PRR and BPM Updates	▪ Yanni Chen
	▪ Customer Readiness Spotlight On	▪ Elizabeth Caldwell
	▪ Settlement Corner <ul style="list-style-type: none">– Storage	▪ Jeremy Malekos
		▪ Brenda Corona
		▪ Rashele Wiltzius
		▪ Tyler DuBeshter

Information on Market Disruptions Report

Market Disruption Reports

- www.caiso.com->Market & Operations->Reports and bulletins->Market disruption reports

The screenshot shows a breadcrumb trail: Home > Market Operations > Reports and bulletins. Under 'Market Operations', there is a dropdown menu with the following items:

- Market disruption reports (with a mouse cursor icon) - This report provides Market Participants with a comprehensive record of all market disruptions occurring in the California ISO Day-Ahead and Real-Time Markets. Reports are published monthly on the 15th of every month and include data for the trade dates ending 30 days prior to the report date.
- Market disruption reports 2020 (with a dropdown arrow icon)
- Market Disruption Report Jan 16, 2020 - Feb 15, 2020 (with a document icon and a timestamp of 3/27/2020 15:46)

- Monthly report for all market disruption events

Weekly Price Correction Reports

- www.caiso.com->Market & Operations->Reports and bulletins->Price validation and correction reports

The screenshot shows a breadcrumb trail: Home > Market Operations > Reports and bulletins. Under 'Market Operations', there is a dropdown menu with the following items:

- Price validation and correction reports (with a mouse cursor icon) - These reports provide summaries of the price corrections and shadow price corrections made by week.
- Weekly price correction reports 2019 (with a dropdown arrow icon)
- Weekly Price Correction Report Aug 5-9, 2019 (with a document icon and a timestamp of 8/12/2019 15:22)

- Refer to the Price Fill Report section for failed or no-run market events

Information on Market Disruptions Report (cont.)

Another Useful Information Related to Market Disruption

- System Operation Message on OASIS (RT Messages) : OASIS->ATLAS REFERENCE->System Operation Messages

The screenshot displays the California ISO OASIS interface. At the top, there is a navigation bar with the following menu items: ATLAS REFERENCE, REPORT DEFINITION, PRICES, TRANSMISSION, SYSTEM DEMAND, ENERGY, ANCILLARY SERVICES, and CONGESTION REV. Below the navigation bar, there is a search and filter section with the following fields: Date From: 04/21/2020, To: 04/21/2020, and Severity: [ALL]. There are also buttons for 'Apply' and 'Reset'. Below the search section, there are two buttons: 'Download XML' and 'Download CSV'. The main content area is titled 'System Operation Messages' and contains a table of messages. The table has three columns: Message Time, Severity, and Message Text. The messages are as follows:

Message Time	Severity	Message Text
04/21/2020 20:31:46	Normal	The California ISO has scheduled maintenance for the IFM/RTN and EMS production environment today April 21 2020 from 23:00 - 23:59. A brief interruption in 5-min dispatches may be experienced (approx. 5-10 minutes). For any issues experienced outside of this window please contact the ISO Service Desk at (916) 351-2309 or (888) 889-0450.
04/21/2020 11:41:00	Normal	The California ISO has scheduled maintenance for the OASIS application in the production environment today April 21 2020 at 14:00 PPT. A brief interruption may be experienced (approx. 5-10 minutes). For any issues experienced outside of this window please contact the ISO Service Desk at (916) 351-2309 or (888) 889-0450.
04/21/2020 11:35:20	Normal	The California ISO will be promoting a patch in CMRI today April 21 2020 between 13:00 and 14:00 PPT. There may be a brief interruption during this window. This patch will allow for real time forecast values to be updated in the Reliability Coordinator Forecast Generation Report without overwriting the day ahead values. For any questions regarding this patch please contact your Customer Service Representative.
04/21/2020 08:28:16	Urgent	The ISO has determined a potential for over supply for the Operating Day 04/22/2020 during hours ending 1000 through 1700. Oversupply can potentially require market curtailment of preferred resources. The ISO is requesting: 1) all resources provide additional decremental Energy bids limit self-schedules 2) bids to export energy to avoid invoking additional steps in Procedure 2390 Overgeneration and 3) the ISO may issue an Operating Instruction for all EIRs (Eligible Intermittent Resources) to not exceed their DOT. Additional notices from the ISO will follow as necessary.

Spring 2020 - Settlement Release Scope and Milestones

Spring 2020 Settlement Release

- Scope:
 - **Project:** Black start system restoration phase 2 - tech docs posted on 2/10
 - **Production Variances:** RC enhancement
- 1st draft configuration output files + release component summary **published on 2/25:** two files, 1 Market and 1 RC
- 2nd draft configuration output files publication not needed.
- Release component summary update **sent on 3/19**
- Pre-prod configuration output files and Design Standard updates = **posted 4/22**
- Production deployment on track for **4/29**

Fall 2020 - Settlement Release Milestones

Initial Release Milestones as follows:

- 1st draft technical documentation to post = 5/29
- 1st draft configuration output file + initial release component summary ETA = 6/15
- Updated technical documentation, if needed = 6/26
- 2nd draft configuration output file + updated release component summary ETA = 7/24

Fall 2020 - Settlement Release Scope

Project	Charge Code
Excess behind the meter production implementation (EBTMP)	6046
	6474
	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	
Market settlement timeline transformation (MSTT)	6474
	64740
Energy storage and distributed energy resources (ESDER 3B)	Spin Non Spin No Pay Quantity PC
	RUC No Pay Quantity PC

Note does not include all projects- settlements only

Fall 2020 - Settlement Release Scope (cont.)

Project	Charge Code / Impacts
Intertie deviation settlement – implementation (IDS)	6455 (Terminated) 6457 (Terminated) 6456 (New) 6458 (New)
FERC Order No. 841 requested adjustment	TBD
ADS Replacement	ADS data will only be available for 30 days, Market participants will need to download and store this data beginning 10/1/2020.

PRR and BPM Updates

PRR	Title	BPM	Stage
1240	Congestion revenue rights clarifications	Congestion Revenue Rights BPM Version 27:sections 7.2.2, 7.3.1, 7.3.2.2.5 and Attachment J	Recommendation
1234	Updated BPM configuration guides for CC 5701 and CC 5705 to allow for correct settlement of the reliability coordinator minimum charge for entities onboarding outside of April 1 timeline	CC 5701 RC Services Charge_5.1 1/1/2020 CC 5702 RC Services Late Payment Penalty_5.0a 1/1/2020 CC 5705 RC Services Charge Allocation_5.1 1/1/2020 BPM for Settlements and Billing_v25	Final Reports posted BPMs updated in Library
1233	Updated configuration guides for CC 1001, CC 1101 and CC 3101 and created new BPM configuration guides for CC 3102 and CC 1102 with regard to settlement and invoicing impacts from Black start system restoration phase 2 initiative	CC 1001 Black Start Energy Payment 5.4 5/1/2020 CC 1101 Black Start Capability Allocation_5.0 End 4/30/2020 CC 3101 Black Start Capability Settlement_5.0 End 4/30/2020 CC 1102 Black Start Capability Allocation_5.0 5/1/2020 CC 3102 Black Start Capability Settlement_5.0 5/1/2020 BPM for Settlements and Billing_v25	Final Reports posted BPMs updated in Library



New [Business Practice Manual Proposed Revision Request Tracking Log](#) available to view current PRR in progress and completed.

Next BPM PRR review monthly web conference meeting is on Tuesday, May 26, 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
Additional MRI-S (must have certificate)	Market participant portal

Webinar	
ISO Customer Readiness trainers have cancelled in person trainings	
Welcome to the ISO	July 9, 2020
New initiatives training courses on the learning center web page	



CustomerReadiness@caiso.com

Customer Readiness Spotlight On...

Settlements Process Computer Based Training (CBT)

- What are settlements?
- Settlement statement overview
- Settlements timeline



Click each marker to learn more.

One Company, LLC - ABCD
7869 Address One
7869 Address Two
Folsom CA 95630

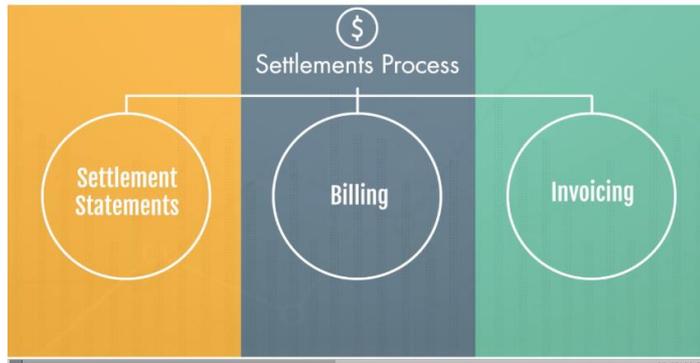
Statement #: 201810221148192018102111
Version: 1
BAID: 1234

Comments:

5 Charge for Settlement 19-OCT

Charge Code	Description	Current	Previous	Net
CC4515	GMC - Bid Transaction Fee	3.50500	0.00000	3.50500
CC4560	GMC - Market Services Charge	348.10820	0.00000	348.10820
3 Grid Management Charge Charge Group Total		\$351.61320	\$0.00000	\$351.61320
7 GMC Parent Group Total		\$351.61320	\$0.00000	\$351.61320
6 Statement TOTAL		(\$351.61320)	\$0.00000	(\$351.61320)

What Are Settlements?



The Settlements Timeline

There are several key deadlines and deliverables in the settlements process. Missing these deadlines could have a serious impact.

Click each step in the timeline below to learn more.



Key
T - Trade date
B - Business days
M - Months

Settlement Statement for T+12B

What is it?
The recalculation settlement statement is published by the ISO at T+12B based on meter data submitted, either ASQMD or ESQMD, by T+8B.

Impact
If there is no SC meter data submitted and there is a schedule, the ISO estimated meter data from the T+3B statement will be used.

Dispute Details
Disputes must be submitted by 26 business days after the trading day (T+26B). Estimated meter data is not disputable.





We are

Requesting Topics

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

Topics submitted:

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

How is Storage used today in CAISO Balancing Authority Area?

Primary use is Ancillary Services

- Contingency Reserves
 - Excellent source for frequency response
- Regulation Energy
 - Provide quick response to regulation signals

Energy

- Limited set of resources only provide Energy

Present Battery Storage Projects

ESDER Phase 3 A & 3B Initiatives

- Hourly and 15-Minute Dispatch options
- Load shift product for behind the meter storage
- PDR and RDRR resource aggregation across LSEs
- SIBR only accepts bids at or above Net Benefit Test Price
- Measurement of behind the meter electric vehicle supply equipment (EVSE) load curtailment

FERC 841 Requested Adjustments

- Battery Resources with commingled retail/ wholesale meters eligible for wholesale charging exemption

Future Battery Storage Initiatives

ESDER Phase 4

- <http://www.caiso.com/InitiativeDocuments/SecondRevisedStrawProposal-EnergyStorage-DistributedEnergyResourcesPhase4.pdf>

Hybrid & Co-Located Resources

- <http://www.caiso.com/InitiativeDocuments/RevisedStrawProposal-HybridResources.pdf>

Next SUG: May 13, 2020

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

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Settlement References

- Ways to Participate in Settlements
- ISO Computer Based Training Programs
- Fall Release Supplemental information
- CRR 1b Post Implementation Updates
- Settlement Timeline
- Knowledge Articles
- ISO Settlements Twitter Page
- SUG meeting calendar for 2020
- Trivia Corner

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 (slide 13)
- Submit CIDI ticket

Fall Release Supplemental information

- Excess Behind the Meter Production Frequently Asked Questions
 - http://www.caiso.com/Documents/FrequentlyAskedQuestions_ExcessBehindtheMeterProduction.pdf

CRR 1b Post Implementation Updates

- Congestion revenue rights data transparency enhancements
 - <http://www.caiso.com/Documents/BusinessRequirementsSpecification-CongestionRevenueRightsDataTransparencyEnhancements.pdf>
 - Market simulation calendar:
 - http://www.caiso.com/Documents/Market_Simulation_Calendar_Settlements-Independent_2020.xlsx
 - Market Simulation - Finished
 - Published
 - Daily Initial 24-Mar, 25-Mar
 - Monthly Initial 24-Mar - 25-Mar
- Congestion Revenue Rights training
 - <http://www.caiso.com/participate/Pages/LearningCenter/CongestionRevenueRights.aspx>

Settlement Timeline

Selected Option 1: Trade Date Specific Cutover

TRADE DATES	3B	9B	12B	55B	70B	9M	11M	18M	21M	24M	33M	36M
1/1/2021-forward												
12/31/2017 - 12/31/2020												

Benefits:

- Straight forward (clean cut) transition

Effective date for change

- 1/1/2021

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

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

ISO Settlements Twitter

- Settlement related updates
- Market sim updates
- Note: Will not replace any existing media communications



ISO Settlements Twitter (cont.)

- 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

The image displays two screenshots of the Twitter website. The left screenshot shows the profile page for @ISOSettlements, featuring a profile picture of a stylized sun and waves, the name @ISOSettlements, and a bio: "Market participants, RC West customers and vendors can stay up to date on news and information from the @California_ISO's Settlement User Group." Below the bio are statistics for Tweets (4), Following (1), and Followers (13). A red arrow points from the profile picture to the right screenshot. The right screenshot shows the search results for "isosettlements", with the "People" tab selected. A red arrow points from the search bar to the "People" tab, and another red arrow points from the "People" tab to the profile card for @ISOSettlements. The profile card in the search results includes the profile picture, name, bio, and a "Follow" button.

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						
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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
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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
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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
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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

Stay connected



@ISOSettlements



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the go