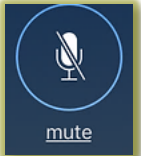




Settlement User Group

May 13, 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><i>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.</i></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 May 27, 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

Wednesday, May 13, 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	▪ Settlements <ul style="list-style-type: none">– ADS Replacement and ADS Query Tool Changes– CRR 1b Post Implementation Updates– Fall 2020 – Settlement Release Milestones and Scope– PRR and BPM Updates	▪ Prince Philip and Akm Ferdous
	▪ Customer Service Spotlight On: Metering	▪ Jeremy Malekos
	▪ Settlement Corner <ul style="list-style-type: none">– Bid Cost Recovery (BCR) Settlement	▪ Elizabeth Caldwell
		▪ Brenda Corona
		▪ Cynthia Hinman
		▪ Uma Ramanathan

ADS Replacement & ADS Query Tool Changes

- ADS Replacement project is scheduled to go-live in 2020
 - UI Technology upgrade
 - Replace Delphi thick-client with browser based thin-client
 - Support for Chrome and 'Edge with Chromium' Only (no IE support)
 - Slight changes in UI look and feel
 - New ADS UI demonstrated at ADS CPG on 4/16
- External BRS posted in 2018, provides details of planned changes.
 - <http://www.caiso.com/Documents/BusinessRequirementsSpecification-ADSReplacement.pdf>
- Noteworthy items for Settlements User Group, w.r.t the ADS Query Tool
 - XML export option will not available
 - Excel export option will be supported
 - Query tool data will be limited to **30 days** (not 39 months)

ADS Replacement & ADS Query Tool Changes (cont.)

- Some of the data set you would query from ADS Query tool is also available in the following CMRI Reports:
 - RTD Schedules.
 - FMM Schedules
 - HASP Schedules
- If you need additional ADS query tool data beyond 30 days, that is not in the CMRI reports, you must plan to download and accumulate data on your end.
- Follow the RUG for timelines associated to the ADS Replacement Project

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>

CRR 1b Post Implementation Updates (cont.)

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**

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 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 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
Effective date: 1/1/2021	Real Time Energy Quantity PC
Market settlement timeline transformation (MSTT)	6474 64740
Effective date: 1/1/2021	Real Time Energy Quantity PC
Energy storage and distributed energy resources (ESDER 3B)	Spin Non Spin No Pay Quantity PC
Effective date: 10/1/2020	RUC No Pay Quantity PC



Fall 2020 - Settlement Release Scope (cont.)

Project	Charge Code/Impacts
Intertie deviation settlement – implementation (IDS)	6455 (Terminated) 6457 (Terminated) 6456 (New) 6458 (New)
Effective date: 10/1/2020	
FERC Order No. 841 requested adjustment	IFM Net Amount PC RTM Net Amount PC Real Time Energy Quantity PC RUC Net Amount PC
Effective date: 10/1/2020	
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.



Q4 2020 - Settlement Release Scope

Project

Configuration Guide

Day Ahead Nodal Model Pricing
Project

Effective Date: 1/1/2021

6011

6790

6947

6630

6636

6637

4515

4560

Nodal Pricing Nodel 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 expires on 5/19

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



Customer Readiness Spotlight On...

Metering Overview Computer Based Training (CBT)

- Metering basics and timeline
- Rules of conduct with regard to metering
- SQMD plans



Physical Metering – Responsibilities

Metering responsibilities are different based on whether your entity is an SCME or an ISOME.

Click each box to learn more.

SCME

To validate that their resources are accurate, SCMEs use schematics, including single-line diagrams, that depict the generating units, instrument transformers, and the location of revenue meters.

All SCMEs must:

- collect and submit meter data.
- identify the devices used to collect the data.
- ensure that their physical meters meet Local Regulatory Authority (LRA) guidelines, or meet or exceed ISO standards.

ISOME

The ISO requires ISOMEs to submit schematics, including single-line diagrams, that depict the generating units, instrument transformers, and the location of revenue meters.

ISOMEs must:

- provide information to the ISO about how resources are modeled for validation and documentation.
- use an ISO certified meter.
- have an ISO authorized inspector review and inspect the facility.

Meter Data Process Timeline

SCs should be aware of key milestones and related deadlines in the meter data process. Missing these deadlines could have a serious impact.

Click each step in the meter data process below to learn more.

By T+3B

>

By T+8B

>

By T+12B

>

By T+48B

>

By T+55B

>

By T+172B

>

By T+9M

Meter Data Deadline T+48B

What is it?
For an SCME, SQMD submitted by T+48B will be used on the recalculation settlement statement published by the ISO at T+55B.

Impact
The SC must submit actual SQMD by T+48B or be subject to the Rules of Conduct penalties for late meter data.

SQMD Plans


Click the right arrow to continue.

Who is required to submit an SQMD Plan?

SCs for SCMEs must submit an SQMD Plan to ensure that the SCME will submit and maintain the integrity of Meter Data submitted to the CAISO.

SCs must submit an SQMD Plan if their SCME:

- was not participating as an SCME before April 10, 2017, or
- repowered, modified their Meter Data interval, or added generating capacity after April 10, 2017.



Webinar	
Welcome to the ISO	July 9, 2020
ISO Training Workshop	August 18 - 20

Settlement Corner: Bid Cost Recovery Settlement

Uma Ramanathan

Lead Analyst – Dispute Team

- The next presentation has 28 slides

Contents

- What is BCR?
- Why is BCR validation important?
- Key points to validate BCR
- Components of Bid Costs
- Components of Market Revenue
- BCR mitigation measures
- Summary of Bid Costs and Market Revenue for DA
- IFM BCR Settlement
- Summary of Bid Costs and Market Revenue for RTM
- RTM (CAISO and EIM) BCR Settlement
- Charge Codes for BCR
- RT Negative Optimal Energy Bid Cost

What is BCR?

Financial mechanism for market participants to recover eligible bid costs if the resource is committed by CAISO.

- Eligible resources include Generator, Participating Load (PS), Dynamic system units (TG), and Imports that have elected 15-minute scheduling
- No commitment cost for self-committed resources nor for the Base Schedules.
- For self-committed resources, only energy bid cost is eligible for BCR

What is BCR? (Continued...)

BCR is calculated based on resource and by market for the entire trade date

- CAISO committed resources will be eligible for BCR in Day-Ahead (IFM) and Real-Time (RT) market
- EIM committed resources will be eligible for BCR only in Real-Time (RT) market
- RTM includes both fifteen-minute (FMM) and five-minute market (RTD)
- MSG configurations are settled at plant/resource level
- Bid Costs and Market Revenue are calculated for every five-minute settlement interval. The resource shortfall and surplus will be netted across the entire day and if the resource has “shortfall” at the end of the day, the resource will get BCR payment.

Why is BCR validation important?

- To ensure that the allocation of Commitment Costs are correct for the CAISO committed resources in both DA, RUC and RTM.
- To understand the qualifications that describe how and when a CAISO committed resource receives Commitment Costs.
- To understand which resources are eligible to receive Commitment Costs.

Key Points to Validate BCR

- Market results in CMRI
 - Resource Day-Ahead Schedules and Prices, Base Schedules and Real-Time (both FMM and RTD) Schedules and Prices
- Market Instructions in Automated Dispatch System (ADS)
 - Resource Start-up, Shut-Down, Transition and Five-minute dispatch instructions
- Post Market results in CMRI
 - Expected Energy Allocation Details report in CMRI
 - Review DA and RTM Energy Types, Five-minute Energy Quantity (for DA or BASE, FMM and RTD) and the relevant Bid Price in this report
- ISO Commitment Cost Details report in CMRI
 - DA, RUC and RTM Start-up Costs, Minimum Load Costs, Pumping Costs and Transitions Costs.
- Validate T+12B Settlement Statement

Components of Bid Cost

- Start-up cost (SUC)
- Minimum load cost (MLC)
- Transition cost (TC)
- Energy Bid cost

All Generators (both Non-Multi-Stage Generators and Multi-Stage Generators (MSG), SUC, MLC and TC can elect to settle at Registered Costs (REGC) in the Master File or Proxy (PROXY), which is calculated by CAISO SIBR application based on various factors.

Components of Bid Costs (Continued...)

For MSG Resources,

- SUC is only applicable for MSG start-up configurations
- Separate MLC for each of the configuration
- TC applies when the resource moves between configurations

For All Generators – Applicable DA and RTM Energy Bid Cost

- Day-Ahead Bid Awarded Energy (DABE) in DA market
- Fifteen-minute and Five-minute Optimal Energy (FMM-OE and RTD-OE) in RTM market

Components for Market Revenue

For Day-Ahead,

DA Minimum Load Energy (DAMLE)

DA Bid Awarded Energy (DABE)

For Real-Time,

FMM Minimum Load Energy (FMM-MLE)

RTD Minimum Load Energy (RTD-MLE)

FMM Optimal Energy (FMM-OE)

RTD Optimal Energy (RTD-OE)

What are BCR Mitigation Measures?

- Modified DA Metered Energy Adjustment Factor (DA MEAF)
- Real-time Performance Metric (RT PM)
- Persistent Deviation Metric
- BCR qualification for start-up, shut-down, minimum load, and MSG transition

BCR Mitigation Measures

- **Modified DA Metered Energy Adjustment Factor (DA MEAF)**
 - Scale down cost based on actual delivered energy to resource relevant Day-Ahead Schedule
 - Apply DA MEAF to DA Energy above a resource's PMIN level
 - Relevant Tariff sections – 11.8.2.5, 11.8.2.5.1 and 11.8.2.5.2
- **Real-time Performance Metric (RT PM)**
 - Scale down cost based on actual delivered energy to total expected energy
 - Apply RT PM to RUC or RTM Minimum Load Costs and to RTM Energy
 - Relevant Tariff sections – 11.8.4.4, 11.8.4.4.1, 11.8.4.4.2, 11.8.4.4.3 and 11.8.4.4.4

BCR Mitigation Measures (Continued...)

Apply RT PM to Day Ahead Minimum Load Costs

- When the resource is CAISO-Committed in DA and is de-committed to offline in RTM
- When the MSG resource is CAISO-Committed at a higher configuration in DA or BASE and de-committing the resource to a lower configuration in RTM

Bid Costs	Market Revenues	Apply DA MEAF or RT PM to...
Positive (+)	Positive (+)	Costs
Positive (+)	Negative (-)	Costs and Revenues
Negative (-)	Positive (+)	N/A
Negative (-)	Negative (-)	Revenues

BCR Mitigation Measures (Continued...)

- In short, we apply the RTM Performance Metric to Positive Bid Costs and Negative Market Revenues.
 - The intention of applying RTM PM is to not increase costs or decrease revenues. Meaning, it will not inflate RTM BCR Settlement
- **Persistent Deviation Metric (PDM)**
 - When the resource is consistently not following the CAISO dispatch, it is considered as persistently deviating
 - The Persistent Deviation Metric mitigates the energy bid cost BCR as a consequence of deviating from the dispatch
 - The related Tariff section is 11.17. For details relate to Persistent Deviation Threshold Conditions, please review all 4 cases in Tariff section – 11.17.1.1

BCR Mitigation Measures (Continued...)

- Persistent Deviation Metric Threshold evaluation will be based on the number of settlement intervals flagged within a rolling two-Trading Hour window
 - Flag as pass or fail, per 5-min, and count number of fails
 - Split 3-hour period as:
 - Window 1: Prior and Current Trading Hour
 - Window 2: Next and Current Trading Hour
 - If fail count > 6 for either window, then mitigate RTM Optimal Energy (OE) bid prices for the Current Trading Hour
 - If the PDM Flag is 1 (Resource is NOT complying with CAISO dispatch, then the RTM OE bid prices will be as follows:
 - » Min (Final Bid (FB) Price, Default Energy Bid (DEB) Price, RTM LMP) for Incremental energy and
 - » Max (Final Bid (FB) Price, Default Energy Bid (DEB) Price, RTM LMP) for Decremental energy

BCR Mitigation Measures (Continued...)

BCR qualification for start-up, shut-down, minimum load, and MSG transition

- Start up costs (SUC)
 - To be eligible for start-up costs, a resource must be in an OFF state before turning ON
 - For short-start resource:
 - If the resource is committed in IFM and stays ON or committed in RTM, SUC will be associated with IFM for the first start up of the IFM commitment period
 - For subsequent CAISO-instructed RTM start-ups over the same IFM commitment period, SUC costs will be associated with RTM
 - Resource also need to reach at the PMIN for one settlement interval during the CAISO Commitment period.

BCR Mitigation Measures (Continued...)

BCR qualification for start-up, minimum load, and MSG transition

- Minimum load cost (MLC)
 - To be eligible for MLC, a resource meter must be at the PMIN – Tolerance Band
 - PM tol band = $\max\left\{\frac{5\text{MWh}}{12} \text{ or } \frac{0.03 * P_{\max}}{12}\right\}$
 - MLC will be disqualified for the resource Minimum Down Time (MDT) intervals if the resource is deviating from CAISO's Shut-Down (SDWN) instructions.
 - If the CAISO issues SDWN instruction in ADS, the resource should follow the SDWN dispatch, which will be reflected with Meter of 0 MW.

BCR Mitigation Measures (Continued...)

BCR qualification for start-up, minimum load, and MSG transition

- MSG Transition costs (TC)
 - MSG TC will be included when a MSG resource transitioning from a lower to a higher configuration during CAISO committed intervals
 - To be eligible for TC, resource must be in its "FROM" configuration prior to transitioning to its "TO" configuration
 - To be eligible for TC, a resource meter must be at the PMIN – Tolerance Band

$$\bullet \text{ Tolerance Band} = \max \left\{ \frac{5\text{MWh}}{12} \text{ or } \frac{0.03 * P_{\max}}{12} \right\}$$

Summary of Bid Costs and Market Revenue for DA

DA Bid Costs	DA Market Revenue
Start-up	
Minimum Load	DA Minimum Load Energy * DA LMP
Transition	
DABE * DA energy Bid Price	DA Bid Awarded Energy * DA LMP

For both DA and RTM, resource will receive BCR payment only when the eligible Bid Costs exceed eligible Market Revenue for a Trading Day.

DA Bid Cost – DA Market Revenue results in Shortfall and
RTM Bid Cost – RTM Market Revenue results in Shortfall

IFM BCR Settlement - Summary

- BCR process ensures resources are able to recover their Bid Costs in IFM
- For CAISO resources, IFM Net amount is calculated for each settlement interval as the IFM Bid Cost minus IFM Market Revenue
- If the Net amount difference is Shortfall for the entire day, the resource will receive uplift payment in IFM Bid Cost Recovery Settlements in CC6630
 - If the Net difference is Positive, it represents a “Shortfall”.
 - If the Net difference is Negative, it represents a “Surplus”.

Summary of Bid Costs and Market Revenue for RTM

RTM Bid Costs	RTM Market Revenue
Start-up	
Minimum Load	FMM Minimum Load Energy * FMM LMP RTD Minimum Load Energy * RTD LMP
Transition	
FMM-OE * FMM energy Bid Price	FMM-Optimal Energy * FMM LMP
RTD-OE * RTD energy Bid Price	RTD-Optimal Energy * RTD LMP

RTM BCR Settlement – Summary

- BCR process ensures resources are able to recover their Bid Costs in RTM
- For CAISO resources, RT Net amount is calculated for each settlement interval as the RT Bid Cost minus RT Market Revenue.
- If the Net amount difference is Shortfall for the entire day, the resource will receive uplift payment in RT BCR Settlement in CC6620
- RT MLC calculation uses simplified formula for MSG resources
 - Negative RT MLC is calculated when the MSG resource is de-committed from a higher configuration in IFM to a lower configuration in RT.
 - RT Committed Configuration MLC – Max (IFM or BASE Committed Configuration MLC, RTM Self-schedule Configuration MLC)

EIM RTM BCR Settlement – Summary

- BCR process ensures resources are able to recover their Bid Costs in RTM
- For EIM resources, RT Net amount is calculated for each settlement interval as the RT Bid Cost minus RT Market Revenue.
- For EIM resources, add the following components to calculate the final BAA RT Net amount
 - Resource Net Forecast Movement Amount
 - Resource Net FRP Uncertainty Amount and
 - Resource RTM GHG Payment Amount
- If the Net amount difference is Shortfall for the entire day, the resource will receive uplift payment in RT BCR Settlement in CC66200

EIM RTM BCR Settlement – Summary

- RT MLC calculation of simplified formula for MSG resources is applicable to EIM MSG resources
 - Negative RT MLC is calculated when the MSG resource is de-committed from a higher configuration in BASE to a lower configuration in RT
 - RT Committed Configuration MLC – Max (BASE Committed Configuration MLC, RTM Self-schedule Configuration MLC)
- EIM Participating resources are eligible for RTM Commitment Costs, Energy Cost and Flexible Ramp Cost if it is committed by CAISO
- EIM Non-Participating resources are eligible only for RTM Flexible Ramp Cost

Bid Cost Recovery – Relevant Charge Codes

IFM, RUC and RTM Commitment Costs will flow through pre-calculations (PC) to final charge codes:

- IFM Net Amount PC
- Metered Energy Adjustment Factor (DAMEAF, RT PM and PDM,) PC
- Start-up and Minimum Load Cost PC
- RTM Energy PC
- RTM Price PC
- BCR Sequential Netting
- RUC Net Amount PC
- RTM Net Amount PC

Bid Cost Recovery – Relevant Charge Codes

- IFM BCR Settlement – CC6630
- IFM BCR Tier 1 Allocation – CC6636
- IFM BCR Tier 2 Allocation – CC6637
- RUC and RTM BCR Settlement – CC6620
- RTM BCR EIM Settlement – CC66200
- RTM BCR Allocation – CC6678
- RTM BCR EIM Allocation – CC66780
- RUC Tier 1 BCR Allocation – CC6806
- RUC Tier 2 BCR Allocation – CC6807

RT Negative Optimal Energy Bid Cost

Exception scenario for MSG resources:

When the MSG resource is de-committed from a IFM or BASE higher configuration to a lower configuration in RTM, the energy between the DA or Base Schedule and the RT configuration PMIN is classified as Real-Time Optimal Energy (OE). This portion of the OE energy is allocated with the submitted RT energy Bid Price and is included in RT BCR.

CAISO determined in 2014 that the Expected Energy functionality was not allocating the RTM bid to the OE portion as it is currently configured to allocate the RT energy bid price only for the RTM Active configuration.

Thus, the energy in the IFM or BASE configuration is not captured when the resource is committed to a lower configuration in RTM. In this scenario, the portion of the RT-OE will be allocated with a NULL price (NOBID).

RT Negative Optimal Energy Bid Cost (Continued...)

Exception scenario for MSG resources:

In order to properly account the “bid cost” for the portion of NOBID, we have created a solution that captures the appropriate real-time bid for the OE energy so that the Bid Cost Recovery calculations can accurately reflect that energy’s bid cost.

Solution – We apply the RT bid price of IFM or BASE configuration to calculate the bid cost to the portion of five-minute negative energy equivalent to the area between the IFM or BASE schedule and Max of IFM or BASE configuration P_{MIN} and RTM configurations P_{MAX}. Then, we add this OE Bid Cost to the Negative RTPD MLC to come up with the Total RT MLC.

- IFM or Base Schedule – Max (IFM or BASE Config P_{MIN}, RTM Config P_{MAX})

RT Negative Optimal Energy Bid Cost (Continued...)

Exception scenario for MSG resources:

In summary, the total MLC in RT will be Negative RT MLC (RT Committed Configuration MLC – IFM or BASE Committed Configuration MLC) PLUS Optimal Energy (OE) Bid Cost calculated for the portion of the energy between the IFM or BASE schedule and the IFM or BASE configuration PMIN.

Note – If the NOBID OE portion of the configuration has outage in RT, the resource OE Bid Cost will be the portion of the OE energy * FMM LMP. We have modified this change started effective from 10/1/2019. Please review PRR 1220 posted on 1/28/2020. Please review the details in the BPM using this link –[MO BPM Negative OE wOutage 20200109.docx](#)

We are requesting topics

Topics

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

Previous Topics

- Storage- [Link](#)

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

Submit



Next SUG: May 27, 2020

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

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Settlement References

- Ways to Participate in Settlements
- Information on Market Disruption
- 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

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. Below this, a dropdown menu is open for "Market disruption reports". The description states: "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." A sub-menu item "Market disruption reports 2020" is selected, showing a report titled "Market Disruption Report Jan 16, 2020 - Feb 15, 2020" with 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. Below this, a dropdown menu is open for "Price validation and correction reports". The description states: "These reports provide summaries of the price corrections and shadow price corrections made by week." A sub-menu item "Weekly price correction reports 2019" is selected, showing a report titled "Weekly Price Correction Report Aug 5-9, 2019" with 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, Severity: [ALL], and buttons for Apply and Reset. Below this 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.

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



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

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