






California ISO

# Settlement User Group

July 21, 2021

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

Web Conference Information	Conference Call Information
Web Address: <a href="https://caiso.webex.com/meet/settlementuser">https://caiso.webex.com/meet/settlementuser</a> Meeting Number: 961 854 046 Audio connection instructions will be available after connecting to the web conference. When prompted, select "Call me" and enter your phone number you will use during the call.	US Toll Free: 1-844-517-1271  US Toll : 1- 682-268-6591  Access Code: 961 854 046
<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. Hyperlinks in blue in PDF version.</p> <p>The recording will be posted on our website and be available for a short period of time until Aug 4, 2021. Please  Mute your phone while the discussion is going on in order to eliminate background noise, to unmute press and hold the spacebar to temporarily unmute, double mute. Calls are structured to stimulate an honest dialogue and engage different perspectives.</p> <p>To ask a question after each topic, unmute yourself before asking your question, or enter question on the  Chat </p> <p>please state your name and affiliation. Thank you.</p>	

# Settlement User Group Agenda

Wednesday, July 21, 2021

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

Time	Topic	Presenter
■ 10:00 – 10:02	■ Welcome and Introduction	■ Tyler DuBeshter
■ 10:02 – 11:00	■ Settlements <ul style="list-style-type: none"><li>■ Fall/Q3 2021 Settlement Release</li><li>■ Market Simulation 2021 Updates</li><li>■ Market Simulation Settlement Calendar</li><li>■ Short-Long Start Definitions Overview</li><li>■ Customer Readiness 2021 Training</li></ul>	<ul style="list-style-type: none"><li>■ Brenda Corona</li><li>■ Anshuman Vaidya</li><li>■ Assad Al-Baijat</li><li>■ Mel Ciubal</li><li>■ Cynthia Hinman</li></ul>

# Fall/Q3 2021 Settlement Release

- Release scope:
  - Projects with Settlement Configuration Changes:
    - ESDER Phase 4
    - Real Time Settlement Review Phase 2
    - Intertie Shadow Pricing Resolution
  - Non-project: outlined/updated in release component summary
- 1<sup>st</sup> draft tech docs posted: **5/28**
- 1<sup>st</sup> draft config output file + release component summary posted: **6/14**
- 2<sup>nd</sup> draft config output file + updated release component summary posted: **7/21**
- 3<sup>rd</sup> draft config output file + updated release component summary to post: **8/25**
- Market sim targeting: **8/30 – 10/1**
- Pre-prod configuration output file + release artifacts to post: **10/20**
- Anticipated prod deployment: **10/27**

# Fall/Q3 2021 - Settlement Release – PRRs Forthcoming

Project	Charge Codes
<p>Intertie shadow pricing resolution</p> <p>Effective Date: 11/1/2021</p>	<p>6710 Day Ahead Congestion - AS Spinning Reserve Import Settlement v5.4  6715 Real Time Congestion - AS Spinning Reserve Import Settlement v5.3  6720 Day Ahead Congestion - AS Non-Spinning Reserve Import Settlement v5.4  6725 Real Time Congestion - AS Non-Spinning Reserve Import Settlement v5.3  6750 Day Ahead Congestion - AS Regulation Up Import Settlement v5.3  6755 Real Time Congestion - AS Regulation Up Import Settlement v5.3  6760 Day Ahead Congestion - AS Regulation Down Import Settlement v5.4  6765 Real Time Congestion - AS Regulation Down Import Settlement v5.3</p>
<p>Real-time settlement review phase 2</p> <p>Effective date: 11/1/2021</p>	<p>Real Time Congestion v5.7  64740 Real-Time Unaccounted for EIM Energy Settlement v5.3  6985 Real Time Marginal Losses Offset v5.7</p>
<p>Energy storage and distribution energy resources phase 4</p> <p>Effective date: 11/1/2021</p>	<p>RTM Net Amount v5.36</p>
<p>Short long start definition initiative</p> <p>Effective date: 11/1/2021</p>	<p>RA Availability Incentive Mechanism 5.10.0a  PC Start-Up and Minimum Load Cost v5.18</p>

# Market Simulation Summer 2021 Updates

<u>Summer 2021 Release Initiatives</u>	<u>Start Date</u>	<u>Start Date (Trade Date)</u>	<u>End Date</u>	<u>Structured Simulation Start (Trade Date)</u>	<u>Go Live Date</u>
<b>Summer 2021 Release Market Simulation</b>	04/26/21	04/26/21	07/31/21	05/10/21	
<b>Summer 2021 readiness</b> Export, wheeling, and load scheduling priorities				<b>7/27</b>	By July 31

[Presentation - Market Simulation Summer 2021 Release - Jul 12, 2021](#)

# Market Simulation Calendar



## Summer 2021 Release Calendar (MAP STAGE) Apr 26, 2021 through Jul 6, 2021

Calendar Day	Day	CMRI T+1B	Submit Meter Data by T+2B 10:00 AM for Initial	Publish Initial Statement T+5B	Submit Meter Data by T+5B 18:00 for Recalc	Publish Recalc Statement T+8B	Publish Market Invoice
				T+9B		T+70B	
28-Jun-21	Monday	25-Jun	24-Jun				
29-Jun-21	Tuesday		25-Jun	22-Jun	22-Jun	17-Jun Monthly Recalc 15-Jun -17-Jun	Daily Recalc 15-Jun; 17-Jun Monthly Recalc 15-Jun -17-Jun
30-Jun-21	Wednesday			23-Jun	23-Jun		
01-Jul-21	Thursday			24-Jun	24-Jun		
02-Jul-21	Friday	1-Jul		25-Jun; Monthly Initial 22-Jun -25-Jun	25-Jun	22-Jun	Daily Initial 22-Jun; 23-Jun; 24-Jun; 25-Jun Monthly Initial 22-Jun -25-Jun
03-Jul-21	Saturday						
04-Jul-21	Sunday						
05-Jul-21	Monday	CASIO Holiday					
06-Jul-21	Tuesday		1-Jul			23-Jun	
07-Jul-21	Wednesday	6-Jul				24-Jun	
08-Jul-21	Thursday		6-Jul			25-Jun; Monthly Recalc 22-Jun -25-Jun	Daily Recalc 22-Jun; 23-Jun; 24-Jun; 25-Jun Monthly Recalc 22-Jun -25-Jun
09-Jul-21	Friday			1-Jul	1-Jul		
10-Jul-21	Saturday						
11-Jul-21	Sunday						
12-Jul-21	Monday						
13-Jul-21	Tuesday			6-Jul	6-Jul		
14-Jul-21	Wednesday			Monthly Initial 1-Jul -6-Jul		1-Jul	Daily Initial 1-Jul; 6-Jul Monthly Initial 1-Jul -6-Jul
15-Jul-21	Thursday						
16-Jul-21	Friday					6-Jul	
17-Jul-21	Saturday						
18-Jul-21	Sunday						
19-Jul-21	Monday					Monthly Recalc 1-Jul -6-Jul	Daily Recalc 1-Jul; 6-Jul Monthly Recalc 1-Jul -6-Jul

# Short-Long Start Definitions Overview

- Align the use of resource start definitions for Market optimization, Tariff, and Settlements
- Tariff change upcoming
- Short-start resource definition update in Bid Cost Recovery (under Startup and Minimum Load Cost Precalc); and long-start resource input definition reflected in RAAIM Precalc
- Updated definitions:

Short-Start	Long-Start	Extremely Long-Start
Cycle Time Zero to 240 minutes	Cycle Time $\geq$ 240 minutes <u>and</u> Start-Up Time $\leq$ 1080 minutes	Start-Up Time $>$ 1080 minutes

# Short-Long Start Definitions Overview con't

## Before Initiative:

Attribute	Short-Start	Medium-Start	Long-Start	Extremely Long-Start
Start Up Time	Less than 2 hours	Between 2 & 5 hours	Between 5 & 18 hours	Greater than 18 hours
Cycle Time	Less than or equal to 270 mins	Less than or equal to 270 mins	N/A - Not Defined	N/A - Not Defined

## After Initiative:

Attribute	Short-Start	Medium-Start	Long-Start	Extremely Long-Start
Start Up Time	N/A – Short-Start Start Up Time definition no longer used	N/A – Medium-Start removed from tariff	Less than or equal to 1080 minutes	Greater than 1080 minutes
Cycle Time*	Zero to 240 minutes	N/A – Medium-Start removed from tariff	Greater than 240 minutes	N/A – Not Defined

\*Cycle Time is startup time plus minimum run time.

**Note:** A Short Start or Long Start unit can also be **Fast Start** for Non-Spin qualification purposes if its startup time is less than 10 minutes.



# ISO Instructor-Led Training Sessions

Visit the [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>

Training Courses and workshops	Date and time
<b>Welcome to the ISO Webinar</b>	August 11, 2021 (9am – 11am)
<b>Real-time Settlements Review – Phase 2 (Tentative)</b>	August 25, 2021 (9am – 10am)
<b>Short-Long Start Definitions Training (Tentative)</b>	August 26, 2021 (1pm-2:30pm)
<b>Hybrid Resources – Phase 2a (Tentative)</b>	August 30, 2021 (10:30am-12:00pm)
<b>Energy Storage and Distributed Energy Resources – Phase 4 (Tentative)</b>	August 31, 2021 (9:30am-11:00am)
<b>Variable Operations and Maintenance Cost Review (Tentative)</b>	October 14, 2021 (11am – noon)

*All Summer Readiness related webinar recordings are available on [www.caiso.com](http://www.caiso.com) in the Learning Center and on the Summer Readiness release page.*

# 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 [30](#) computer based training modules on the ISO website covering:

RC Settlements	<a href="http://www.caiso.com/CBT/RC-Settlements/rc-settlements.html#/">http://www.caiso.com/CBT/RC-Settlements/rc-settlements.html#/</a>
Energy Settlements Validation Practice	<a href="http://www.caiso.com/CBT/EnergySettlementsValidation/story.html">http://www.caiso.com/CBT/EnergySettlementsValidation/story.html</a>
Settlement Validation Practice	<a href="http://www.caiso.com/CBT/Settlements%20Validation%20Practice/story_html5.html">http://www.caiso.com/CBT/Settlements%20Validation%20Practice/story_html5.html</a>
Commitment Costs	<a href="http://www.caiso.com/CBT/CommitmentCosts-CBT/story.html">http://www.caiso.com/CBT/CommitmentCosts-CBT/story.html</a>
Settlements foundational concepts (EIM)	<a href="https://www.westerneim.com/CBT/Settlements%20Foundational%20Concepts/Settlements-FoundationalConcepts.html">https://www.westerneim.com/CBT/Settlements%20Foundational%20Concepts/Settlements-FoundationalConcepts.html</a>
Metering Overview	<a href="http://www.caiso.com/CBT/MeteringOverview/MeteringOverview.html">http://www.caiso.com/CBT/MeteringOverview/MeteringOverview.html</a>
Settlements Process	<a href="http://www.caiso.com/CBT/SettlementsProcess/story_html5.html">http://www.caiso.com/CBT/SettlementsProcess/story_html5.html</a>
Market Pricing	<a href="http://www.caiso.com/CBT/Market-Pricing/story.html">http://www.caiso.com/CBT/Market-Pricing/story.html</a>
Full Network Model	<a href="http://www.caiso.com/CBT/FullNetworkModel/FullNetworkModel.html">http://www.caiso.com/CBT/FullNetworkModel/FullNetworkModel.html</a>

New initiatives training course on the learning center web page and retooling Settlements trainings

# Settlement Corner


Upcoming Topics	Previous Topics	Published Knowledge Articles
<ul style="list-style-type: none"><li>Fall 2021 Settlement Release Projects</li></ul>	<ul style="list-style-type: none"><li>Storage- <a href="#">Link</a></li><li>Bid Cost Recovery - <a href="#">Link</a></li><li>FERC 841- requested adjustments – <a href="#">Link</a></li><li>Renewable and energy storage - <a href="#">Link</a></li><li>Fall Release Projects – <a href="#">Link</a></li><li>Transportation electrification and micro grids <a href="#">Link</a></li><li>Real Time Settlement P2 <a href="#">Link</a></li></ul>	<ul style="list-style-type: none"><li>RC Informational Statement</li><li>After-the-Fact EIM Manual Dispatches from ISO systems</li><li>Validate Mitigated prices in DA, RTPD (FMM) and RTD</li><li>Calculation of meter data for TG resources</li><li>Energy Transfer System Resource (ETSR)</li><li>Pricing node (Pnode) price used for CRR Settlement</li></ul>

**Submit**



topics to us at [twitter.com/isosettlements.com](https://twitter.com/isosettlements.com)

# Recent Tweets

-  **@ISOSettlements** @isosettlements · 29m ...  
Market Simulation for Summer 2021 Readiness export and wheeling structured trade dates are effective 7/22/21. Go live date is scheduled for 7/29. [ow.ly/n13B50FxRNx](https://ow.ly/n13B50FxRNx)  
   
-  **@ISOSettlements** @isosettlements · Jul 8 ...  
Market Simulation for Summer 2021 Readiness export and wheeling structured trade dates are effective 7/13. Go live date is scheduled for 7/20. [ow.ly/SV3J50Fs6PF](https://ow.ly/SV3J50Fs6PF)  
   
-  **@ISOSettlements** @isosettlements · Jul 8 ...  
The Settlement User Group posts the presentation and audio from the 7/7/21 web conference call: [ow.ly/r8BT50Fqm6P](https://ow.ly/r8BT50Fqm6P)  
   
-  **@ISOSettlements** @isosettlements · Jul 6 ...  
Settlements posts pre-production configuration output file and release component summary to post for Summer 2021 Settlement Release. [ow.ly/WfMI50Fq4Vn](https://ow.ly/WfMI50Fq4Vn)  
   
-  **@ISOSettlements** @isosettlements · Jul 6 ...  
The presentations from the 6/28 and 7/1 Market Simulation conference calls have been posted. [ow.ly/fs7G50Fq4jk](https://ow.ly/fs7G50Fq4jk)  
   
-  **@ISOSettlements** @isosettlements · Jun 25 ...  
Settlements posts pre-production configuration output file and release component summary for Summer 2021 Settlement Release. [bit.ly/3hE0XgY](https://bit.ly/3hE0XgY)  
   

# Settlement User Group Calendar 2021

Market Services

Settlement User Group Meetings

Note: dates subject to change; for the latest information please visit the Calendar on [www.caiso.com](http://www.caiso.com) and follow us on Twitter @ISOSettlements



California ISO

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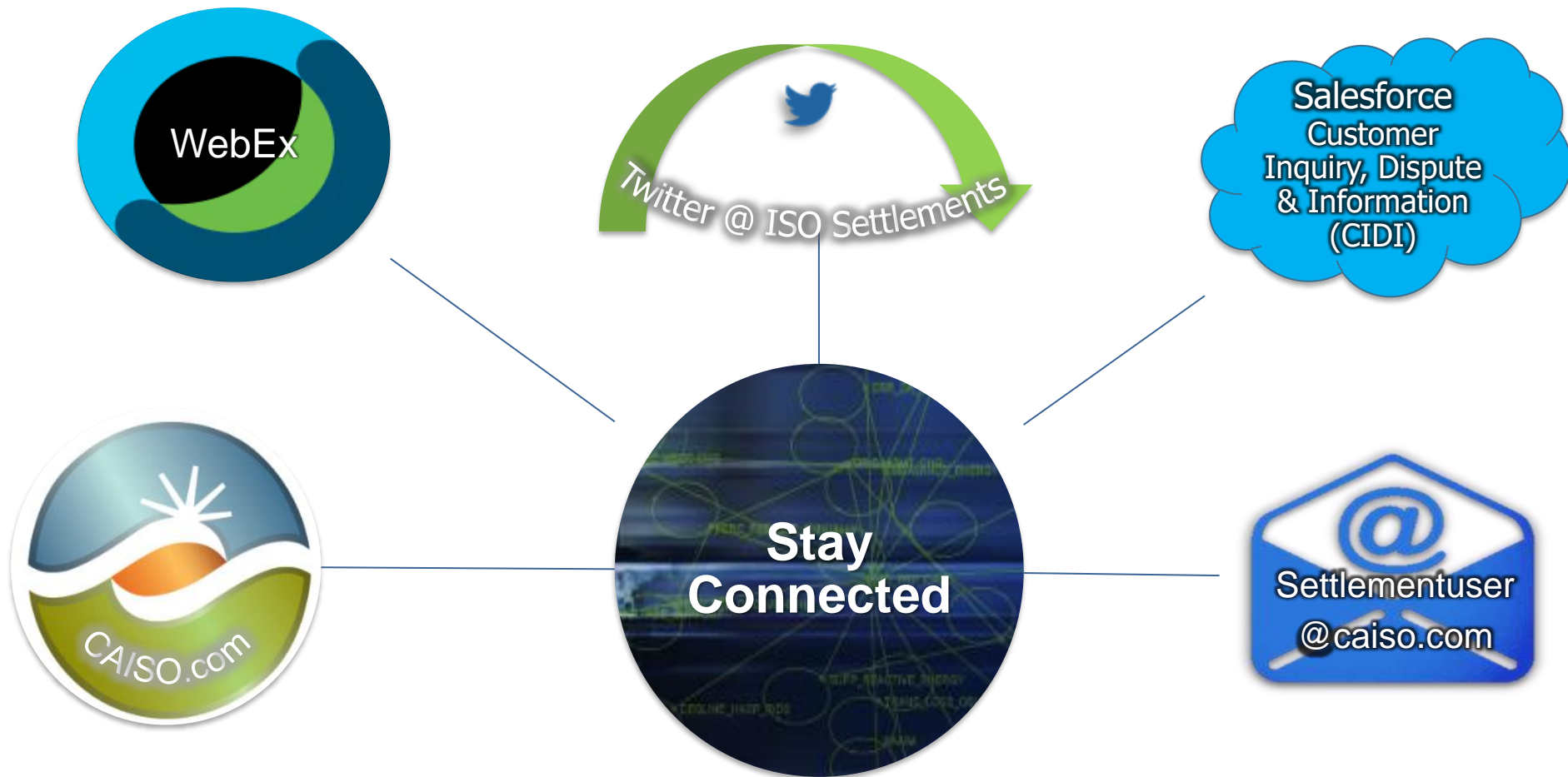
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Meeting Agenda posted Holiday

# Next SUG Meeting: Aug 4, 2021

at 10:00 A.M



# Settlement References

- Settlement User Group Calendar 2021
- Knowledge Articles
- ISO Settlements Twitter Page
- Ways to Participate in Settlements



# Settlement User Group Calendar 2021

Market Services

Settlement User Group Meetings

Note: dates subject to change; for the latest information please visit the Calendar on [www.caiso.com](http://www.caiso.com) and follow us on Twitter @ISOSettlements



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Meeting Agenda posted Holiday



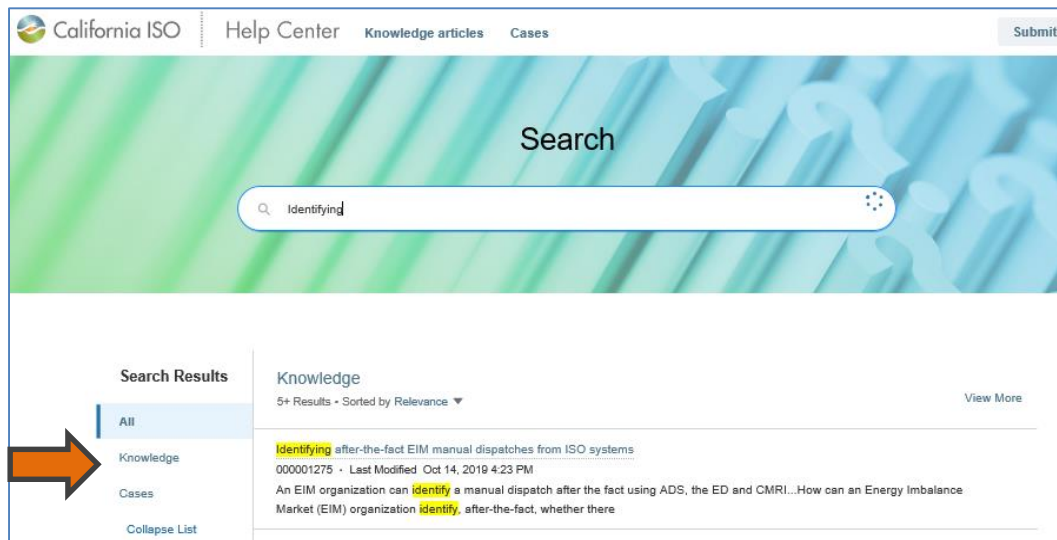
# Knowledge Articles

CAISO has posted **Knowledge Articles** for FAQs in CIDI.

To access the articles in CIDI, you either:

**Option 1:** Type in the keyword “**Identify**” in the search field to pull up the article, or

**Option 2:** Click on the **Knowledge Articles** tab, and then click the **Settlements and Metering** category link to pull up a list of the Settlements related articles.



## Posted Knowledge Articles to date:

- RC rate location
- RC Informational Statement
- RC services charge
- 2019 prorated RC charge
- Payment calendar
- ED-DPMIN
- After-the-Fact EIM Manual Dispatches from ISO systems
- Validate Mitigated prices in DA, RTPD (FMM) and RTD
- Calculation of meter data for TG resources
- Pricing node (Pnode) price used for CRR Settlement
- In relation to the Day-Ahead Nodal Pricing Model, the California ISO has posted a Market Analysis report to its website for market participant review. [Nodal Pricing Model Report v1](#)

# 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](#) 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
- Save twitter page as a 'Favorite' on your tab



# Ways to participate in settlements

- ISO Settlements Twitter Page
  - <https://twitter.com/isosettlements>
- Visit the Settlements page
  - <http://www.caiso.com/market/Pages/Settlements/Default.aspx>
- Attend web conference meetings
  - Settlement User Group (SUG) bi-weekly meetings
    - Release User Group
    - Market Sim Conference Calls
    - Initiative status with settlement updates
    - <http://www.caiso.com/StakeholderProcesses/>
    - [System change with settlement updates on independent releases](#)
- BPM 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>
  - <http://www.caiso.com/Documents/ISO-AcronymList.pdf>

# Settlement User Group

Thank you for participating in our call

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 Follow us on Twitter @ISO Settlements