

Settlement User Group

June 23, 2021

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

| Web Conference Information Conference Call Information | | | | | | |
|--|------------------|--|--|--|--|--|
| Web Address: <u>https://caiso.webex.com/meet/settlementuser</u> Meeting Number: 961 854 046 | | | | | | |
| Audio connection instructions will be available after connecting to the web conference. When prompted, select "Call me" and US Toll : 1- 682-268-6591 | | | | | | |
| enter your phone number you will use during the call. Access Code: 961 854 046 | | | | | | |
| 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. | | | | | | |
| The recording will be posted on our website and be available for a short period of time until July 7, 2021. Please m 🛛 Muteur 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. | | | | | | |
| To ask a question after each topic, unmute yourself before asking your question, or enter question on the O Chat | | | | | | |
| please state your name and affilia | tion. Thank you. | | | | | |



Settlement User Group Agenda

Wednesday, June 23, 2021

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

Unmute

| Time | Торіс | Presenter |
|-----------------------------------|---|---|
| 10:00 – 10:02 | Welcome and Introduction | Brenda Corona |
| 10:02 – 11:00 | Settlements | |
| | Summer/Q2 2021 Settlement Release | Elizabeth Caldwell, Luis Cantos |
| | Fall/Q3 2021 Settlement Release | Elizabeth Caldwell |
| | PRR and BPM updates | Brenda Corona |
| | Market Simulation 2021 Updates | Anshuman Vaidya, Trang Vo |
| | Market Simulation Settlement Calendar | Assad Al-Baijat |
| | Real Time Settlements Phase 2 | Luis Cantos |
| | Customer Readiness 2021 Training | Radha Madrigal |
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Summer/Q2 2021 Settlement Release

- Release scope: Summer 2021 Readiness: Make Whole/Uplift Settlement for Economic Bid Hourly Block Resources with FMM Inc Import or FMM Dec Export.
- 1st draft tech docs posted: 4/7
- 1st draft config output file + release component summary + updated tech docs: 4/21
- 2nd draft config output file posted: 5/11
- Market sim in progress: 4/26 7/6
 - Conference calls are bi-weekly, Monday + Thursday
 - Stay current thru <u>Release User Group (RUG)</u>, every other Tuesday 10-11am
 - Next RUG on 6/29
- 3rd draft config output file + updated release component summary posted: 6/22
 - Additional configuration change to CC 6483 to resolve design gap
 - Threshold value applied to CC 6456
 - Executed + published rerun statement for TD 6/4 to demo changes
- Pre-prod configuration output file + release artifacts to post: *revised date 6/25*
- Prod deployment target: 6/29
 - Configuration effective date: **retro**, **6/1** to meet system processing requirements
 - Upstream data flow expected: 6/15, uplift would only calc on or after this date
 - Some TD processing may miss T+9 if uplift occurs, will reflect on T+70B



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 in release component summary
- 1st draft tech docs posted: 5/28
- 1st draft config output file + release component summary posted: 6/14
- 2nd draft config output file + updated release component summary to post: **7/21**
- 3rd draft config output file + updated release component summary to post: *revised date* 8/25
- Market sim targeting: revised dates 8/30 10/1
- Pre-prod configuration output file + release artifacts to post: *revised date* **10/20**
- Anticipated prod deployment: *revised date* **10/27**



PRR and BPM Updates

To view all details for the PRRs in the BPM Change Management application

| PRR | Title | | Status for all |
|------|--|--|--|
| 1338 | Configuration change to MD over control area calculation applicable to pre and post-excess behind the meter formulas to correctly pass data into 8835 and to properly pro-rate the LAP neutrality allocation. | 12 configuration guides | PRRs final decisions will be posted by the end of this week. |
| 1339 | Configuration change to exempt both contracted internal pseudo-ties and resources with valid ETC/TOR contracts from intertie deviation settlement penalty charges calculated under charge code 6456 | CG CC 6456 Intertie Deviation Settlement | * * |
| 1350 | Created 6483 Hour-Ahead Scheduling Process Uplift (HASP) Settlement, and 6484 HASP Uplift Settlement Allocation to accommodate the changes as per the Real Time Market Import & Export Market Incentives during Tight System Conditions Initiative | CG CC 6483 HASP Uplift Settlement CG CC 6484 HASP Uplift Settlement Allocation | |

Business Practice Manual Proposed Revision Request Tracking Log



ISO Public

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Fall/Q3 2021 - Settlement Release – PRRs Forthcoming

| Project | Charge Codes |
|--|--|
| Intertie shadow pricing resolution Effective Date: 11/1/2021 | 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 |
| | 64740 Real-Time Unaccounted for EIM Energy Settlement v5.3 6985 Real Time Marginal Losses Offset v5.7 Real Time Congestion v5.7 |
| Energy storage and distribution energy resources phase 4 Effective date: 11/1/2021 | RTM Net Amount v5.36 |
| Short long start definition initiative Effective date: 11/1/2021 | RA Availability Incentive Mechanism 5.10.0a CG PC Start-Up and Minimum Load Cost v5.18 |



(i)

Link to Draft Guides

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Market Simulation Summer 2021 Updates

| | | <u>Start Date</u> (Trade Date) | <u>End</u> Date | Structured Simulation Start (Trade Date) | Go Live Date |
|--|----------|--|--------------------|--|---|
| Summer 2021 Release Market Simulation | 04/26/21 | 04/26/21 | 07/06/ 21 | 05/10/21 | |
| Resource adequacy enhancements track 1 Phase 2 – Scenario 3,4,5 OMS Prevention of Extension; Overlapping Outages; Prevention of Curtailment Increase; Ambient Outages | | Phase 2 – 6/16 OMS Changes - 6/28 | | Phase 2 – 6/17 OMS Changes - 6/28 | Phase 2- June 30 OMS Changes - July 12 |
| Summer 2021 readiness Phase 3 – Scenario 3,4 | | Phase 3 – 6/14 | | Phase 3 - 6/17 | Phase 3 – June 30 |
| Summer 2021 readiness Export, wheeling, and load scheduling priorities | | 6/30 | 7/6 | TBD | By July 15 |

Presentation - Market Simulation Summer 2021 Release - Jun 21, 2021 Market Simulation Plan -Summer 2021 Release





ISO Public

Market Simulation Initiatives – Summer 2021 Updates

Resource adequacy enhancements track 1

- Structured: Phase 2: June 17
 - Structured Scenarios document <u>http://www.caiso.com/Documents/MarketSimulationResourceAdequacyEnhancementTrack1.pdf</u>

Summer 2021 readiness

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- Structured: Phase 3: June 17
 - Structured Scenarios document -<u>http://www.caiso.com/Documents/MarketSimulationStructuredScenariosSummerReadiness2021.p</u> <u>df</u>



Market Simulation Calendar

| <i> </i> | California ISO 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 | | | |
| 07-Jun-21 | Monday | 4-Jun | 3-Jun | Monthly Initial 25-May -27-May | | 25-May | Daily Initial 25-May; 26-May; 27-May Monthly Initial 25-May - 27-May | | |
| 08-Jun-21 | Tuesday | 7-Jun | 4-Jun | | | 26-May | | | |
| 09-Jun-21 | Wednesday | 8-Jun | 7-Jun | 2-Jun | 2-Jun | 27-May | | | |
| 10-Jun-21 | Thursday | 9-Jun | 8-Jun | 3-Jun | 3-Jun | Monthly Recalc 25-May -27-May | Daily Recalc 25-May; 26-May; 27-May Monthly Recalc 25-May - 27-May | | |
| 11-Jun-21 | Friday | 10-Jun | 9-Jun | 4-Jun; Monthly Initial 02-Jun -04-Jun | 4-Jun | | Daily Initial 02-Jun; 03-Jun; 04-Jun Monthly Initial 02-Jun-04-Jun | | |
| 12-Jun-21 | Saturday | | | | | | | | |
| 3-Jun-21 | Sunday | | | | | | | | |
| 4-Jun-21 | Monday | | 10-Jun | 7-Jun | 7-Jun | 2-Jun | | | |
| 15-Jun-21 | Tuesday | | | 8-Jun | 8-Jun | 3-Jun | | | |
| 16-Jun-21 | Wednesday | 15-Jun | | 9-Jun | 9-Jun | 4-Jun; Monthly Recalc 02-Jun -04-Jun | Daily Recalc 02-Jun; 03-Jun; 04-Jun Monthly Recalc 02-Jun -04-Jun | | |
| 17-Jun-21 | Thursday | | 15-Jun | 10-Jun | 10-Jun | 7-Jun | | | |
| 18-Jun-21 | Friday | 17-Jun | | Monthly Initial 07-Jun -10-Jun | | 8-Jun | Daily Initial 07-Jun; 8-Jun; 9-Jun; 10-Jun Monthly Initial 07-Jun -10-Jun | | |
| 19-Jun-21 | Saturday | | | | | | | | |
| 20-Jun-21 | Sunday | | | | | | | | |
| 21-Jun-21 | Monday | | 17-Jun | | | 9-Jun | | | |
| 22-Jun-21 | Tuesday | | | 15-Jun | 15-Jun | 10-Jun | | | |
| 23-Jun-21 | Wednesday | 22-Jun | | | | Monthly Recalc 07-Jun -10-Jun | Daily Recalc 07-Jun; 8-Jun; 9-Jun; 10-Jun Monthly Recalc 07-Jun -10-Jun | | |
| 24-Jun-21 | Thursday | 23-Jun | 22-Jun | 17-Jun | 17-Jun | | | | |
| 25-Jun-21 | Friday | 24-Jun | 23-Jun | Monthly Initial 15-Jun -17-Jun | | 15-Jun | Daily Initial 15-Jun; 17-Jun Monthly Initial 15-Jun -17-Jun | | |



Market Simulation Calendar (cont'd)

| <i> </i> | Californi | a ISO | STAGE) | | | | |
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| Calendar Day | Day | CMRI T+1B | Submit Meter Data by T+2B 10:00 AM for Initial | Publish Initial Statement T+5B | hrough Jul 6, 2021 Submit Meter Data by T+5B 18:00 for Recalc | Publish Recalc Statement T+8B | Publish Market Invoice |
| | _ | | | T+9B | | T+70B | |
| 8-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 |

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Real Time Settlement Review Phase 2

- To support the Real Time Settlement Review Phase 2 initiative, updating configuration to allow EIM entities using a load derivation approach the option not to settle unaccounted for energy (UFE).
- Charge codes modified:
- Unaccounted for energy (UFE) related changes
 - CC 64740 Real-Time Unaccounted for EIM Energy Settlement v5.3
 - CC 6985 Real Time Marginal Losses Offset v 5.7
 - PC Real Time Congestion v 5.7



ISO Instructor-Led Training Sessions

Visit the caiso.com **Learning Center** web page to access our training calendar, register for courses and find other informational resources: <u>http://www.caiso.com/participate/Pages/LearningCenter/default.aspx</u>

| Training Courses and workshops | Date and time |
|---|-------------------------------------|
| Market Enhancements for Summer 2021 Readiness – Part 3 (Load, export, and wheeling priorities) | June 24, 2021 (10am-11am) |
| New Process for Submitting Ongoing Obligation Requirements and CIDI | June 24, 2021 (11am-noon) |
| Energy Storage and Distributed Energy Resources – Phase 4 (Tentative) | August 31, 2021 (9:30am-11:00am) |
| Short-Long Start Definitions Training (Tentative) | September 7, 2021 (1pm-2:30pm) |
| Hybrid Resources – Phase 2 (Tentative) | September 9, 2021 (10am-11:30am) |
| Real-time Settlements Review – Phase 2 (Tentative) | TBD – First week of Sept. |
| Variable Operations and Maintenance Cost Review (Tentative) | October 14, 2021 (11am – noon) |

All Summer Readiness related webinar recordings are available on <u>www.caiso.com</u> in the Learning Center and on the Summer Readiness release page.



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: <u>http://www.caiso.com/participate/Pages/LearningCenter/default.aspx</u>

Computer Based Training – Settlements

There are more than <u>30</u> computer based training modules on the ISO website covering:

| RC Settlements | http://www.caiso.com/CBT/RC-Settlements/rc-settlements.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 | | | | |
| Market Pricing | http://www.caiso.com/CBT/Market-Pricing/story.html | | | | |
| Full Network Model | http://www.caiso.com/CBT/FullNetworkModel/FullNetworkModel.html | | | | |
| New initiatives training course on the learning center web page and retooling Settlements trainings | | | | | |

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Settlement Corner

| FERC 841- requested adjustments – Link Renewable and energy storage - Link Fall Release Projects – Link Transportation electrification and micro grids Link Hybrid Resource Phase 1b - Link FERC 841- requested adjustments – Link Settlement | Upcoming Topics | Previous Topics | Published Knowledge Articles |
|---|-----------------|--|---|
| Real Time Settlement Review <u>Link</u> | | Bid Cost Recovery - Link FERC 841- requested adjustments - Link Renewable and energy storage - Link Fall Release Projects - Link Transportation electrification and micro grids Link Hybrid Resource Phase 1b - Link Real Time Settlement Review | 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) Pricing node (Pnode) price used for CRR |



Submit

topics to us at *twitter.com/isosettlements.com*





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 and follow us on Twitter @ISOSettlements

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| | July | | | | | | | | | |
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| | October | | | | | | | | | |
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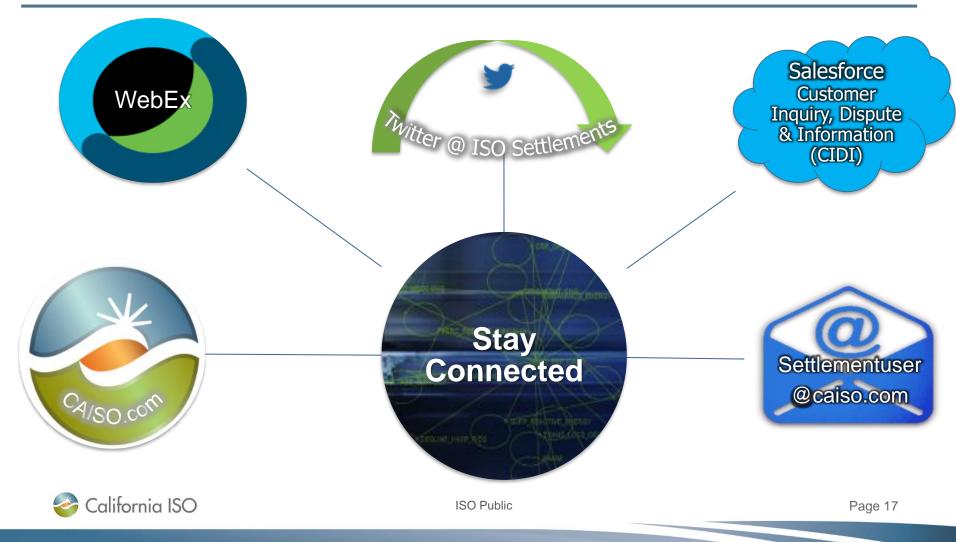
Agenda posted

Holiday



Next SUG Meeting: July 7, 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 and follow us on Twitter @ISOSettlements

| | January | | | | | | | | | |
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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.

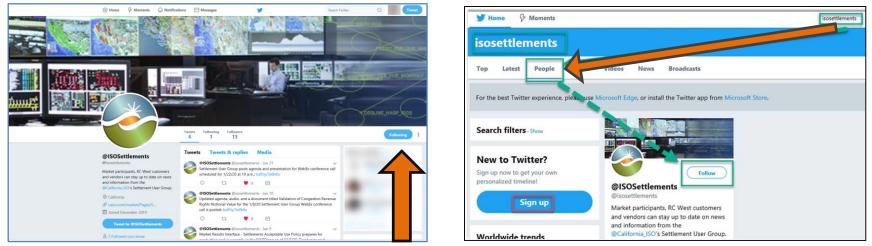
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Posted Knowledge Articles to date:

- 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. <u>Nodal Pricing Model Report</u> v1

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
- Save twitter page as a 'Favorite' on your tab





ISO Public

Ways to participate in settlements

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



Settlement User Group

Thank you for participating in our call



