



Release User Group Agenda

November 6th, 2018

10:00 a.m.–11:00 a.m. (Pacific Time)

Web Conference Information	Conference Call Information
<p>Web Address: https://caiso.webex.com/meet/RUG Meeting Number: 960 941 245</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 International Dial-in: 216-706-7052 Access Code: 291 426 5</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 publicly 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.</p>	

Release User Group Agenda

November 6th, 2018

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

Time	Topic	Facilitator
10:00 – 10:05	Agenda & ISO Roll call	Adrian Chiosea
10:05 – 10:45	Release Plan	Joanne Alai Heidi Carder Eureka Cullado Marcelo Da Costa Trang Deluca Ayman Fattah Jami Herguth Cynthia Hinman Mohan Koya Deann MacDougall Christopher McIntosh LeAnne McLaughlin Janet Morris Indu Nambiar Prince Phillip Raeann Quadro Raymond Riley LuAnn Rivera Craig Williams John Williams Justin Wong

The ISO offers innovative training programs



CustomerTraining@caiso.com

Date	Training
-----	No courses scheduled at this time

New Modules (recorded webinar and slides)	
Generator Contingency and Remedial Action Scheme Modeling (GCARM)	
Congestion Revenue Rights (CRR) Auction Efficiency – Track 1A and Track 1B	
Commitment Cost Enhancements Phase 3 (CCE3)	
EIM Enhancements 2018	
Energy Storage / Distributed Energy Resources Phase 2	
Eligible Intermittent Resource Dispatch Operating Target (EIR DOT)	
Greenhouse Gas (GHG) Enhancements for EIM	
Welcome to the ISO (find under Markets and Operations learning track)	

New computer-based training (CBT) courses	
ISO Orientation	Master File
Day-Ahead Overview	Emergency Response & Abnormal Operations
Real-Time Overview	Outages Overview

Visit our **Learning Center** web page to access our training calendar, register for courses and find other useful resources, including computer based training courses, recorded webinars and new release training materials at:

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

Release Plan Summary: 2018 – Independent 2019

Independent 2018

- Imbalance Conformance Enhancements (ICE)
- Congestion Revenue Right Auction Efficiency 1B

Independent 2019

- Generator Contingency and Remedial Action Scheme (RAS) Modeling
- Automated Dispatch System (ADS) User Interface (UI) Replacement
- FERC Order 844 Uplift Cost Allocation & Transparency

Spring 2019

- Commitment Cost Enhancement (CCE) Phase 3
- Energy Imbalance Market (EIM) 2019 Balancing Authority of Northern California (BANC) / Sacramento Municipal Utility District (SMUD)

Fall 2019 – tentative, subject to impact assessment

- Commitment Costs and Default Energy Bid Enhancements
- Dispatch Operating Target Tariff Clarifications (July 2018 BOG briefing)
- Energy Storage and Distributed Energy Resources Phase 3 (Sept 2018 BOG)

Release Plan Summary: Fall 2019 – Spring 2020

Spring 2020

- Energy Imbalance Market (EIM) 2020 Salt River Project
- Energy Imbalance Market (EIM) 2020 Seattle City Light
- Energy Imbalance Market (EIM) 2020 Los Angeles Dept. of Water and Power

Fall 2020

- Contingency Modeling Enhancements - Transmissions
- DAME 15 Minute Granularity

TBD – tentative, subject to impact assessment

- Excess Behind the Meter Production (TBD BOG)
- Extend Day-Ahead Market Enhancements to EIM Entities (Q3/4 2019 BOG)
- Interconnection Process Enhancements (Q3 2018 BOG)
- Intertie Deviation Settlement (March 2019 BOG)
- Local Power Mitigation Enhancements (Q1 2019 BOG)
- RA Enhancements Track 2 (Mar 2019 BOG)
- RMR and CPM Enhancements (March 2019 BOG)
- Storage as a Transmission Facility (Feb 2019 BOG)

Release Schedule 2018 – Spring 2019

Date of Data Refresh: 11/2/18 2:01 PM



Legend	
Market Simulation	
CA ISO Holiday	
Deployment Week	



MAP Stage Environment Window

EIM - BANC-SMUD	EIM - BANC-SMUD (08/15-01/31)
Generator Contingency and RAS Modeling	Generator Contingency and RAS Modeling (09/10-02/01)
CRR Auction Efficiency 1B	CRR Auction Efficiency 1B (11/05-12/21)
CRR Auction Efficiency 1B - Market Sim	CRR Auction Efficiency 1B - Market Sim (11/05-11/28)
EIM - BANC-SMUD - Market Sim	EIM - BANC-SMUD - Market Sim (12/03-01/31)
FNM Promotion 2018Q4	FNM Promotion 2018Q4 (12/11-12/12)
FERC 844 - Uplift Cost Allocation and Transparency	FERC 844 - Uplift Cost Allocation and Transparency (01/24-02/05)
FERC 844 - Uplift Cost Allocation and Transparency - Market Sim	FERC 844 - Uplift Cost Allocation and Transparency - Market Sim (01/24-01/31)
EIM - Seattle City Light	EIM - Seattle City Light (08/15-01/31)
EIM - Los Angeles Dept of Water and Power	EIM - Los Angeles Dept of Water and Power (08/15-01/31)

Production Environment Window

ESDER Phase 2 Production Deployment - MRI-S Patch	ESDER Phase 2 Production Deployment - MRI-S Patch (11/09-11/09)
FNM Promotion 2018Q4	FNM Promotion 2018Q4 (11/27-11/29)
CRR 1B: Settlement Provisions	CRR 1B: Settlement Provisions (12/28-12/28)
Imbalance Conformance Enhancements	Imbalance Conformance Enhancements (01/17-01/17)
Generator Contingency and RAS Modeling	Generator Contingency and RAS Modeling (02/01-02/01)
EIM Enhancements 2018	EIM Enhancements 2018 (02/06-02/06)
FERC 844 - Uplift Cost Allocation and Transparency	FERC 844 - Uplift Cost Allocation and Transparency (02/11-02/11)
EIM - BANC-SMUD	EIM - BANC-SMUD (04/03-04/03)
ESDER Phase 3	ESDER Phase 3 (10/01-10/01)
RC Onboarding	RC Onboarding (11/01-11/01)

<http://www.caiso.com/Documents/ReleaseSchedule.pdf>

2018 Independent Projects

2018 – Imbalance Conformance Enhancements

Project Info	Details/Date
Application Software Changes	Improve RTPD, RTD limiter algorithm to better adjust for factors before and after conformance (Inc. VER deviations; other patterns observed from conformance studies; and after conformance value entered - ramping across multiple intervals rather than today's one interval). In scope for delivery in early 2019.
BPM Changes	Definitions & Acronyms BPM. The ISO is replacing the term 'load biasing' with 'imbalance conformance'

Milestone Type	Milestone Name	Dates	Status
Board Approval	Obtain Board of Governors Approval	May 16, 2018	✓
External BRS	Post External BRS	Jul 10, 2018	✓
Config Guides	Post Config Guides	N/A	
Tech Spec	Publish Technical Specifications	N/A	
Tariff	File Tariff	Nov 15, 2018	
BPMs	Post Draft BPM changes	Nov 14, 2018	
	Publish Final Business Practice Manuals	Jan 15, 2019	
External Training	External Training Complete	N/A	
Market Simulation	Market Sim Window	N/A	
Production Activation	Imbalance Conformance Enhancements	Jan 17, 2019	

2018 - CRR Auction Efficiency – 1B

Project Info	Details/Date
Application Software Changes	<p>Targeted reduction of congestion revenue rights payouts on a constraint by constraint basis</p> <p>CRRS: Calculate offset MW for netted CRRs per portfolio per constraint/contingency case per hour:</p> <ul style="list-style-type: none"> • Calculate netted CRR portfolio proportion of netted flow on constraint (alpha) • Calculate IFM constraint flow difference (CFD) • Calculate netted CRR portfolio Offset MW = alpha x CFD • Calculate netted CRR portfolio Notional, Offset, Clawback and Circular Scheduling Revenue values <p>Settlement:</p> <p>Daily Settlement:</p> <ul style="list-style-type: none"> • Daily CRR Settlement value based on results of constraint-based calculations • Daily CRR Surplus Distribution Payment from available constraint-specific funds (In CC6700) • Daily surplus and deficits per constraint managed during the month <p>Monthly Settlement - at end of each month</p> <ul style="list-style-type: none"> • Monthly CRR Surplus Distribution Payment from available constraint-specific funds (New CC6701) • Residual funds allocated to Balancing Account and measured demand. (New CC6706) <p>CMRI: Report individual CRR's Notional, Offset, Clawback and Circular Scheduling Revenue values</p> <p>OASIS: Report constraint-based data affecting CRR settlements</p> <p>Market Clearing/Credit Tracking: Process new charge codes</p>

2018 - CRR Auction Efficiency – 1B

Project Info	Details/Date
BPM Changes	<ul style="list-style-type: none"> • Congestion Revenue Rights • Definitions & Acronyms • Market Instruments • Market Operations • Settlements & Billing
Business Process Changes	<ul style="list-style-type: none"> • Manage Operations Support & Settlements (MOS) / Manage Market Billing & Settlements

Milestone Type	Milestone Name	Dates	Status
Board Approval	BOG Presentation and Approval - Track 1B	Jun 21, 2018	✓
External BRS	Post External Draft BRS	Aug 06, 2018	✓
Config Guides	Post Draft Configuration Guides	Sep 10, 2018	✓
Tech Spec	Create ISO Interface Spec (Tech spec)	Sep 10, 2018	✓
Tariff	File Tariff	Jul 17, 2018	✓
	Update Tariff and Refile with FERC	Oct 01, 2018	✓
BPMs	Post BPM (Draft)	Nov 05, 2018	
External Training	Deliver external training	Oct 31, 2018	✓
Market Sim	CRR Auction Efficiency 1B	Nov 05, 2018 - Nov 28, 2018	
Production Activation	CRR Auction Efficiency 1B	Dec 28, 2018	
	65% Transmission Capacity for CRR Allocation & Auction	Sep 24, 2018	✓
	Settlement Provisions	Dec 28, 2018	

2019 Spring Release

Spring 2019 - Commitment Cost Enhancements Phase 3

Project Info	Details/Date
Application Software Changes	<p>Scope:</p> <ol style="list-style-type: none"> 1. Clarify use-limited registration process and documentation to determine opportunity costs 2. Determine if the ISO can calculate opportunity costs <ul style="list-style-type: none"> • ISO calculated; Modeled limitation Start/run hour/energy output • Market Participant calculated; Negotiated limitation 3. Clarify definition of “use-limited”; add MSG Configuration ID to ULPDT 4. Change Nature of Work attributes (Outage cards) <ul style="list-style-type: none"> • Modify use-limited reached for RAAIM Treatment • Allow PDR to submit use-limit outage card for fatigue break. 5. Market Characteristics (added to GRDT in Spring 2018) shall be Read-Only and set to Null <ul style="list-style-type: none"> • Maximum Daily Starts • Maximum MSG transitions • Ramp rates <p>Impacted Systems:</p> <ol style="list-style-type: none"> 1. Master File: Set use-limited resource types and limits 2. ECIC: Process use limited resource input values for and Receive opportunity cost adders from opportunity cost tool 3. CIRA: RAAIM exempt rule for “use-limited reached” 4. CMRI: Publish opportunity cost 5. SIBR: Add Opportunity cost adders on bid caps 6. OMS: “Use-Limited Reached” nature of work attribute for Generation Outage Card 7. Settlements: Publish the actual start up, run hour and energy output for the use-limited resources 8. Opportunity cost calculator (OCC): Calculate and publish opportunity costs for start-up, MLC and DEB
BPM Changes	Market Instruments, Outage Management, Reliability Requirement, Market Operations
Business Process Changes	<ul style="list-style-type: none"> • Manage Market & Reliability Data & Modeling • Manage Markets & Grid

Spring 2019 - Commitment Cost Enhancements Phase 3 (cont.)

Project Info	Details/Date
FERC ruling: CCE3 changes	<p>Updates:</p> <ol style="list-style-type: none"> 1. As a result of FERC's ruling against CAISO's proposal to allow scheduling coordinators to register market values for resource characteristics in the Master File, changes have been made to prevent the collection of this data. 2. This resulted in Technical Specification, RDT, and validation rule changes, which have been posted to the CAISO website.

Milestone Type	Milestone Name	Dates	Status
Board Approval	Board of Governors (BOG) Approval	Mar 25, 2016	✓
External BRS	Post Updated External BRS	Aug 21, 2017	✓
Config Guides	Config Guide	May 17, 2018	✓
Tech Spec	Publish Updated Master File Technical Specification, GRDT/IRDT Definitions	Jul 13, 2018	✓
	Publish updated CMRI Tech Spec, updated API for Use Limit Type Enumeration update	Aug 02, 2018	✓
Tariff	Draft Tariff	Jul 31, 2017	✓
	File Tariff	Mar 23, 2018	✓
BPMs	Publish Draft BPM: Outage Management	Nov 30, 2018	
	Publish Draft BPM: Reliability Requirements	Nov 30, 2018	
	Publish Draft BPM: Market Instruments	Oct 19, 2018	✓
	Publish Draft BPM: Market Operations	Oct 19, 2018	✓
External Training	Deliver external training	Sep 10, 2018	✓
Market Simulation	Full Market Simulation Testing	Sep 05, 2018 - Oct 12, 2018	✓
Production Activation	Commitment Costs Phase 3	Apr 01, 2019	
	CCE3 Deployment to Production: Master File	May 16, 2018	✓

Spring 2019 – EIM BANC/SMUD

Project Info	Details/Date
Application Software Changes	Implementation of SMUD as an EIM Entity
BPM Changes	EIM BPM will be updated if needed to reflect new modeling scenarios identified during implementation and feedback from SMUD.
Market Simulation	December 3, 2018 – January 31, 2019
Parallel Operations	February 1, 2019 – March 30, 2019

Milestone Type	Milestone Name	Dates	Status
Tariff	File Readiness Certification	Mar 01, 2019	
Market Sim	Market Sim Window	Dec 03, 2018 - Jan 31, 2019	
Parallel Operations	Parallel Operations	Feb 1, 2018 - Mar 30, 2019	
Production Activation	EIM - BANC-SMUD	Apr 03, 2019	

2019 Independent

2019 – Generator Contingency and Remedial Action Scheme Modeling

Project Info	Details/Date
Application Software Changes	<ul style="list-style-type: none"> Enhance the Security Constrained Economic Dispatch <ul style="list-style-type: none"> Model generation/load loss in the dispatch Model transmission loss along and generation/load loss due to RAS operation dispatch Model transmission reconfiguration due to RAS operation in the dispatch Update the congestion component of LMP so that it considers the cost of positioning the system to account for generator contingencies and RAS operations Enhance DAM, RTM and EIM to support generator contingencies Impacted systems: <ul style="list-style-type: none"> CRR, EDR, EMMS, IFM/RTM, Integration, MF.
BPM Changes	Managing Full Network Model CRR Market Operations EIM
Business Process Changes	<ul style="list-style-type: none"> Manage Congestion Revenue Rights (MMR LII) Manage Operations Planning Manage Real Time Operations - Transmission & Electric System (MMG LII)

Milestone Type	Milestone Name	Dates	Status
Board Approval	Obtain Board of Governors Approval	Sep 19, 2017	✓
External BRS	Complete and Post External BRS	Mar 16, 2018	✓
Config Guides	Post Draft Config Guides	N/A	
Tech Spec	Create ISO Interface Spec (Tech spec)	N/A	
Tariff	File Tariff	Nov 28, 2018	
BPMs	Post Draft BPM changes	Dec 05, 2018	
External Training	Deliver external training	Sep 12, 2018	✓
Market Sim	Market Sim Window	Sep 17, 2018 - Oct 12, 2018	✓
Production Activation	Generator Contingency and RAS Modeling	Feb 01, 2019	

2019 – ADS Replacement

Project Info	Details/Date
Application Software Changes	<ul style="list-style-type: none"> • Transition to web-based user interface to eliminate the need to install thick client • Transition ADS provisioning to the Access and Identity Management (AIM) application including Resource Level Access Controls (RACL) access • The query tool will provide 30 days of historical data • Move near-term transactions for FERC-764 15-minute awards to ADS; This will include user interface; historical transactions will stay in CMRI. • Various user interface enhancements adding content per Operation's request • ADS B2B services will not otherwise change.
BPM Changes	<ul style="list-style-type: none"> • Market Instruments • Market Operations
Business Process Changes	To Be Determined

Milestone Type	Milestone Name	Dates	Status
Board Approval	Obtain Board of Governors Approval	N/A	
External BRS	Post External BRS	Aug 06, 2018	✓
ADS Update	ADS Update Meeting	Aug 15, 2018	✓
Config Guides	Design Review - BPM and Tariff SMEs	N/A	
Tech Spec	Publish Technical Specifications	TBD	
Tariff	File Tariff	N/A	
BPMs	Post Draft BPM changes	TBD	
	Publish Final Business Practice Manuals	TBD	
External Training	Conduct External Training	TBD	
Market Sim	Market Sim Window	TBD	
Production Activation	ADS Replacement	TBD	

2019 – FERC 844 Uplift Cost Allocation & Transparency

Project Info	Details/Date
Application Software Changes	<ul style="list-style-type: none"> Order No. 844 directs CAISO to post three monthly reports: <ol style="list-style-type: none"> A zonal uplift report of all uplift payments categorized by transmission zone, day, and uplift category that must be posted within 20 calendar days of the end of each month; A resource-specific report of the total amount of uplift paid to each resource, aggregated across the month, that must be posted within 90 calendar days of the end of each month; and An operator-initiated commitment report listing the commitment size, transmission zone, commitment reason, and commitment start time of each operator-initiated commitment that must be posted within 30 calendar days of the end of each month. CAISO must include in its tariff the transmission constraint penalty factors used in its market software, as well as any circumstances under which those penalty factors can set locational marginal prices, and any process by which CAISO can temporarily change the penalty factors.
BPM Changes	Market Instruments
Business Process Changes	<ul style="list-style-type: none"> Manage Operations Support & Settlements (MOS)

Milestone Type	Milestone Name	Dates	Status
Board Approval	Obtain Board of Governors Approval	Nov 15, 2018	
External BRS	External Business Requirements	Nov 13, 2018	
Tech Spec	Create ISO Interface Spec (Tech spec)	Nov 28, 2018	
Tariff	File Tariff	Nov 13, 2018	
BPMs	Post Draft BPM changes for Market Instruments	Dec 28, 2018	
External Testing	External Testing Window	Jan 24, 2019 - Jan 31, 2019	
Production Activation	FERC 844 - Uplift Cost Allocation and Transparency	Feb 11, 2019	

2019 Fall Release

Fall 2019 – Commitment Cost and Default Energy Bid Enhancements

Project Info	Details/Date
Application Software Changes	<p><u>Scope:</u> Enhances the ability to submit market-based commitment cost bids in order to reflect unique costs and volatility:</p> <ul style="list-style-type: none"> • Support integration of renewable resources through incentivizing flexible resources participation during tight fuel supply • Account for costs of flexible resources (gas and non-gas) to reduce risk of insufficient cost recovery • Encourage participation of non-RA and voluntary EIM resources; compliance with FERC Order 831 • Raises energy bid cap from \$1,000/MWh to \$2,000/MWh: • Requires supporting verified costs of energy bids above \$1,000/MWh • Introduces market power mitigation (MPM) measures for commitment costs. <p><u>Impacted Systems:</u></p> <ul style="list-style-type: none"> • SIBR: Incorporate negotiated default commitment bids, allow the submittal of Ex Ante cost adjustments. Increase commitment cost caps, increase energy bid caps, incorporate soft energy bid cap. Allow for hourly submittal of minimum load bids into day-ahead market. • IFM/RTM: Add MPM tests for commitment costs. Mitigate commitment costs where tests indicate market power. Incorporate MPM (both energy and commitment) in short term unit commitment process. Recalibrate the penalty price parameters in response to raising energy bid cap to \$2,000/MWh. • CMRI: Provide resource-specific reporting on mitigation results for commitment costs. Provide additional source information for default bids. • MQS/PCA: Incorporate mitigation of commitment costs for specific exceptional dispatch (ED) types. Incorporate bid locking of commitment costs for ED instructions and for certain cases where resources are uneconomic to operating. • Master File: Allow submittal of resource-specific minimum load costs for costs that are independent of the Pmin level. Add the ability to indicate preference for new negotiated cost basis type. Provide a view of resource-specific scalars used for validating Ex-Ante cost adjustments. • CIDI: Incorporate templates for submitting request for manual consultation and ex-post default bid adjustments.

Fall 2019 – Commitment Cost and Default Energy Bid Enhancements

Project Info	Details/Date
BPM Changes	<ul style="list-style-type: none"> Market Instruments Market Operations
Business Process Changes	<ul style="list-style-type: none"> Maintain Major Maintenance Adders (MMG LIII) Maintain Negotiated Default Energy Bids (MMG LIII) Maintain Negotiated O_Ms (MMG LIII) Manage Day Ahead Market (MMG LII) Manage Market Billing Settlements (MOS LII) Manage Real Time Hourly Market (RTPD) (MMG LII) Manage Real Time Operations – Maintain Balance Area (MMG LII)

Milestone Type	Milestone Name	Dates	Status
Board Approval	Obtain Board of Governors Approval	Mar 22, 2018	✓
External BRS	Complete and Post External BRS	Apr 27, 2018	✓
Draft Policy	Publish Draft Business Rules externally	Jan 31, 2018	✓
Config Guides	Post Draft Config Guides	May 23, 2019	
Tech Spec	Publish Technical Specifications	May 23, 2019	
Tariff	File Tariff	Mar 14, 2019	
BPMs	Post Draft BPM changes	Jul 19, 2019	
External Training	Deliver external training	Jul 19, 2019	
Market Sim	Market Sim Window	Jul 22, 2019 – Aug 30, 2019	
Production Activation	CCDEBE	Oct 01, 2019	

2020 Fall Release

Fall 2020 – Contingency Modeling Enhancements Transmissions

Project Info	Details/Date
Application Software Changes	<ul style="list-style-type: none"> • Positions available resources so that the ISO has sufficient capability to respond to contingency events and return facilities to normal ratings within the emergency rating time frame • Enhances the LMP formulation to provide market price signal related to this reliability constraint • Creates a Locational Marginal Capacity Price (LMCP) which reflects: <ul style="list-style-type: none"> • A resource’s opportunity costs • Marginal congestion cost savings, and/or • The marginal capacity value to follow dispatch <p>Systems:</p> <ul style="list-style-type: none"> • ADS - Modified to display corrective capacity awards similar to AS • CMRI - New or modified reports to display LMCP prices and awards • IFM/RTM - Model new capacity awards and Locational Marginal Capacity Price (LMCP). • Integration • OASIS - New or modified reports to display LMCP prices and awards • PCA • Settlements
BPM Changes	Market Operations, Market Instruments, Definitions and Acronyms, Settlements and Billing
Business Process Changes	<ul style="list-style-type: none"> • Manage Operations Planning • Manage Day-Ahead Market • Manage Operations Engineering Support • Manage Real Time Operations - Transmission & Electric System • Manage Market Billings & Settlements

Fall 2020 - DAME 15 Minute Granularity

Project Info	Details/Date
Application Software Changes	<p>These are preliminary impact assessments</p> <p>DAM Enhancements include change the day-ahead market from hourly to 15 minute granularity, combine IFM and RUC, procure imbalance reserves</p> <ul style="list-style-type: none"> • Calculate Imbalance Reserve (IR) Requirements in 15 minute interval (DAM) • EIM interface to submit Base schedule in 15 minute interval (BSAP) • EIM balance test, capacity test and sufficiency test in 15 minute interval (RTM) • Report DAM market results in 15 minute Interval (CMRI) • MP can bid IRU and IRD price in SIBR • DAM co-optimize Energy, AS and IR in 15 minute intervals (DAM) • Remove RUC • Get as self-scheduled 15 minute DAM award of energy in RTM if no real time bids (RTM) • Calculate Settlement DAM Expected Energy in 15 minute interval (RTM) • Calculate Bid cost recovery (MQS) • Settle DAM based on 15 minute interval schedules (Settlement) • Settle CRR in DAM 15 minute intervals (Settlement) • Publish DAM energy and AS requirements and prices in 15 minute interval in OASIS
BPM Changes	Market Instruments, Market Operations, Settlements & Billing, Energy Imbalance markets
Business Process Changes	<ul style="list-style-type: none"> • Manage Day Ahead Market • Manage D+X analysis • Manage Real Time Operations- Maintain Balancing Area • Manage Market Billings & Settlements

Stay Informed

Ways to participate in releases

- Visit the Release Planning page
 - <http://www.caiso.com/informed/Pages/ReleasePlanning/Default.aspx>
- Attend meetings
 - Release Users Group (RUG) bi-weekly meetings
 - Initiative status updates
 - System change updates on independent releases
 - Market Simulation calls
 - Visit the ISO calendar at www.caiso.com for meeting dates and times and add events to your calendar
 - Typically held on Mondays and Thursdays
 - Market sim calls for major releases will be market noticed
 - Market Performance and Planning Forum
 - Bi-monthly review of market performance issues
 - High level discussion of release planning, implementation and new market enhancements

What to look for on the calendar...

Calendar of Meetings, Training and Events

Month: February Year: 2018 Calendar View List View Print View

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	5 WebbCONF: Market Simulation 2:00pm - 3:00pm	6 Training: Get to Know the ISO - Day 1 9:00am - 4:00pm WebbCONF: Imbalance Conformance Enhancements 10:00am - 12:00pm WebbCONF: Technical User Group 10:00am - 11:00am	7 Deadline: Comments - Interconnection Process Enhancements 2018 - Issue Paper and Meeting Discussion Training: Get to Know the ISO - Day 2 9:00am - 4:00pm Meeting: Flexible Resource Adequacy Criteria Must Offer Obligation Phase 2 - Revised Draft Flexible Capacity Framework 10:00am - 4:00pm WebbCONF: Market Settlement User Group 10:00am - 11:00am	8 Meeting: Audit Committee Teleconference (Executive) 3:30pm - 6:30pm Training: Settlements 101 9:00am - 4:00pm Meeting: 2017-2018 Transmission Planning Process 10:00am - 4:00pm WebbCONF: Market Simulation 2:00pm - 3:00pm	9 Training: Settlements 201 9:00am - 4:00pm	10
11 WebbCONF: Participating Transmission Owner Per Unit Cost Guides 10:30am - 12:00pm WebbCONF: Market Simulation 2:00pm - 3:00pm	12 Meeting: Congestion Revenue Rights Auction Efficiency 10:00am - 4:00pm WebbCONF: Release User Group 10:00am - 11:00am Call: Energy Imbalance Market Governing Body Teleconference (Executive) 11:30am - 12:30pm	13 Deadline: Submissions - April 2018 Monthly Resource Adequacy and Supply Plans Call: Congestion Revenue Rights 11:00am - 11:30am WebbCONF: Outage Management System Customer Partnership Group 2:00pm - 3:00pm	14 Deadline: Comments - Review Transmission Access Charge Structure Straw Proposal and Meeting Discussion Call: Board of Governors Teleconference (General) 3:15pm - 6:00pm Call: Board of Governors Teleconference (Executive) 9:00am - 10:00am Call: Market Update 10:15am - 11:00am WebbCONF: Market Simulation	15	16	17

Market Sim



Market Sim



Release Users Group (RUG)

