



California ISO

2021 Summer Readiness Update

Stakeholder Call

June 23, 2021

Agenda

Topic	Presenter
Welcome and introductions	Kristina Osborne
Implementation update	Adrian Chiosea
Operations update	Dede Subakti
Q&A	

Implementation Update

Adrian Chiosea, Senior Manager, PMO

FERC Order 831 – Import Bidding and Market Parameters

FERC 831 – Import Bidding and Market Parameters project focused on achieving two main goals:

1. modify tariff and systems to accommodate bidding flexibility above the \$1000/MWh cap, and
2. apply validation for imported bids.

CAISO revised the tariff to raise the energy bid cap from \$1,000/MWh to \$2,000/MWh. CAISO also revised the tariff to require suppliers within the CAISO balancing authority area (BAA), that submit energy bids above \$1,000/MWh, to base bids on verifiable actual or expected costs.

The FERC 831 project implemented changes:

- A price-screening methodology for import bids greater than \$1,000/MWh.
- A methodology to establish market constraint relaxation penalty prices under a \$2,000/MWh hard energy bid cap.

Phases

The FERC Order 831 project has been divided into two major phases, focused on:

- Phase 1: Order No. 831 FERC compliance – activated March 17
- Phase 2: Order No. 831- related enhancements – activated June 13

Resource Adequacy Enhancements Track 1

Scope activated in Production on 6/3/2021 ✓

- Resource Adequacy Capacity Substitution (POSO)

Scope scheduled to go-live on 6/30/2021

- Operationalizing Storage
 - Minimum State of Charge Requirement

Status:

- Structured market simulation complete
- Market participants unstructured/specific testing underway

Scope scheduled to go-live on 7/12/2021

- OMS changes:
 - Prevent outage expansion (increasing the MW derate on outage) after the outage has started to match filed Tariff.
 - Allow outage breakpoints update limited by the max curtailment of that trade date.
 - Allow outage overlapping for specific nature of works.

Status:

- Structured market simulation starting 6/28

Summer Readiness Enhancements

- **Market enhancements activated in Production on 6/15/2021** ✓
 - EIM coordination and resource sufficiency test review
 - Import market incentives during tight system conditions
 - Real-time scarcity price enhancements
 - Including reliability demand response resources in real-time pre-dispatch
- **Market enhancements scheduled to go-live 6/30/2021**
 - Management of storage resources during tight conditions
 - ❖ Updated SOC requirements when storage provides regulation
 - ❖ New screens for operators to visualize storage fleet
 - ❖ New ability for operators to specify state of charge targets for individual resource/hours
 - New OASIS report showing gross exports and imports by inertia

Status:

- Structured market simulation complete
- Market participants unstructured/specific testing underway

- **Market enhancements scheduled to go-live 7/15/2021**

- Load, Export, and Wheeling scheduling priorities
- Handling of RA priority on PT export

Status: market simulation starting on 6/30

Summer 2021 Release - Overview

	BRS	Config Guide	Tech Spec	Mkt Sim Scenarios	File Tariff	Draft BPMs	Training	Market Sim	Production Activation
Summer 2021 Release									
Summer 2021 Readiness BOG 3/24/21	<ul style="list-style-type: none"> Draft: 2/25/21 v1.0: 3/25/21 v1.0: Non-Policy Scope 4/9/21 	4/7/21	4/15/21	4/16/21	3/26/21	4/21: - Mkt Ops: PRRs 1344 & 1345 (Penalty Prices) - Mkt Instr: PRR1346 4/27: - Outage Mgmt: PRR 1347 4/29: - EIM: PRR 1349	4/27/21 4/29/21	Phase 1: 5/20-5/26 Phase 2: 5/27-6/4 Phase 3: 6/17-6/24	Phase 1: 6/15/21 Phase 2: 6/15/21 Phase 3: 6/30/21 Non-Policy: By 7/30/21
Summer 2021 Readiness - Export, wheeling, and load scheduling priorities BOG 4/21/21	v2.0: 4/30/21 V2.1: 5/28/21			6/22/21	4/28/21		6/24/21	6/30-7/6	By 7/15/21
Resource Adequacy Enhancements BOG 3/24/21	<ul style="list-style-type: none"> v1.0 POSO: 2/25/21 v2.0 Op Storage: 3/18/21 v2.1: 4/12/21 	N/A	4/15/21	POSO 3/15/21 Op S. 4/16/21	3/29/21	4/21/21: - Reliability Requirements: PRR 1343 4/27: - Outage Mgmt: PRR 1347	4/21/21	RACS/POSO: 4/26/21 - 5/21/21 Ops Storage: 6/17-6/24 OMS 6/28	RACS/POSO: 6/3/21 Ops Storage: 6/30/21 OMS 7/12

Operations Update

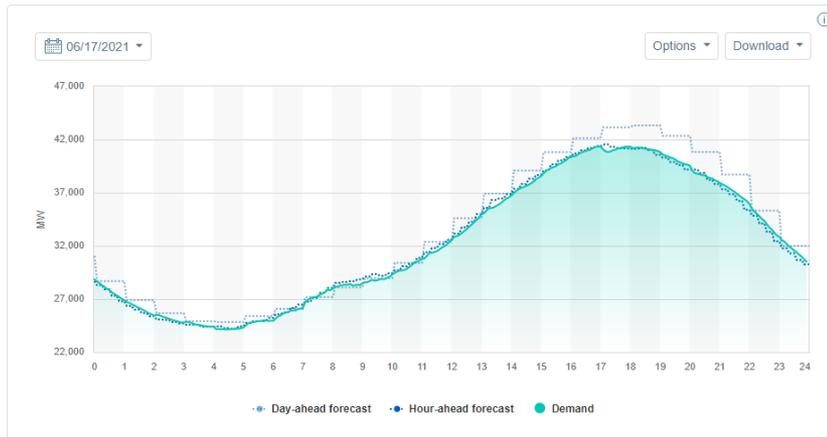
Dede Subakti, Vice President, System Operations

First Flex Alert in 2021

- June 17-18, 2021

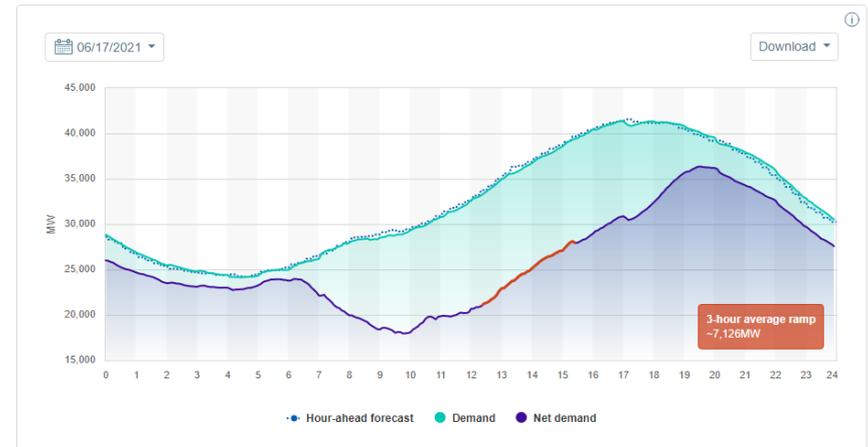
Demand trend

System demand, in megawatts, compared to the forecasted demand in 5-minute increments.



Net demand trend

System demand minus wind and solar, in 5-minute increments, compared to total system and forecasted demand.



- CAISO is committed to provide early and transparent communication
 - Currently, we are utilizing heat wave bulletin, flex alert, AWE notices, etc (see Procedure 4420 <http://www.caiso.com/Documents/4420.pdf>)
 - Further improvements are coming soon (e.g. Summer Readiness 2021 Non-Policy items by 7/30/21)

Resources

- 2021 Summer Readiness webpage:
<http://www.caiso.com/about/Pages/News/SummerReadiness.aspx>
- Sign up to receive Flex Alerts at www.flexalert.org
- Heat Wave Bulletin, Systems Condition Bulletin, Fact Sheets, Public Safety Power Shutoff (PSPS)
<http://www.caiso.com/about/Pages/News/default.aspx>
- *NEW* Energy Matters Blog
<http://www.caiso.com/about/Pages/Blog/default.aspx>
- Submit questions through CIDI or [Contact Us](#) linked on ISO's homepage; members of media should contact isomedia@caiso.com.