



2021 Summer Readiness Update

Stakeholder Call

September 24, 2021

Agenda

| Topic | Presenter |
|---|-----------------------------|
| Welcome and introductions | Kristina Osborne |
| Summer readiness effort | Mark Rothleder |
| Reliability must-run designation process clarifications | Neil Millar |
| Summer operations update | John Phipps |
| Summer enhancements performance update | Guillermo Bautista Alderete |
| Q&A | |

Summer Readiness Effort

Mark Rothleder

Senior VP and Chief Operating Officer

Reliability Must-Run Designation Process Clarifications

Neil Millar

VP, Infrastructure and Operations Planning

Summer Operations Update

John Phipps

Executive Director, Grid Operations

CAISO Alerts, Warning, and Emergencies and ELRP, RDRR, SPAP, CSEP, and Ports

| Day-ahead | Real-time | | | |
|--|--|---|---|--|
| <p>Alert</p> <p>All available resources are online, and resource deficiencies are expected. Market participants encouraged to offer supplemental energy. Issued by 3 p.m. the day before projected shortfall. RC West issues EEA watch.</p> <p>SPAP and emergency MW * – mobilization</p> <p>ELRP — can be triggered; deployment by IOUs</p> <p>CSEP — mobilization</p> <p>Ports ** – alerts from CalOES for awareness</p> | <p>Warning</p> <p>Market participants encouraged to offer supplemental energy and RC West issues EEA-1. CAISO may call for demand response, and when demand response is dispatched, RC West issues EEA-2.</p> <p>SPAP and emergency MW * – can be triggered in an EEA2-</p> <p>ELRP — can be triggered; deployment by IOUs</p> <p>RDRR — can be deployed by CAISO</p> | <p>Stage 1 Emergency</p> <p>CAISO requests certain market participants to voluntarily reduce energy use. RC West issues EEA-2.</p> <p>CSEP — can be triggered; deployment by IOUs/POUs</p> <p>Ports ** – can be triggered by CalOES</p> | <p>Stage 2 Emergency</p> <p>CAISO calls for utilities to voluntarily interrupt loads where possible. Requests maximum conservation. RC West issues EEA 3.</p> | <p>Stage 3 Emergency</p> <p>Controlled power curtailments are imminent or in progress. CAISO calls for out-of-market and emergency energy from all available sources.</p> <p><i>For all utility-triggered programs, CAISO expects the IOUs to provide an estimate of MWs available via daily spreadsheets sent to CAISO Operations per current practice.</i></p> <p><i>* DOE 202(c) required to trigger SPAP and additional emergency MW from existing resources</i></p> <p><i>** CAISO Emergency Response Coordinator communicates forecasted and actual Stage 1 to CalOES</i></p> |
| <p>California State Emergency Program (CSEP) Emergency Load Reduction Program (ELRP) State Power Augmentation Project (SPAP) Reliability Demand Response Resource (RDRR)</p> | | | | |

Summer Operations Update

- Flex Alerts and Alert Warning Emergency Notifications, to date for 2021:
- 18 - Restricted Maintenance Operation days declared
- 8 - Flex Alerts
- 4 - AWE Warnings
- 1 - Stage 2 Emergency

- 2020 peak load of 47,121 MW on August 18, @ 15:57
- 2021 peak load of 43,982 MW on September 8, @ 17:50
- All-time peak load of 50,270 MW set on July 24, 2006 @ 14:44

- Headed into PSPS & fire season

Summer Enhancements Performance Update

Guillermo Bautista Alderete

Director, Market Analysis and Forecasting

The majority of Summer enhancements have been implemented by July

| Summer enhancement | Date Implemented | Trigger | Dates |
|--|------------------|----------------------|-----------------------|
| 1. EIM resource capacity sufficiency test | 15-Jun | Permanent feature | All the time |
| 2. Import market incentives during tight system conditions | 15-Jun | Warning or Emergency | July 9 and 10, 5-9pm |
| 3. Intertie schedules information on OASIS | 26-Jul | Permanent feature | All the time |
| 4. Enhanced real-time pricing signals during tight supply conditions | 15-Jun | Warning or Emergency | July 9, 5-9pm |
| 5. Management of storage resources during tight system conditions | 30-Jun | RUC undersupply | July 9, 28 and 29 |
| 6. Reliability demand response dispatch and real-time price impacts | 4-Aug | Activation of RDRR | Not active in July |
| Load, export and wheeling priorities* | 4-Aug | Permanent feature | Not active in July |
| Interconnection process enhancements | 25-May | Permanent feature | Not used yet |
| CAISO's public communication protocols | 29-May | System Event driven | July 9, 10, 12 and 28 |
| Today's Outlook displays | Aug 18 | Permanent feature | Not active in July |

* The wheeling through priorities the CAISO placed into effect are interim only and will sunset after May 31, 2022.

Questions?

EXTENDED DAY-AHEAD MARKET FORUM REGISTRATION

October 13, 2021 • 8:30 a.m. - 12:00 p.m.
Free Virtual Webinar

• USE CHROME •

The ISO is hosting the Extended Day-Ahead Market Forum

where utility executives, policy makers & stakeholders from CA & across the West will discuss the challenges & opportunities in taking the next step in optimizing the functionality of the Western EIM and expanding on economic efficiencies for the west.

- Please join us for the *Extended Day-Ahead Market Forum* by registering [here](#) on the ISO website.
- Register by October 12, 2021.
- Questions? Send to ISOStakeholderAffairs@caiso.com

ENERGY matters

The California ISO's blog highlights its most recent news releases, and includes information about ISO issues, reports, and initiatives.



- *Energy Matters* blog provides timely insights into ISO grid and market operations as well as other industry-related news

<http://www.caiso.com/about/Pages/Blog/default.aspx>.



September 14, 2021

Operations, Summer conditions

Storage: An intersection between reliability today and climate goals of tom orrow

Summer months are particularly challenging for electrical grid operators in the West. Climate change ...

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Additional Resources

- 2021 Summer Readiness webpage
<http://www.caiso.com/about/Pages/News/SummerReadiness.aspx>
- Sign up to receive Flex Alerts at www.flexalert.org
- News webpage
<http://www.caiso.com/about/Pages/News/default.aspx>
- Submit questions through CIDI or [Contact Us](#) linked on ISO's homepage; members of media should contact isomedia@caiso.com.