



California ISO

# 2021 Summer Readiness Update

Stakeholder Call

August 31, 2021

## The objective of this call is to provide high-level updates on summer readiness activities

- Including operations, related policies, regulatory matters and other relevant topics
- More detailed questions related to market activity or policies should be discussed in the appropriate forums (i.e., market update call, initiative stakeholder meetings, Market Performance and Planning Forum, etc.)
- Please submit data requests through CIDI

# Agenda

Topic	Presenter
Welcome and introductions	Kristina Osborne
Operations update	John Phipps
Transparency improvements	Joanne Serina Guillermo Bautista Alderete
State Power Augmentation Project Waiver	Bill Weaver
Q&A	

# Operations Update

John Phipps

Executive Director, Grid Operations

# CAISO Alerts, Warning, and Emergencies and ELRP, RDRR, and CSEP

Day-ahead	Real-time			
<p><b>Alert</b></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><b>SPAP and emergency MW *</b> – mobilization</p> <p><b>ELRP</b> — can be triggered; deployment by IOUs</p> <p><b>CSEP</b> — mobilization</p>	<p><b>Warning</b></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><b>SPAP and emergency MW *</b> – can be triggered</p> <p><b>ELRP</b> — can be triggered; deployment by IOUs</p> <p><b>RDRR</b> — can be deployed by CAISO</p>	<p><b>Stage 1 Emergency</b></p> <p>CAISO requests certain market participants to voluntarily reduce energy use. RC West issues EEA-2.</p> <p><b>CSEP</b> — can be triggered; deployment by IOUs/POUs</p>	<p><b>Stage 2 Emergency</b></p> <p>CAISO calls for utilities to voluntarily interrupt loads where possible. Requests maximum conservation.</p>	<p><b>Stage 3 Emergency</b></p> <p>Controlled power curtailments are imminent or in progress. CAISO calls for out-of-market and emergency energy from all available sources.</p>

*For all programs, CAISO expectation is the IOUs will provide an estimate of MWs available via daily spreadsheets sent to CAISO Operations per current practice.*

California State Emergency Program (CSEP)  
Emergency Load Reduction Program (ELRP)  
State Power Augmentation Program (SPAP)  
Reliability Demand Response Resource (RDRR)

*\* DOE 202c required to trigger SPAP and additional emergency MW from existing resources*

# Transparency Improvements

Joanne Serina

Executive Director, Customer Service and Stakeholder  
Affairs

Guillermo Bautista Alderete

Director, Market Analysis and Forecasting

# Latest Transparency Improvements

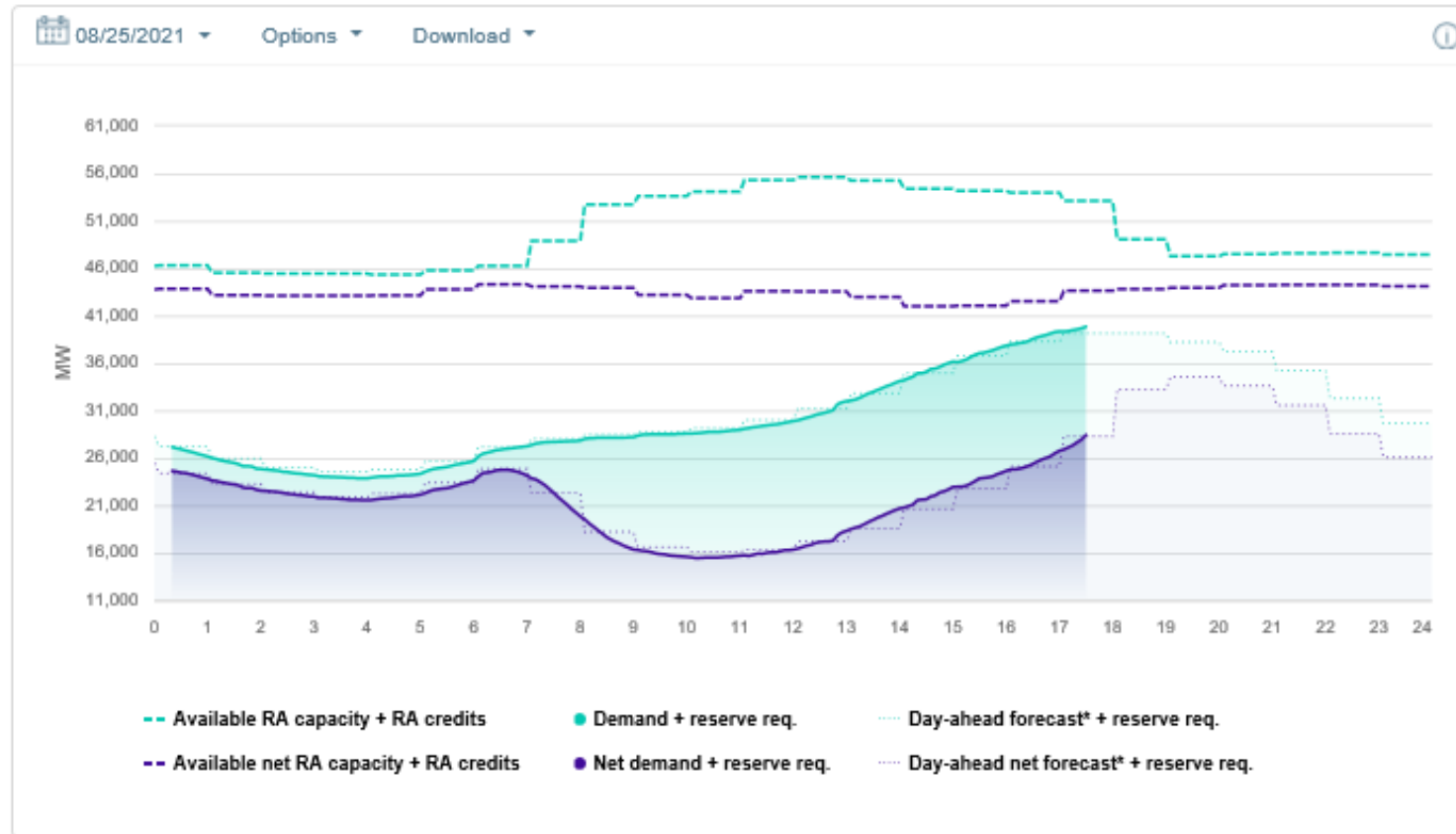
- Today's Outlook
  - RA Capacity Trend
  - 7-day RA Capacity Trend

<http://www.caiso.com/Documents/Presentation-Todays-Outlook-Resource-Adequacy-Capacity-Trends.pdf>
- Daily Day-Ahead Summer Report
- Monthly summer market performance report

# Today's Outlook – RA Capacity Trend

## Resource adequacy capacity trend

Resource adequacy (RA) is energy designated by the state to be bid into the market for the reliable operation of the power grid, minus the impacts of outage derates. Any energy needed over that designated amount has to be procured in the real-time market.



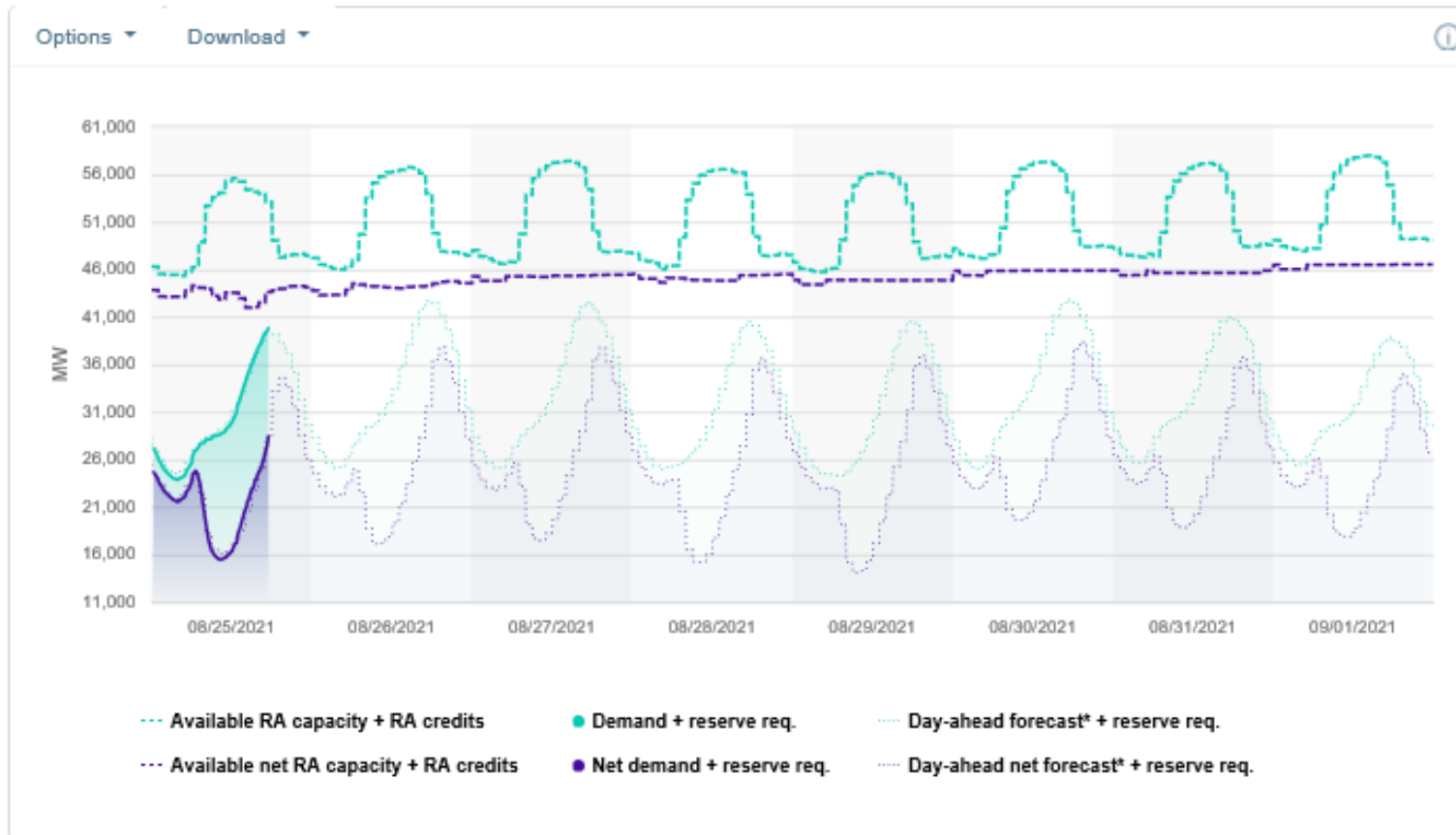
\*Note: Values for the 7<sup>th</sup> day of the day-ahead forecasts will complete by 9:30 PT.



# Today's Outlook – 7-Day RA Capacity Trend

## 7-day resource adequacy capacity trend

Resource adequacy capacity forecast for today plus the next 7 days, in megawatts, compared to demand forecast plus reserve requirements.



\*Note: Values for the 7<sup>th</sup> day of the day-ahead forecasts will complete by 9:30 PT.

## Daily Day-Ahead Summer Report

- Started to publish the report on August 5, 2021
- Temporal solution for this summer while a long-term solution is defined
- Provides the RUC adjustments used in every day-ahead market
- Provides RUC export reductions of high-priority exports
- Daily reports are available on the Reports and Bulletins page on the ISO website at <http://www.caiso.com/Pages/documentsbygroup.aspx?GroupID=4A41F087-91DE-40EC-ABDC-4A161F2768D7>

# Load, Exports and Wheeling Priorities Enhancements

- Final enhancement of summer readiness initiative
- Implemented on August 4, 2021
- Scheduling Coordinators submitting requests for high priority wheels
- CAISO will report performance of this enhancement in the August report

# State Power Augmentation Project Waiver

Bill Weaver

Senior Counsel


# State Power Augmentation Project

- CDWR and the CEC reached out to generation owners to find sites that could quickly accommodate available 30 MW GE TM2500 aeroderivative gas turbine generators
- Two sites were found: Greenleaf 1 in Yuba City and Roseville Energy Park. Each site can accommodate two units
- The generating units will provide much-needed capacity as the CAISO faces high temperatures, low hydro, and potential late-summer outages.

# State Power Augmentation Project

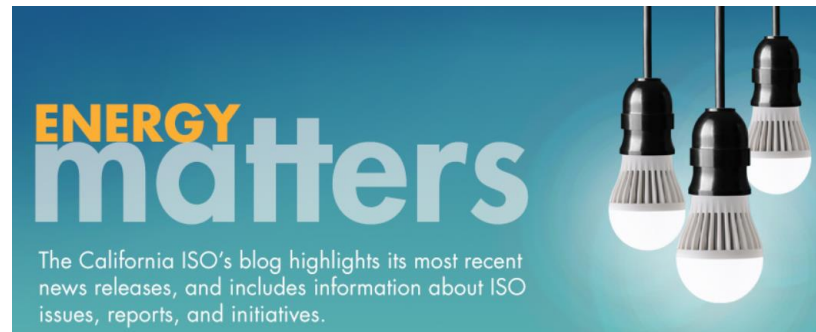
- The units plan to come online in mid-September
- The CAISO petitioned for waiver at FERC in order to interconnect the Greenleaf 1 units
  - The CAISO tariff can accommodate 50 of the 60 MW, but requires waiver for the additional 10 MW.
  - The Roseville units will interconnect under BANC
- Until other permitting is completed, the units will not operate or deliver energy without a directive from the Department of Energy under Federal Power Act Section 202(c).

## Q/A

- If you are connected to audio through your computer or used the “call me” option, select the raise hand icon  above the chat window located on the bottom right corner of the screen. **Note:** #2 only works if you dialed into the meeting.
- Please remember to state your name and affiliation before making your comment.
- You may also send your question via chat to Kristina Osborne.
- If you need technical assistance during the meeting, please send a chat to the event producer.


## 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>

- Click image below to read recent blog featuring a new 400 MW storage facility in California, the largest of its kind in the world.



August 23, 2021  
*Leadership, Operations*

### Vision and tradition at new storage site

By Mark Rothleder, Senior Vice President and Chief Operating Officer

One of the more exciting recent energy related developments in California has been the addition of so much battery storage capacity being dispatched onto the state's electrical grid. Last week, a colleague and I were fortunate enough to take a tour and get a firsthand look at one new facility that is certain to have ...

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# Resources

- 2021 Summer Readiness webpage  
<http://www.caiso.com/about/Pages/News/SummerReadiness.aspx>
- Sign up to receive Flex Alerts at [www.flexalert.org](http://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](mailto:isomedia@caiso.com).