



California ISO

Summer Readiness

June's Performance

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Market Analysis and Forecasting
California ISO
July 29, 2022

Reminders

- This call is being recorded for informational and convenience purposes only. Any related transcriptions should not be reprinted without ISO permission.
- Calls are structured to stimulate open dialogue and engage different perspectives with the understanding that stakeholders have reviewed the material.
- In the interest of time, please refrain from repeating or reiterating what has already been said.

Questions

- Please raise your hand using the “raise hand” icon located above your chat window, or submit your question through the chat.
- Please state your name and organization when asking your question.
- If you need technical assistance during the meeting, please send a chat to Brenda Corona or the event producer.

Thank you for joining us, and we look forward to an engaging discussion.

Summary of summer enhancements in place for summer 2022

Summer enhancement	Date Implemented	Trigger	Dates Triggered
EIM resource sufficiency test	1-Jun-2022	Permanent feature	All the time
Import market incentives during tight system conditions	15-Jun-2021	Warning or Emergency	Not triggered
Intertie schedules information on OASIS	26-Jul-2021	Permanent feature	All the time
Enhanced real-time pricing signals during tight supply conditions	15-Jun-2021	Warning or Emergency	Not triggered
Management of storage resources during tight system conditions	30-Jun-2021	RUC undersupply	Not triggered
Reliability demand response dispatch and real-time price impacts	4-Aug-2021	Activation of RDRR	Not triggered
Load, export and wheeling priorities	4-Aug-2021	Permanent feature ⁶	All the time
CAISO's public communication protocols	29-May-2021	System Event driven	Not triggered
Today's Outlook displays	Aug 18-2021	Permanent feature	All the time
Resource sufficiency test	Jun 1, 2022	Permanent feature	All time
Enhancements to supporting resources for exports	June, 2022	Permanent feature	All time
Further visibility for supporting resources	June, 2022	Permanent feature	All time
Additional transparency for load conformance	June, 2022	Permanent feature	All time

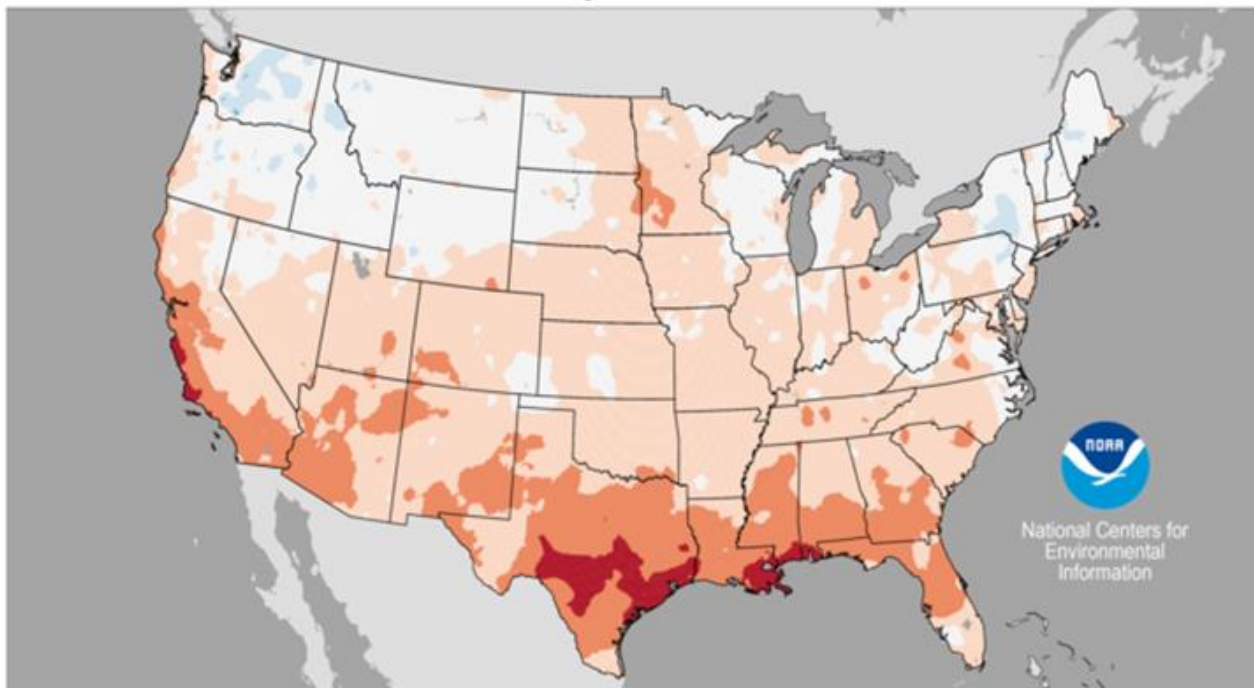
* The wheeling through priorities the CAISO placed into effect are interim with an original sunset date of May 31, 2022. CAISO filed at FERC to extend these provision from June 1, 2022 through May 31, 2023 while it develops a long term policy for Forward Scheduling.

Above Average, much above average, and record warmest temperatures were observed throughout the Southern Western United States

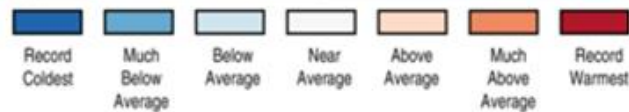
Mean Temperature Percentiles

June 2022

Ranking Period: 1895–2022



National Centers for
Environmental
Information

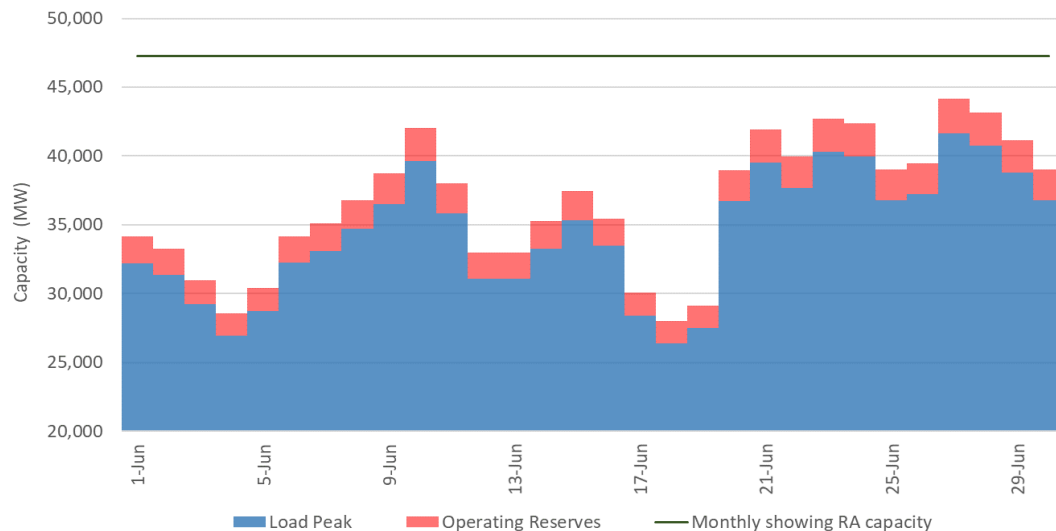
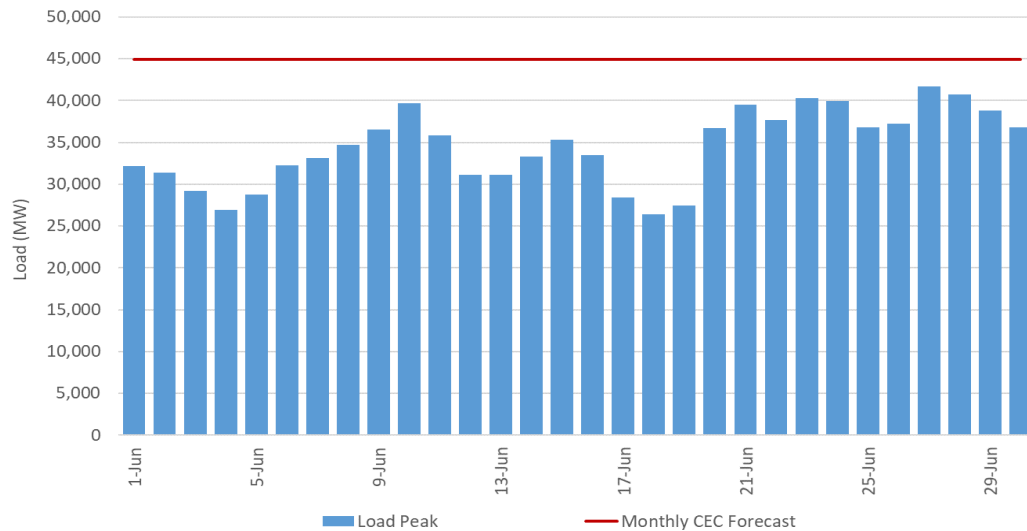


Created: Thu Jul 07 2022

Data Source: nClimGrid

The CAISO's load peak for June happened on June 27 at about 41,363 MW, below the CEC forecast of 44,920 MW

CAISO's load did not exceed the monthly CEC forecast, and monthly RA showings were above CAISO's load plus operating reserves

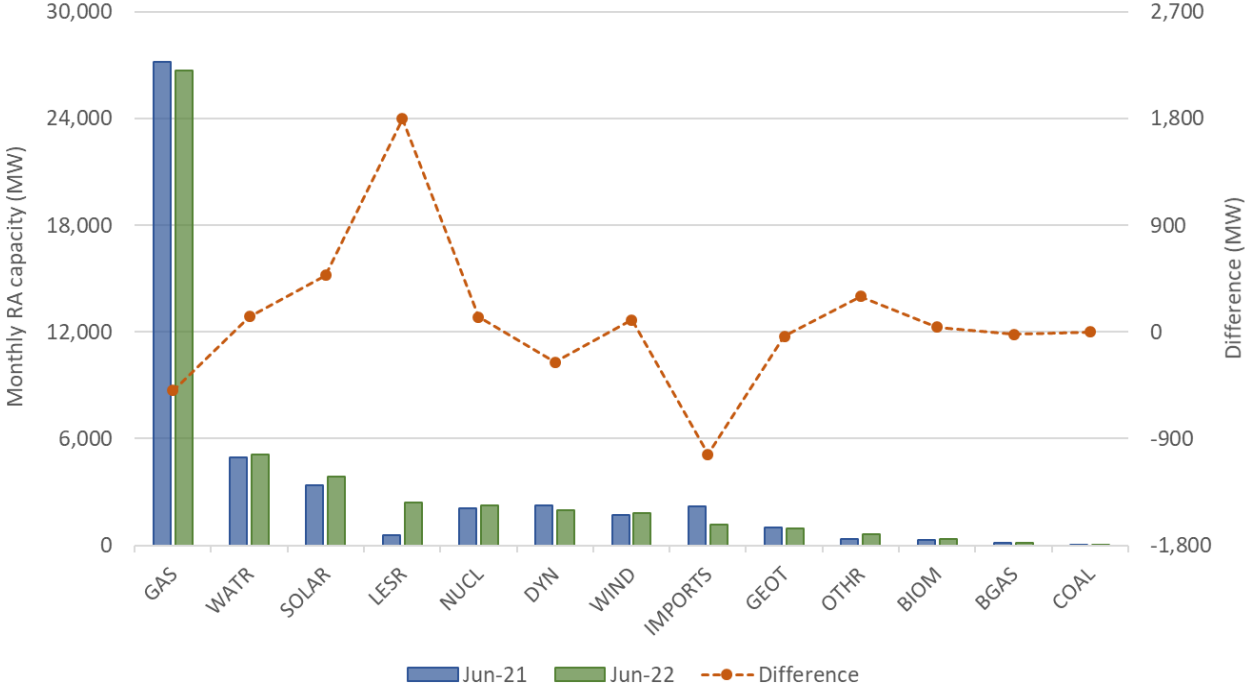


June experienced less challenging conditions than previous months

- There were no energy warning or EEAs
- CAISO did not trigger scarcity pricing
- The minimum state of charge constraints were not enforced
- Reliability demand response was not activated

Monthly RA showings for June 2022 RA is comparable to June's 2021 values

Gas: -495 MW
 Hydro: +131 MW
 Storage: +1796 MW
 Imports: -1031 MW



RA June 2022: 47,266 MW

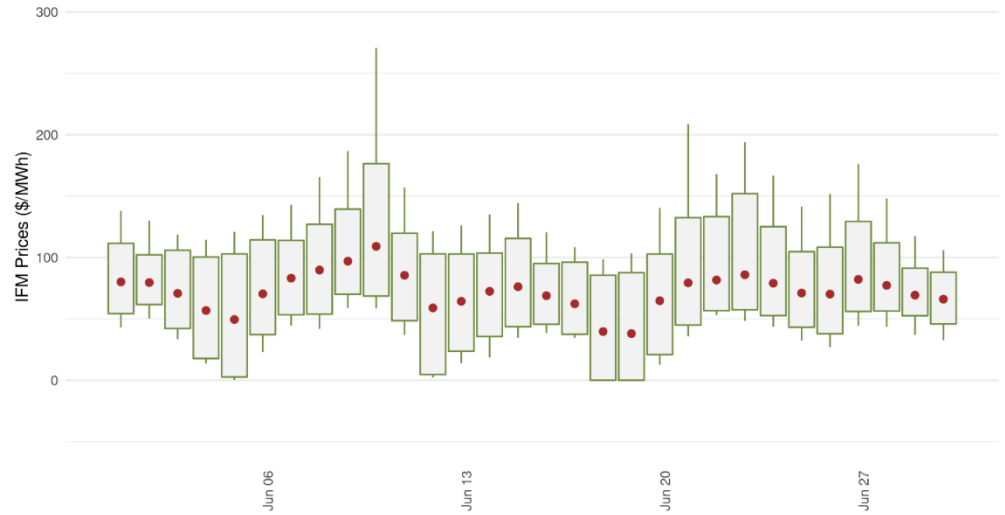
RA June 2021: 46,130 MW

Prices across CAISO's markets for the month of June

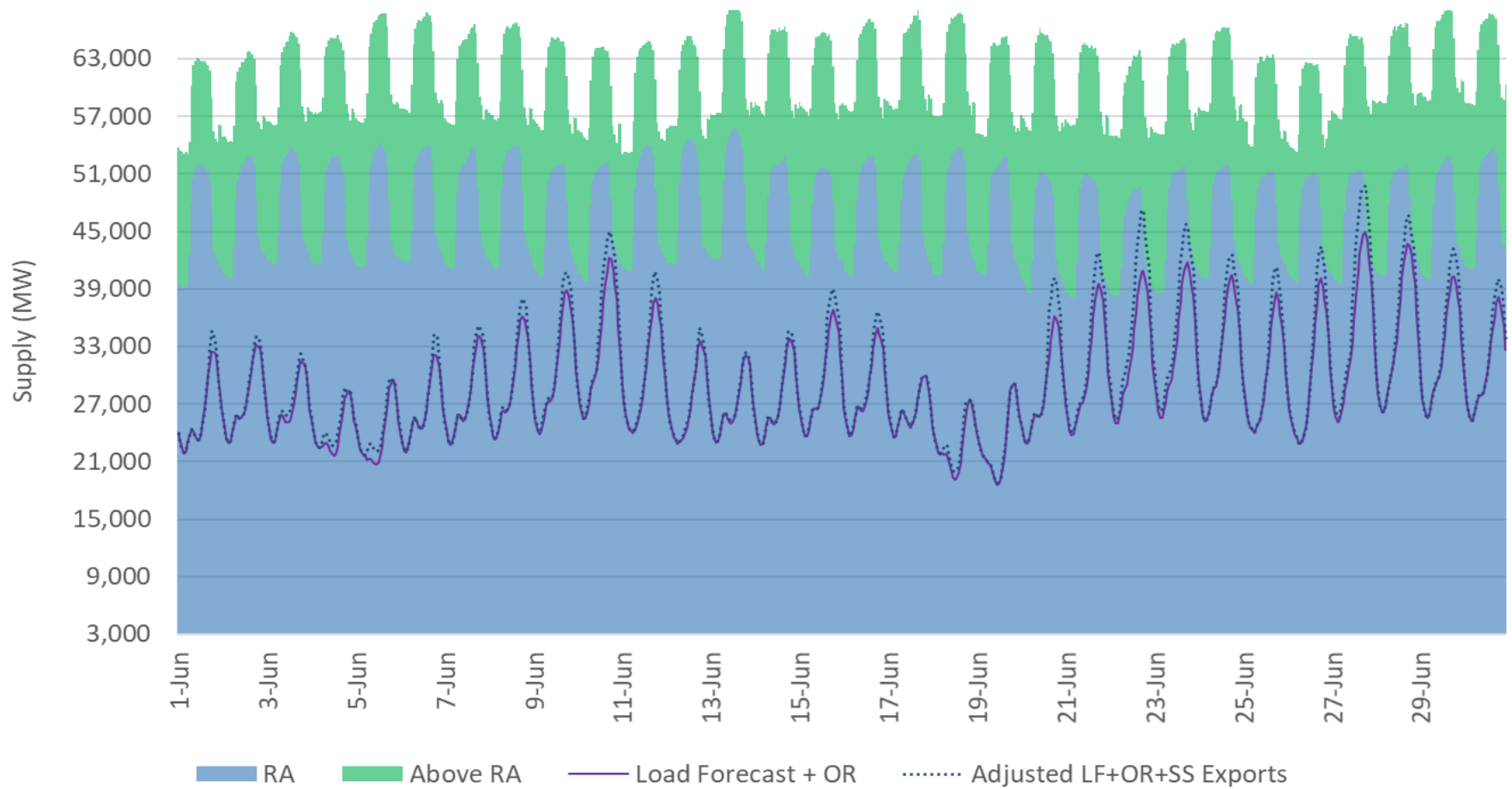
Prices in the day-ahead market were comparable than those in real time

Lower demand realized in real-time

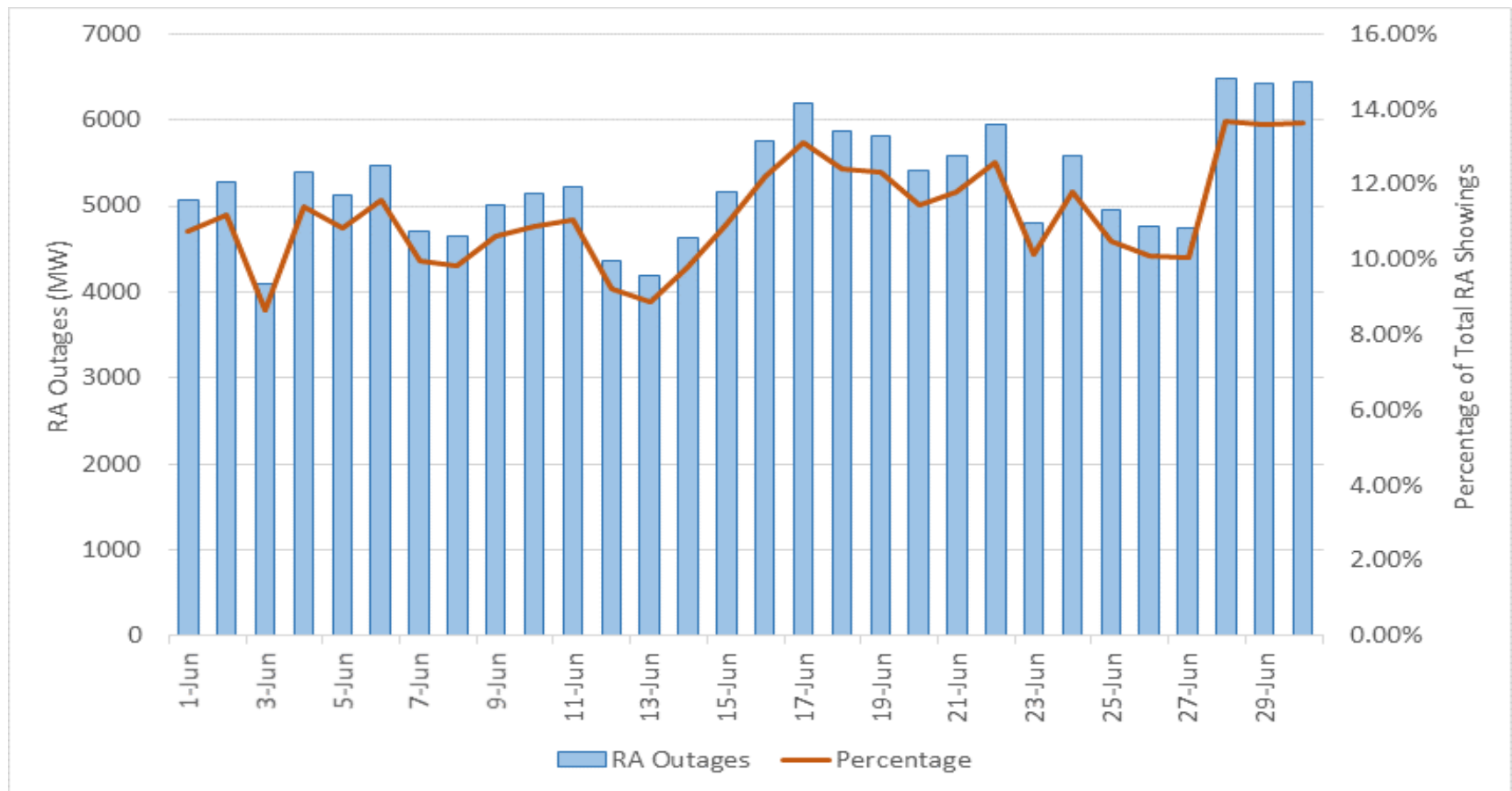
Economic transfers available in real-time



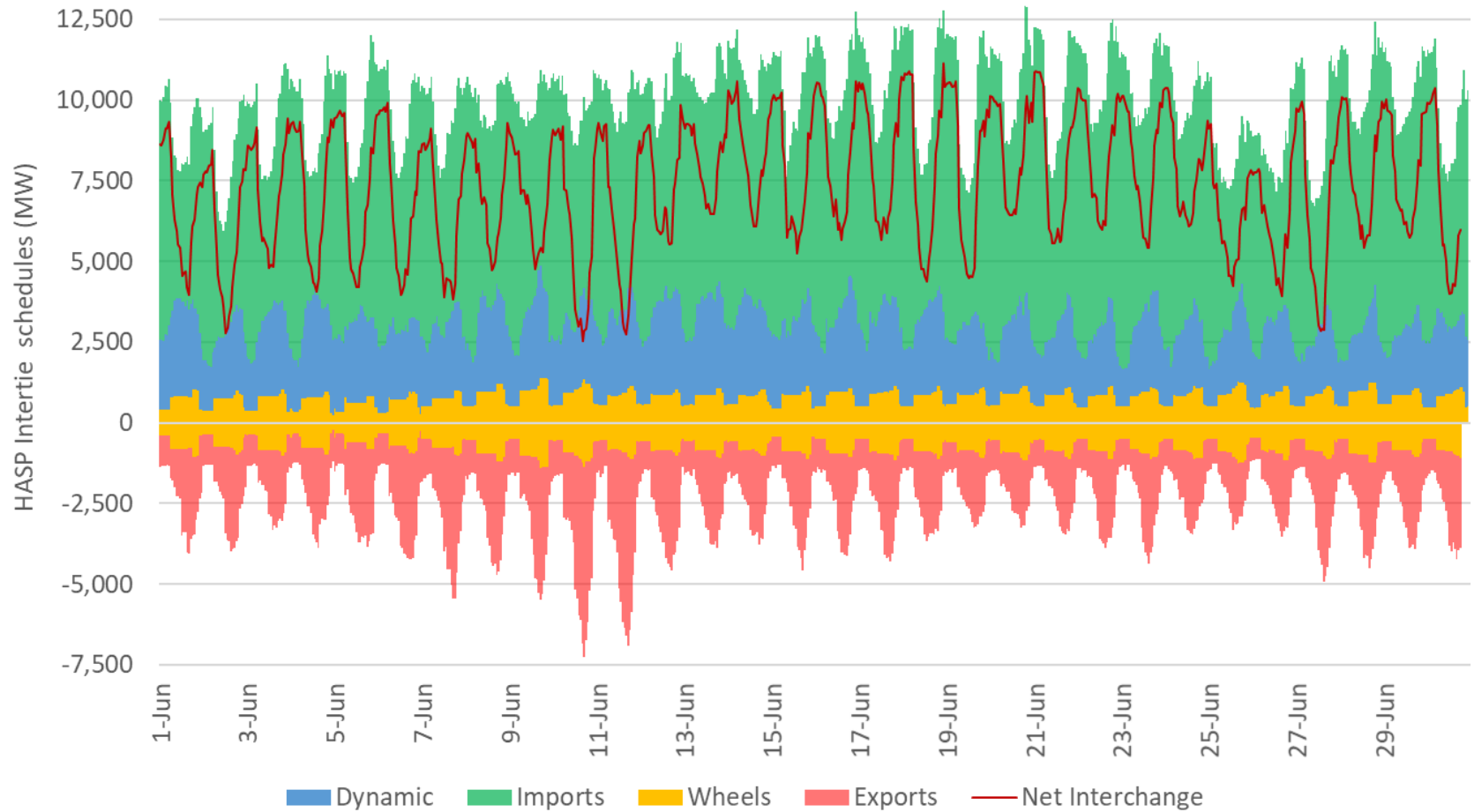
RA capacity was generally sufficient in June to meet load needs



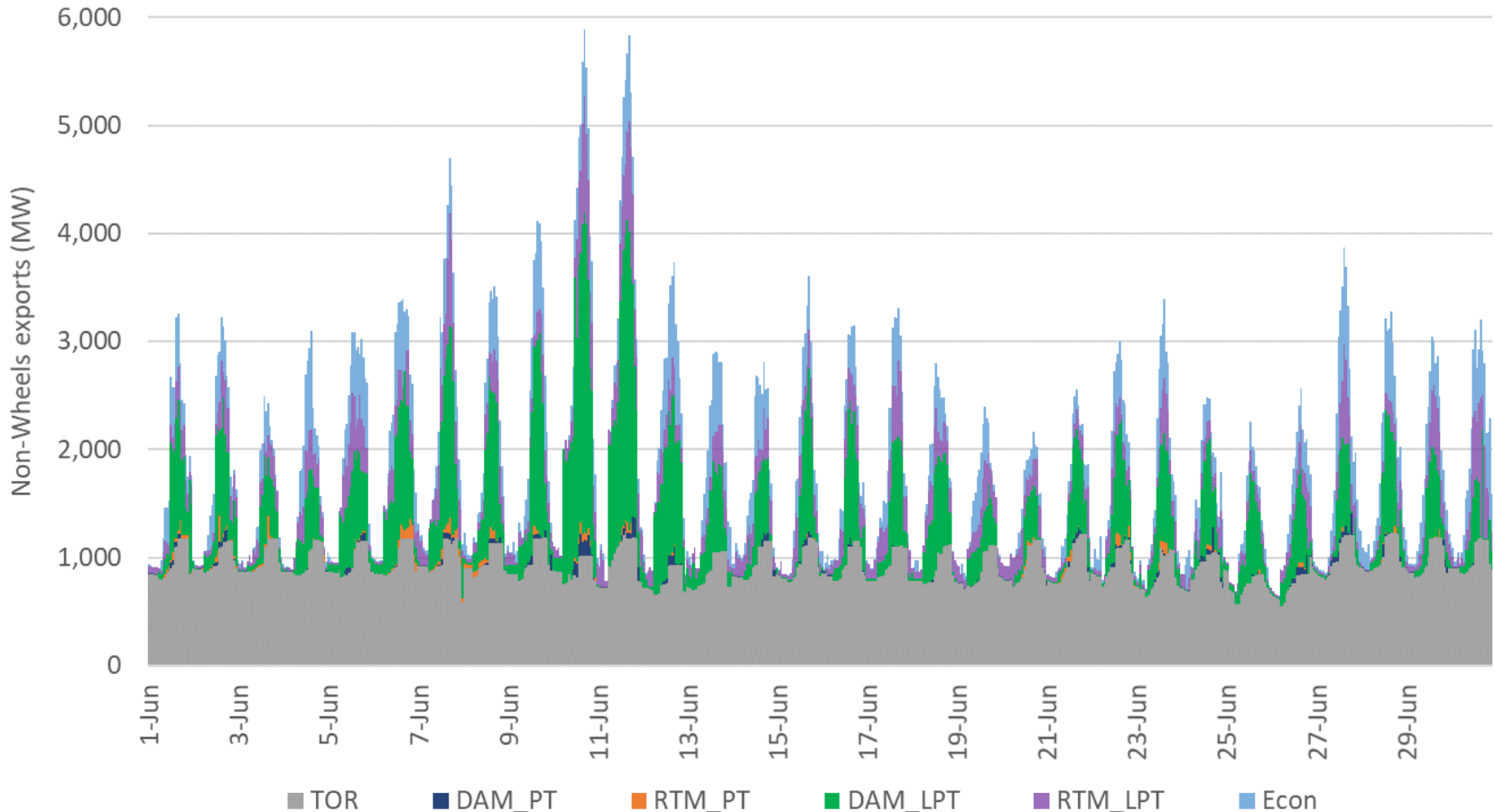
Unavailable RA capacity has been around 8 – 12% of the total RA showings



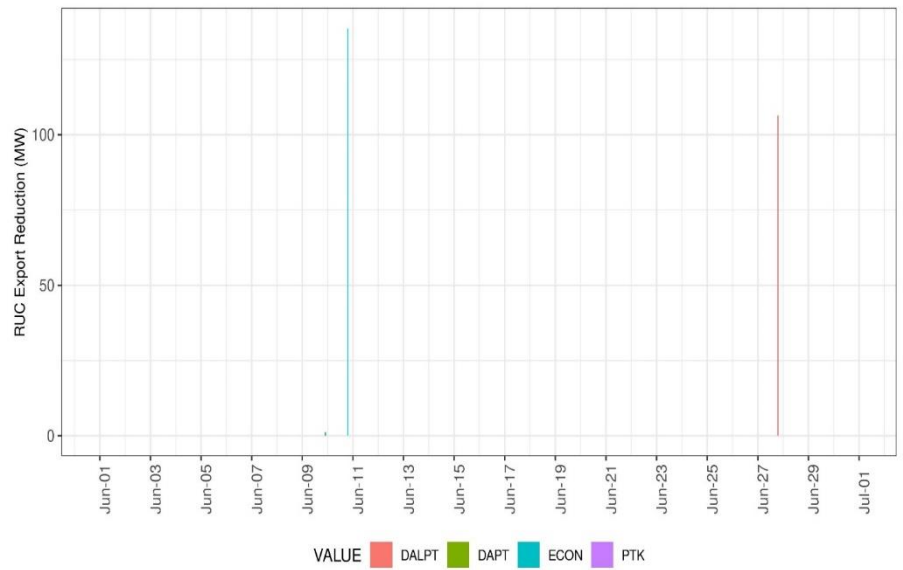
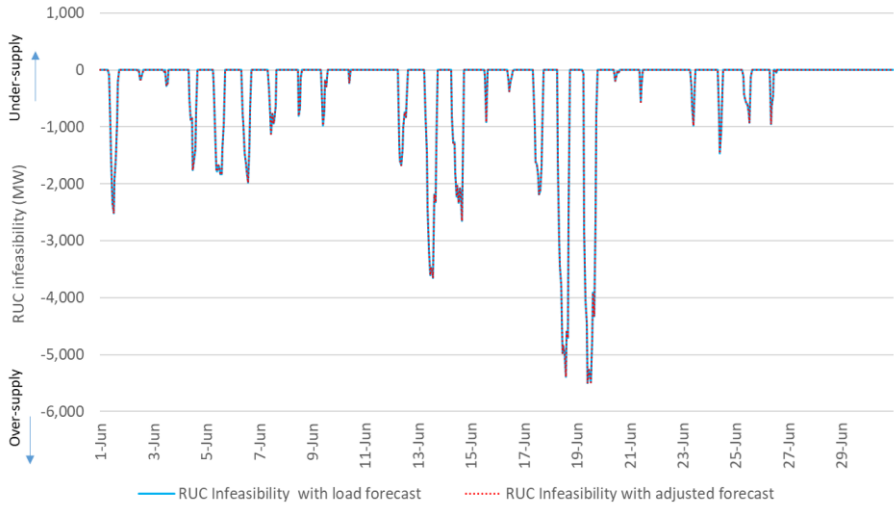
Net intertie schedules for peak hours was about 6,630 MW for June



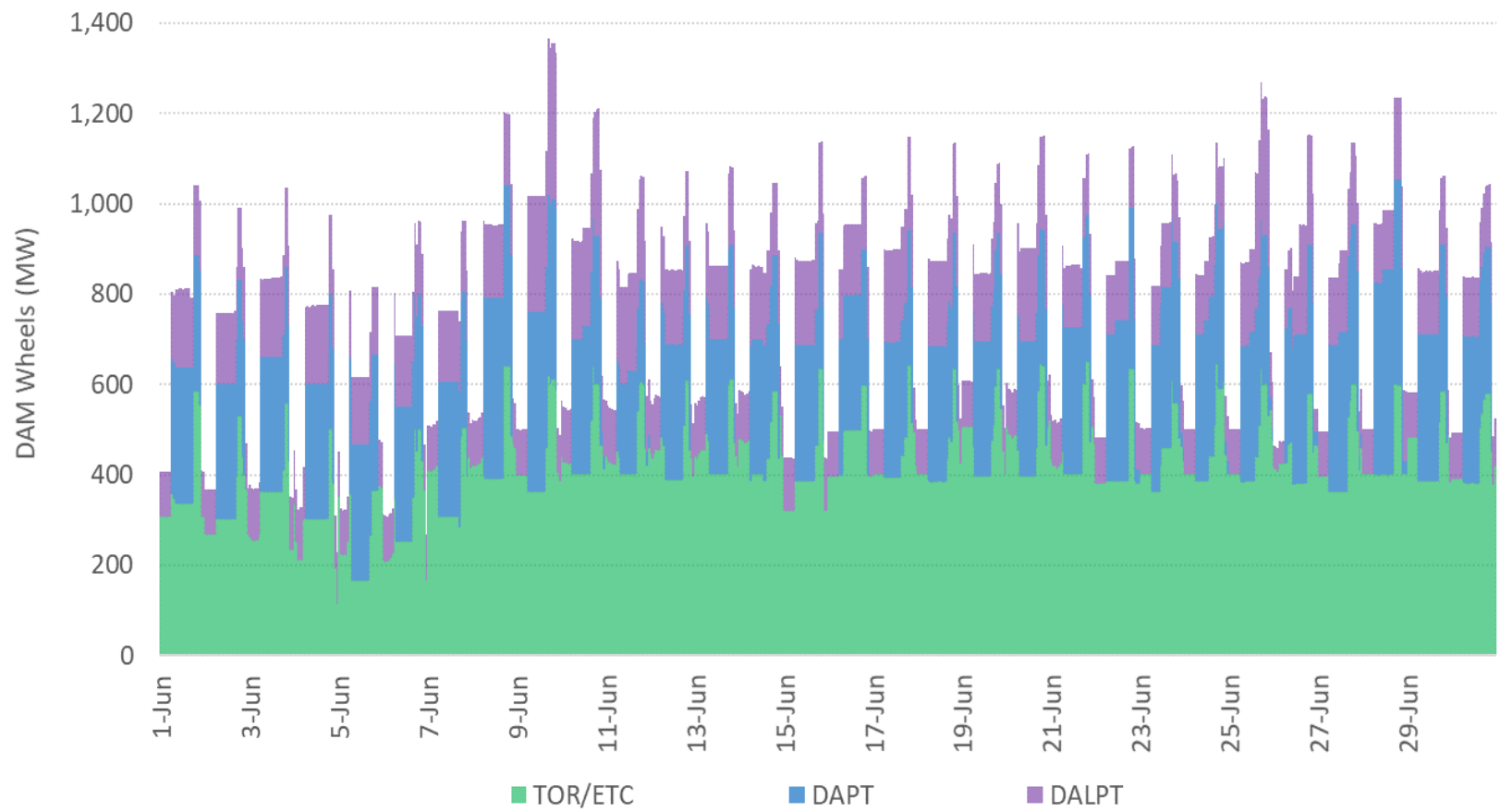
Volume of exports in CAISO's market reflects overall supply conditions in June



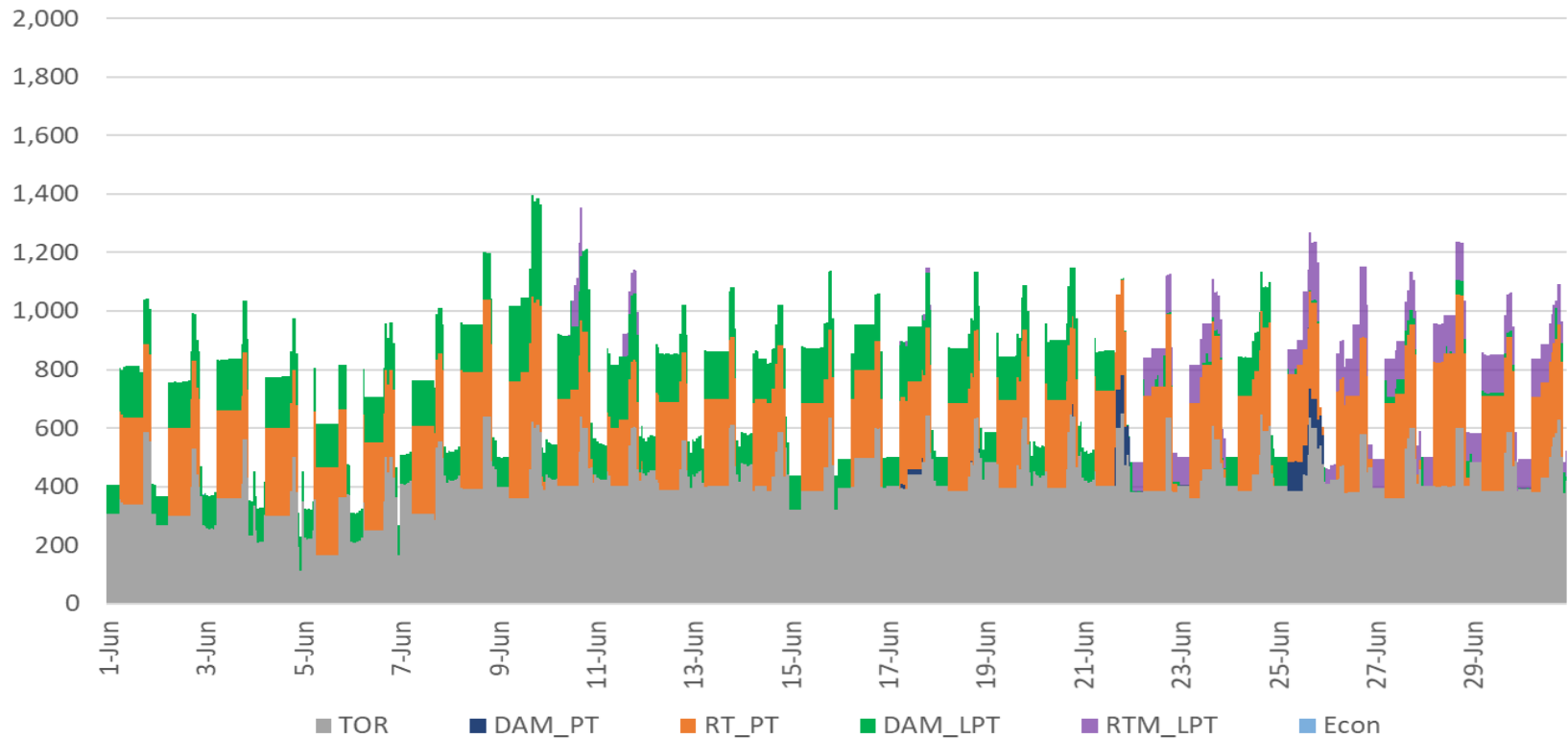
There were no RUC undersupply infeasibilities in June, but very low volume of economic and low priority exports were reduced on June 10 and 27



Volumes of cleared wheels for June peaked at 1,366 MW on June 9

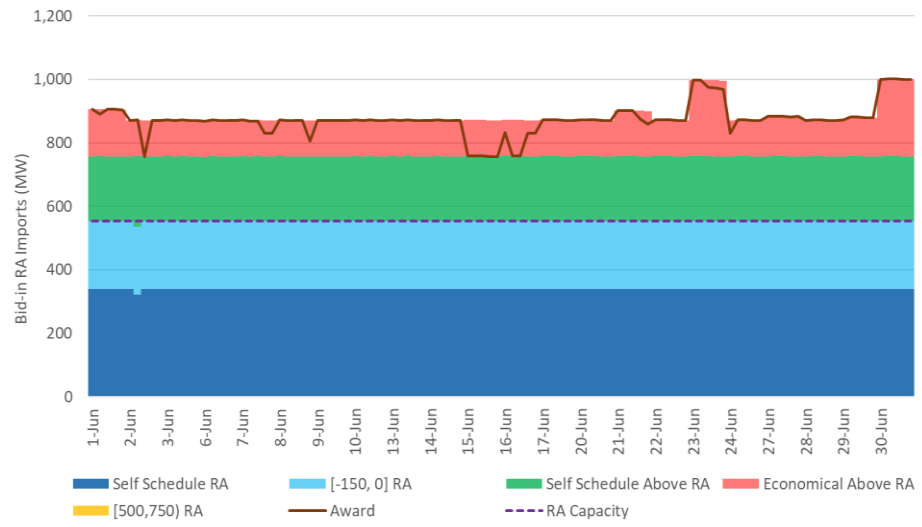


Similarly wheels cleared in real time market peaked on June 9

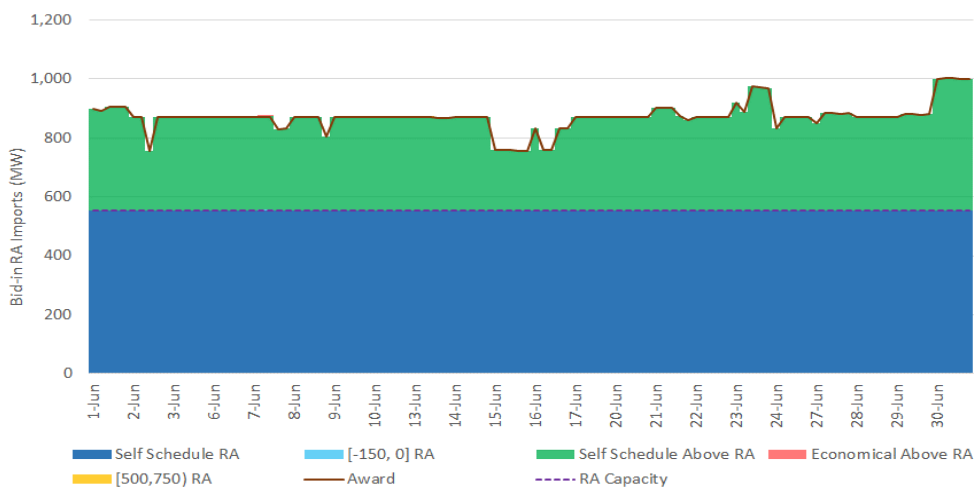


About 99 percent of RA imports bid in at or below \$0/MWh in September

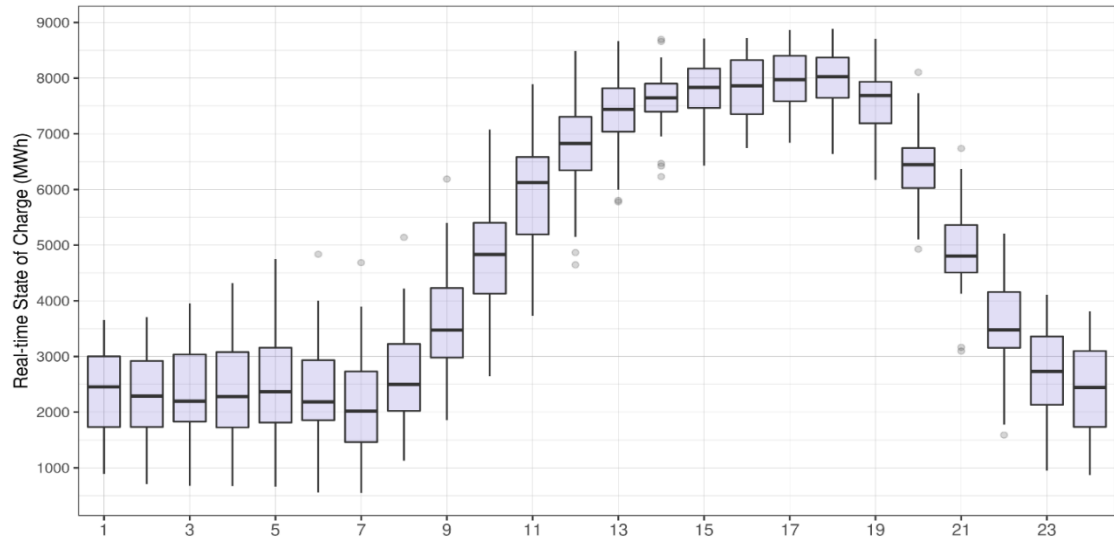
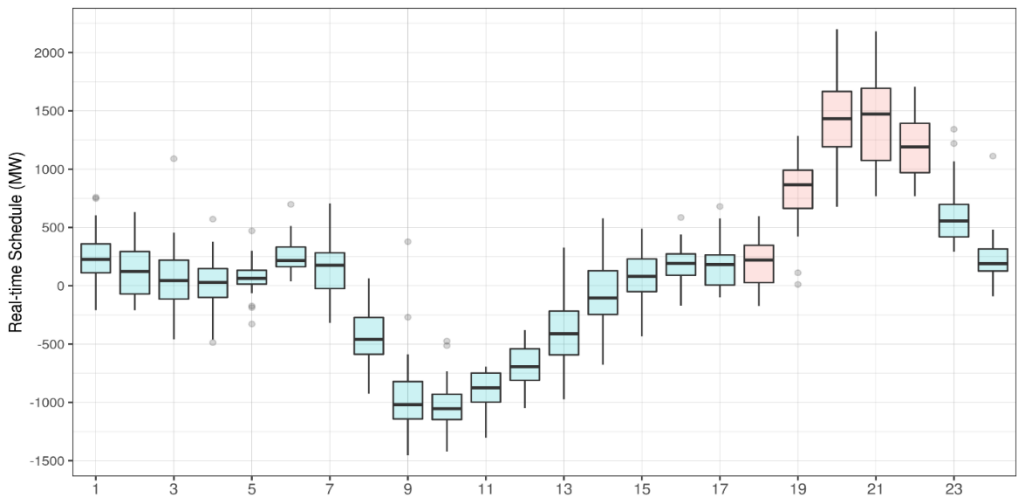
DAM



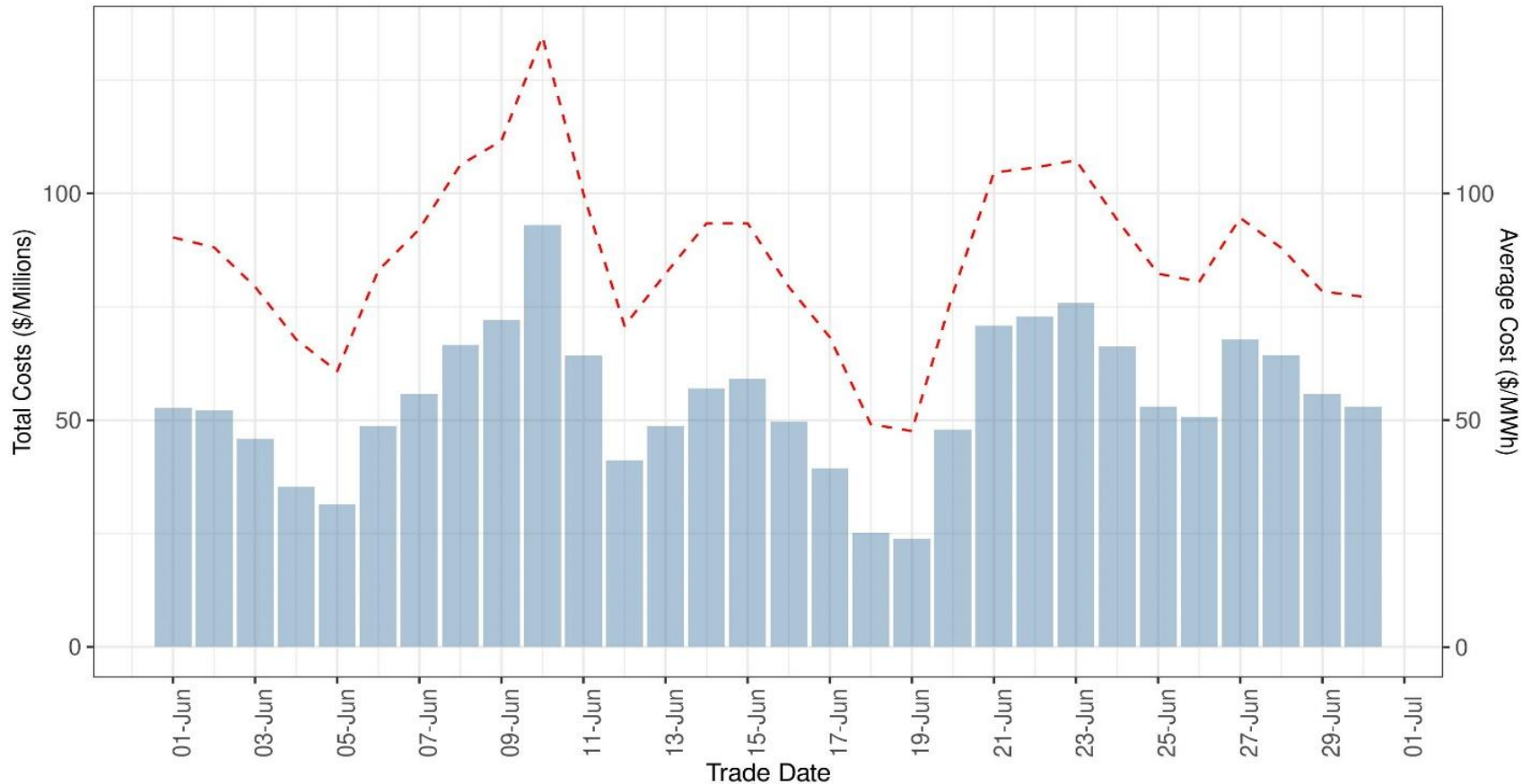
RTM



Hourly distribution of storage resources for the month of June



Average daily price for the month of June was about \$86/MWh





- The ISO is pleased to be hosting the Stakeholder Symposium in-person at the Safe Credit Union Convention Center in downtown Sacramento on Nov. 9 – 10, 2022
- Register on the Stakeholder Symposium page at: <https://californiaiso.swoogo.com/2022StakeholderSymposium>
- Please direct questions to symposiumreg@caiso.com