



Summer Readiness

August's Performance

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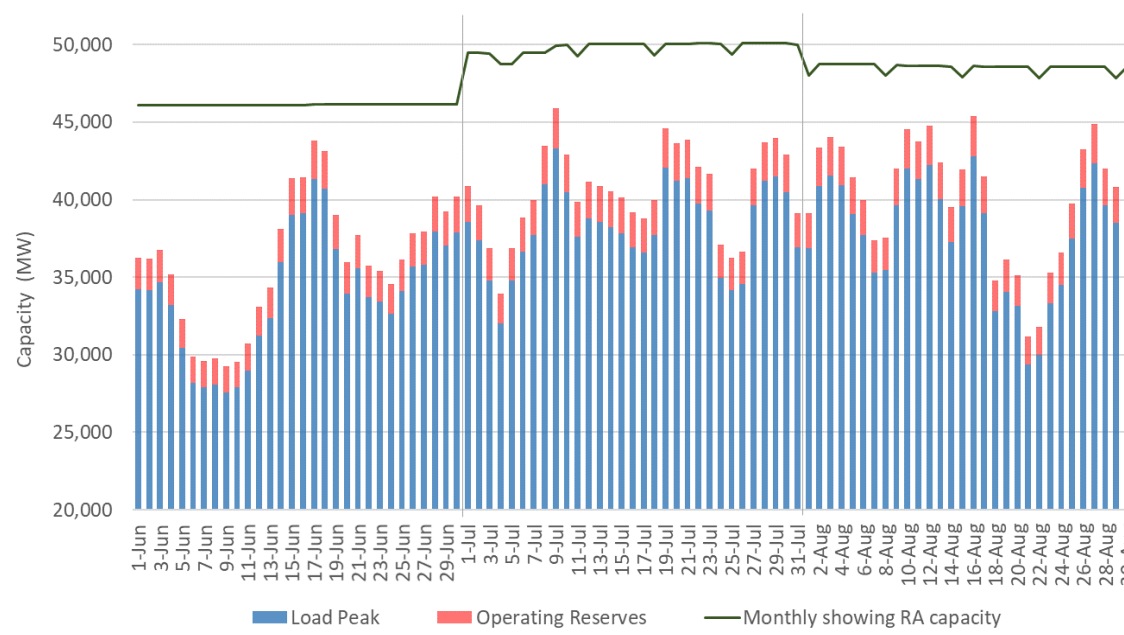
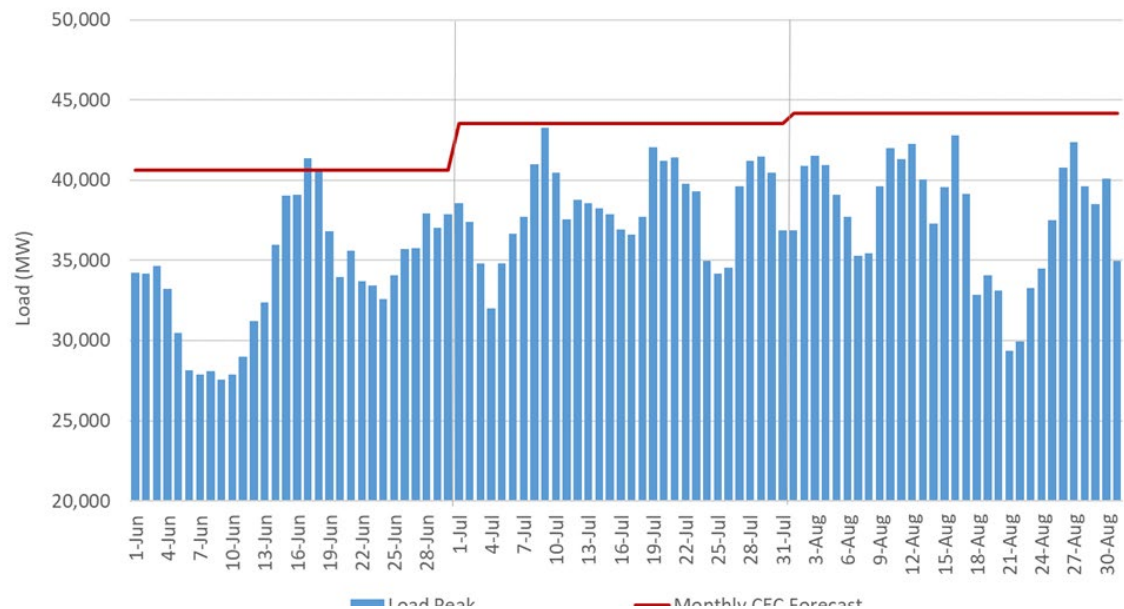
All Summer enhancements have been implemented by August 4

Summer enhancement	Date Implemented	Trigger	Dates Triggered
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	Not triggered
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	Not triggered
5. Management of storage resources during tight system conditions	30-Jun	RUC undersupply	Not triggered
6. Reliability demand response dispatch and real-time price impacts	4-Aug	Activation of RDRR	Not triggered
Load, export and wheeling priorities	4-Aug	Permanent feature*	All the time
Interconnection process enhancements	25-May	Permanent feature	Not used yet
CAISO's public communication protocols	29-May	System Event driven	Not triggered
Today's Outlook displays	Aug 18	Permanent feature	All time

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

Weather conditions were milder in August, which resulted in a load peak of about 42,817MW

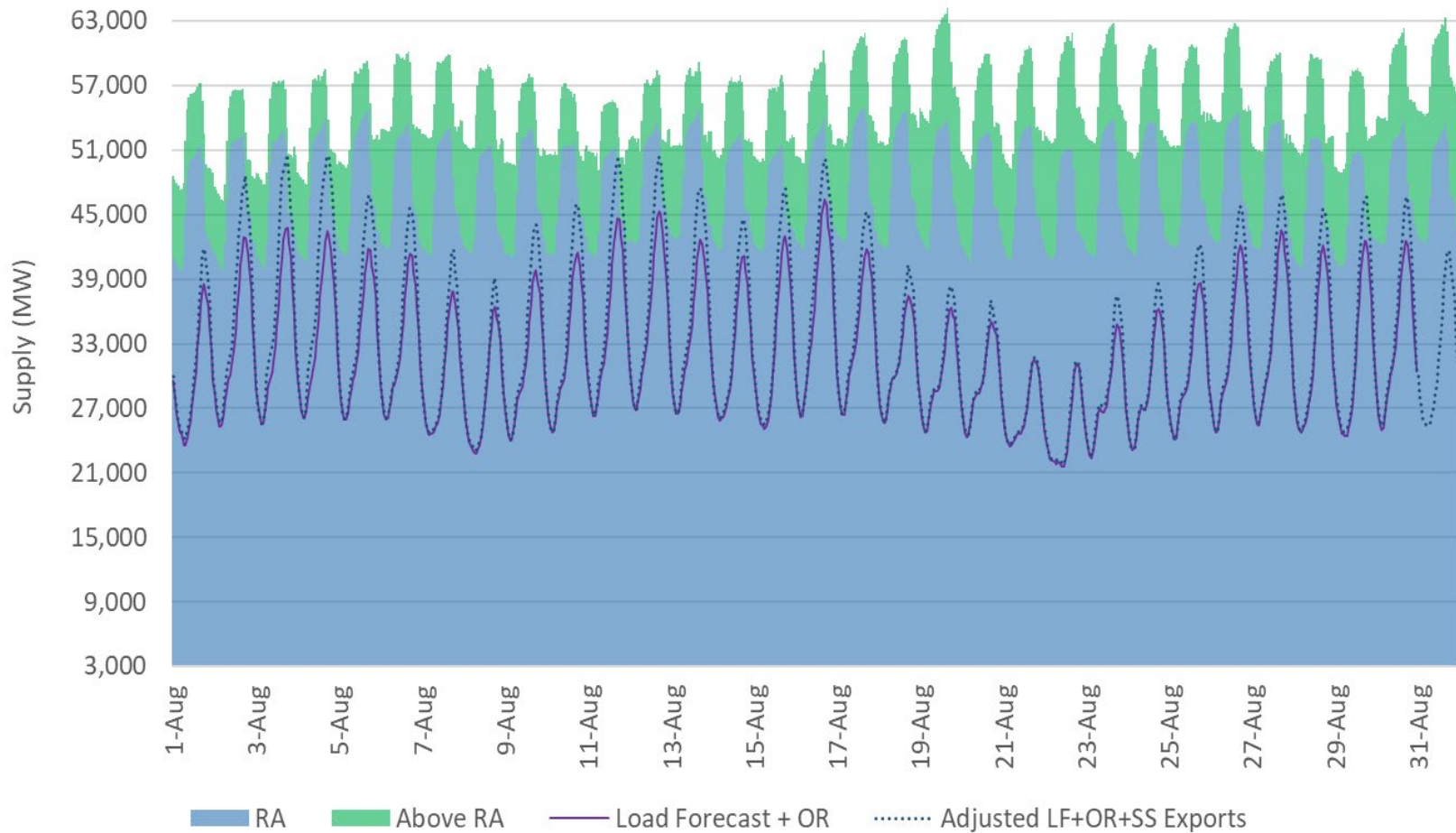
CAISO's load did not exceed the monthly CEC forecast, and monthly RA showings were above CAISO's load plus operating reserves



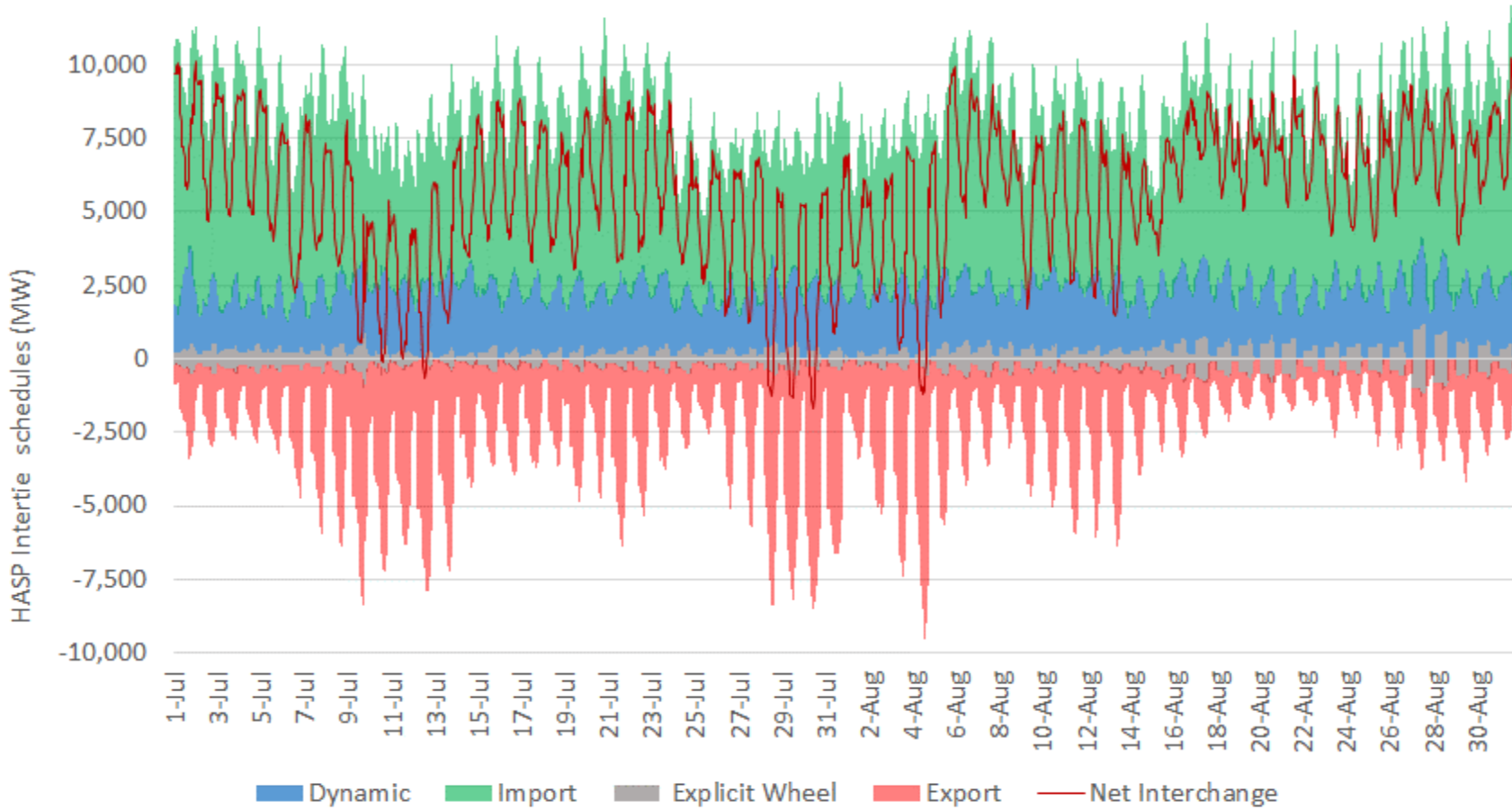
August experienced less challenging conditions than June and July

- There were not Flex alerts issued
- 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

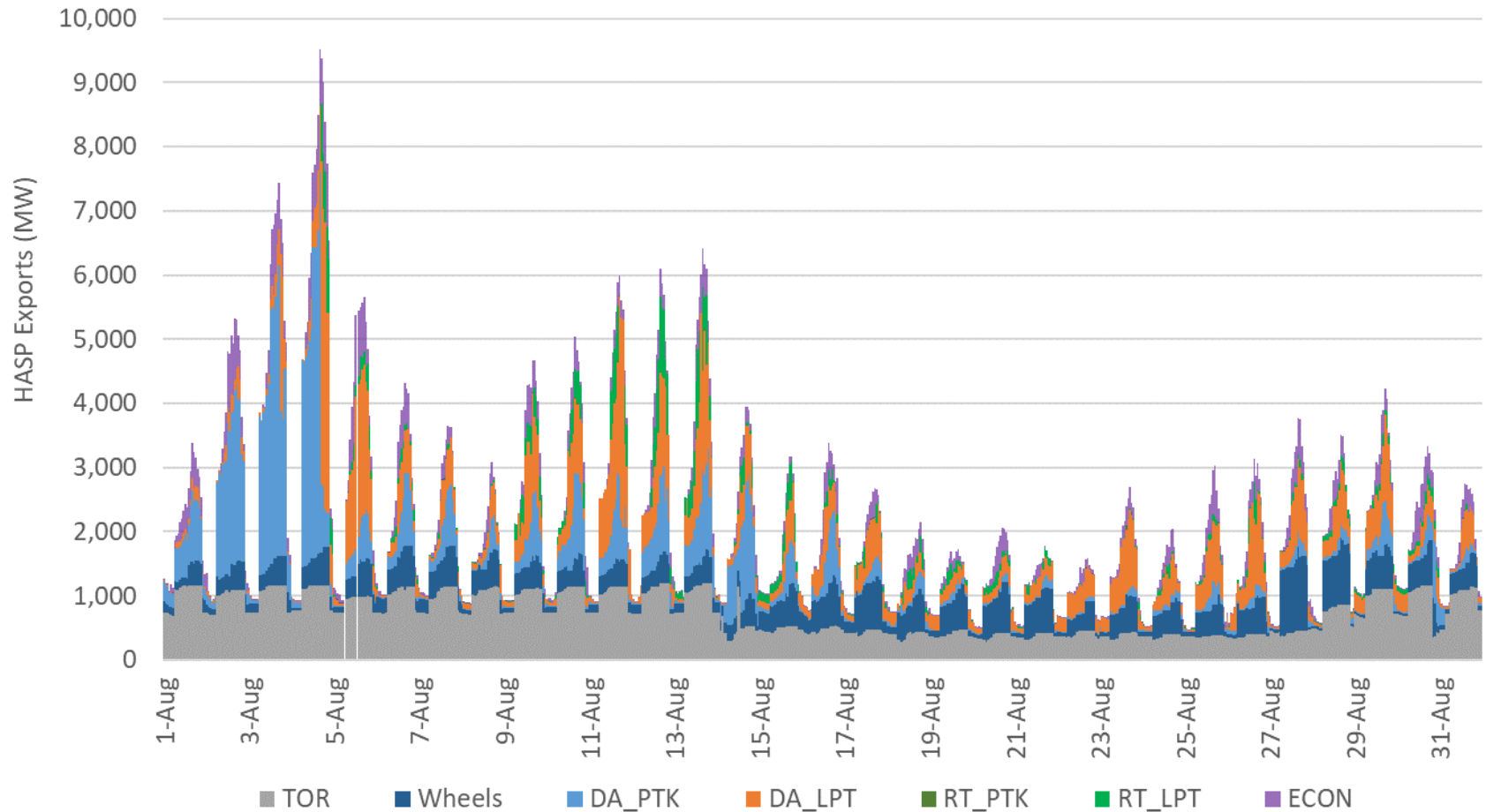
RA capacity was generally sufficient in August to meet load needs



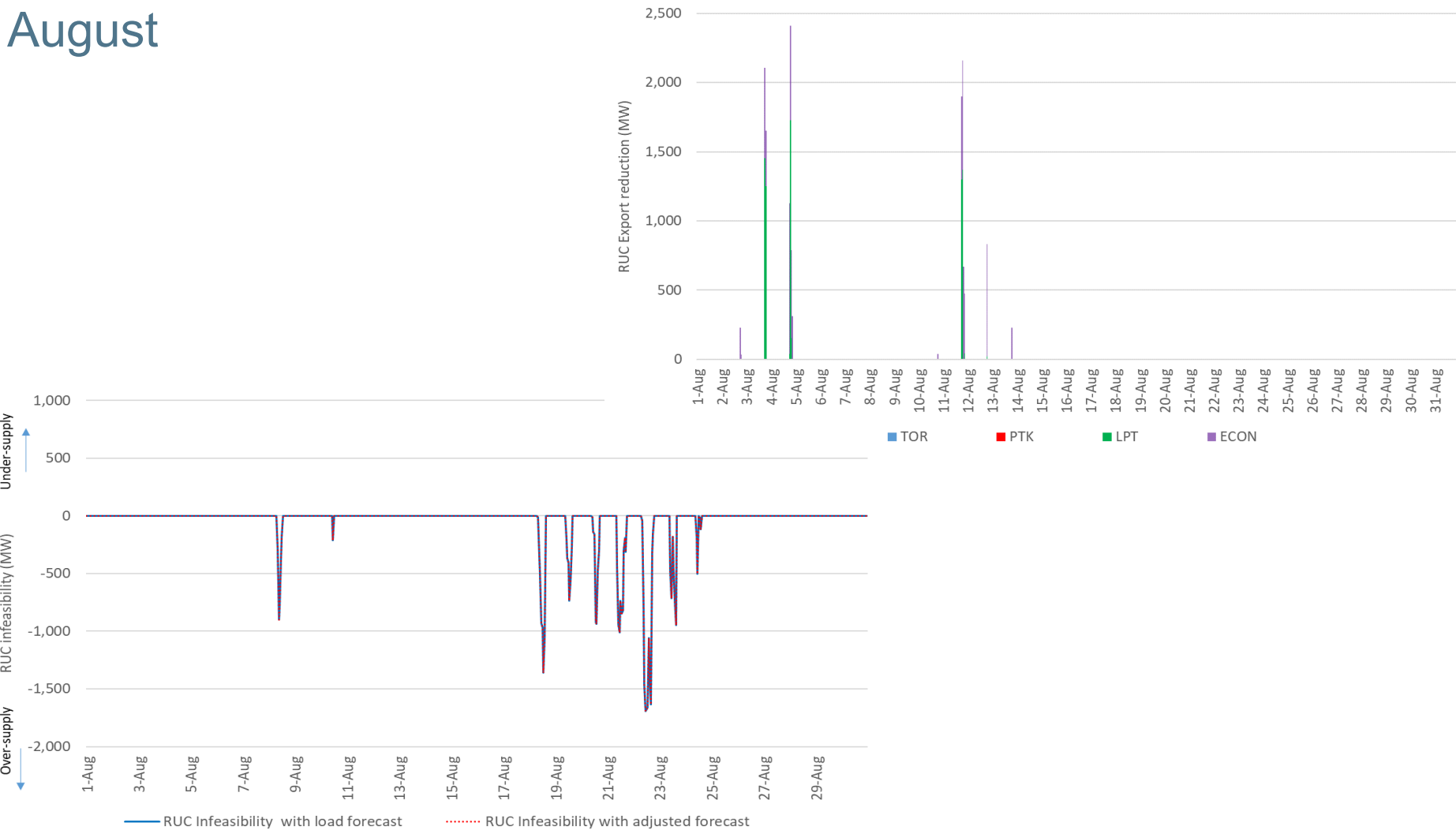
Net intertie schedules for peak hours increased to 6,000 MW in August compared to July's 4,300MW



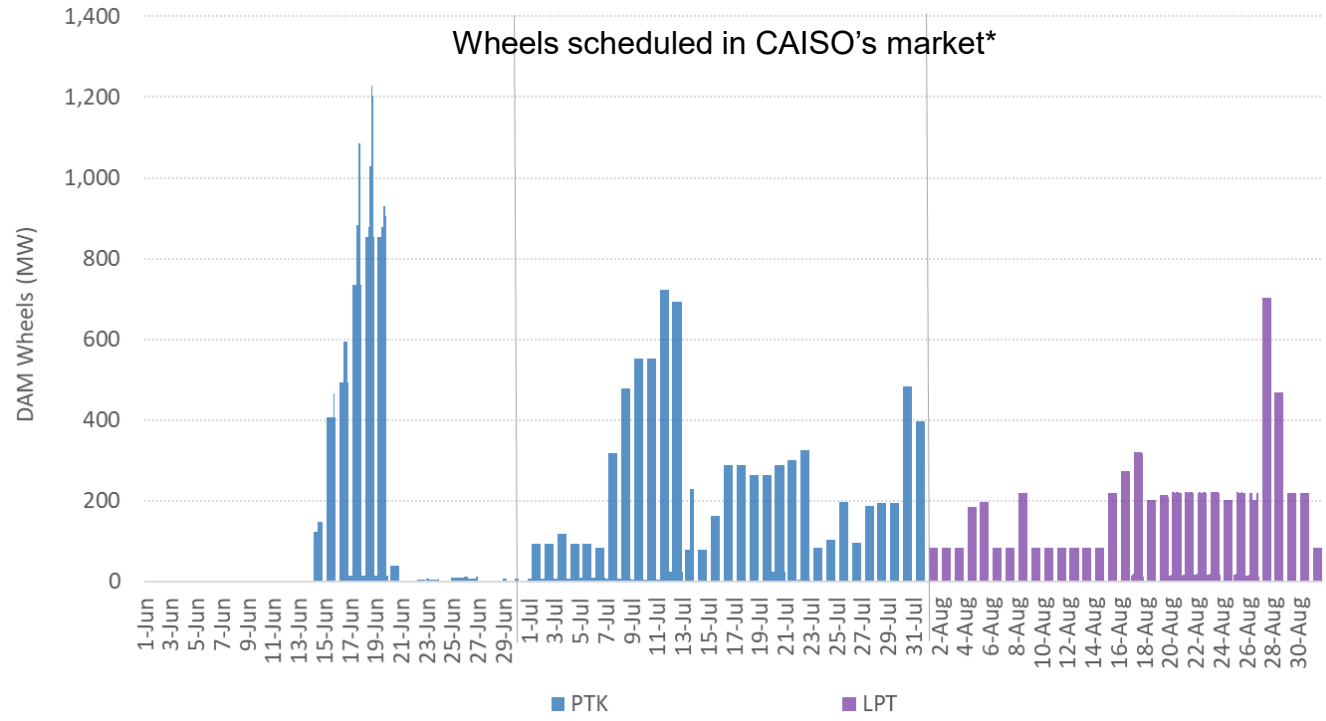
Volume of exports in CAISO's market reflects overall supply conditions in August



There were no RUC undersupply infeasibilities in August, but economic and low priority exports were reduced in several days of August



Volumes of cleared wheels through in August were lower than those of July and June



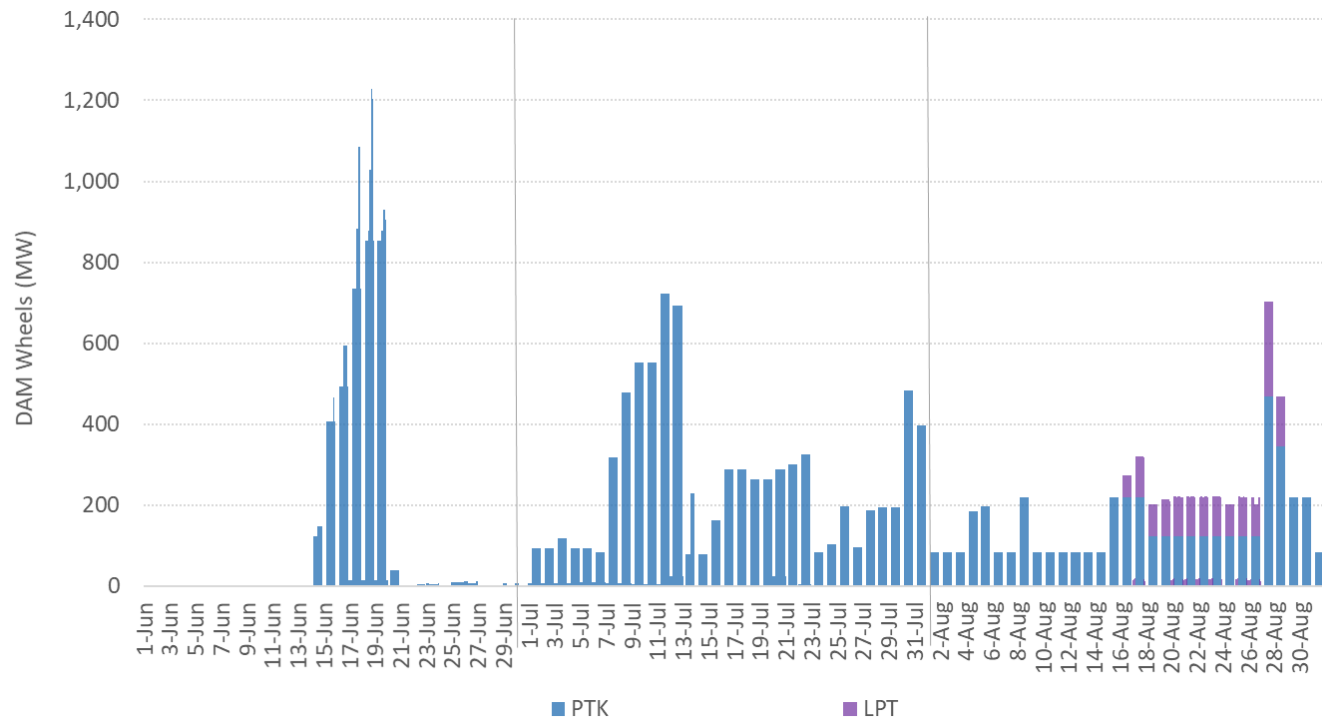
Maximum Wheels

Source	Sink			
	ELDORADO230	MCCULLOUGH500	PVWEST	MEAD230
MALIN500	96	100	150	
MDWP			21	
NOB		75	100	
SYLMAR		252		104

Registered PTK wheels were intended to be used in August; overall their volumes were below the nominal registration

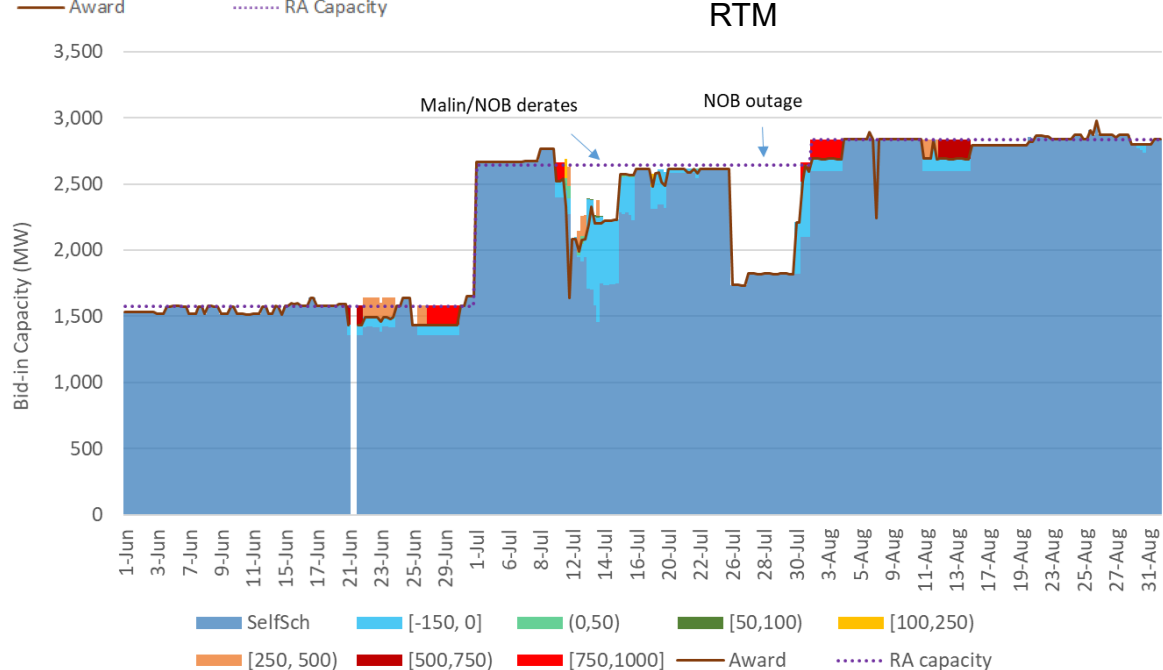
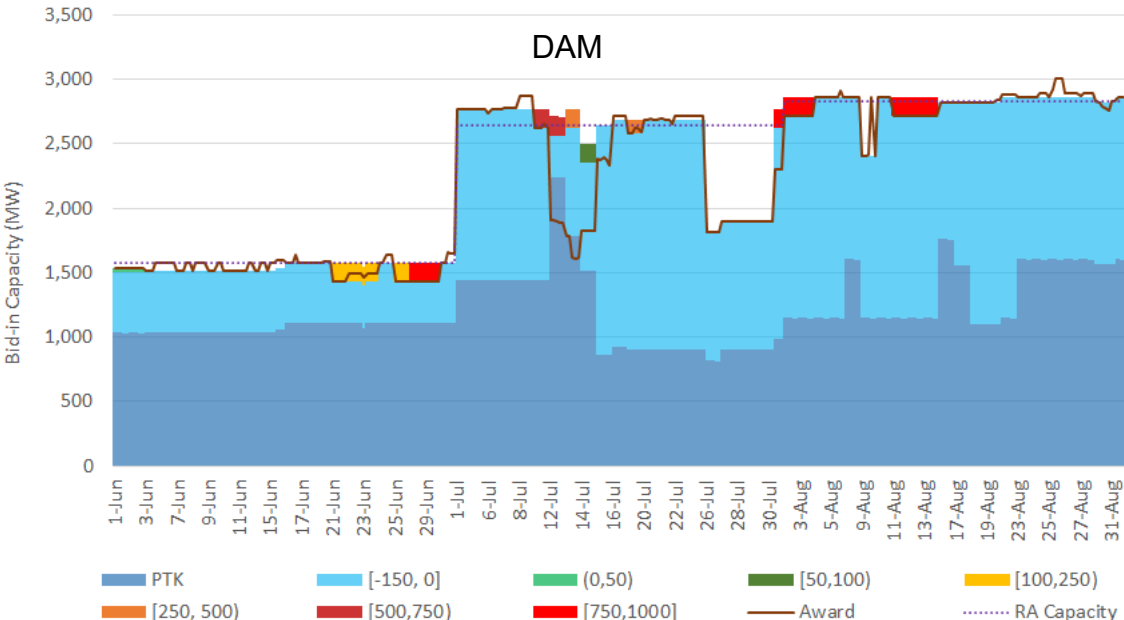
Registered PTK wheels

Source	Sink	MW
MALIN	PVWEST	33
MALIN	PVWEST	70
MALIN	MEAD	35
NOB	WESTWING500	15
NOB	MEAD	50
NOB	MEAD	50
CFETIJ	MEAD	125
CFEROA	MEAD	75
CFEROA	PVWEST	25
SYLMAR	MCCULLOUG500	84
SYLMAR	MCCULLOUG500	38
NOB	MCCULLOUG500	75
MALIN	ELDORADO	96
MALIN	PVWEST	150
NOB	PVWEST	100
Total		1021

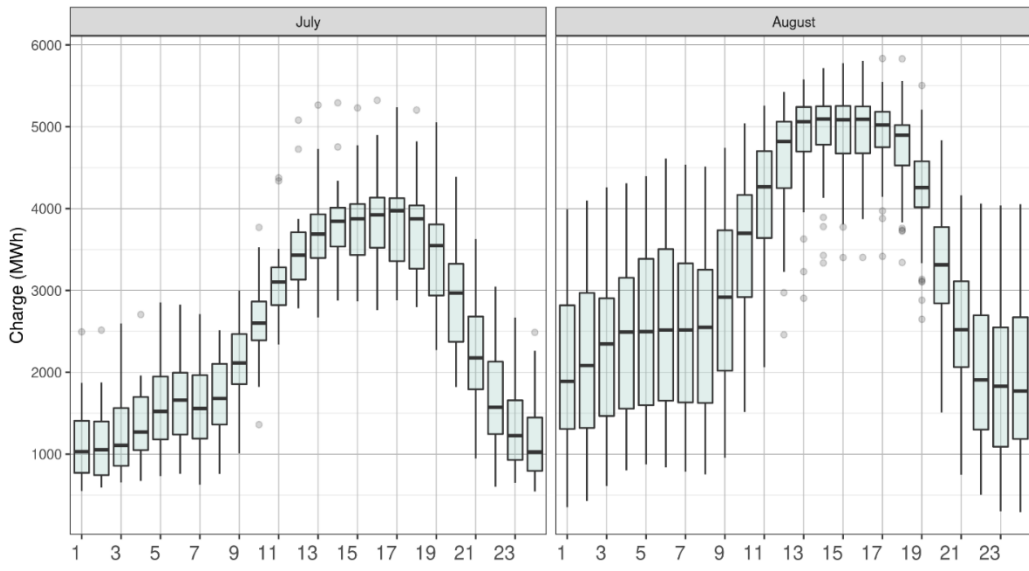
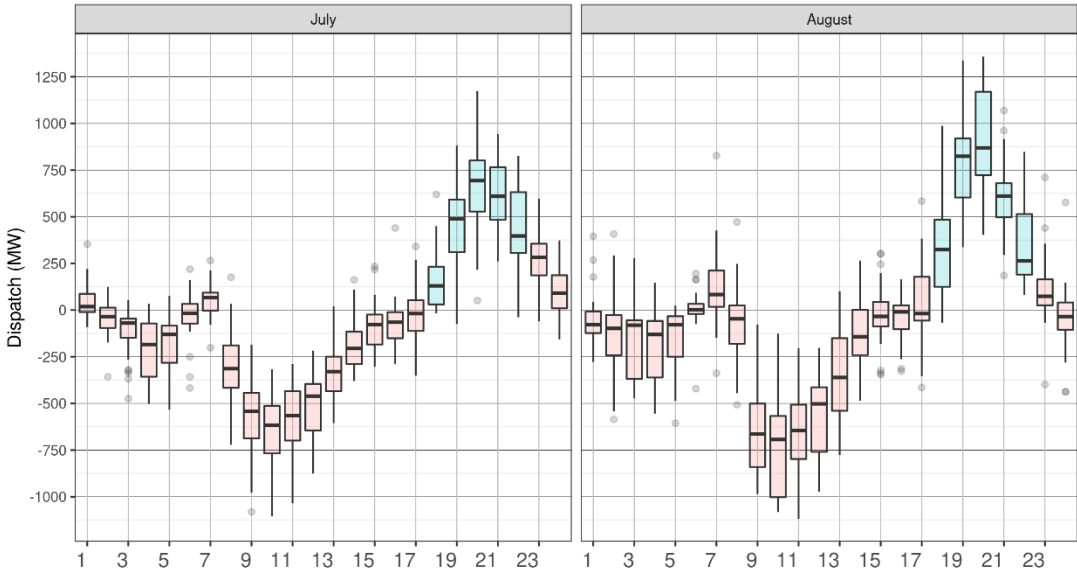


Intended use of registered PTK wheels was also impacted by mapping and validation challenges in the submission process

Over 98 percent of RA imports bid in at or below \$0/MWh in August



Storage resources are increasingly providing supply in critical hours



The addition of the uncertainty component to the Capacity requirement increased the number of Capacity test failures from 108 to 225 for overall EIM footprint



Issues identified in August

1. Incorrect scheduling priority for self-schedule exports in the day-ahead and real-time markets.

Action: Penalty prices corrected on September 18

2. Duplication of exports schedules in the HASP process

Action: Software fix on September 23

3. Incorrect priority assigned to exports in the real-time market

Action: Software fix on September 23

4. Processing of priority for registered wheels

Action: Software enhancement under assessment