LIC UTILITIES



AUGUST 2020 CAISO LOAD SHEDDING EVENTS: PRELIMINARY ROOT CAUSE ANAYSIS

Riverside Public Utilities

Board of Public Utilities January 11, 2021







- 6. Shortly before 7 PM on 8/15, the CAISO called on the three large IOUs to shed a total of 500 MW of load:
 - a) Fortunately, RPU was not instructed to shed any additional load during this second event.
- 7. On 8/16, Governor Newsom declared a State of Emergency due to the ongoing heat storm impacting California.
- 8. On 8/17, Governor Newsom ordered the CAISO, CPUC and CEC (i.e., the joint agencies) to jointly perform a root cause analysis of the factors leading to the rotating outages:

a) The joint agencies issued their preliminary findings on October 6.







DISCUSSION

- 2. As California has continued to transition to a grid based on more variable renewable resources, resource planning targets have not kept pace to ensure that there are still enough dispatchable resources that can be relied upon to meet demand in the early evening hours.
- 3. Some practices in the day-ahead energy market exacerbated the supply challenges under highly stressed conditions.



















- 4. Coordinate for additional procurement of flexible resources by non-CPUC jurisdictional entities.
- 5. Enhance CAISO market practices to ensure that they accurately reflect the actual balance of supply and demand during high stressed operating conditions.



POTENTIAL RA IMPACTS														
	% of Nameplate RA value for non-dispatchable Solar and Wind resources:													
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
So	olar	4%	3%	18%	15%	16%	31%	39%	27%	14%	2%	2%	0%	
V	/ind	14%	12%	28%	25%	25%	33%	23%	21%	15%	8%	12%	13%	
2.	Solai proc RA re	r res ceec equi	ourc lings reme	es mi , espe ents.	ght k eciall	be fur ly if LS	ther SEs m	discc Just so	,. ounter atisfy	d in f any i	uture new	RA "Net-	peak"	
3.	How Sola	r & V	r, < 5 Vind	% of resou	RPU': Jrces	s sum	mer	2021	RA ci	redit	is ass		ted with	17
Riversid	ePubli	cUtiliti	es.com	1								RIVER: VUBLI		







21

RIVERSIDE VUBLIC UTILITIES

RECOMMENDATION

That the Board of Public Utilities receive and file this update on the root causes for the August 14 and August 15, 2020 California Independent System Operator ordered load shedding events.