

Valley Clean Energy Board Meeting – July 11, 2024



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#### **CAISO** and VCE Summer Readiness

- Present summer weather outlooks suggest hotter forecast than 2023
  - Generally average to above average temperatures
- CAISO reports a surplus of 2.5 GW above forecasted 2024 peak summer needs
  - Surplus includes estimates of imports from other states
- VCE is over 100% hedged on average for Summer 2024
  - Fully compliant with Wholesale Energy Procurement Risk Management Policy hedging requirements for the summer (80% to 130% in Q3, at least 100% in Heavy Load Hours, meet hedging procurement requirements by June 15<sup>th</sup>)
  - Currently considering a "final layer" of Q3 energy hedge procurement
- VCE commercially agreed on all RA procurement for Q3 to reach 100% compliance
- VCE has multiple years of summer operating history, including both challenging and relatively mild summers, to inform decisions
- TEA currently running a drill on its "Volatile Incoming Pricing Event Response" process to ensure alignment between TEA and VCE on CAISO market operations and reporting in the case of a summer heat event



### July Short-Term Weather Forecast

Forecast last updated: Mon, Jul 08

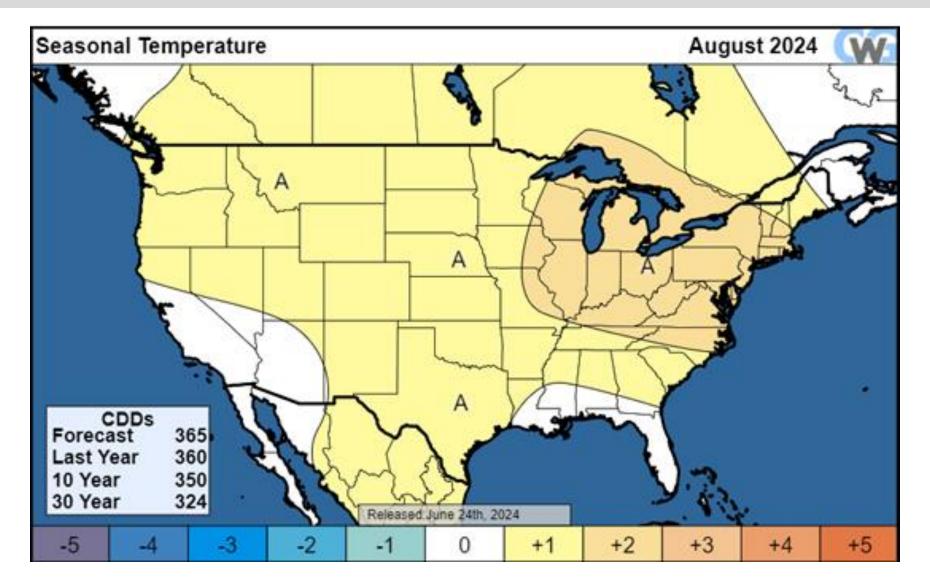
		Latest		M	lon	Tı	ıe	W	ed	TI	hu	F	ri	S	at	S	un	M	on	Τι	ıe	W	ed	Tł	าน	F	ri	S	at	Sı	un	М	on
	Chart	Hour	So Far	07	'-08	07	-09	07	-10	07	-11	07	-12	07	-13	07	-14	07-	-15	07	-16	07	-17	07-	-18	07	-19	07	-20	07	-21	07	-22
KSEA	~*	84	67/84	64	93	63	93	60	88	60	83	57	83	56	85	58	86	59	85	59	84	59	84	60	84	60	86	59	82	61	86	60	85
KPDX	~	84	67/84	65	101	65	101	63	92	63	88	60	89	59	89	60	90	63	91	63	88	63	89	62	90	63	91	62	89	64	92	63	92
KSAC	~	82	62/82	63	99	60	97	59	105	64	107	64	100	64	98	59	89	58	95	55	93	56	93	56	92	57	93	58	94	60	96	60	98
KBUR	~	80	64/80	63	89	66	95	71	96	71	96	70	94	68	92	66	89	67	90	63	85	63	85	63	84	63	86	64	86	66	89	67	90
KLAS	~	107	89/107	92	114	88	118	89	118	91	119	90	116	89	115	88	110	87	110	87	111	88	110	87	110	88	110	87	109	88	110	88	112
KPHX	~	106	91/106	89	116	89	116	91	117	91	116	92	116	93	113	93	108	91	109	92	110	91	110	90	110	90	111	90	111	91	111	92	113
KDEN	~	74	53/74	52	82	56	90	57	91	61	96	66	100	67	100	67	100	68	99	63	90	61	89	61	92	62	93	65	97	63	96	63	97
KSLC	~	86	65/86	66	93	66	98	68	101	70	103	72	103	74	103	79	102	78	101	74	101	73	101	74	101	74	102	75	101	76	102	77	102
KBOI	~	91	65/91	66	100	65	102	69	107	70	105	68	105	72	107	74	105	73	105	72	105	69	105	71	105	72	106	72	105	75	108	76	108
KABQ	~	74	66/76	67	84	62	90	65	92	66	93	68	95	69	95	70	96	71	97	70	95	69	95	69	93	68	92	67	92	67	91	68	92
	T(°F)		-15		-{	3			-5			-3			0			3				5			8			15					

Bold values indicate record forecasts

- We had expected some July heat, and the early part of the month lived up to it
- Sacramento area expected to cool off somewhat in the middle of the month

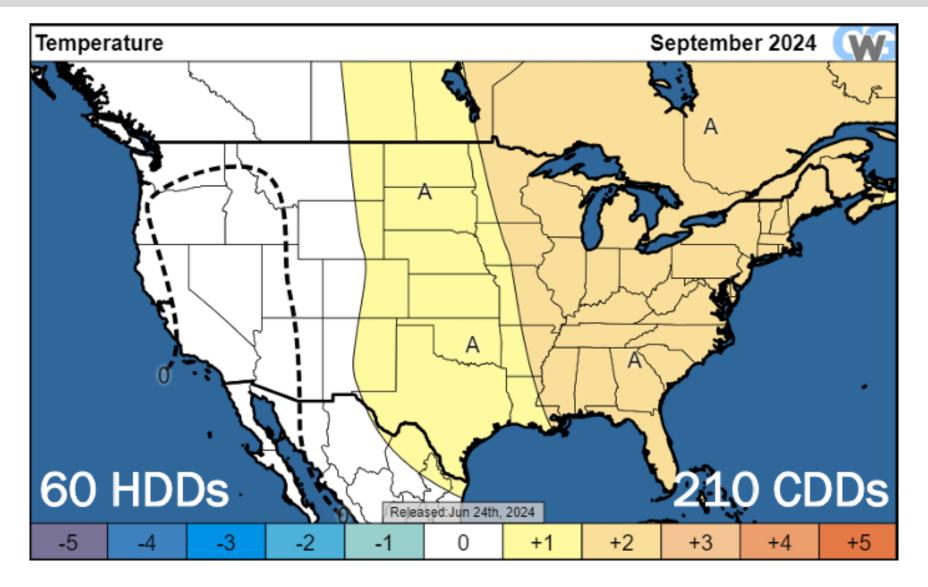


## **August Weather Forecast**



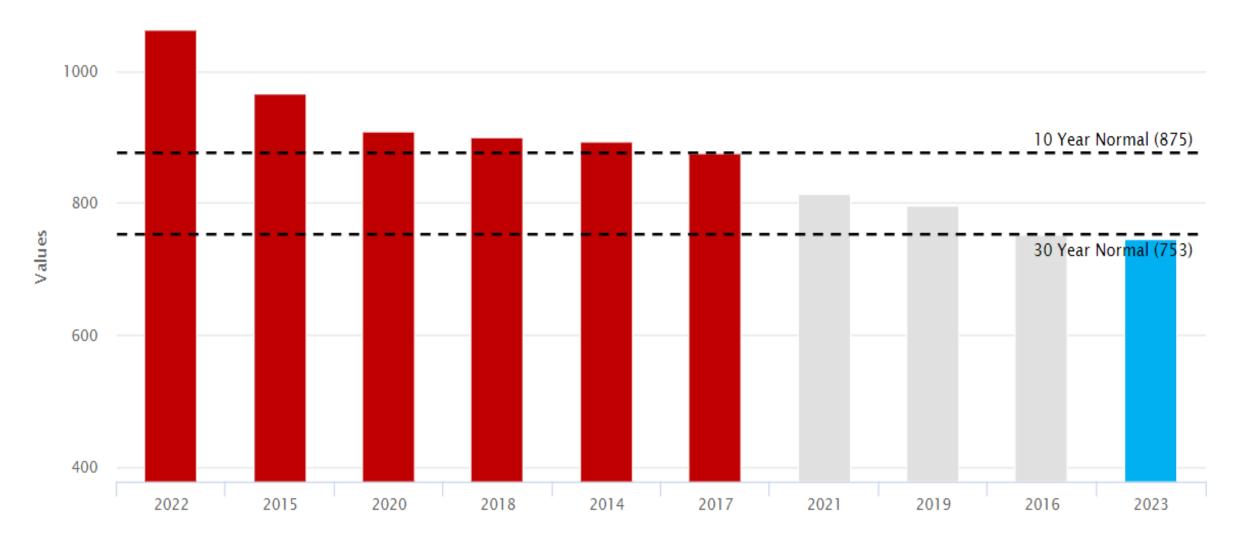


## September Weather Forecast



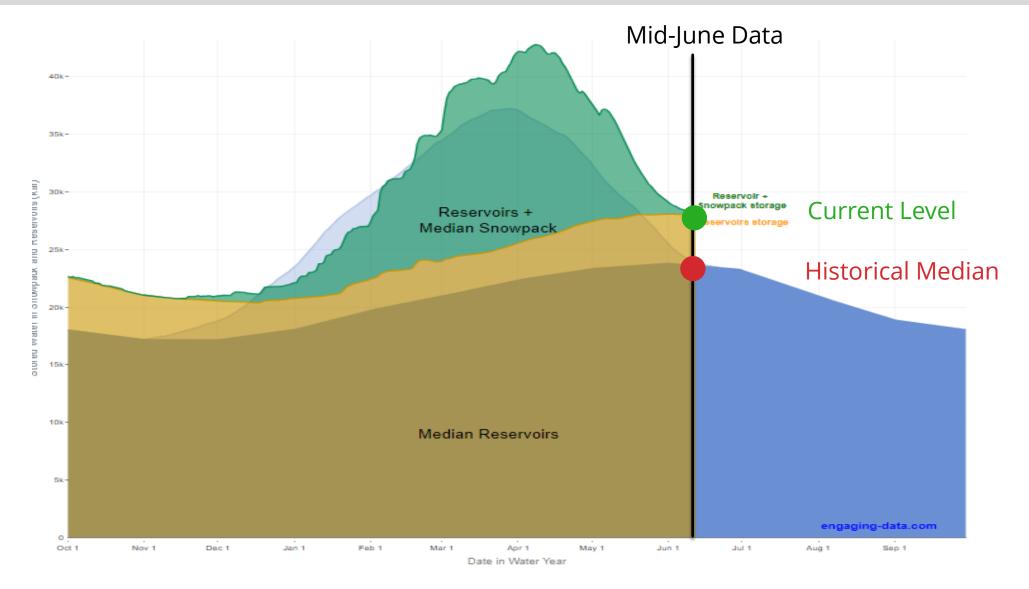


## Q3 CAISO Historical Population Weighted CDDs



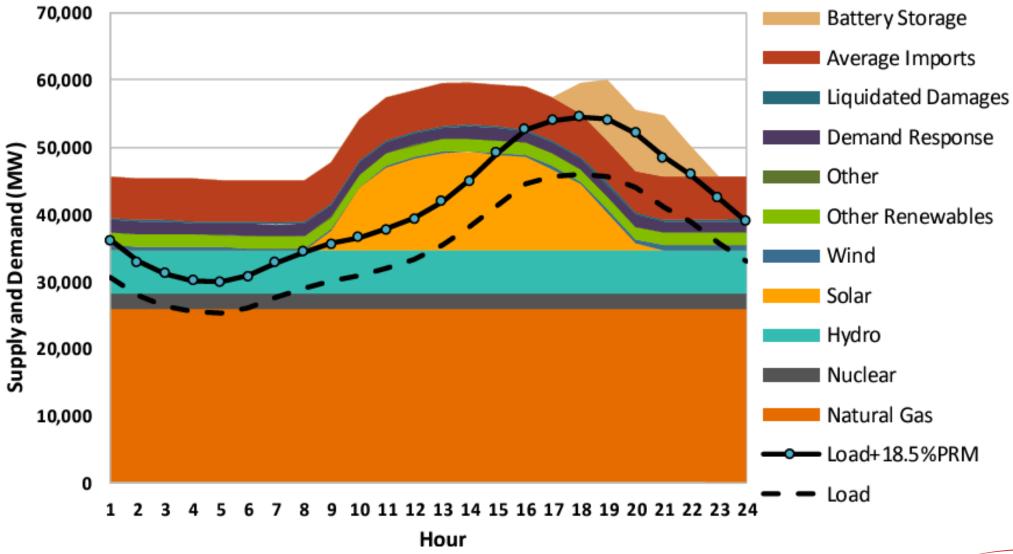


# California Seasonal Water Storage

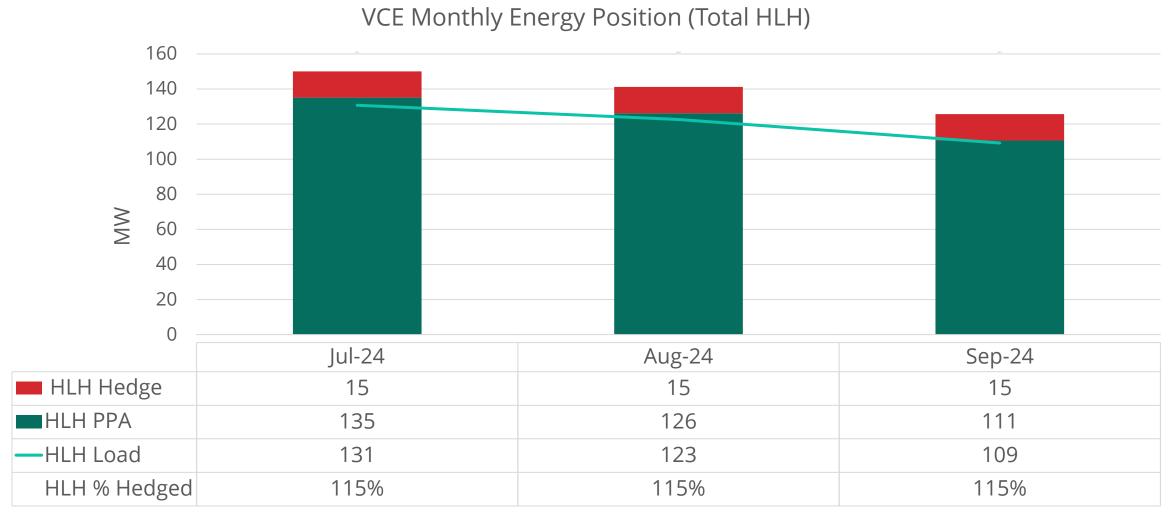




## CAISO 2024 September Peak Analysis



## **VCE Summer Energy Position**





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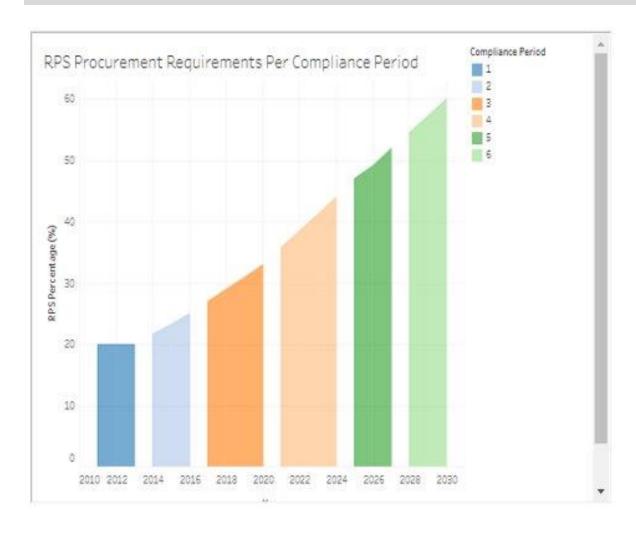


### WHAT IS THE RENEWABLE PORTFOLIO STANDARD?

- California requires entities that serve retail electric load to procure a minimum percentage of eligible renewable energy
- There are multiple bills that have shaped this program; but, most recently, SB 100 increased the RPS target to 60% by 2030
- There are multiple eligible renewable fuel types: wind, solar, biomass, small hydro (</= 20MW), etc.
- o An instrument called a REC is used to capture this eligibility and is "retired" to show compliance
  - A REC contains the "Green Attributes" of a unit of energy and represents that the energy was generated with an eligible renewable fuel type
- VCE's power purchase agreements are all with eligible renewable resources



### WHAT ARE THE TARGETS?



- RPS compliance happens over multiyear periods: "Compliance Period X/CPX"
- It is currently Compliance Period 4 (CP4), which goes from 2021-2024.
  - VCE's total RPS requirement during CP4 is ~40% of its retail load
- Targets increase over time, and compliance periods shorten to three years starting in 2025 (CP5)
  - VCE's total RPS requirement during CP5 is ~50% of its retail load



### PCC & CONTRACTING REQUIREMENTS IN THE RPS

- California has "Portfolio Content Categories" (PCC) of RECs defined in state law:
  - o PCC 1: Eligible renewable resources directly connected to California's grid
  - PCC 2: Out of state eligible renewable resources imported into California's grid
  - PCC 3: Eligible renewable resources not brought to California's grid (REC only)
- Beginning in Compliance Period 4, as a percentage of VCE's RPS requirement:
  - 75% of RECs used must be from PCC 1
  - o 65% of RECs used must be from contracts that are at least 10 years in duration (Long-Term)
  - No more than 10% of RECs used can be from PCC 3



### ENVIRONMENTAL ACCOUNTING CONSIDERATIONS

- VCE has long-term offtake contracts for large volumes of renewable energy resources inside California
- These resources will continue to produce and be associated with VCE's portfolio for the life of its offtake contracts
- Selling surplus attributes from these projects to other parties helps them meet their environmental goals while VCE gains greater financial security
- Overall emissions in California are unchanged, VCE simply can not "count" the attributes
  it sells any longer in compliance filings the buyer is paying for that right thus the buyer
  would reflect the RECs on their power content label (PCL)



### **REC PRICING**

Portfolio Content Category	2018 Average Price	2023 Average Price	2024 Forward Price	2025 Forward Price
PCC 1	\$16.50/REC	\$52.00/REC	\$73.00/REC	\$83.00/REC
PCC 2	\$6.50/REC	\$38.00/REC	\$67.00/REC	\$70.00/REC
PCC 3	\$1.50/REC	\$7.00/REC	\$7.00/REC	\$8.00/REC

- REC prices have risen substantially since VCE's launch
- All types display upward trends with PCC 1 and PCC 2 exhibiting the greatest year-over-year increases
- The penalty for any shortfall is \$50/REC for each "missing" REC
- 2025 PCC 1 bids observed in \$80-85 range presently



#### 2025 OPTIMIZATION

- VCE's renewable project offtake provides attributes well above its needs for compliance
- Examples:
  - Option A: VCE maintains compliance with Linear RPS Compliance of 47% in 2025
    - Sell 160,000 PCC 1 RECs at \$83.00/REC = \$13.28MM in portfolio optimization
  - Option B: VCE targets RPS percentage of 53% in 2025
    - Sell 120,000 PCC 1 RECs at \$83.00/REC = \$9.96MM in portfolio optimization
  - Option C: VCE does not sell any length in 2025
    - 2025 RPS Compliance will be ~70-80%

\*Above examples are for illustrative purposes and not meant to represent the only options available.

<sup>\*</sup>Above examples have built in "buffers" for potential resource outages, curtailment, and higher than expected load.

#### CONCLUSION

 Staff believes it is prudent to optimize VCE's portfolio by selling length without jeopardizing state compliance, VCE's Base Green & Standard Green rates, or VCE's long-term goals (100% renewable by 2030)

- Staff believes actions similar to Options A and B should generally be used as:
  - 1. The power cost reduction from the length sale is material and will be used to fund other procurement needs in VCE's portfolio
  - 2. VCE has ample remaining attributes to meet or exceed state RPS compliance consistent with Board direction

Note: VCE's Base Green is 0-5% above compliance and Standard Green rate is 5% above Base Green

