California ISO

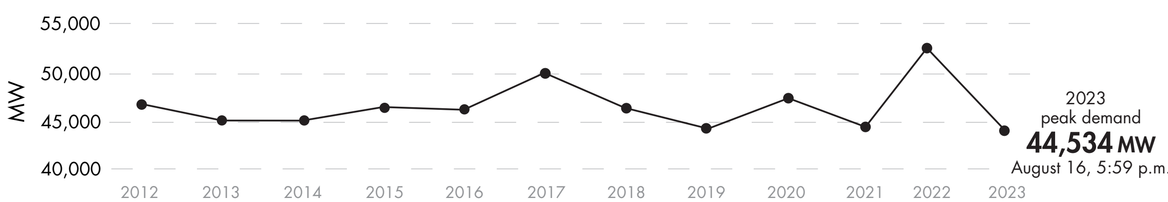
KEY STATISTICS

Peaks for October 2023

Peak demand[1]	Solar peak[1]	Wind peak[1]	Peak demand served by renewables[1,2]	Peak net imports
37,074 MW	**15,410 MW**	**5,147 MW**	**10,281 MW**	**7,705 MW**
Oct. 6, 5:51 p.m.	Oct. 2, 11:05 a.m.	Oct. 10, 4:45 p.m.	Oct. 5, 5:09 p.m.	Oct. 17, 3:40 a.m.
Previous month: 38,837 MW	**Previous month:** 16,056 MW	**Previous month:** 4,985 MW	**Previous month:** 11,086 MW	**Previous month:** 8,466 MW

Annual peak demand

Peak load history



Historical statistics and records *(as of 11/02/2023)*

Solar peak
16,056 MW
Sept. 26, 2023 at 11:32 a.m.
Previous record:
16,044 MW, Sept. 6, 2023

Wind peak
6,465 MW
May 28, 2022 at 5:39 p.m.
Previous record:
6,265 MW, March 4, 2022

Peak percentage of renewables compared to demand
103.5%
May 8, 2022 at 3:39 p.m.
Previous record:
99.87%, April 30, 2022

Peak net imports
11,894 MW
Sept. 21, 2019 at 6:53 p.m.

Peak demand
52,061 MW
Sept. 6, 2022 at 4:57 p.m.
Second highest:
50,270 MW, July 24, 2006

Steepest 3-hour average ramp
20,935 MWh
Sept. 24, 2023 starting at 2:30 p.m.
Second highest:
20,326 MWh, Feb. 15, 2023

[1] Based on 1-minute averages, and includes dynamic transfers. Values are subject to revision as data is refined.
[2] Indicates the highest amount of renewables serving peak electricity demand on any given day.

California ISO

KEY STATISTICS

Western Energy Imbalance Market (WEIM) benefits: Q3 2023 Read report

Benefits	ISO avoided curtailments	ISO GHG savings[3]
$462.05 million	**60,133 MWh**	**25,728 $MTCO_2$**
Previous quarter: $379.91 million	**Previous quarter:** 148,938 MWh	**Previous quarter:** 63,745 $MTCO_2$

WEIM benefits since 2014 Visit WEIM website

Benefits	ISO avoided curtailments	ISO GHG savings[3]
$4.66 billion	**2,112,850 MWh**	**904,219 $MTCO_2$**

Active participants	Number of states
22	**11**

Resources

Resource adequacy net qualifying capacity (NQC) = 48,649 MW

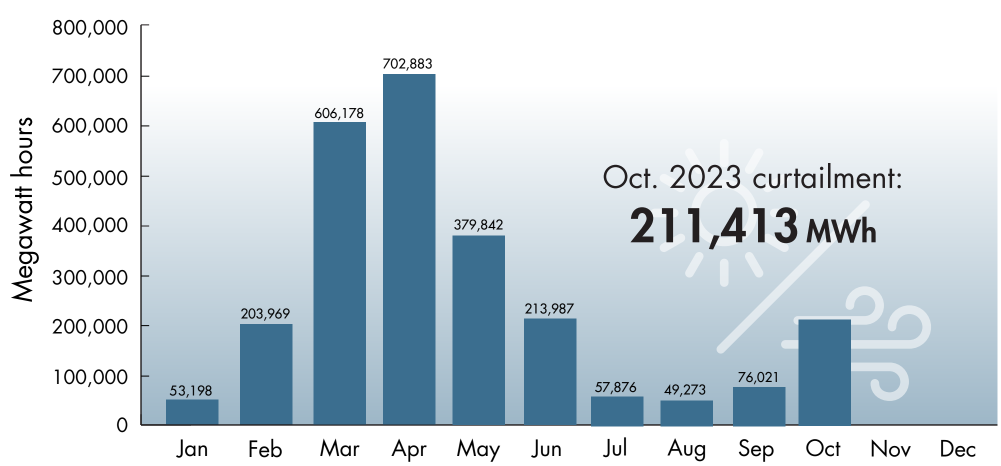
As of 10/31/23. Does not include current outages.

Installed battery capacity[4]
6,249 MW

As of 10/31/23; subject to change.

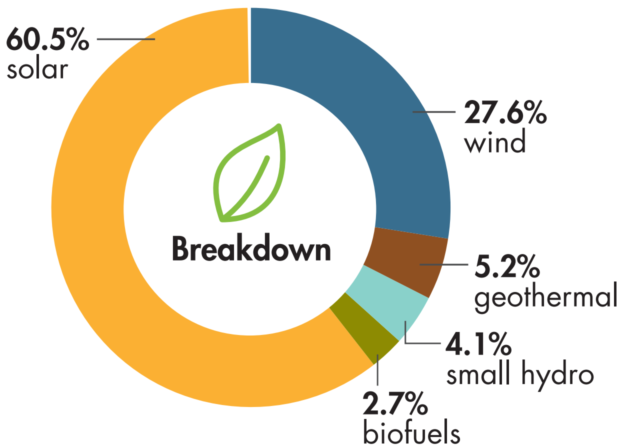
Wind and solar curtailment totals

For more on oversupply, visit here.



[3] The GHG emission reduction is associated with the avoided curtailment only.
[4] Includes storage resources that have achieved commercial operation date, and does not include pumped storage.

Installed renewable resources *(as of 10/30/2023)*



	Megawatts
Solar	17,622
Wind	8,033
Geothermal	1,504
Small hydro	1,180
Biofuels	781
TOTAL	**29,120**

See Today's Outlook

NOTE — The ISO is using updated methodology to generate data. Only fully commercial units are now counted; units that are in test mode or partially online are excluded. For that data, view the Master Control Area Generating Capability List in the Master Generating File on OASIS under "Atlas Reference."

Other facts

- 32 million consumers
- Serve ~80% of California demand
- Serve ~33% of WECC demand within the ISO balancing authority
- 1 MW serves about 750-1,000 homes (1 MWh = 1 million watts used for one hour)
- 239.1 million megawatt-hours of load served (2022)
- 243.1 million megawatts of total electricity delivered (2022)
- 36,689 average market transactions per day (2022)
- 21 participating transmission owners
- ~26,000 circuit miles of transmission
- 298 market participants
- RC West is the reliability coordinator for 42 entities across 10 western states and northern Mexico

See 2022 Annual Statistics

See previous Key Statistics