California ISO

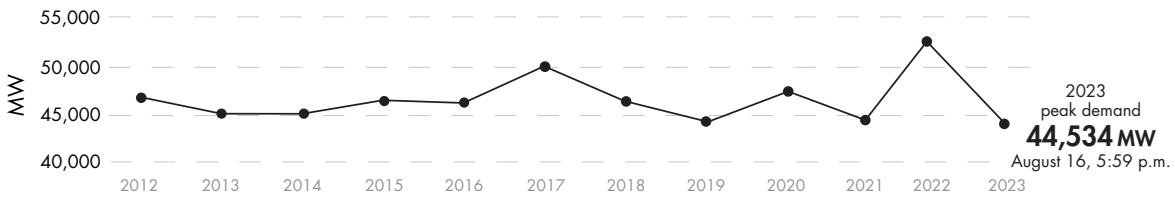
KEY STATISTICS

Peaks for December 2023

Peak demand[1]	Solar peak[1]	Wind peak[1]	Peak demand served by renewables[1,2]	Peak net imports
29,261 MW	**13,624 MW**	**4,887 MW**	**14,352 MW**	**6,654 MW**
Dec. 13, 5:50 p.m.	Dec. 13, 9:52 a.m.	Dec. 6, 8:25 p.m.	Dec. 8, 8:45 a.m.	Dec. 12, 8:49 p.m.
Previous month: 28,808 MW	**Previous month:** 14,527 MW	**Previous month:** 5,380 MW	**Previous month:** 6,125 MW	**Previous month:** 7,587 MW

Annual peak demand

[Peak load history]



Historical statistics and records *(as of 01/11/2024)*

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 NEW!
21,153 MWh
Jan 7, 2024 starting at 2:30 p.m.
Second highest:
20,935 MWh, Sept. 24, 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
$462.05 million
Previous quarter:
$379.91 million

ISO avoided curtailments
60,133 MWh
Previous quarter:
148,938 MWh

ISO GHG savings[3]
25,728 $MTCO_2$
Previous quarter:
63,745 $MTCO_2$

WEIM benefits since 2014 *Visit WEIM website*

Benefits
$4.66 billion

ISO avoided curtailments
2,112,850 MWh

ISO GHG savings[3]
904,219 $MTCO_2$

Active participants
22

Future participants
1

Number of states
11

Resources

Resource adequacy net qualifying capacity (NQC) = 48,481 MW

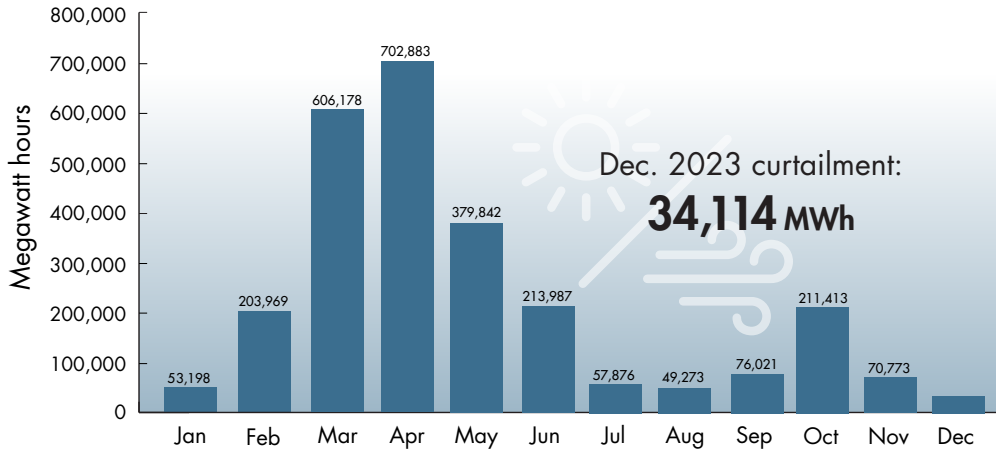
As of 01/01/24. Does not include current outages.

Installed battery capacity[4]
7,188 MW

As of 01/01/24; subject to change.

Wind and solar curtailment totals

For more on oversupply, visit here.

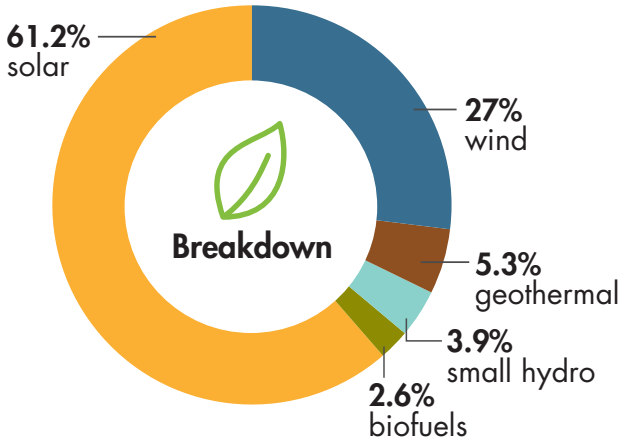


[3] The GHG emission reduction is associated with the avoided curtailment only.
[4] Includes storage resources that have achieved commercial operation date, and does not include pumped storage.

California ISO

KEY STATISTICS

Installed renewable resources *(as of 01/01/2024)*



	Megawatts
Solar	18,463
Wind	8,128
Geothermal	1,609
Small hydro	1,180
Biofuels	778
TOTAL	**30,158**

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
- 306 market participants
- RC West is the reliability coordinator for 42 entities across 10 western states and northern Mexico

See previous Key Statistics

Watch for the 2023 Annual Statistics coming soon.