California ISO

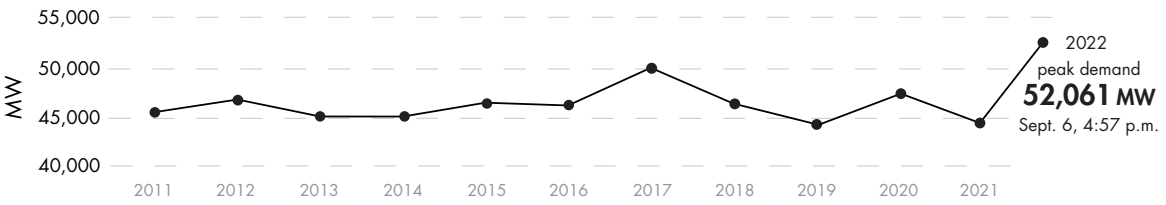
KEY STATISTICS

Peaks for March 2023

Peak demand[1]	Solar peak[1]	Wind peak[1]	Peak demand served by renewables[1,2]	Peak net imports
28,873 MW	**13,110 MW**	**5,812 MW**	**12,258 MW**	**7,970 MW**
March 1, 6:50 p.m.	March 2, 11:03 a.m.	March 23, 11:17 p.m.	March 3, 7:43 a.m.	March 24, 10:43 p.m.
Previous month: 29,250 MW	**Previous month:** 12,732 MW	**Previous month:** 5,430 MW	**Previous month:** 8,667 MW	**Previous month:** 9,100 MW

Annual peak demand

[Peak load history]



Historical statistics and records *(as of 3/31/2023)*

Solar peak
14,352 MW
June 7, 2022 at 12:16 p.m.
Previous record:
14,136 MW, May 16, 2022

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 at 4:57 p.m.
Second highest:
50,270 MW, July 24, 2006

Steepest ramp over 3-hour period
20,326 MW
Feb. 15, 2023 starting at 3:00 p.m.
Second highest:
19,699 MW, Jan. 23, 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: Q4 2022 *Read report*

Benefits
$485.3 million
Previous quarter:
$526.5 million

ISO avoided curtailments
25,609 MWh
Previous quarter:
42,468 MWh

ISO GHG savings[3]
10,960 $MTCO_2$
Previous quarter:
18,176 $MTCO_2$

WEIM benefits since 2014 *Visit WEIM website*

Benefits
$3.4 billion

ISO avoided curtailments
1,850,797 MWh

ISO GHG savings[3]
792,061 $MTCO_2$

Active participants
22

Number of states
11

Resources

Resource adequacy net qualifying capacity (NQC) = **46,272 MW**

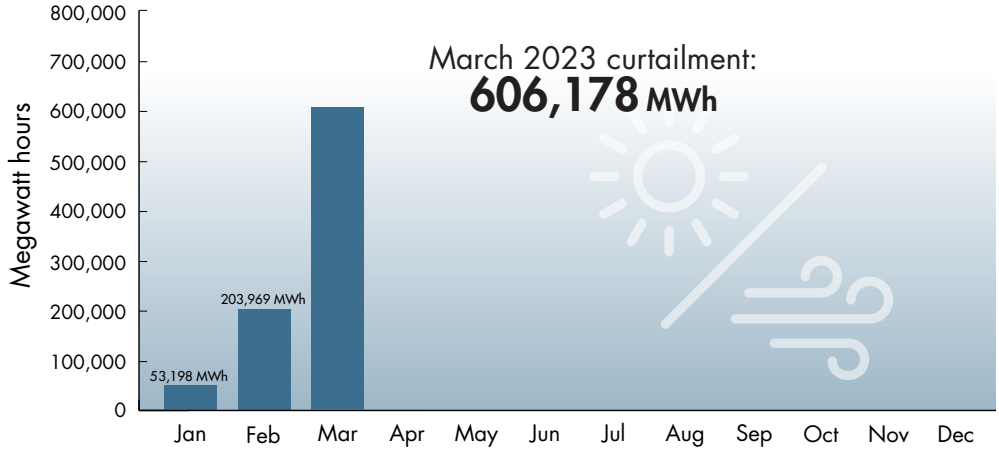
As of 3/31/23. Does not include current outages.

Installed battery capacity[4]
4,515 MW

As of 3/31/23; subject to change.

Wind and solar curtailment totals

For more on oversupply, visit here.

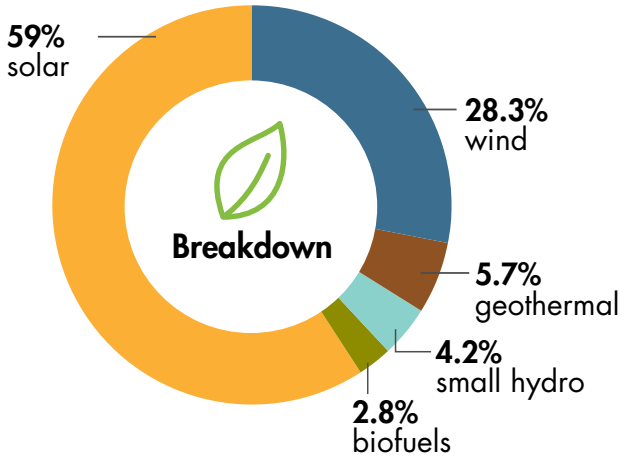


[3] The GHG emission reduction is associated with the avoided curtailment only.
[4] Includes storage resources that have achieved commercial operation date, and does not include pumped storage.

California ISO

KEY STATISTICS

Installed renewable resources *(as of 3/31/2023)*



	Megawatts
Solar	16,591
Wind	7,950
Geothermal	1,599
Small hydro	1,194
Biofuels	801
TOTAL	**28,135**

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)
- 224.8 million megawatt-hours of load served (2020)
- 70,037 average market transactions per day (2021)
- 20 participating transmission owners
- ~26,000 circuit miles of transmission
- 284 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