California ISO

KEY STATISTICS

Peaks for July 2025

PEAK DEMAND[1]
39,908 MW
July 10, 7:02 p.m.

Previous month
36,511 MW

Previous year:
45,426 MW

SOLAR PEAK[1]
21,774 MW
July 30, 11:56 a.m.

Previous month:
21,604 MW

Previous year:
19,279 MW

WIND PEAK[1]
5,452 MW
July 19, 10:08 p.m.

Previous month:
6,285 MW

Previous year:
5,452 MW

PEAK DEMAND SERVED BY RENEWABLES[1,2]
25,744 MW
July 21, 10:07 a.m.

Previous month:
24,870 MW

Previous year:
18,031 MW

PEAK NET IMPORTS
7,947 MW
July 2, 11:42 p.m.

Previous month:
9,189 MW

Previous year:
9,566 MW

PEAK NET EXPORTS
5,909 MW
July 13, 2:53 p.m.

Previous month:
7,380 MW

Previous year:
5,945 MW

Historical statistics and records *(as of 08/12/2025)*

PEAK DEMAND
52,061 MW
Sept. 6, 2022 at 4:57 p.m.

Second highest:
50,270 MW, July 24, 2006

New record

SOLAR PEAK
21,774 MW
July 30, 2025 at 11:56 a.m.

Previous record:
21,718 MW, July 24, 2025

WIND PEAK
6,465 MW
May 28, 2022 at 5:39 p.m.

Previous record:
6,265 MW, Mar. 4, 2022

PEAK NET IMPORTS
11,894 MW
Sept. 21, 2019 at 6:53 p.m.

STEEPEST 3-HOUR AVERAGE RAMP
23,400 MWh
Mar. 7, 2025 starting at 3:05 p.m.

Second highest:
23,228 MWh, Jan. 20, 2025

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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.

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Western Energy Imbalance Market (WEIM) benefits: Q2 2025 Read report

BENEFITS
$420.44 million
Previous quarter:
$369.36 million

ISO AVOIDED CURTAILMENTS
112,712 MWh
Previous quarter:
76,015 MWh

ISO GHG SAVINGS[3]
48,241 $MTCO_2$
Previous quarter:
32,534 $MTCO_2$

WEIM benefits since 2014 Visit WEIM page

BENEFITS
$7.4 billion

ISO AVOIDED CURTAILMENTS
2,625,909 MWh

ISO GHG SAVINGS3
1,123,809 $MTCO_2$

Active participants: 22

Future participants: 3

Number of states: 11

Resources

Resource adequacy net qualifying capacity (NQC) = **66,463 MW**

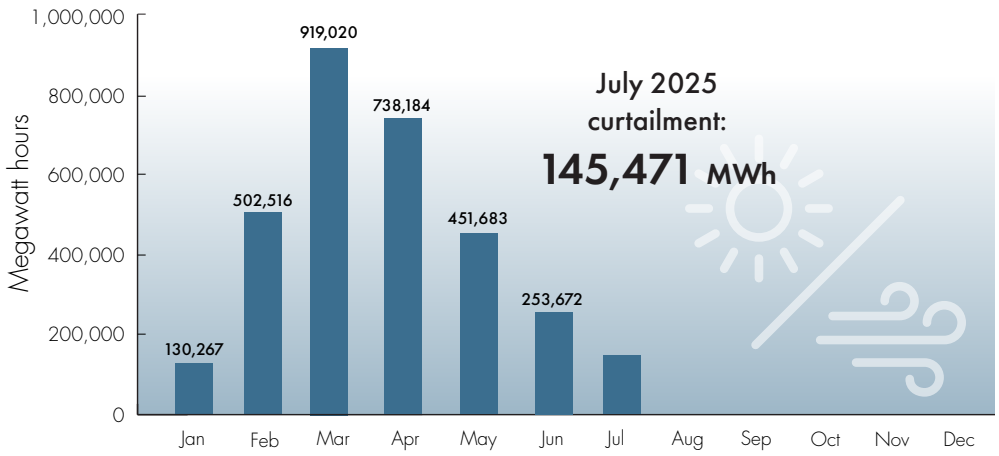
As of 07/31/25. Does not include current outages.

Installed battery capacity[4]
13,350.51 MW

As of 07/31/25; subject to change.

Wind and solar curtailment totals

Learn about curtailment and managing the evolving grid.

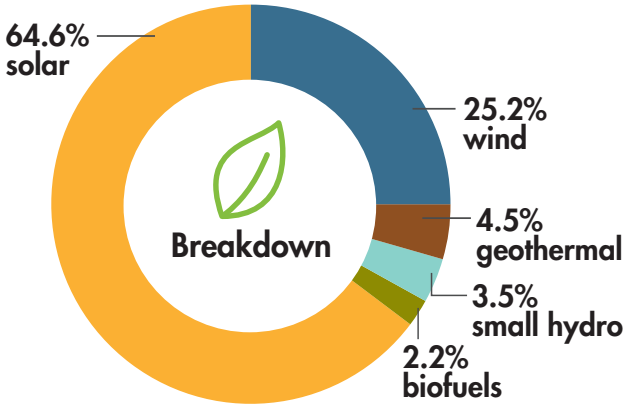


[3] The GHG emission reduction is associated with the avoided curtailment only.
[4] Includes storage resources that have achieved commercial operation date, and does not include pumped storage.

California ISO

KEY STATISTICS

Installed renewable resources *(as of 08/11/2025)*



	Megawatts
Solar	21,406
Wind	8,355
Geothermal	1,505
Small hydro	1,146
Biofuels	730
TOTAL	**33,142**

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 served
- Serves ~80% of California demand
- Serves ~24% 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)
- 241.8 million megawatt-hours of load served (2024)
- 253.3 million megawatts of total electricity delivered (2024)
- 40,298 MW average market transactions per day (2024)
- 23 participating transmission owners
- ~26,000 circuit miles of transmission
- 328 market participants
- RC West is the reliability coordinator for 25 balancing authorities and 40 transmission operators

See previous Key Statistics