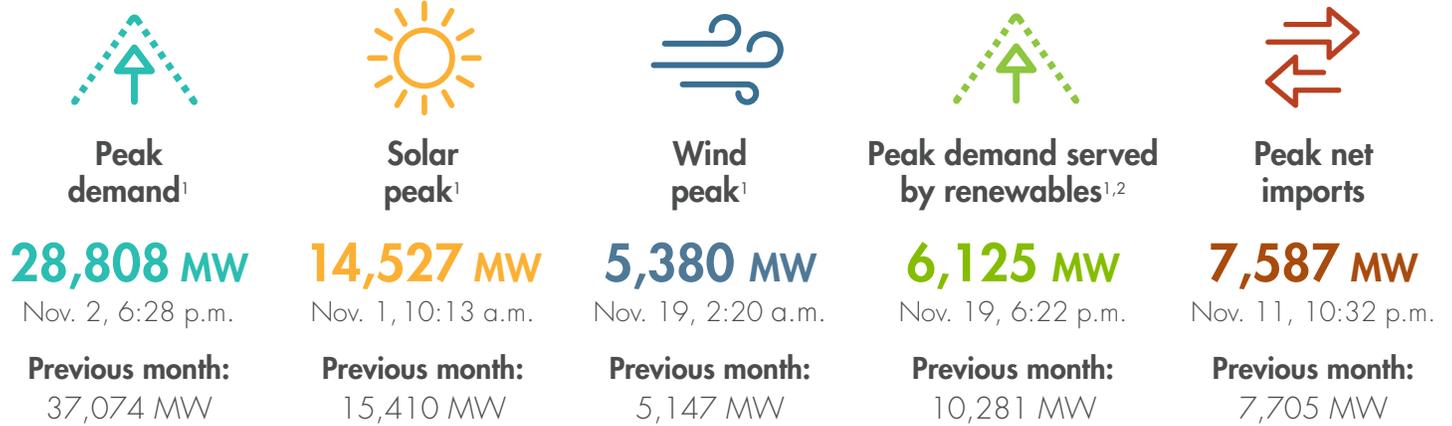
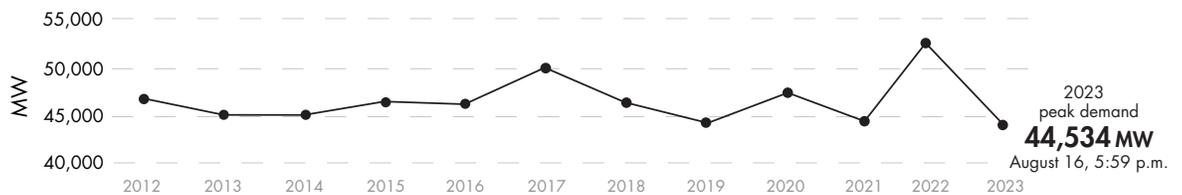


Peaks for November 2023




Annual peak demand

[Peak load history](#)



Historical statistics and records (as of 12/01/2023)


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.

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 savings³
25,728 MTCO₂

Previous quarter:
63,745 MTCO₂

WEIM benefits since 2014 [Visit WEIM website](#)

Benefits
\$4.66 billion

Active participants
22

ISO avoided curtailments
2,112,850 MWh

Future participants
1

ISO GHG savings³
904,219 MTCO₂

Number of states
11

Resources



Resource adequacy net qualifying capacity (NQC) = **48,331 MW**

As of 12/01/23. Does not include current outages.

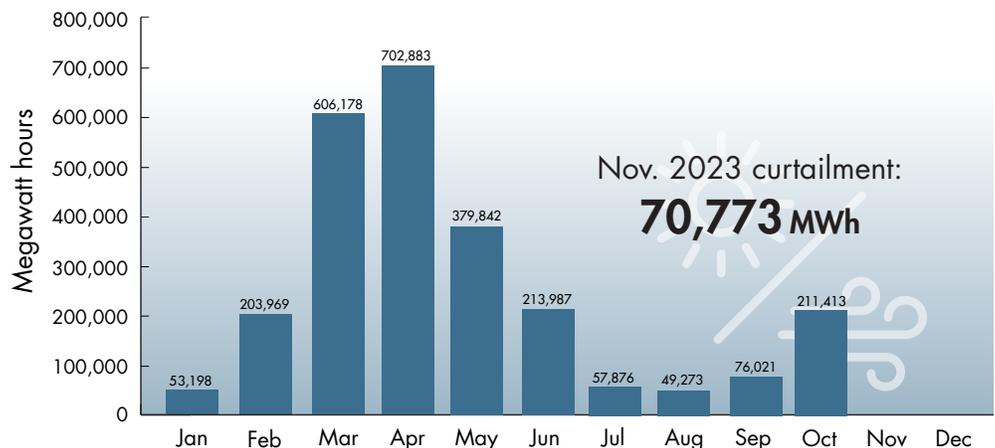


Installed battery capacity⁴ = **6,249 MW**

As of 12/01/23; subject to change.

Wind and solar curtailment totals

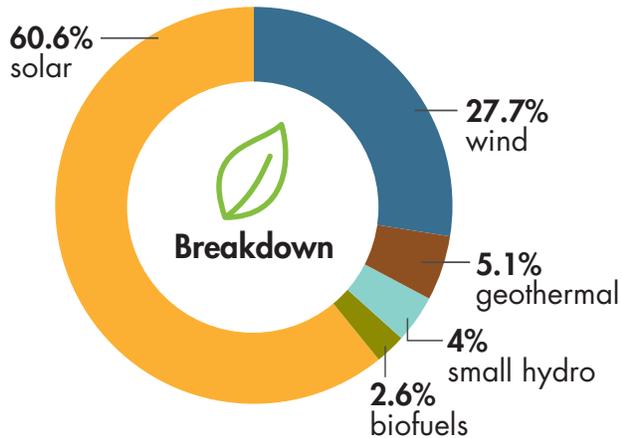
For more on oversupply, [visit here](#).



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 12/01/2023)*



	Megawatts
 Solar	17,804
 Wind	8,128
 Geothermal	1,504
 Small hydro	1,180
 Biofuels	778
TOTAL	29,394

[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
- 303 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](#)