Peaks for August 2023

- **Peak demand**: 44,534 MW on Aug 16, 5:59 p.m.
- **Solar peak**: 15,890 MW on Aug 29, 12:46 p.m.
- **Wind peak**: 5,310 MW on Aug 3, 11:37 p.m.
- **Peak demand served by renewables**: 15,354 MW on Aug 7, 5:55 p.m.
- **Peak net imports**: 9,105 MW on Aug 1, 12 a.m.

Historical statistics and records (as of 9/06/2023)

- **Solar peak**: NEW! 16,044 MW on Sept 6, 2023 at 12:18 p.m.
  Previous record: 15,960 MW, July 6, 2023

- **Wind peak**: 6,465 MW on 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 on Sept. 21, 2019 at 6:53 p.m.

- **Steepest 3-hour average ramp**: 20,326 MW on 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.
Western Energy Imbalance Market (WEIM) benefits: Q2 2023

Benefits
$379.91 million
Previous quarter: $418.82 million

ISO avoided curtailments
148,938 MWh
Previous quarter: 53,002 MWh

ISO GHG savings
63,745 MTCO₂
Previous quarter: 22,685 MTCO₂

WEIM benefits since 2014

Benefits
$4.2 billion

ISO avoided curtailments
2,052,737 MWh

ISO GHG savings
878,491 MTCO₂

Active participants
22

Number of states
11

Resources

Resource adequacy net qualifying capacity (NQC) = 50,130 MW
As of 8/31/23. Does not include current outages.

Installed battery capacity
5,739 MW
As of 8/31/23; subject to change.

Wind and solar curtailment totals

For more on oversupply, visit here.
Installed renewable resources (as of 8/31/2023)

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

Megawatts

- **Solar** 17,378
- **Wind** 8,033
- **Geothermal** 1,494
- **Small hydro** 1,179
- **Biofuels** 781
- **TOTAL** 28,865

See Today’s Outlook

See 2022 Annual Statistics

See previous Key Statistics