Peaks for April 2024

**Peak demand**
- 27,008 MW
  - April 11, 7:52 p.m.
  - Previous month: 27,125 MW

**Solar peak**
- 18,374 MW
  - April 22, 12:52 p.m.
  - Previous month: 15,364 MW

**Wind peak**
- 5,887 MW
  - April 25, 5:02 p.m.
  - Previous month: 5,739 MW

**Peak demand served by renewables**
- 14,905 MW
  - April 4, 10:36 a.m.
  - Previous month: 11,895 MW

**Peak net imports**
- 8,332 MW
  - April 16, 12:18 p.m.
  - Previous month: 8,061 MW

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**Annual peak demand**

Peak load history

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### Historical statistics and records (as of 05/08/2024)

**Solar peak**
- NEW! 18,594 MW
  - May 2, 2024 at 1:06 p.m.
  - Previous record: 18,374 MW, April 22, 2024

**Wind peak**
- 6,465 MW
  - May 28, 2022 at 5:39 p.m.
  - Previous record: 6,265 MW, March 4, 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**
- 21,505 MWh
  - Feb 10, 2024 starting at 3 p.m.
  - Second highest: 21,153 MWh, Jan. 7, 2024

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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.
Western Energy Imbalance Market (WEIM) benefits: Q1 2024

Benefits
$436.30 million
Previous quarter: $391.82 million

ISO avoided curtailments
60,285 MWh
Previous quarter: 49,880 MWh

ISO GHG savings\(^3\)
25,802 MTCO\(_2\)
Previous quarter: 21,349 MTCO\(_2\)

WEIM benefits since 2014

Benefits
$5.49 billion

ISO avoided curtailments
2,223,015 MWh

ISO GHG savings\(^3\)
951,370 MTCO\(_2\)

Active participants
22

Future participants
1

Number of states
11

Resources

Resource adequacy net qualifying capacity (NQC) = 49,173 MW
As of 05/01/24. Does not include current outages.

Installed battery capacity\(^4\)
8,635 MW
As of 05/01/24; subject to change.

Wind and solar curtailment totals

For more on oversupply, visit here.

April 2024 curtailment: 839,582 MWh

\(^3\) 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 05/01/2024)

**Breakdown**
- 62% solar
- 26.4% wind
- 5.2% geothermal
- 3.8% small hydro
- 2.5% biofuels

**Megawatts**
- Solar: 19,112
- Wind: 8,120
- Geothermal: 1,610
- Small hydro: 1,181
- Biofuels: 778
- TOTAL: 30,801

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.”

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**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)
- 237.5 million megawatt-hours of load served (2023)
- 245.8 million megawatts of total electricity delivered (2023)
- 37,751MW average market transactions per day (2023)
- 22 participating transmission owners
- ~26,000 circuit miles of transmission
- 314 market participants
- RC West is the reliability coordinator for 42 entities across 10 western states and northern Mexico

See the 2023 Annual Statistics

See previous Key Statistics