Peaks for July 2023

- **Peak demand**: 43,545 MW
  - July 25, 6:27 p.m.
  - Previous month: 36,111 MW

- **Solar peak**: 15,960 MW
  - July 6, 11:59 a.m.
  - Previous month: 15,718 MW

- **Wind peak**: 6,052 MW
  - July 7, 4:20 p.m.
  - Previous month: 5,821 MW

- **Peak demand served by renewables**: 15,524 MW
  - July 18, 5:57 p.m.
  - Previous month: 8,085 MW

- **Peak net imports**: 7,429 MW
  - July 11, 11:52 p.m.
  - Previous month: 8,334 MW

### Historical statistics and records (as of 8/07/2023)

- **Solar peak** NEW!
  - **15,960 MW**
    - July 6, 2023 at 11:59 a.m.
    - Previous record: 15,927 MW, July 5, 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.

- **Steepest 3-hour average ramp**
  - **20,326 MW**
    - Feb. 15, 2023 starting at 3:00 p.m.
    - Second highest: 19,699 MW, Jan. 23, 2023

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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: Q2 2023 [Read report]

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 [Visit WEIM website]

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) = 50,124 MW
As of 7/31/23. Does not include current outages.

Installed battery capacity
5,487 MW
As of 7/31/23; subject to change.

Wind and solar curtailment totals
For more on oversupply, [visit here].

Wind and solar curtailment totals

July 2023 curtailment: 57,876 MWh

The GHG emission reduction is associated with the avoided curtailment only.

* Includes storage resources that have achieved commercial operation date, and does not include pumped storage.

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Installed renewable resources (as of 7/31/2023)

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

See 2022 Annual Statistics
See previous Key Statistics