Peaks for April 2023

**Peak demand**

- **29,411 MW**
  - April 27, 7:53 p.m.
  - Previous month: 28,873 MW

**Solar peak**

- **14,774 MW**
  - April 27, 1:22 p.m.
  - Previous month: 13,110 MW

**Wind peak**

- **6,155 MW**
  - April 2, 6:07 p.m.
  - Previous month: 5,812 MW

**Peak demand served by renewables**

- **7,351 MW**
  - April 23, 8:04 p.m.
  - Previous month: 12,258 MW

**Peak net imports**

- **7,571 MW**
  - April 1, 3:34 a.m.
  - Previous month: 7,970 MW

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**Annual peak demand**

- **52,061 MW**
  - Sept. 6, 4:57 p.m.

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**Historical statistics and records (as of 5/12/2023)**

- **Solar peak** **NEW!**
  - **14,812 MW**
  - May 12, 2023 at 2:28 p.m.
  - Previous record: 14,774 MW, April 27, 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: Q4 2022

Benefits
$485.3 million
Previous quarter: $526.5 million

ISO avoided curtailments
25,609 MWh
Previous quarter: 42,468 MWh

ISO GHG savings
10,960 MTCO₂
Previous quarter: 18,176 MTCO₂

WEIM benefits since 2014

Benefits
$3.4 billion

ISO avoided curtailments
1,850,797 MWh

ISO GHG savings
792,061 MTCO₂

Active participants
22

Number of states
11

Resources

Resource adequacy net qualifying capacity (NQC) = 47,164 MW
As of 4/30/23. Does not include current outages.

Installed battery capacity
4,515 MW
As of 4/30/23; subject to change.

Wind and solar curtailment totals

For more on oversupply, visit here.

April 2023 curtailment: 702,883 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.
Installed renewable resources (as of 4/30/2023)

![Breakdown](image)

<table>
<thead>
<tr>
<th>Energy Source</th>
<th>Megawatts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>16,593</td>
</tr>
<tr>
<td>Wind</td>
<td>7,950</td>
</tr>
<tr>
<td>Geothermal</td>
<td>1,599</td>
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<tr>
<td>Small hydro</td>
<td>1,194</td>
</tr>
<tr>
<td>Biofuels</td>
<td>801</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>28,137</strong></td>
</tr>
</tbody>
</table>

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)
- 224.8 million megawatt-hours of load served (2020)
- 70,037 average market transactions per day (2021)
- 21 participating transmission owners
- ~26,000 circuit miles of transmission
- 286 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