Peaks for February 2023

- **Peak demand**: 29,250 MW on Feb. 27, 6:21 p.m. (Previous month: 29,254 MW)
- **Solar peak**: 12,732 MW on Feb. 15, 10:03 a.m. (Previous month: 11,662 MW)
- **Wind peak**: 5,430 MW on Feb. 5, 10:23 a.m. (Previous month: 5,508 MW)
- **Peak demand served by renewables**: 8,667 MW on Feb. 25, 10:03 a.m. (Previous month: 6,454 MW)
- **Peak net imports**: 9,100 MW on Feb. 20, 12:27 a.m. (Previous month: 8,801 MW)

Historical statistics and records (as of 2/28/2023)

- **Solar peak**: 14,352 MW on June 7, 2022 at 12:16 p.m. (Previous record: 14,136 MW, May 16, 2022)
- **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% on 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.
- **Peak demand**: 52,061 MW on Sept. 6 at 4:57 p.m. (Second highest: 50,270 MW, July 24, 2006)
- **Steepest ramp over 3-hour period**: 20,326* MW on Feb. 15, 2023 starting at 3:00 p.m. (Second highest: 19,699* MW, Jan. 23, 2023)

**Footnotes**:
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.
* Megawatt values updated in April 2023.
Western Energy Imbalance Market (WEIM) benefits: Q4 2022 [Read report]

Benefits
$485.3 million

ISO avoided curtailments
25,609 MWh

ISO GHG savings:\(^3\)
10,960 MTCO\(_2\)

Previous quarter:
$526.5 million

Previous quarter:
42,468 MWh

Previous quarter:
18,176 MTCO\(_2\)

WEIM benefits since 2014 [Visit WEIM website]

Benefits
$3.4 billion

ISO avoided curtailments
1,850,797 MWh

ISO GHG savings:\(^3\)
792,061 MTCO\(_2\)

Active participants
19

Future participants
3

Number of states
10

Resources

Resource adequacy net qualifying capacity (NQC) = 46,272 MW

As of 2/28/23. Does not include current outages.

Installed battery capacity:\(^4\)
4,515 MW

As of 2/28/23; 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 2/28/2023)

![Breakdown of installed renewable resources]

- **59.7% solar**
- **28.9% wind**
- **5.8% geothermal**
- **4.3% small hydro**
- **3% biofuels**

<table>
<thead>
<tr>
<th>Resource</th>
<th>Megawatts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>16,417</td>
</tr>
<tr>
<td>Wind</td>
<td>7,950</td>
</tr>
<tr>
<td>Geothermal</td>
<td>1,599</td>
</tr>
<tr>
<td>Small hydro</td>
<td>1,196</td>
</tr>
<tr>
<td>Biofuels</td>
<td>801</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>27,510</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)
- 20 participating transmission owners
- ~26,000 circuit miles of transmission
- 274 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*