Peaks for March 2023

- **Peak demand**
  - **28,873 MW**
  - March 1, 6:50 p.m.
  - Previous month: 29,250 MW

- **Solar peak**
  - **13,110 MW**
  - March 2, 11:03 a.m.
  - Previous month: 12,732 MW

- **Wind peak**
  - **5,812 MW**
  - March 23, 11:17 p.m.
  - Previous month: 5,430 MW

- **Peak demand served by renewables**
  - **12,258 MW**
  - March 3, 7:43 a.m.
  - Previous month: 8,667 MW

- **Peak net imports**
  - **7,970 MW**
  - March 24, 10:43 p.m.
  - Previous month: 9,100 MW

Historical statistics and records (as of 3/31/2023)

- **Solar peak**
  - **14,352 MW**
  - June 7, 2022 at 12:16 p.m.
  - Previous record: 14,136 MW, May 16, 2022

- **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 ramp over 3-hour period**
  - **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.
### KEY STATISTICS

**California Independent System Operator**  
www.caiso.com  
250 Outcropping Way, Folsom, CA 95630  
916.351.4400

CommPR | 04.23
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#### Western Energy Imbalance Market (WEIM) benefits: Q4 2022

<table>
<thead>
<tr>
<th>Benefits</th>
<th>ISO avoided curtailments</th>
<th>ISO GHG savings$^3</th>
</tr>
</thead>
<tbody>
<tr>
<td>$485.3 million</td>
<td>25,609 MWh</td>
<td>10,960 MTCO$_2$</td>
</tr>
<tr>
<td>Previous quarter: $526.5 million</td>
<td>Previous quarter: 42,468 MWh</td>
<td>Previous quarter: 18,176 MTCO$_2$</td>
</tr>
</tbody>
</table>

**WEIM benefits since 2014**

<table>
<thead>
<tr>
<th>Benefits</th>
<th>ISO avoided curtailments</th>
<th>ISO GHG savings$^3</th>
</tr>
</thead>
<tbody>
<tr>
<td>$3.4 billion</td>
<td>1,850,797 MWh</td>
<td>792,061 MTCO$_2$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Active participants</th>
<th>Number of states</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>11</td>
</tr>
</tbody>
</table>

#### Resources

- **Resource adequacy net qualifying capacity (NQC)** = **46,272 MW**  
  As of 3/31/23. Does not include current outages.

- **Installed battery capacity$^4** = **4,515 MW**  
  As of 3/31/23; subject to change.

#### Wind and solar curtailment totals

For more on oversupply, visit here.

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$^3$ 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 3/31/2023)

**Breakdown**

- **59% solar**
- **28.3% wind**
- **5.7% geothermal**
- **4.2% small hydro**
- **2.8% biofuels**

<table>
<thead>
<tr>
<th>Renewable Resource</th>
<th>Megawatts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>16,591</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>1,194</td>
</tr>
<tr>
<td>Biofuels</td>
<td>801</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>28,135</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
- 284 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*