Peaks for October 2023

**Peak demand¹**
- **37,074 MW**
  - Oct. 6, 5:51 p.m.
  - Previous month: 38,837 MW

**Solar peak¹**
- **15,410 MW**
  - Oct. 2, 11:05 a.m.
  - Previous month: 16,056 MW

**Wind peak¹**
- **5,147 MW**
  - Oct. 10, 4:45 p.m.
  - Previous month: 4,985 MW

**Peak demand served by renewables¹,²**
- **10,281 MW**
  - Oct. 5, 5:09 p.m.
  - Previous month: 11,086 MW

**Peak net imports**
- **7,705 MW**
  - Oct. 17, 3:40 a.m.
  - Previous month: 8,466 MW

### Historical statistics and records (as of 11/02/2023)

**Solar peak**
- **16,056 MW**
  - Sept. 26, 2023 at 11:32 a.m.
  - Previous record: 16,044 MW, Sept. 6, 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**
- **20,935 MWh**
  - Sept. 24, 2023 starting at 2:30 p.m.
  - Second highest: 20,326 MWh, Feb. 15, 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: Q3 2023  

Benefits  
$462.05 million  
Previous quarter: $379.91 million  

ISO avoided curtailments  
60,133 MWh  
Previous quarter: 148,938 MWh  

ISO GHG savings:  
25,728 MTCO₂  
Previous quarter: 63,745 MTCO₂  

WEIM benefits since 2014  

Benefits  
$4.66 billion  

ISO avoided curtailments  
2,112,850 MWh  

ISO GHG savings:  
904,219 MTCO₂  

Active participants  
22  

Number of states  
11  

Resources  

Resource adequacy net qualifying capacity (NQC) = 48,649 MW  
As of 10/31/23. Does not include current outages.  

Installed battery capacity:  
6,249 MW  
As of 10/31/23; subject to change.  

Wind and solar curtailment totals  

For more on oversupply, visit here.  

Oct. 2023 curtailment: 211,413 MWh  

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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 10/30/2023)

![Pie chart showing renewable energy breakdown]

- **60.5%** solar
- **27.6%** wind
- **5.2%** geothermal
- **4.1%** small hydro
- **2.7%** biofuels

### Megawatts

<table>
<thead>
<tr>
<th>Resource</th>
<th>Megawatts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>17,622</td>
</tr>
<tr>
<td>Wind</td>
<td>8,033</td>
</tr>
<tr>
<td>Geothermal</td>
<td>1,504</td>
</tr>
<tr>
<td>Small hydro</td>
<td>1,180</td>
</tr>
<tr>
<td>Biofuels</td>
<td>781</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>29,120</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.”

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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)
- 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
- 298 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