Peaks for November 2021

- **Peak demand**: 30,463 MW, Nov 12, 5:24 p.m.
- **Solar peak**: 11,323 MW, Nov 5, 11:04 a.m.
- **Wind peak**: 4,477 MW, Nov 23, 9:46 p.m.
- **Peak demand served by renewables**: 5,296 MW, Nov 4, 6:35 p.m.
- **Peak net imports**: 10,774 MW, Nov 30, 8:38 p.m.

**Peak load history**

- **Annual peak demand**: 2010 - 2021

**Historical statistics and records (as of 12/01/2021)**

- **Solar peak**: 13,205 MW, May 27, 2021 at 11:57 a.m.
  - Previous record: 13,151 MW, Apr 13, 2021

- **Wind peak**: 5,754 MW, May 29, 2021 at 10:12 p.m.
  - Previous record: 5,753 MW, Apr 22, 2021

- **Peak renewables serving load**: 94.5%
  - Apr 24, 2021 at 2:28 p.m.
  - Previous record: 92.5%, Mar 13, 2021

- **Peak net imports**: 11,894 MW, Sep 21, 2019 at 6:53 p.m.

- **Peak demand**: 50,270 MW, Jul 24, 2006 at 2:44 p.m.
  - Second highest: 50,116 MW, Sep 1, 2017

- **Steepest ramp over 3-hour period**: 17,259 MW, Feb 28, 2021 at 3:34 p.m.
  - Second highest: 15,639 MW, Jan 1, 2019

---

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 EIM benefits: Q3 2021  
Read report

<table>
<thead>
<tr>
<th>Benefits</th>
<th>ISO avoided curtailments</th>
<th>ISO GHG savings(^3)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>$301 million</strong></td>
<td><strong>23,042 MWh</strong></td>
<td><strong>9,862 MTCO(_2)</strong></td>
</tr>
<tr>
<td>Previous quarter:</td>
<td>109,059 MWh</td>
<td>Previous quarter:</td>
</tr>
</tbody>
</table>

Western EIM benefits since 2014  Visit Western EIM

<table>
<thead>
<tr>
<th>Benefits</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>$1.72 billion</strong></td>
<td><strong>1,532,156 MWh</strong></td>
<td><strong>655,683 MTCO(_2)</strong></td>
</tr>
<tr>
<td>Active participants</td>
<td>Future participants</td>
<td>Number of states</td>
</tr>
<tr>
<td>15</td>
<td>7</td>
<td>10</td>
</tr>
</tbody>
</table>

Resources (as of 12/01/2021)

- Resource adequacy net qualifying capacity (NQC) = **42,081 MW**
  
  Does not include current outages

- Installed battery capacity\(^4\)  
  **2,185 MW**
  
  2,500 MW total storage capacity projected by year end

Wind and solar curtailment totals

For more on oversupply, visit here.

\(^3\) The GHG emission reduction is associated with the avoided curtailment only.

\(^4\) Does not include pumped storage.

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[Graph showing energy curtailment]  
November 2021 curtailment: **43,237 MWh**

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[Notes and references]

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Installed renewable resources (as of 12/01/2021)

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 MW/h = 1 million watts used for one hour)
- 224.8 million megawatt-hours of load served (2020)
- 33,617 market transactions per day (2020)
- 21 participating transmission owners
- ~26,000 circuit miles of transmission
- 258 market participants
- RC West is the reliability coordinator for 42 entities across 10 western states and northern Mexico

See previous Key Statistics