Peaks for October 2021

- **Peak demand**: 33,244 MW
  - Oct 1, 5:50 p.m.
  - Previous month: 43,982 MW

- **Solar peak**: 11,978 MW
  - Oct 1, 12:52 p.m.
  - Previous month: 12,789 MW

- **Wind peak**: 4,959 MW
  - Oct 11, 7:09 p.m.
  - Previous month: 5,509 MW

- **Peak demand served by renewables**: 7,648 MW
  - Oct 4, 3:57 p.m.
  - Previous month: 12,371 MW

- **Peak net imports**: 10,182 MW
  - Oct 1, 7:19 p.m.
  - Previous month: 10,286 MW

**Annual peak demand**

- Peak load history

**Historical statistics and records** (as of 11/01/2021)

- **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

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1. Based on 1-minute averages, and includes dynamic transfers. Values are subject to revision as data is refined.
2. Indicate the highest amount of renewables serving peak electricity demand on any given day.
Western EIM benefits: Q3 2021  [Read report]

Benefits
$301 million
Previous quarter: $132.7 million

ISO avoided curtailments
23,042 MWh
Previous quarter: 109,059 MWh

ISO GHG savings
9,862 MTCO₂
Previous quarter: 46,677 MTCO₂

Western EIM benefits since 2014  [Visit Western EIM]

Benefits
$1.72 billion

ISO avoided curtailments
1,532,156 MWh

ISO GHG savings
655,683 MTCO₂

Active participants: 15
Future participants: 7
Number of states: 10

Resources (as of 11/01/2021)

Resource adequacy net qualifying capacity (NQC) = 42,019 MW

Installed battery capacity
2,098 MW
3,000 MW total storage capacity projected by year end

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 Does not include pumped storage.
**Installed renewable resources** *(as of 11/01/2021)*

- **58%** solar
- **28.4%** wind
- **5.6%** geothermal
- **4.7%** small hydro
- **3.2%** biofuels

### Megawatts

<table>
<thead>
<tr>
<th>Resource</th>
<th>Megawatts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>14,731</td>
</tr>
<tr>
<td>Wind</td>
<td>7,214</td>
</tr>
<tr>
<td>Geothermal</td>
<td>1,411</td>
</tr>
<tr>
<td>Small hydro</td>
<td>1,203</td>
</tr>
<tr>
<td>Biofuels</td>
<td>818</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>25,377</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)
- 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
- 257 market participants
- RC West is the reliability coordinator for 42 entities across 10 western states and northern Mexico

*See previous Key Statistics*