Peaks for July 2021

- **Peak demand**: 43,339 MW
  - July 9, 4:54 p.m.
  - Previous month: 41,397 MW

- **Solar peak**: 12,742 MW
  - July 7, 12:23 p.m.
  - Previous month: 12,888 MW

- **Wind peak**: 5,107 MW
  - July 5, 11:49 a.m.
  - Previous month: 5,466 MW

- **Peak demand served by renewables**: 13,800 MW
  - July 9, 4:54 p.m.
  - Previous month: 13,025 MW

- **Peak net imports**: 10,518 MW
  - July 22, 11:33 a.m.
  - Previous month: 10,974 MW

---

**Annual peak demand**

- **2020 peak demand**: 47,121 MW
  - Aug 18, 3:57 p.m.

---

**Historical statistics and records (as of 8/01/2021)**

- **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 27, 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: Q2 2021  

**Benefits**  
$132.7 million  
Previous quarter: $101 million

**ISO avoided curtailments**  
109,059 MWh  
Previous quarter: 76,147 MWh

**ISO GHG savings**  
46,677 MTCO₂  
Previous quarter: 32,591 MTCO₂

Western EIM benefits since 2014  

**Benefits**  
$1.42 billion

**ISO avoided curtailments**  
1,509,114 MWh

**ISO GHG savings**  
645,821 MTCO₂

---

**Active participants**  
15

**Future participants**  
6

**Number of states**  
10

---

**Resources (as of 8/01/2021)**

Resource adequacy net qualifying capacity (NQC) = 48,888 MW  
Does not include current outages

---

**Wind and solar curtailment totals**

For more on oversupply, visit here.

---

The GHG emission reduction is associated with the avoided curtailment only.

© 2021 California ISO
Installed renewable resources (as of 8/01/2021)

### Breakdown

- 57.6% solar
- 28.6% wind
- 5.7% geothermal
- 4.8% small hydro
- 3.3% biofuels

<table>
<thead>
<tr>
<th>Megawatts</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>14,276</td>
</tr>
<tr>
<td>Wind</td>
<td>7,086</td>
</tr>
<tr>
<td>Geothermal</td>
<td>1,411</td>
</tr>
<tr>
<td>Small hydro</td>
<td>1,188</td>
</tr>
<tr>
<td>Biofuels</td>
<td>822</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>24,783</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)
- 33,617 market transactions per day (2020)
- 21 participating transmission owners
- ~26,000 circuit miles of transmission
- 253 market participants
- RC West is the reliability coordinator for 42 entities across 10 western states and northern Mexico

[See previous Key Statistics](#)