# Peaks for April 2022

<table>
<thead>
<tr>
<th>Key Statistics</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak demand</td>
<td>33,490 MW</td>
</tr>
<tr>
<td>Solar peak</td>
<td>13,904 MW</td>
</tr>
<tr>
<td>Wind peak</td>
<td>6,002 MW</td>
</tr>
<tr>
<td>Peak demand served by renewables</td>
<td>10,492 MW</td>
</tr>
<tr>
<td>Peak net imports</td>
<td>10,713 MW</td>
</tr>
</tbody>
</table>

Previous month:
- Peak demand: 28,971 MW
- Solar peak: 13,456 MW
- Wind peak: 6,265 MW
- Peak demand served by renewables: 7,272 MW
- Peak net imports: 10,707 MW

## Historical statistics and records (as of 04/30/2022)

- **Solar peak**
  - 13,904 MW (NEW!
  - Apr 25, 2022 at 1:03 p.m.
  - Previous record: 13,456 MW, Mar 24, 2022

- **Wind peak**
  - 6,265 MW
  - Mar 4, 2022 at 2:50 p.m.
  - Previous record: 6,178 MW, Feb 15, 2022

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

- **Peak percentage of renewables compared to demand**
  - 99.87% (NEW!
  - Apr 30, 2022 at 2:50 p.m.
  - Previous record: 97.58%, Apr 3, 2022

- **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**
  - 17,660 MW
  - Mar 11, 2022 starting at 2:59 p.m.
  - Second highest: 17,259 MW, Feb 28, 2021

---

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: Q1 2022

| Benefits | $172 million | Previous quarter: $204 million |
| ISO avoided curtailments | 94,168 MWh | Previous quarter: 38,044 MWh |
| ISO GHG savings³ | 40,304 MTCO₂ | Previous quarter: 16,283 MTCO₂ |

### WEIM benefits since 2014

| Benefits | $2.1 billion |
| ISO avoided curtailments | 1,570,200 MWh |
| ISO GHG savings³ | 712,270 MTCO₂ |
| Active participants | 19 |
| Future participants | 3 |
| Number of states | 10 |

### Resources

- **Resource adequacy net qualifying capacity (NQC)** = 46,322 MW  
  As of 05/01/22. Does not include current outages.
- **Installed battery capacity⁴** = 3,059 MW  
  As of 04/30/22.

### Wind and solar curtailment totals

For more on oversupply, visit here.

---

³ The GHG emission reduction is associated with the avoided curtailment only.

⁴ Includes storage resources that have achieved commercial operations, and does not include pumped storage.
Installed renewable resources (as of 05/03/2022)

**Breakdown**

- **57.2%** solar
- **29.8%** wind
- **5.4%** geothermal
- **4.5%** small hydro
- **3%** biofuels

<table>
<thead>
<tr>
<th>Resource</th>
<th>Megawatts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>15,148</td>
</tr>
<tr>
<td>Wind</td>
<td>7,892</td>
</tr>
<tr>
<td>Geothermal</td>
<td>1,425</td>
</tr>
<tr>
<td>Small hydro</td>
<td>1,185</td>
</tr>
<tr>
<td>Biofuels</td>
<td>799</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>26,449</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)
- 21 participating transmission owners
- ~26,000 circuit miles of transmission
- 260 market participants
- RC West is the reliability coordinator for 42 entities across 10 western states and northern Mexico

See today’s Outlook

See previous Key Statistics