Peaks for May 2022

Peak demand\(^1\)
34,384 MW
May 25, 6:32 p.m.

Solar peak\(^1\)
14,136 MW
May 16, 11:57 a.m.

Wind peak\(^1\)
6,465 MW
May 28, 5:39 p.m.

Peak demand served by renewables\(^{1,2}\)
14,993 MW
May 26, 5:28 p.m.

Peak net imports
9,883 MW
May 29, 9:38 p.m.

Previous month:
33,490 MW

Peak demand served by renewables:
1,2

Peak net imports:
10,713 MW

Peaks for May 2022

- Wind peak
- Solar peak
- Peak demand served by renewables
- Peak net imports

Annual peak demand

- 50,000 MW (max)
- 40,000 MW (average)
- 2021 peak demand 43,982 MW
- Previous month 33,490 MW

Historical statistics and records (as of 05/31/2022)

- Solar peak
  - 14,136 MW
  - May 16, 2022 at 11:57 a.m.
  - Previous record:
    - 13,904 MW, Apr 25, 2022

- Wind peak
  - 6,465 MW
  - May 28, 2022 at 5:39 p.m.
  - Previous record:
    - 6,265 MW, Mar 4, 2022

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

- Peak percentage of renewables compared to demand
  - 103.5%
  - May 8, 2022 at 3:39 p.m.
  - Previous record:
    - 99.87%, Apr 30, 2022

- Steepest ramp over 3-hour period
  - 17,660 MW
  - Mar 11, 2022 starting at 2:59 p.m.
  - Second highest:
    - 17,298 MW, Apr 24, 2022

\(^1\) 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 savings\(^3\)
40,304 MTCO\(_2\)
Previous quarter:
16,283 MTCO\(_2\)

WEIM benefits since 2014

Benefits
$2.1 billion

ISO avoided curtailments
1,570,200 MWh

ISO GHG savings\(^3\)
712,270 MTCO\(_2\)

Active participants
19

Future participants
3

Number of states
10

Resources

Resource adequacy net qualifying capacity (NQC) = 47,115 MW
As of 05/31/22. Does not include current outages.

Installed battery capacity\(^4\)
3,059 MW
As of 05/31/22.

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 operation date, and does not include pumped storage.
Installed renewable resources (as of 06/02/2022)

### Installed renewable resources

- **57.7% solar**
- **29.4% wind**
- **5.4% geothermal**
- **4.5% small hydro**
- **3% biofuels**

#### Breakdown

<table>
<thead>
<tr>
<th>Source</th>
<th>Megawatts</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Solar</strong></td>
<td>15,454</td>
</tr>
<tr>
<td><strong>Wind</strong></td>
<td>7,890</td>
</tr>
<tr>
<td><strong>Geothermal</strong></td>
<td>1,425</td>
</tr>
<tr>
<td><strong>Small hydro</strong></td>
<td>1,184</td>
</tr>
<tr>
<td><strong>Biofuels</strong></td>
<td>799</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>26,752</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
- 268 market participants
- RC West is the reliability coordinator for 42 entities across 10 western states and northern Mexico

See previous Key Statistics