Peaks for September 2022

Peak demand¹
52,061 MW
Sept. 6, 4:57 p.m.

Previous month:
45,521 MW

Solar peak¹
13,505 MW
Sept. 15, 1:38 p.m.

Previous month:
13,800 MW

Wind peak¹
5,153 MW
Sept. 13, 2:59 p.m.

Previous month:
5,331 MW

Peak demand served by renewables¹²
14,488 MW
Sept. 2, 5:24 p.m.

Previous month:
13,664 MW

Peak net imports
10,948 MW
Sept. 24, 7:38 p.m.

Previous month:
9,445 MW

Historical statistics and records (as of 10/01/2022)

Solar peak
14,352 MW
June 7, 2022 at 12:16 p.m.

Previous record:
14,136 MW, May 16, 2022

Wind peak
6,465 MW
May 28, 2022 at 5:39 p.m.

Previous record:
6,265 MW, March 4, 2022

Peak percentage of renewables compared to demand
103.5%
May 8, 2022 at 3:39 p.m.

Previous record:
99.87%, April 30, 2022

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

Peak demand
52,061 MW
Sept. 6 at 4:57 p.m.

Second highest:
50,270 MW, July 24, 2006

Steepest ramp over 3-hour period
17,660 MW
March 11, 2022 starting at 2:59 p.m.

Second highest:
17,298 MW, April 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: Q2 2022 [Read report]

Benefits
$287.44 million
Previous quarter:
$172 million

ISO avoided curtailments
118,352 MWh
Previous quarter:
94,168 MWh

ISO GHG savings:
50,655 MTCO₂
Previous quarter:
40,304 MTCO₂

WEIM benefits since 2014 [Visit WEIM website]

Benefits
$2.39 billion

ISO avoided curtailments
1,782,720 MWh

ISO GHG savings:
762,925 MTCO₂

Active participants
19

Future participants
3

Number of states
10

Resources

Resource adequacy net qualifying capacity (NQC) = 46,923 MW
As of 10/01/22. Does not include current outages.

Installed battery capacity:
4,367 MW
As of 10/01/22; subject to change.

Wind and solar curtailment totals

For more on oversupply, visit here.

Sept. 2022 curtailment:
61,521 MWh

Wind and solar curtailment totals:

<table>
<thead>
<tr>
<th>Month</th>
<th>Megawatt-hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan</td>
<td>61,521 MWh</td>
</tr>
<tr>
<td>Feb</td>
<td>57,426 MWh</td>
</tr>
<tr>
<td>Mar</td>
<td>463,315 MWh</td>
</tr>
<tr>
<td>Apr</td>
<td>594,173 MWh</td>
</tr>
<tr>
<td>May</td>
<td>481,315 MWh</td>
</tr>
<tr>
<td>Jun</td>
<td>202,004 MWh</td>
</tr>
<tr>
<td>Jul</td>
<td>99,500 MWh</td>
</tr>
<tr>
<td>Aug</td>
<td>34,412 MWh</td>
</tr>
<tr>
<td>Sep</td>
<td>0 MWh</td>
</tr>
<tr>
<td>Oct</td>
<td>0 MWh</td>
</tr>
<tr>
<td>Nov</td>
<td>0 MWh</td>
</tr>
<tr>
<td>Dec</td>
<td>0 MWh</td>
</tr>
</tbody>
</table>

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

Includes storage resources that have achieved commercial operation date, and does not include pumped storage.
## Installed renewable resources (as of 10/01/2022)

**Breakdown**
- 57.6% solar
- 29.3% wind
- 5.8% geothermal
- 4.4% small hydro
- 3% biofuels

### Megawatts

<table>
<thead>
<tr>
<th>Resource</th>
<th>Megawatts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>15,608</td>
</tr>
<tr>
<td>Wind</td>
<td>7,950</td>
</tr>
<tr>
<td>Geothermal</td>
<td>1,571</td>
</tr>
<tr>
<td>Small hydro</td>
<td>1,182</td>
</tr>
<tr>
<td>Biofuels</td>
<td>798</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>27,109</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)
- 70,037 average market transactions per day (2021)
- 21 participating transmission owners
- ~26,000 circuit miles of transmission
- 270 market participants
- RC West is the reliability coordinator for 42 entities across 10 western states and northern Mexico

*See previous Key Statistics*