Peaks for September 2021

- **Peak demand**
  - 43,982 MW
    - Sep 8, 5:50 p.m.
  - Previous month: 42,844 MW

- **Solar peak**
  - 12,789 MW
    - Sep 2, 11:26 a.m.
  - Previous month: 12,788 MW

- **Wind peak**
  - 5,509 MW
    - Sep 27, 4:58 p.m.
  - Previous month: 5,351 MW

- **Peak demand served by renewables**
  - 12,371 MW
    - Sep 2, 5:29 p.m.
  - Previous month: 14,329 MW

- **Peak net imports**
  - 10,286 MW
    - Sep 4, 9:03 p.m.
  - Previous month: 10,723 MW

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**Annual peak demand**

- 50,000 MW
- 40,000 MW

**Peak load history**

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**Historical statistics and records (as of 10/01/2021)**

- **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.

- **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. Indicates the highest amount of renewables serving peak electricity demand on any given day.
Western EIM benefits: Q2 2021  [Read report]

**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  [Visit Western EIM]

**Benefits**  
$1.42 billion

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

**ISO GHG savings**  
645,821 MTCO₂

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**Active participants**  
15

**Future participants**  
7

**Number of states**  
10

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**Resources (as of 10/01/2021)**

- Resource adequacy net qualifying capacity (NQC) = 44,843 MW  
  *Does not include current outages*

- Installed storage capacity  
  1,915 MW  
  3,000 MW total storage capacity projected by year end

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**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.
Installed renewable resources (as of 10/01/2021)

![Circle chart showing renewable energy sources](chart.png)

- **58.1%** solar
- **28.1%** wind
- **5.6%** geothermal
- **4.7%** small hydro
- **3.2%** biofuels

**Megawatts**

<table>
<thead>
<tr>
<th>Source</th>
<th>Megawatts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>14,631</td>
</tr>
<tr>
<td>Wind</td>
<td>7,075</td>
</tr>
<tr>
<td>Geothermal</td>
<td>1,411</td>
</tr>
<tr>
<td>Small hydro</td>
<td>1,187</td>
</tr>
<tr>
<td>Biofuels</td>
<td>818</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>25,122</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
- 256 market participants
- RC West is the reliability coordinator for 42 entities across 10 western states and northern Mexico

See previous Key Statistics