Peaks for February 2020

- **Peak demand**: 29,679 MW (February 4)
  - Previous month: 29,421 MW
- **Solar peak**: 10,274 MW (February 26)
  - Previous month: 8,648 MW
- **Wind peak**: 4,395 MW (February 9)
  - Previous month: 3,886 MW
- **Peak demand served by renewables**: 4,611 MW (February 9)
  - Previous month: 5,215 MW
- **Peak net imports**: 11,276 MW (February 1)
  - Previous month: 11,513 MW

Annual peak demand

Peak load history

Historical statistics and records

- **Solar peak**: 11,473 MW
  - July 2 at 12:53 p.m.
  - Previous record: 11,435 MW, July 1, 2019
- **Wind peak**: 5,309 MW
  - May 8, 2019 at 3:21 a.m.
  - Previous record: 5,193 MW, June 8, 2018
- **Renewables serving demand**: 80.3%
  - May 15, 2019 at 2:45 p.m.
  - Previous record: 78%, April 20, 2019
- **Peak net imports**: 11,894 MW
  - Sep 21, 2019 at 6:53 p.m.
- **Peak demand**: 50,270 MW
  - July 24, 2006 at 2:44 p.m.
  - Second highest: 50,116 MW, Sep 1, 2017
- **Steepest ramp over 3-hour period**: 15,639 MW
  - Jan 1, 2019 at 2:25 p.m.

1 This indicates the highest amount of renewables serving peak electricity demand on any given day.
Western EIM benefits: Q4 2019  Read report

Benefits
$60.72 million
Previous quarter: $64.81 million

ISO avoided curtailments
35,254 MWh
Previous quarter: 33,843 MWh

ISO GHG savings*
15,089 MTCO₂
Previous quarter: 14,485 MTCO₂

Gross benefits since 2014  Visit Western EIM

Benefits
$861.79 million

ISO avoided curtailments
1,012,150 MWh

ISO GHG savings*
433,120 MTCO₂

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

Resources (as of 3/01/2020)
Resource adequacy net qualifying capacity (NQC) = 43,561 MW
Does not include current outages

Wind and solar curtailment totals
For more on oversupply, visit here.

Feb 2020 curtailment:
157,058 MWh

Jan  
Feb
### Installed renewable resources (as of 3/01/2020)

- **53.4%** solar
- **30.3%** wind
- **7.4%** geothermal
- **5.3%** small hydro
- **3.6%** biofuels

#### Breakdown

<table>
<thead>
<tr>
<th>Resource</th>
<th>Megawatts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>12,747</td>
</tr>
<tr>
<td>Wind</td>
<td>7,242</td>
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<tr>
<td>Geothermal</td>
<td>1,773</td>
</tr>
<tr>
<td>Small hydro</td>
<td>1,260</td>
</tr>
<tr>
<td>Biofuels</td>
<td>862</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>23,884</td>
</tr>
</tbody>
</table>

#### Installed renewable resources (as of 3/01/2020)

- **32 million consumers**
- Serve ~80% of California demand
- Serve ~33% of WECC demand within the ISO balancing authority
- Total estimated wholesale cost of serving demand in 2018 = $10.8 billion or about $50/MWh\(^2\)
- Total estimated wholesale cost of serving demand in 2017 = $9.4 billion or about $42/MWh\(^2\)
- 1 MW serves about 750-1,000 homes (1 MWh = 1 million watts used for one hour)
- 18 participating transmission owners
- 25,715 (or about 26,000) circuit miles of transmission
- 221 market participants
- Western EIM has nine active participants serving customers in eight states
- RC West is the reliability coordinator for 41 entities across 14 western states and northern Mexico

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2 Note higher cost mostly due to higher natural gas prices. After normalizing for natural gas prices and greenhouse gas compliance costs, total wholesale energy costs increased by about 4 percent.