Peaks for March 2019

- **Peak demand**
  - March 6
  - 28,372 MW
  - Previous month: 30,073 MW

- **Renewables served peak**
  - March 23
  - 5,771 MW
  - Previous month: 5,061 MW

- **Solar peak**
  - March 25
  - 10,852 MW
  - Previous month: 10,073 MW

- **Wind peak**
  - March 8
  - 4,469 MW
  - Previous month: 4,608 MW

Historical stats & record peaks

- **Solar peak**
  - March 25, 2019 at 1:02 P.M.
  - 10,852 MW
  - Previous record: 10,739 MW on June 29, 2018

- **Wind peak**
  - June 8, 2018 at 9:04 P.M.
  - 5,193 MW
  - Previous record: 4,985 MW on May 16, 2017

- **Renewables served demand**
  - May 26, 2018 at 2:12 P.M.
  - 73.9%
  - Previous record: 72.7% on April 28, 2018

- **Peak demand**
  - July 24, 2006 at 2:44 P.M.
  - 50,270 MW
  - Previous peak demands:
    - 50,116 MW on September 1, 2017 at 3:58 p.m.
    - 48,615 MW on August 31, 2007 at 3:27 p.m.

Energy Imbalance Market

- **Q4 2018 BENEFITS**
  - $62.57M

- **TOTAL SAVINGS**
  - $564.88M
  - since Nov 2014 start

- **Q4 2018 AVOIDED CURTAILMENTS**
  - 23,425 MWh

- **TOTAL ISO GHG SAVINGS**
  - 324,284 mTCO₂
  - from avoided curtailment since Nov 2014
**Demand & resources (as of 4/01/2019)**

Resource adequacy net qualifying capacity (NQC) = 46,078 MW

*Does not include current outages*

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**Renewable resources (as of 4/04/2019)**

<table>
<thead>
<tr>
<th>Renewable Type</th>
<th>Megawatts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>11,949</td>
</tr>
<tr>
<td>Wind</td>
<td>6,505</td>
</tr>
<tr>
<td>Small hydro</td>
<td>1,234</td>
</tr>
<tr>
<td>Geothermal</td>
<td>1,785</td>
</tr>
<tr>
<td>Biofuels</td>
<td>951</td>
</tr>
<tr>
<td>Storage battery*</td>
<td>136</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>22,560</strong></td>
</tr>
</tbody>
</table>

*Includes stand-alone and hybrid units.*

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**Key curtailment totals**

See Managing Oversupply page

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**March 2019 = 122,225 MWh**

See Today’s Outlook

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**NOTE** — Only fully commercial units are counted, not partials or test energy, as reported via the Master Generating File and captured in the Master Control Area Generating Capability List found on OASIS under “Atlas Reference”.

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### Key Statistics

**Annual peak demand**

<table>
<thead>
<tr>
<th>Year</th>
<th>Megawatts</th>
<th>Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>45,089</td>
<td>9/15 4:53 p.m.</td>
</tr>
<tr>
<td>2015</td>
<td>47,358</td>
<td>9/10 3:38 p.m.</td>
</tr>
<tr>
<td>2016</td>
<td>46,232</td>
<td>7/27 4:51 p.m.</td>
</tr>
<tr>
<td>2017</td>
<td>50,116</td>
<td>9/1 3:58 p.m.</td>
</tr>
<tr>
<td>2018</td>
<td>46,427</td>
<td>7/25 5:33 p.m.</td>
</tr>
</tbody>
</table>

See full list

**2017 Energy use** as percentage of total resources available

- **Natural gas = 28%**  
  Down 5% from previous year
- **Net imports = 21%**  
  Down 3% from previous year
- **Nuclear = 10%**  
  Slightly less from previous year
- **Total hydro = 15%**  
  Up 11% from previous year
- **Non-hydro renewables = 24%**  
  Up 22% from previous year
- **Solar increased 22% and accounted for 11%**
- **Wind increased 3% and accounted for 6%**
- **Geothermal = 4%**, about the same from previous year
- **Biofuels = 2%**, a slight increase from previous year

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**Other facts**

- 30 million California consumers
- 1 MW serves about 750-1,000 homes
- 25,685 (or about 26,000) circuit miles of transmission
- 9,696 pricing nodes for ISO & all EIM entities as of Apr. 4, 2018. ISO has 4,119 pricing nodes
- Serve ~80% of California demand
- ISO serves ~33% of WECC demand
- 211 market participants
- 17 participating transmission owners
- Market transactions for 2017 = 31,208 (2016 = 29,651) daily average
- MWh of demand served for 2017 = 239 million
- Total estimated wholesale cost of serving demand in 2017 = $9.4 billion or about $42/MWh*
- Total estimated wholesale cost of serving demand in 2016 = $7.4 billion or about $34/MWh
- Western EIM has 9 active participants serving customers in 8 states (as of April 2019)

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*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.