Peaks for May 2018

- 32,464 MW  Peak demand  May 29
- 73.9%  Demand served by renewables  May 26 at 2:12 p.m.
- 6,835 MW  Renewables served peak  May 18
- 53.7%  Demand served by solar  May 27 at 12:54 p.m.
- 10,634 MW  Solar peak  May 28
- 4,808 MW  Wind peak  May 19

Energy Imbalance Market (as of quarter one 03/01/2018)

- Q1 2018 BENEFITS  $42.08M  in 1st quarter 2018
- TOTAL SAVINGS  $330.52M  since 2014 start

- Q1 2018 AVOIDED CURTAILMENTS  65,860 MWh  in 1st quarter 2018
- TOTAL GHG SAVINGS  250,845 mTCO₂  from avoided curtailment since 2014

Historical stats (as of 06/14/2018)

- Historical peak demand  50,270 MW - July 24, 2006 at 2:44 p.m.
- Renewables served demand  73.9% - May 26, 2018 at 2:12 p.m.

PREVIOUS RECORDS

- 50,116 MW - September 1, 2017 at 3:58 p.m.
- 48,615 MW - August 31, 2007 at 3:27 p.m.

- 72.7% - April 28, 2018 at 1:25 p.m.
- 70.5% - February 18, 2017 at 2:09 p.m.
Demand & resources (as of 06/01/2018)

Resource adequacy net qualifying capacity (NQC) = **55,830 MW**

Does not include current outages

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Installed renewable resources (as of 06/01/2018)

Megawatts

<table>
<thead>
<tr>
<th>Type</th>
<th>Megawatts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar</td>
<td>11,482</td>
</tr>
<tr>
<td>Wind</td>
<td>6,295</td>
</tr>
<tr>
<td>Small hydro</td>
<td>1,238</td>
</tr>
<tr>
<td>Geothermal</td>
<td>1,790</td>
</tr>
<tr>
<td>Biofuels</td>
<td>1,013</td>
</tr>
<tr>
<td>Storage battery</td>
<td>134*</td>
</tr>
<tr>
<td>TOTAL</td>
<td><strong>21,952</strong></td>
</tr>
</tbody>
</table>

Click here for Today’s Outlook

NOTE — Reporting Net Dependable Capacity only (numbers are rounded). 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”.

*Includes 20 MW of storage integrated with power plants

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Key curtailment totals

Record peaks

**SOLAR (NEW)**
10,735 MW - June 8, 2018, 12:33 p.m.

**WIND (NEW)**
5,193 MW - June 8, 2018, 9:04 p.m.

**PREVIOUS SOLAR RECORD**
10,723 MW - June 1, 2018 at 1:06 p.m.
### Annual peak demand

<table>
<thead>
<tr>
<th>Year</th>
<th>MW</th>
<th>Date and Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>50,116</td>
<td>SEPTEMBER 1, 2017, 3:58 P.M.</td>
</tr>
<tr>
<td>2016</td>
<td>46,232</td>
<td>JULY 27, 2016, 4:51 P.M.</td>
</tr>
<tr>
<td>2015</td>
<td>47,358</td>
<td>SEPTEMBER 10, 2015, 4:53 P.M.</td>
</tr>
<tr>
<td>2014</td>
<td>45,089</td>
<td>SEPTEMBER 15, 2014, 4:53 P.M.</td>
</tr>
</tbody>
</table>

Click here to see historical peak demand

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### 2017 Energy use (NEW) 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
- **Wind** increased 3% and accounted for 6%
- **Geothermal** = 4%, about the same from previous year
- **Solar** increased 22% and accounted for 11%
- **Biofuels** = 2%, a slight increase from the previous year

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### Other mostly evergreen 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 Pnodes (pricing nodes) (ISO & all EIM entities as of Apr. 4, 2018) ISO only Pnodes = 4,119
- Serve ~80% of California demand
- ISO serves ~33% of WECC demand
- 202 market participants
- 17 participating transmission owners
- Market transactions for 2017 = 31,208 (2016 = 29,651) daily average
- MWh of demand served for 2017 = 239M
- 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

*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 decreased by about 4 percent.