

### Peaks for January 2019



**29,714 MW**  
Peak demand  
January 14



**5,308 MW**  
Renewables served peak  
January 21



**8,877 MW**  
Solar peak  
January 24



**4,708 MW**  
Wind peak  
January 21

### Energy Imbalance Market



Q4 2018 BENEFITS  
**\$62.57M**

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



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

TOTAL ISO GHG SAVINGS  
**324,284mTCO<sub>2</sub>**  
*from avoided curtailment since Nov 2014*

### Historical stats



**PEAK DEMAND RECORD**  
50,270 MW - July 24, 2006 at 2:44 p.m.



Renewables served demand  
**73.9%** - May 26, 2018 at 2:12 p.m.

#### OTHER PEAK DEMANDS

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

#### PREVIOUS RECORDS

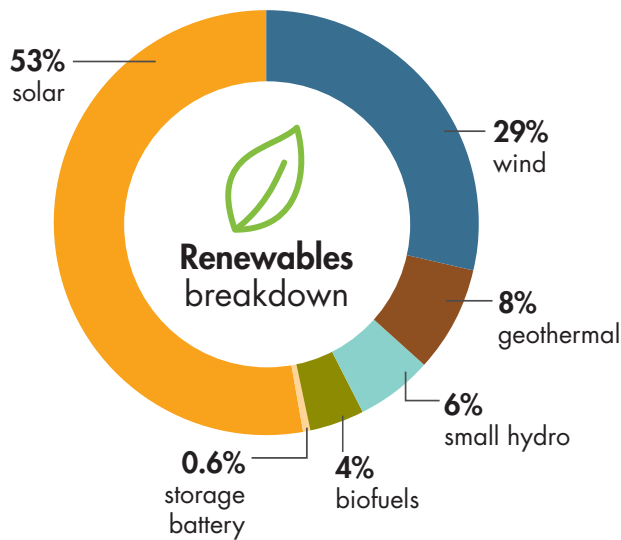
72.7% - April 28, 2018 at 1:25 p.m.  
70.5% - February 18, 2017 at 2:09 p.m.

### Demand & resources (as of 2/01/2019)







Resource adequacy net qualifying capacity (NQC) = **44,608 MW**

Does not include current outages

### Installed renewable resources (as of 2/05/2019)



#### Megawatts

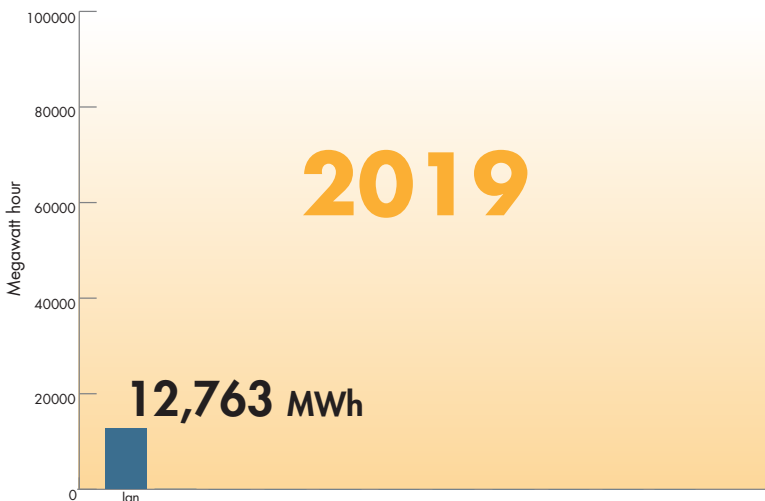
 Solar	11,869
 Wind	6,505
 Small hydro	1,237
 Geothermal	1,785
 Biofuels	953
 Storage battery	136*
<b>TOTAL</b>	<b>22,485</b>

[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

### Key curtailment totals



### Record peaks

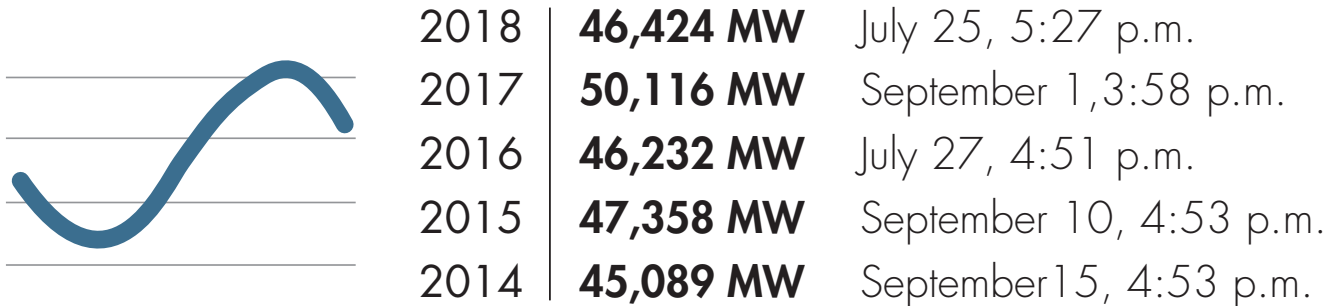
 SOLAR  
10,739 MW - June 29, 2018, 12:33 p.m.

 WIND  
5,193 MW - June 8, 2018, 9:04 p.m.

#### PREVIOUS SOLAR RECORD

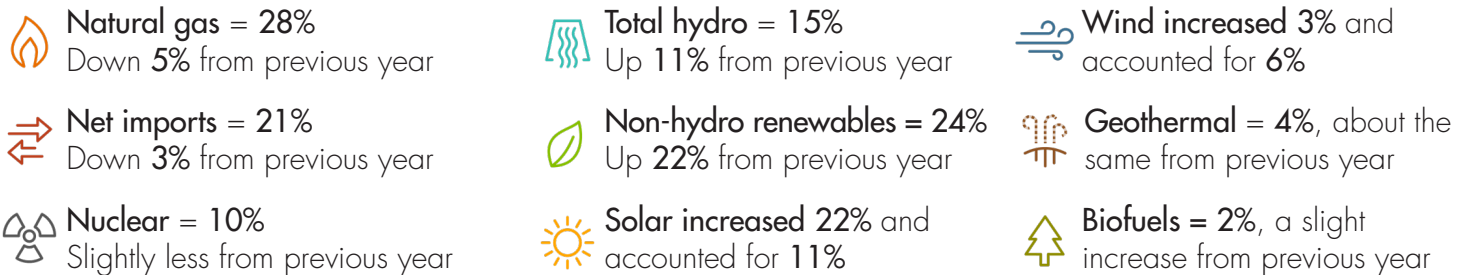
10,735 MW - June 8, 2018 at 12:33 p.m.

### Annual peak demand



[Click here](#) to see historical peak demand

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



### 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
- 211 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 increased by about 4 percent.