

Peaks for December 2018



30,335 MW
Peak demand
December 5



5,865 MW
Renewables served peak
December 25



8,330 MW
Solar peak
December 29



4,838 MW
Wind peak
December 27

Energy Imbalance Market



Q3 2018 BENEFITS
\$100.58M

TOTAL SAVINGS
\$502.31M
since Nov 2014 start



Q3 2018 AVOIDED CURTAILMENTS
19,038MWh

TOTAL ISO GHG SAVINGS
314,258 mTCO₂
from avoided curtailment since Nov 2014

Historical stats



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.

PREVIOUS RECORDS

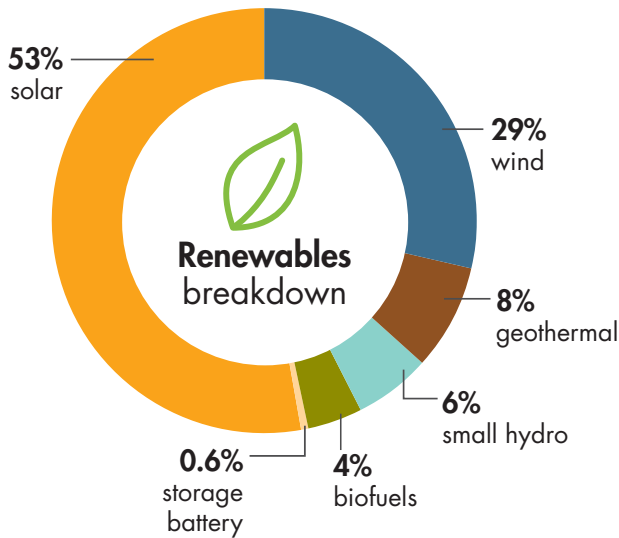
72.7% - April 28, 2018 at 1:25 p.m.
70.5% - February 18, 2017 at 2:09 p.m.

Demand & resources







Resource adequacy net qualifying capacity (NQC) = **44,586 MW**

Does not include current outages

Installed renewable resources *(as of 1/08/2019)*



Megawatts

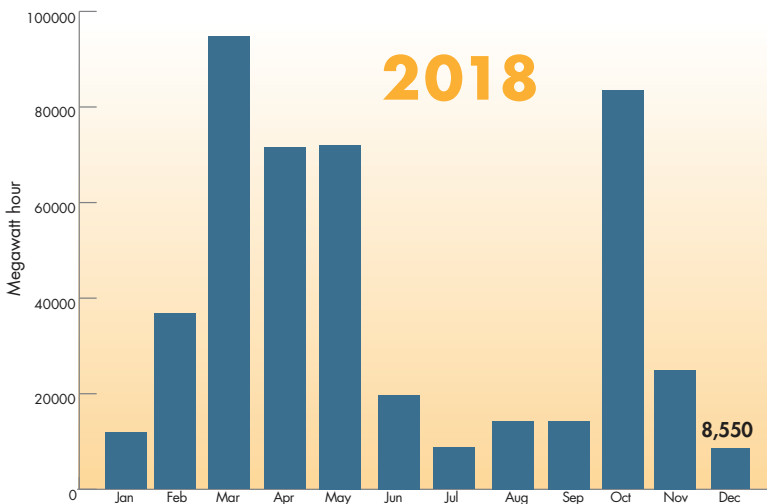
 Solar	11,868
 Wind	6,505
 Small hydro	1,237
 Geothermal	1,785
 Biofuels	953
 Storage battery	136*
TOTAL	22,484

[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

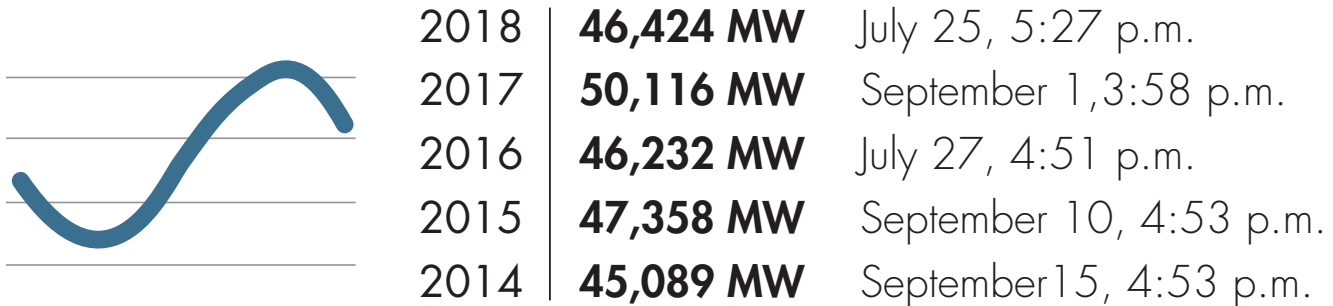
 SOLAR
10,739 MW - June 29, 2018, 12:33 p.m.

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

PREVIOUS SOLAR RECORD

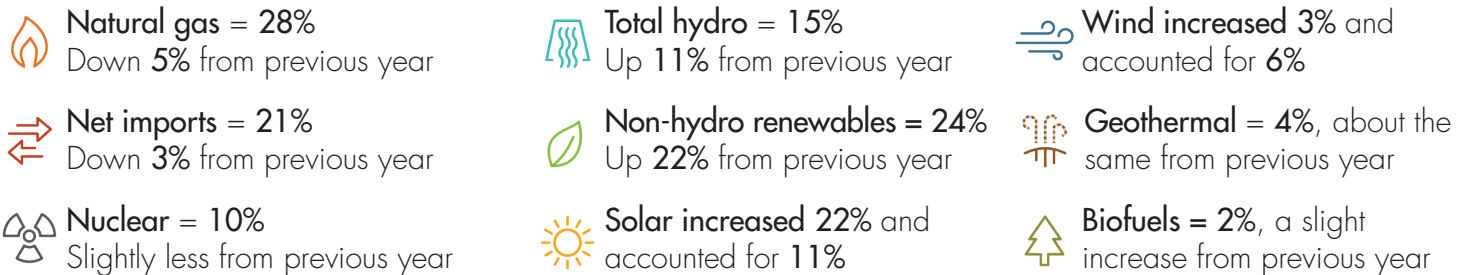
10,735 MW - June 8, 2018 at 12:33 p.m.

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.