California ISO

KEY STATISTICS

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)*

EIM

Q1 2018 BENEFITS
$42.08M
in 1st quarter 2018

TOTAL SAVINGS
$330.52M
since 2014 start

GHG

Q1 2018 AVOIDED CURTAILMENTS
65,860 MWh
in 1st quarter 2018

TOTAL GHG SAVINGS
250,845 $mTCO_2$
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.

PREVIOUS RECORDS

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

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

PREVIOUS RECORDS

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

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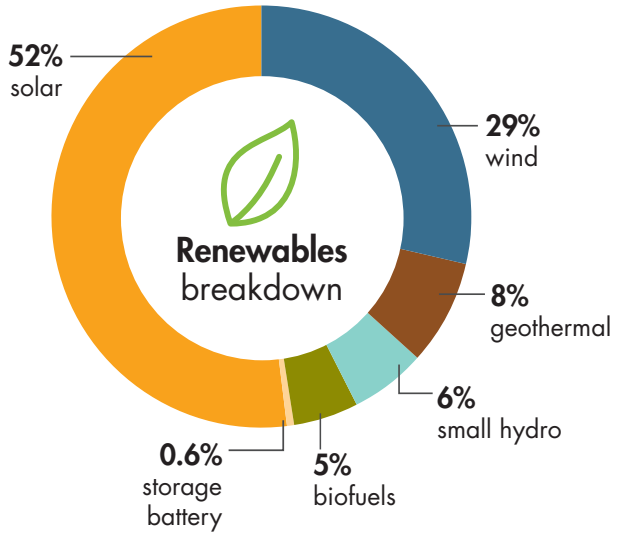
KEY STATISTICS

Demand & resources *(as of 06/01/2018)*

Resource adequacy net qualifying capacity (NQC) = **55,830 MW**
Does not include current outages

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



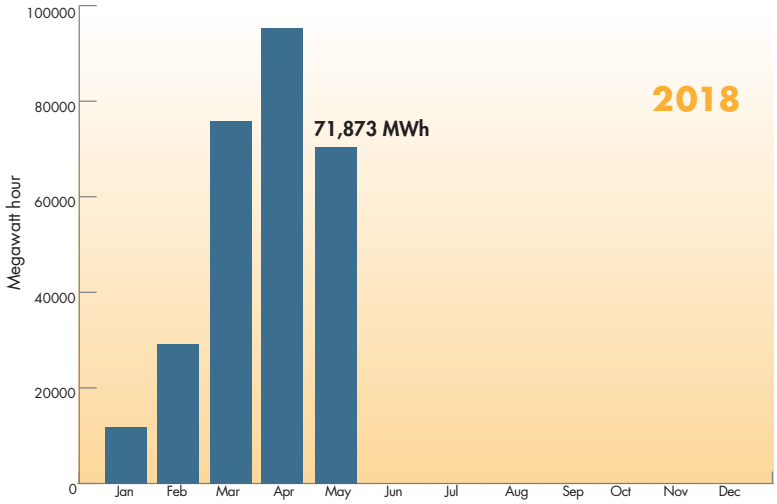
	Megawatts
Solar	11,482
Wind	6,295
Small hydro	1,238
Geothermal	1,790
Biofuels	1,013
Storage battery	134*
TOTAL	**21,952**

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 (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.

California Independent System Operator

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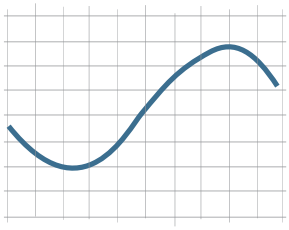
California ISO

KEY STATISTICS

Annual peak demand



2017	**50,116 MW**	SEPTEMBER 1, 2017, 3:58 P.M.
2016	**46,232 MW**	JULY 27, 2016, 4:51 P.M.
2015	**47,358 MW**	SEPTEMBER 10, 2015, 4:53 P.M.
2014	**45,089 MW**	SEPTEMBER 15, 2014, 4:53 P.M.

Click here to see historical peak demand

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
- **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 to previous year

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.

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