California ISO

KEY STATISTICS

Peaks for July 2018

46,424 MW
Peak demand
July 25

13,211 MW
Renewables served peak
July 2

10,632 MW
Solar peak
July 4

4,521 MW
Wind peak
July 2

Energy Imbalance Market

EIM

Q2 2018 BENEFITS
$71.21M

TOTAL SAVINGS
$401.73M
since Nov 2014 start

GHG

Q2 2018 AVOIDED CURTAILMENTS
129,128 MWh

TOTAL ISO GHG SAVINGS
306,112 $mTCO_2$
from avoided curtailment since Nov 2014

Historical stats

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.

California Independent System Operator

www.caiso.com | 250 Outcropping Way, Folsom, CA 95630 | 916.351.4400

CommPR/08.2018

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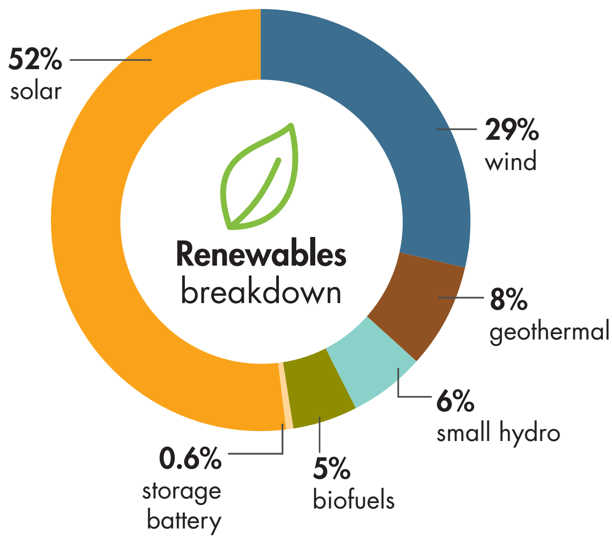
KEY STATISTICS

Demand & resources *(as of 08/01/2018)*

Resource adequacy net qualifying capacity (NQC) = 54,071MW
Does not include current outages

Installed renewable resources *(as of 08/01/2018)*



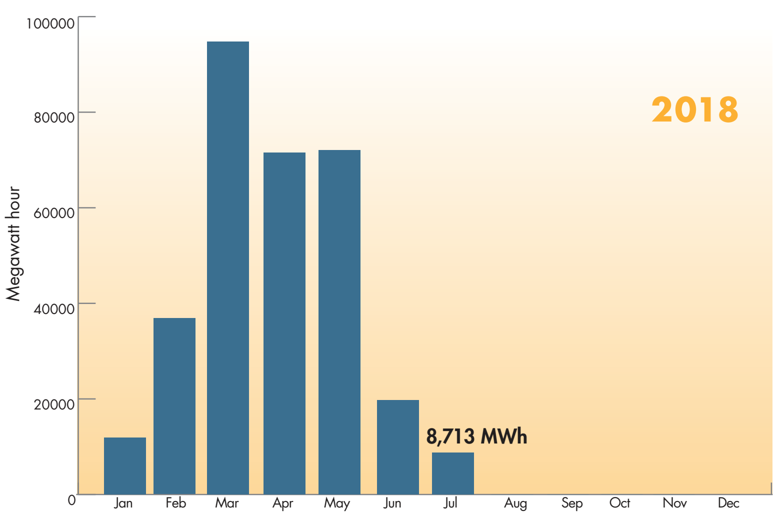
	Megawatts
Solar	11,491
Wind	6,273
Small hydro	1,238
Geothermal	1,785
Biofuels	1,001
Storage battery	134*
TOTAL	**21,924**

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.

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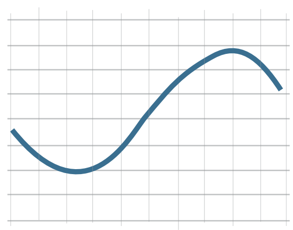
KEY STATISTICS

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 *as percentage of total resources available*

Natural gas = 28%
Down **5%** from previous year

Total hydro = 15%
Up **11%** from previous year

Wind increased 3% and accounted for **6%**

Net imports = 21%
Down **3%** from previous year

Non-hydro renewables = 24%
Up **22%** from previous year

Geothermal = **4%**, about the same from previous year

Nuclear = 10%
Slightly less from previous year

Solar increased 22% and accounted for **11%**

Biofuels = 2%, a slight increase from to previous year

Key curtailment totals

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 increased by about 4 percent.