California ISO

KEY STATISTICS

Peaks for February 2019

30,073 MW
Peak demand
February 20

5,061 MW
Renewables served peak
February 18

10,073 MW
Solar peak
February 23

4,608 MW
Wind peak
February 16

Energy Imbalance Market

EIM

Q4 2018 BENEFITS
$62.57M

TOTAL SAVINGS
$564.88M
since Nov 2014 start

GHG

Q4 2018 AVOIDED CURTAILMENTS
23,425MWh

TOTAL ISO GHG SAVINGS
324,284 mTCO$_2$
from avoided curtailment since Nov 2014

Historical stats

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

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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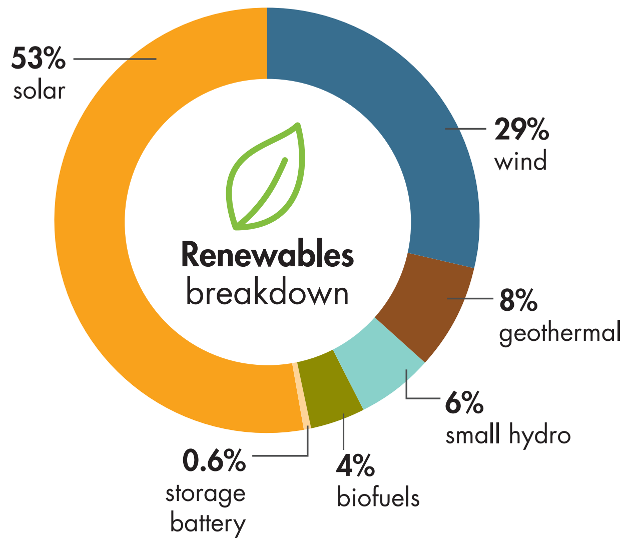
Demand & resources *(as of 3/01/2019)*

Resource adequacy net qualifying capacity (NQC) = 45,288 MW
Does not include current outages

Installed renewable resources *(as of 3/04/2019)*



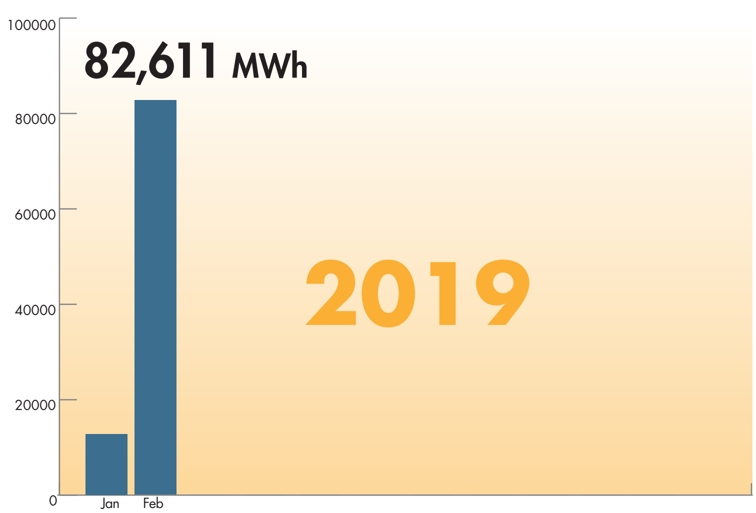
	Megawatts
Solar	11,799
Wind	6,505
Small hydro	1,237
Geothermal	1,785
Biofuels	955
Storage battery	136*
TOTAL	**22,417**

[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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Annual peak demand

2018	**46,424 MW**	July 25, 5:27 p.m.
2017	**50,116 MW**	September 1,3:58 p.m.
2016	**46,232 MW**	July 27, 4:51 p.m.
2015	**47,358 MW**	September 10, 4:53 p.m.
2014	**45,089 MW**	September15, 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

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 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
- 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.

California Independent System Operator

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