

MONTHLY STATS

March 2018

Peaks for March

Peak demand 28,530 MW March 1

Renewables serving peak 5,501 MW March 25

Percentage of renewables serving peak 21.1% March 25

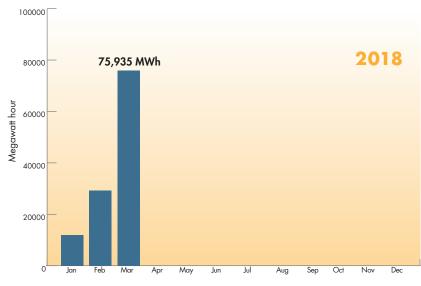
Solar & wind **12,551 MW** March 15



Peak solar **10,412 MW** March 5

Peak wind **3,923 MW** March 26

Key curtailment totals



Click here for more information on managing oversupply

Avoided curtailments due to EIM



<u>Click here</u> for EIM quarterly benefits reports

Good facts

Renewables served **70.5%** of demand on February 18, 2018 at 2:09 p.m.

Previous milestones 67.2% - May 13, 2017 at 2:55 p.m. 65.2% - April 24, 2017 at 2:53 p.m. 56.7% - March 23, 2017 at 11:23 a.m.



Solar served **52.2%** of demand April 8, 2018 at 1:06 p.m.

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Wind served **22.8%** of demand April 1, 2018 at 3:47 a.m.

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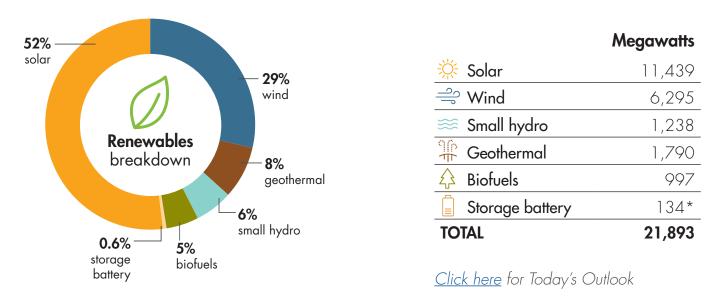


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Demand & resources (as of 04/09/2018)

Resource adequacy net qualifying capacity (NQC) = **53,234** MW Does not include current outages

Installed renewable resources (as of 04/09/2018)



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 <u>OASIS</u> under "Atlas Reference".

*Includes 20 MW of storage integrated with power plants

Record peaks



WIND **4,985** MW May 16, 2017, 5:26 p.m.

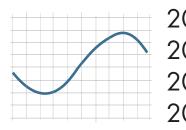
PREVIOUS SOLAR RECORD 9,914 MW set on June 17, 2017, 12:13 p.m.

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MONTHLY STATS

Season peak demand





SEPTEMBER 1, 2017, 3:58 P.M. JULY 27, 2016, 4:51 P.M. SEPTEMBER 10, 2015, 4:53 P.M. SEPTEMBER 15, 2014, 4:53 P.M.

<u>Click here</u> to see historical peak demand

2016 Energy use as percentage of total resources available

Natural gas = 32% Non-hydro renewables = 20%Down 40% from previous year Up 18% from previous year Net imports = 28% Solar increased 32% and Unchanged from previous year accounted for 9% of total system energy $\triangle Nuclear = 8\%$ About the same from previous year

Total hydro = 10% Up **5%** from previous year

Wind increased 12% and accounted for 6% of total system energy

- 9 Geothermal decreased 8% in and provided almost 5% of total system energy

Biofuels = 2% of total system energy, a slight decrease compared 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
- 197 market participants
- 17 participating transmission owners
- Market transactions for 2016 = 29,651 (2015 = 27,488) daily average
- MWh of demand served for 2016 = 237M MWh, ~1.25% lower than 2015 (239.6M in 2015)
- Total estimated wholesale cost of serving demand in 2016 = \$7.4 billion or about \$34 MWh (down ~9% from \$8.3 billion/\$37MWh in 2015; \$12 billion in 2014/\$52 MWh).*

*Note — This is lowest nominal cost since 2008 — mostly due to lower 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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