

KEY STATISTICS

Peaks for May 2019



28,635 MW

Peak demand
May 13

Previous month:
31,195 MW



7,073 MW

Peak served by renewables
May 6

Previous month:
6,510 MW



11,358 MW

Solar peak
May 4

Previous month:
11,275 MW



5,309 MW

Wind peak
May 8

Previous month:
5,174 MW

Historical stats & record peaks



11,358 MW

Solar peak **NEW!**
May 4, 2019 at 1:10 P.M.

Previous record:
11,275 MW on April 17, 2019



5,309 MW

Wind peak **NEW!**
May 8, 2019 at 3:21 P.M.

Previous record:
5,193 MW on June 8, 2018



78%

Demand served by renewables
April 20, 2019 at 12:40 P.M.

Previous record:
73.9% on May 26, 2018



50,270 MW

Peak demand
July 24, 2006 at 2:44 P.M.



Previous peak demands:

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

Energy Imbalance Market



Q1 2019 BENEFITS
\$85.38M

TOTAL SAVINGS
\$650.26M
since Nov 2014 start



Q1 2019 AVOIDED CURTAILMENTS
52,254 MWh

TOTAL ISO GHG SAVINGS
346,649 mTCO₂
from avoided curtailment since Nov 2014

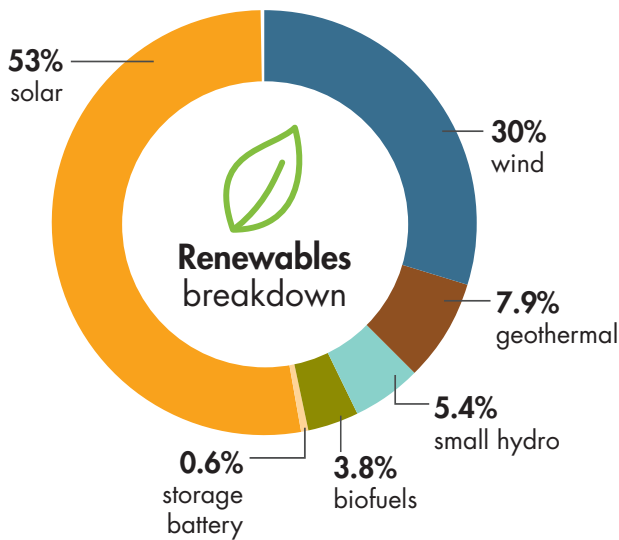


Demand & resources (as of 6/01/2019)

Resource adequacy net qualifying capacity (NQC) = **49,544 MW**

Does not include current outages

Renewable resources (as of 6/01/2019)

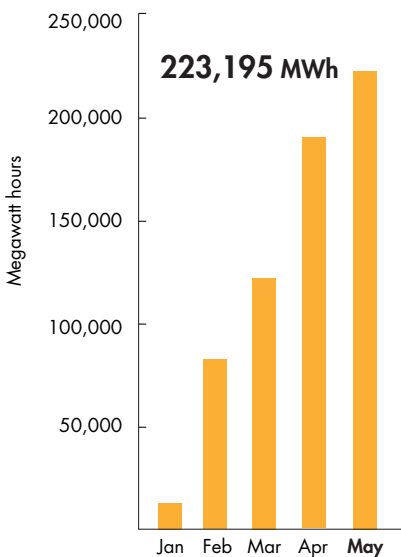


	Megawatts
Solar	11,949
Wind	6,714
Small hydro	1,229
Geothermal	1,785
Biofuels	878
Storage battery*	136
TOTAL	22,691

[See Today's Outlook](#)

NOTE — 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 stand-alone and hybrid units.

Key curtailment totals



[See Managing Oversupply page](#)

Steepest ramp: 3-hour max

As daily demand for energy increases and solar generation decreases, grid operators must call on flexible resources to meet the upward ramp in demand. For more on ramping, [visit here](#).

15,639 MW RECORD!

Jan 1 starting at 2:25 p.m.

14,630 MW

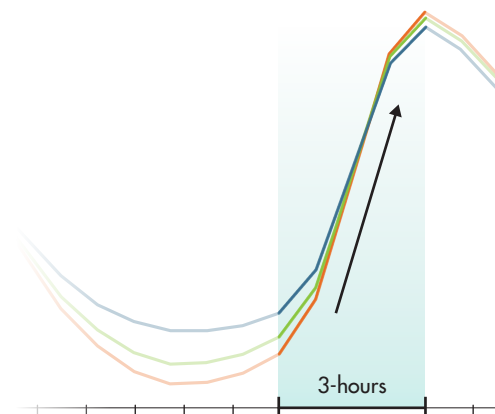
Feb 11 starting at 3:05 p.m.

15,070 MW

Mar 17 starting at 4:07 p.m.

13,177 MW

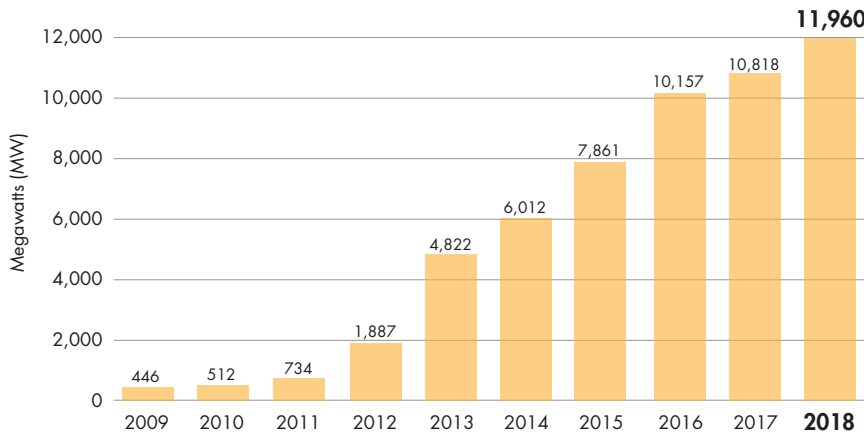
Apr 20 starting at 4:49 p.m.





KEY STATISTICS

NEW! Installed solar growth



Annual peak demand

46,427 MW
Jul 25, 2018 at 5:33 p.m.

50,116 MW
Sep 1, 2017 at 3:58 p.m.

46,232 MW
Jul 27, 2016 at 4:51 p.m.

47,358 MW
Sep 10, 2015 at 3:38 p.m.

NEW! 2018 Energy use (as percentage of total resources available)

Natural gas = 30%
Up 2% from previous year

Total hydro = 10%
Down 7% from previous year

Wind = 7%
Up 19% from previous year

Net imports = 22%
unchanged from previous year

Non-hydro renewables = 26%
Up 3% from previous year

Geothermal = 4%
Down 2% from previous year

Nuclear = 10%
unchanged from previous year

Solar = 12%
Up 9% from previous year

Biofuels = 2%, a slight increase from previous year

Other facts

- 30 million consumers
- Serve ~80% of California demand
- Serve ~33% of WECC demand
- MWh of load served for 2018 = 232.9 million
- Total estimated wholesale cost of serving demand in 2018 = \$10.8 billion or about \$50/MWh*
- Total estimated wholesale cost of serving demand in 2017 = \$9.4 billion or about \$42/MWh*
- 1 MW serves about 750-1,000 homes (1 MWh = 1 million watts used for one hour)
- 17 participating transmission owners
- 27,285 (or about 26,000) circuit miles of transmission
- 214 market participants
- MWh of market transactions for 2018 = 32,635 (2017 = 31,208)
 - Daily average electricity delivered for 2018 = 222.8M MWh
- 9,696 pricing nodes for ISO & all EIM entities as of Apr. 4, 2018. ISO has 4,119 pricing nodes
- Western EIM has 9 active participants serving customers in 8 states (as of April 2019)

*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.