

KEY STATISTICS

Peaks for August 2019



44,301 MW

Peak demand August 15

Previous month: 43.198 MW



14,766 MW

Peak served by renewables August 8

> Previous month: 14.613 MW



11,193 MW

Solar peak August 9

Previous month: 11.473 MW



4,739 MW

Wind peak August 21

Previous month: 5.034 MW

Historical stats & records



11,473 MW

Solar peak July 2, 2019 at 12:53 P.M.

Previous record: 11,435 MW on July 1, 2019



5,309 MW

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

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



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 luly 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.

Western Energy Imbalance Market (EIM) benefits Read ISO EIM Benefits Report Q2 here

ECONOMIC

2019 Q2 benefits: \$86 million

Total benefits: \$736.26 million since 2014 launch

ENVIRONMENTAL

Q2 avoided curtailments: 132,937 MWh

Q2 ISO GHG savings: 56,897 mTCO₂

Total ISO GHG savings: 403,546 mTCO₂

from avoided curtailment since 2014

Equivalent to removing emissions from 84,844 passenger cars

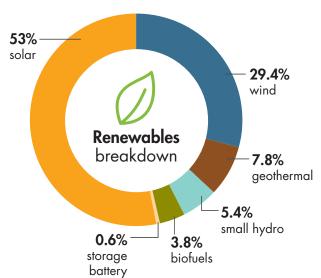


KEY STATISTICS

Demand & resources (as of 9/01/2019)

Resource adequacy net qualifying capacity (NQC) = 51,840 MW Does not include current outages

Renewable resources (as of 9/01/2019)

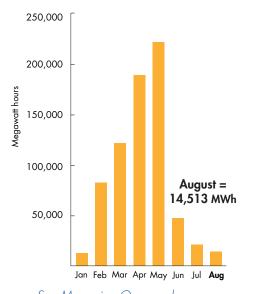


	Megawatts
🌣 Solar	12,072
⇒ Wind	6,714
Small hydro	1,229
₩ Geothermal	1,785
♣ Biofuels	877
Storage battery*	136
TOTAL	22,813

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.

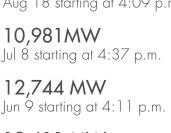
Key curtailment totals



See Managing Oversupply page

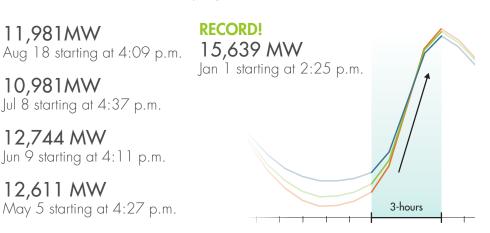
Steepest ramp: 3-hour max

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.



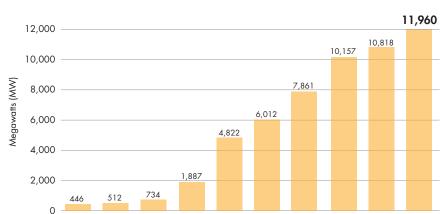
11,981MW

12,611 MW May 5 starting at 4:27 p.m.





Installed solar growth



KEY STATISTICS

Annual peak demand

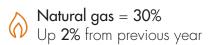
46,427 MW Jul 25, 2018 at 5:33 p.m.

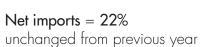
50,116 MW Sep 1, 2017 at 3:58 p.m.

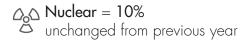
46,232 MW Jul 27, 2016 at 4:51 p.m.

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

2018 Energy use (as percentage of total resources available)

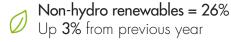




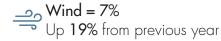




Total hydro = 10% Down 7% from previous year







Geothermal = 4%,
Down 2% 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
- 25,715 (or about 26,000) circuit miles of transmission
- 217 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.