

## **KEY STATISTICS**

### Peaks for April 2019



31,195 MW

Peak demand April 24

Previous month: 28,372 MW



Renewables served peak April 21

> Previous month: 5.771 MW



11,275 MW

Solar peak April 17

Previous month: 10.852 MW



5,174 MW

Wind peak April 20

Previous month: 4.469 MW

### Historical stats & record peaks



11,275 MW

Solar peak **NEW!** April 17, 2019 at 1:26 P.M.

Previous record: 11,033 MW on April 13, 2019



5,193 MW

Wind peak June 8, 2018 at 9:04 P.M.

Previous record: 4,985 MW on May 16, 2017



78%

Renewables served demand **NEW!** 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.

## **Energy Imbalance Market**





Q1 2019 AVOIDED CURTAILMENTS

52,254 MWh

TOTAL ISO GHG SAVINGS

346,649 mTCO<sub>2</sub>

from avoided curtailment since Nov 2014

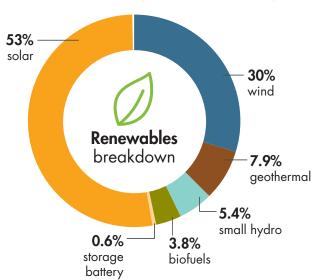


# KEY STATISTICS

#### **Demand & resources** (as of 5/01/2019)

Resource adequacy net qualifying capacity (NQC) = 49,544 MW Does not include current outages

#### Renewable resources (as of 5/01/2019)

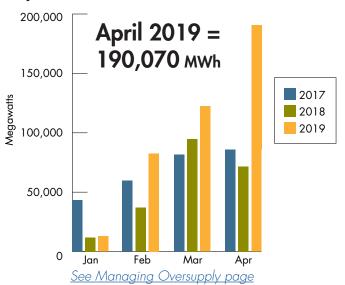


	Megawatts
🌣 Solar	11,949
⇒ Wind	6,705
Small hydro	1,234
₩ Geothermal	1,785
♣ Biofuels	877
Storage battery*	136
TOTAL	22,686

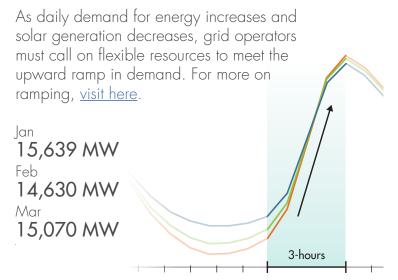
See Today's Outlook

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".

## Key curtailment totals



## Steepest ramp: 3-hour Max NEW!



<sup>\*</sup>Includes stand-alone and hybrid units.

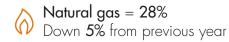


## **KEY STATISTICS**

### Annual peak demand



#### 2017 Energy use as percentage of total resources available





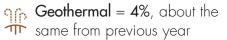


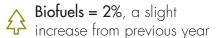












#### Other facts

- 30 million consumers
- Serve ~80% of California demand
- Serve ~33% of WECC demand
- MWh of demand served for 2017 = 239 million
- 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
- 1 MW serves about 750-1,000 homes (1 MWh = 1 million watts used for one hour)
- 17 participating transmission owners
- 25,685 (or about 26,000) circuit miles of transmission
- 214 market participants
- Market transactions for 2017 = 31,208 (2016 = 29,651) daily average
- 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)

<sup>\*</sup>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.