

The Energy and Water Nexus Summit 2
Got Food ?
September 12, 2013

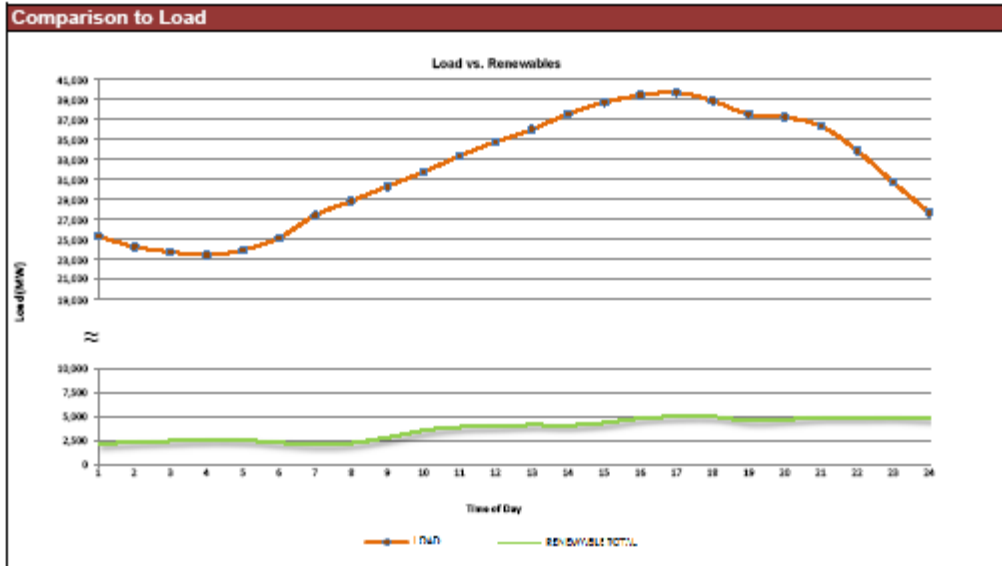


Karen Norene Mills
California Farm Bureau Federation

- California total agricultural output: \$36 billion.
- California has fewer than 4% of the nation's farms yet produces almost 13% of the nation's total agricultural revenue.
- California produces about half of the fruits and vegetables grown in the U.S.
- California leads the nation in production of nearly 80 crops and commodities, including milk, grapes, lettuce, peaches, broccoli and carrots.
- California is the only domestic source of at least a dozen crops, including almonds, artichokes, raisins, olives and walnuts.
- Nine of the nation's top 10 agricultural counties are located in California.
- California also leads the nation in agricultural exports. About 28% of the state's agricultural products are shipped to foreign markets.
- More than 90% of California farms are owned by families, individuals or partnerships. Over 90% of California farms are properly classified as small businesses.
- For every billion dollars in farm sales, there are 18,000 jobs created in California, 11,000 within the farm sector and 7,000 in other, related businesses, resulting in the state's agricultural production accounting for nearly 660,000 jobs in California alone.
- The key issue for most farmers is water.
- Farmers have made significant investments in equipment to respond to pricing structures of energy rates.

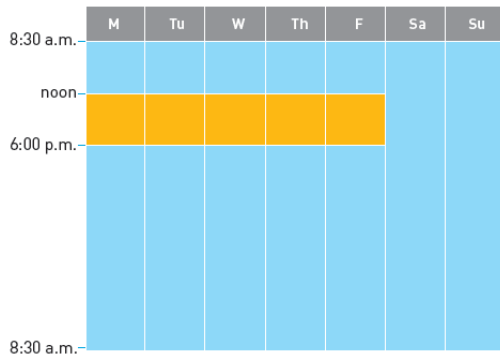
For Operating Day:

The first graph provided on this page shows how much energy renewable resources are contributing to the grid, and when those resources are producing their daily maximum and how that production correlates to the maximum energy demand.



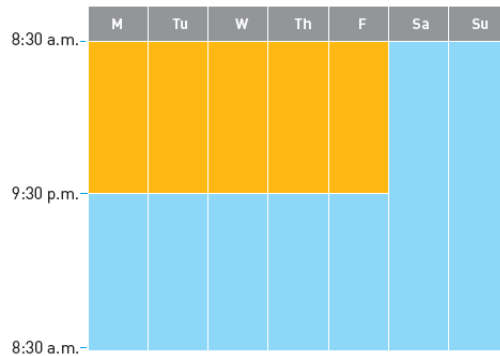
PG&E Rates

Summer Time-of-Use* May 1 through October 31



On-Peak: higher energy costs

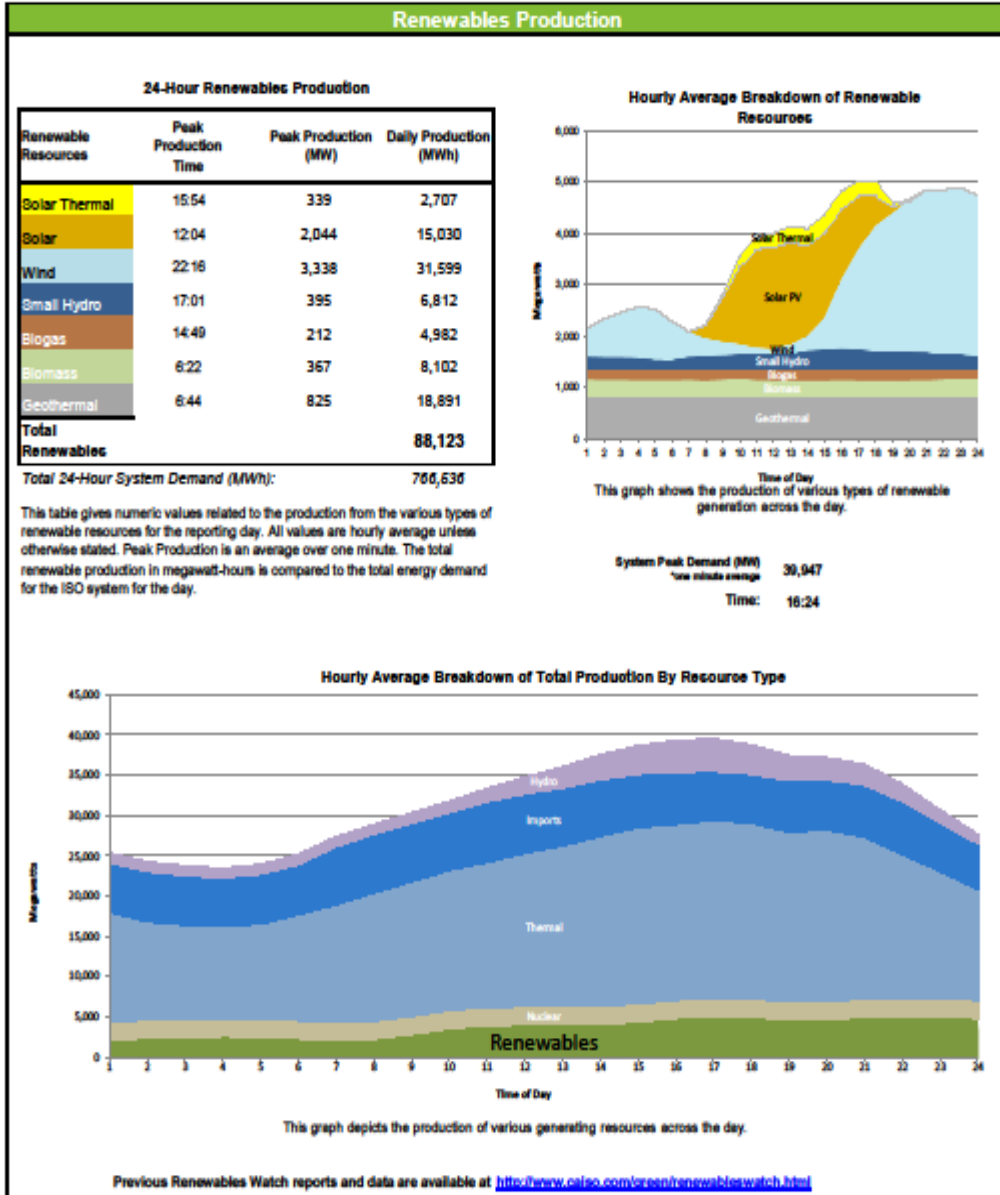
Winter Time-of-Use* November 1 through April 30



Off-Peak: lower energy costs

For Operating Day: **Monday, September 09, 2013**

The Renewables Watch provides important information about actual renewable production within the ISO grid as California moves toward a 33 percent renewable generation portfolio. The information provided is as accurate as can be delivered in a daily format. It is unverified raw data and is not intended to be used as the basis for operational or financial decisions.



This table gives numeric values related to the production from the various types of renewable resources for the reporting day. All values are hourly average unless otherwise stated. Peak Production is an average over one minute. The total renewable production in megawatt-hours is compared to the total energy demand for the ISO system for the day. Solar PV and Solar thermal generators that are directly connected to the power grid. "Solar PV" is defined as solar generating units that utilize solar panels containing a photovoltaic material. "Solar Thermal" is defined as solar generating units that convert sunlight into heat and utilize fossil fuel or storage for production which may occur after sunset.