

California Clean Energy Future Metrics

Renewable Energy

Building on previous RPS programs in California, SBx1 2 (statutes of 2011) established the following statewide RPS targets: 20 percent of retail sales from RPS-eligible renewable resources by 2013, 25 percent by 2016, and 33 percent by 2020. Figure 1 shows the amount of renewable generation for California, excluding large hydro, from 1982-2009 and estimates of the amount of renewable generation needed to meet the RPS targets for 2013, 2016, and 2020. The range for each target year is based on factors that can affect retail sales, including policy goals for energy efficiency, self-generation, and combined heat and power, as well as expected levels of economic growth and population growth.

Figure 1: Renewable Generation for California and RPS Goals

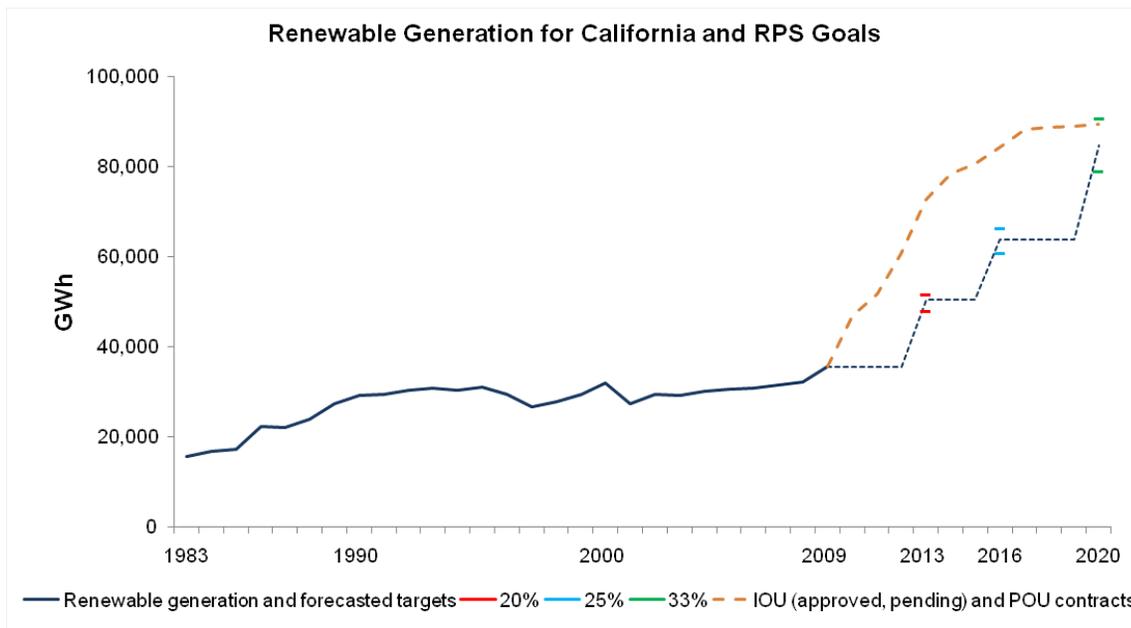


Figure 2: Milestones Achieved by Executed IOU RPS Contracts

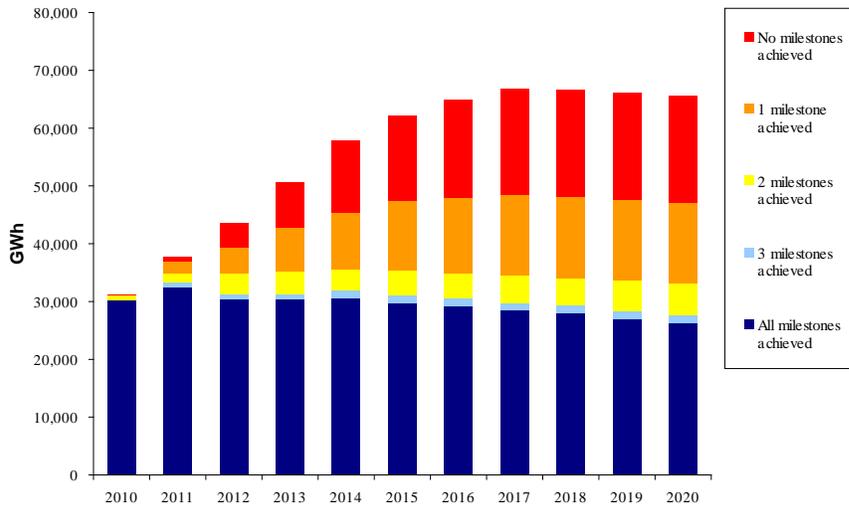


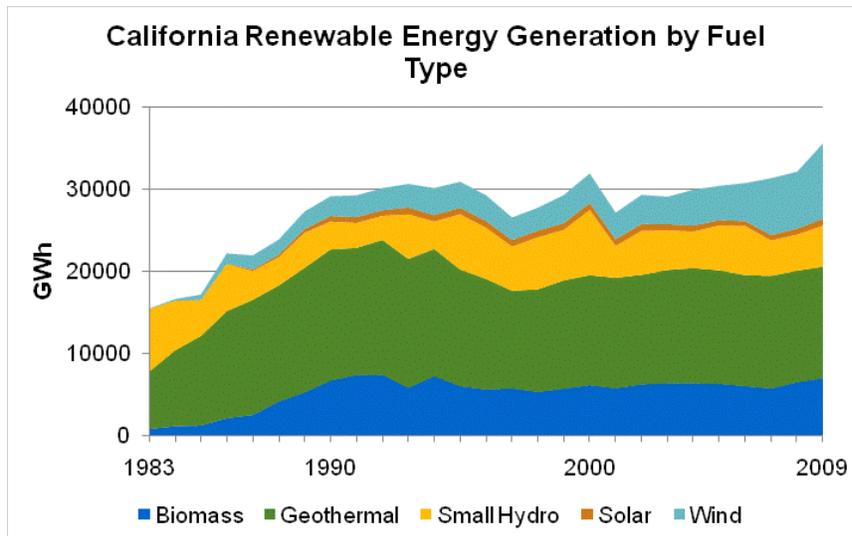
Figure 2 shows the number of milestones achieved for IOU RPS contracts, as presented in the Division of Ratepayer Advocates' *Green Rush: Investor-Owned Utilities' Compliance with the Renewables Portfolio Standard, February 2011*. Milestones assessed include securing financing, obtaining necessary permits, beginning construction, and commencement of commercial operations.

The DRA report is available online at

<http://www.dra.ca.gov/DRA/energy/Procurement/Renewables/greenrush.htm>.

Figure 4 shows renewable generation for California from 1982-2009 by fuel type.

Figure 4: California Renewable Energy Generation by Fuel Type



The following data sources were used to prepare Figures 1 and 2:

<http://energyalmanac.ca.gov/renewables/hydro/index.html>

<http://energyalmanac.ca.gov/renewables/biomass/index.html>

<http://energyalmanac.ca.gov/renewables/geothermal/index.html>

<http://energyalmanac.ca.gov/renewables/solar/index.html>

<http://www.energy.ca.gov/wind/index.html>

http://energyalmanac.ca.gov/electricity/electricity_generation.html

http://energyalmanac.ca.gov/electricity/total_system_power.html

For more information on IOU, electric service provider, and community choice aggregator RPS progress, see the CPUC RPS Quarterly Reports and the CPUC Status of RPS Projects, available on-line at

<http://www.cpuc.ca.gov/PUC/energy/Renewables/index.htm>.

For more information on POU RPS progress, see the POU Contract Database as of September 2010,

available at <http://www.energy.ca.gov/2008publications/CEC-300-2008-005/index.html>.

Also see, Woodward, Jim and Marc Pryor.

An Assessment of Resource Adequacy and Resource Plans of Publicly Owned Utilities in California.

California Energy Commission, Electricity Supply Analysis Division. CEC-200-2009-019,

<http://www.energy.ca.gov/2009publications/CEC-200-2009-019/CEC-200-2009-019.PDF>. An updated

assessment of POU resource plans is expected by the end of 2011 or early 2012.

For more information on the amount of new renewable generation required to achieve the 33 percent by 2020 target, see http://www.energy.ca.gov/2011_energypolicy/documents/index.html#03082011.