



California & Offshore Wind Energy



September 17, 2019



California Climate Policy

Greenhouse Gas Reductions

1990 levels by 2020

40% below 1990 levels by 2030

80% below 1990 levels by 2050

Renewable Energy

20% RPS by 2017

33% by 2020

50% by 2026

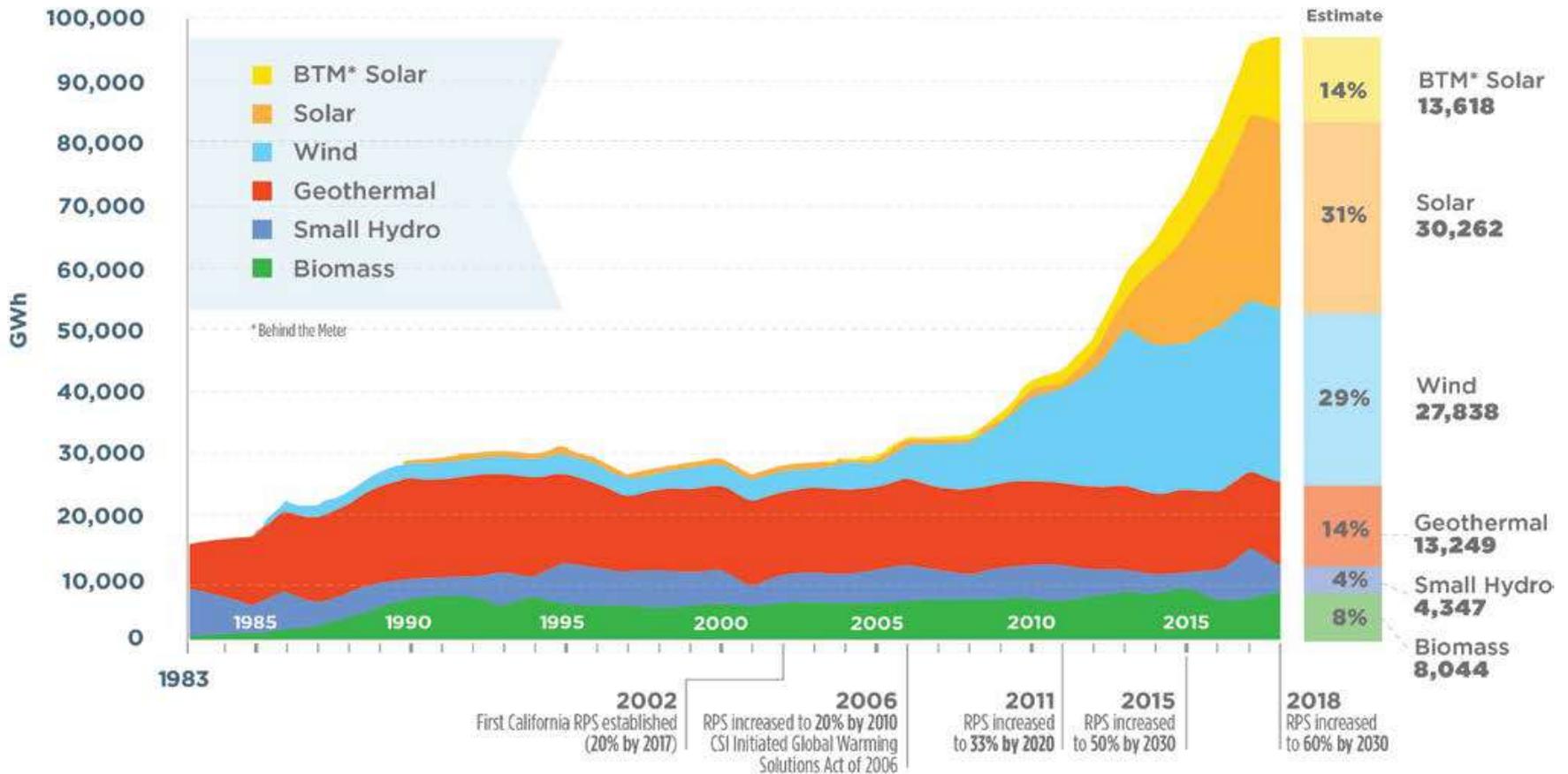
60% by 2030

100% Carbon-Free Electricity by 2045



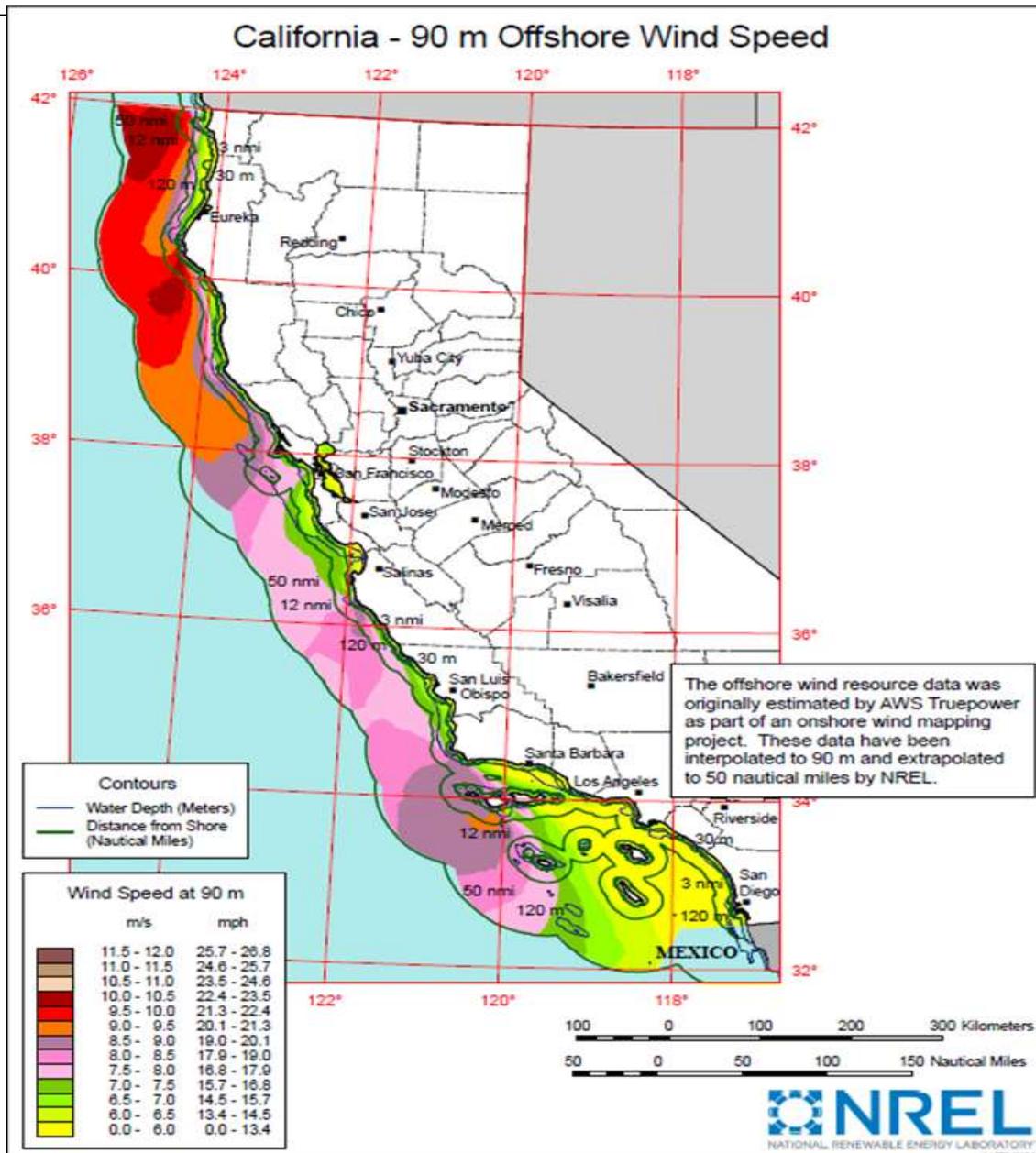


Installed Renewable Capacity (GWh)





Offshore Wind Resource Potential in California





Offshore Wind Timeline

January 2016: Trident Winds submits an unsolicited lease request to BOEM for a floating offshore wind farm off of Morro Bay.

May 12, 2016: Governor Brown requested Department of Interior establish a Marine Renewable Energy Task Force

October 13, 2016: First Task Force Meeting

September 2018: Redwood Coast Energy Authority submits an unsolicited lease request to BOEM for a floating offshore wind farm off of Eureka.

September 17, 2018: Second Task Force Meeting

October 19, 2018: BOEM publishes Call for Information and Nominations with a 100-day comment period.

January 28, 2019: BOEM received 14 nominations in the Call Areas



Call for Information and Nominations





Outreach & Data

- 75+ Outreach Meetings
 - Local Communities
 - Fishermen
 - Local ports & Harbor Safety Committees
 - Academics
 - Environmentalists
 - Developers
- Tribes
- Offshore Wind Energy Gateway

The screenshot shows the homepage of the California Offshore Wind Energy Gateway. At the top, there is a search bar and navigation tabs for 'Get Started', 'Explore', 'Create', 'Community', and 'My Workspace'. The main content area features a large introductory text block about the gateway's purpose, accompanied by a photograph of a wave. Below this are four thematic map tiles: 'California Marine & Coastal Energy', 'California Marine & Coastal Management', 'California Marine & Coastal Ecology and Natural Resources', and 'California Marine & Coastal Community Values and Traditional Uses'. A 'Featured Items' section displays several data sets with map thumbnails, including 'Essential Fish Habitat', 'Marine Protected Areas Inventory, March 2013', 'NOAA California Ocean Uses Atlas - Non-consumptive (Sturgeon areas)', 'NOAA California Ocean Uses Atlas - Industrial (Powerplant areas)', and 'NOAA California Ocean Uses Atlas - Ferry (Stairway areas)'. A larger map titled 'California Off-Shore Wind Resources' shows the coastline with highlighted areas. At the bottom, there are buttons for 'Download the Fact Sheet & Get Involved' and 'Follow Progress', along with logos for BOEM (Bureau of Ocean Energy Management) and the California Energy Commission.



Next Steps

- Outreach
- Continue to Gather and Review Environmental Data
- Investing in Further Research
 - Ocean Protection Council: Economic, environmental, and fishing industry
 - BOEM: Socioeconomic, biological, and oceanography
- CEC Public Workshop on October 3, 2019
- Continue to Identify Research Needs