



# State and Federal Perspectives on California's Plan for Offshore Wind Energy

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Tsakopoulos Library Gallery, Sacramento, CA

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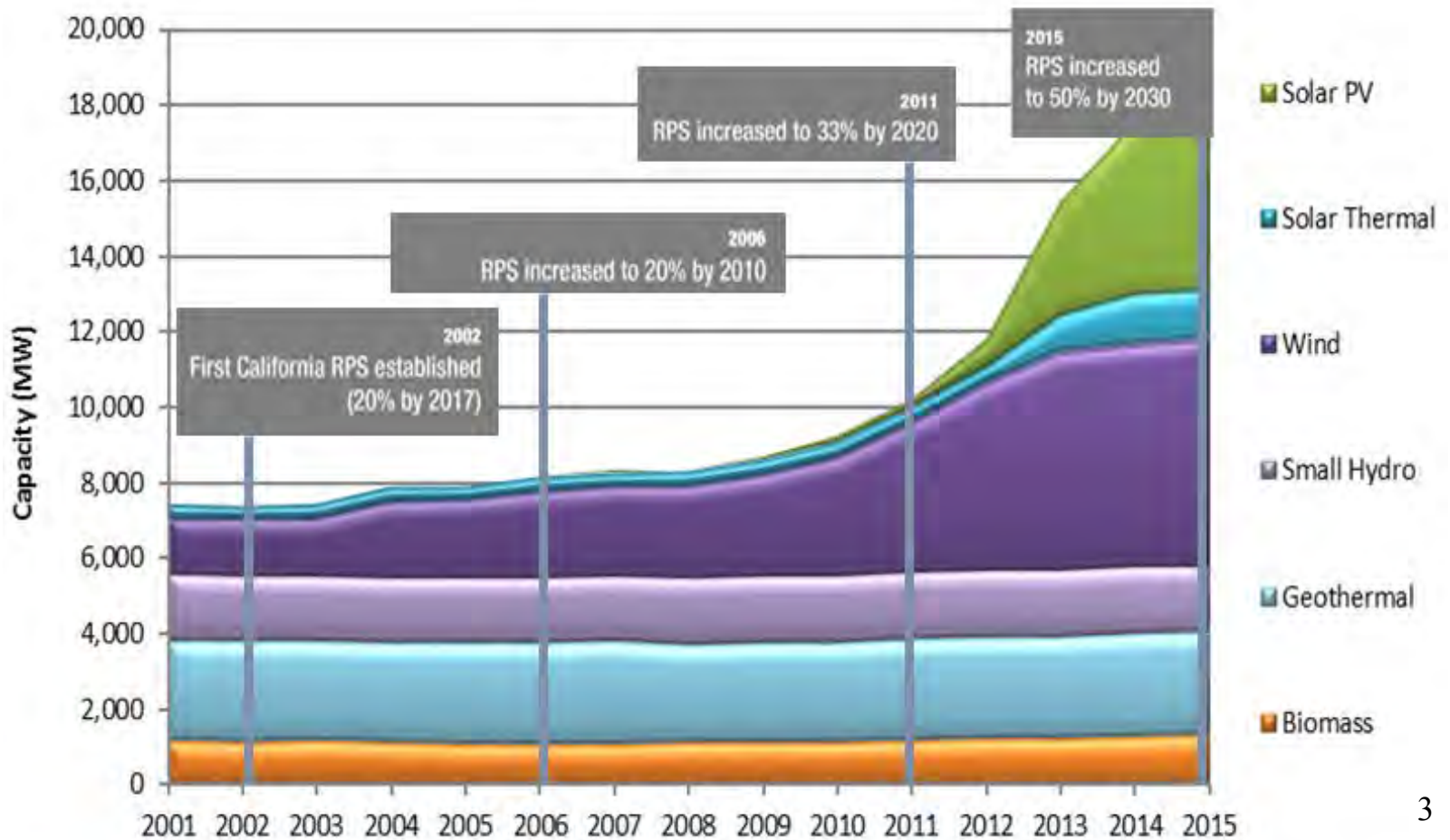


## California Climate Policy

- Greenhouse Gas Emission Reduction Goals
  - 1990 levels by 2020
  - 40% below 1990 levels by 2030
  - 80% below 1990 levels by 2050
- Renewables Portfolio Standard
  - 20% by 2017
  - 33% by 2020
  - 50% by 2030

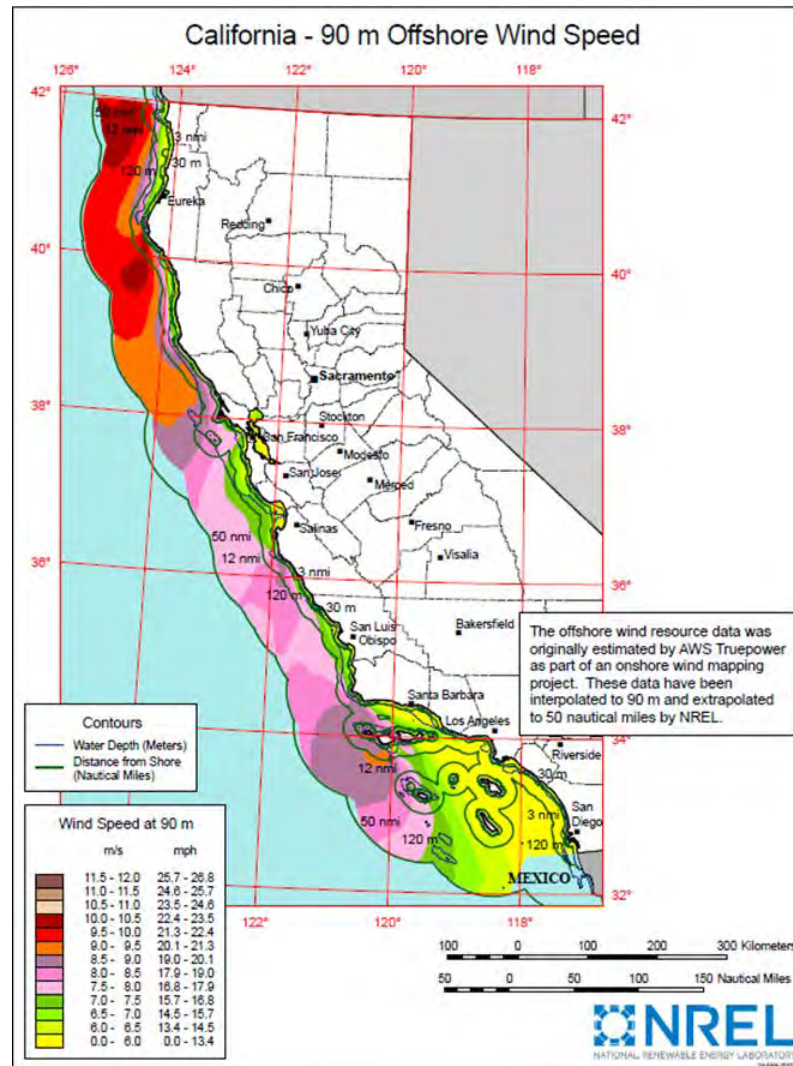


# Installed Renewable Capacity (In MW) By Resource Type





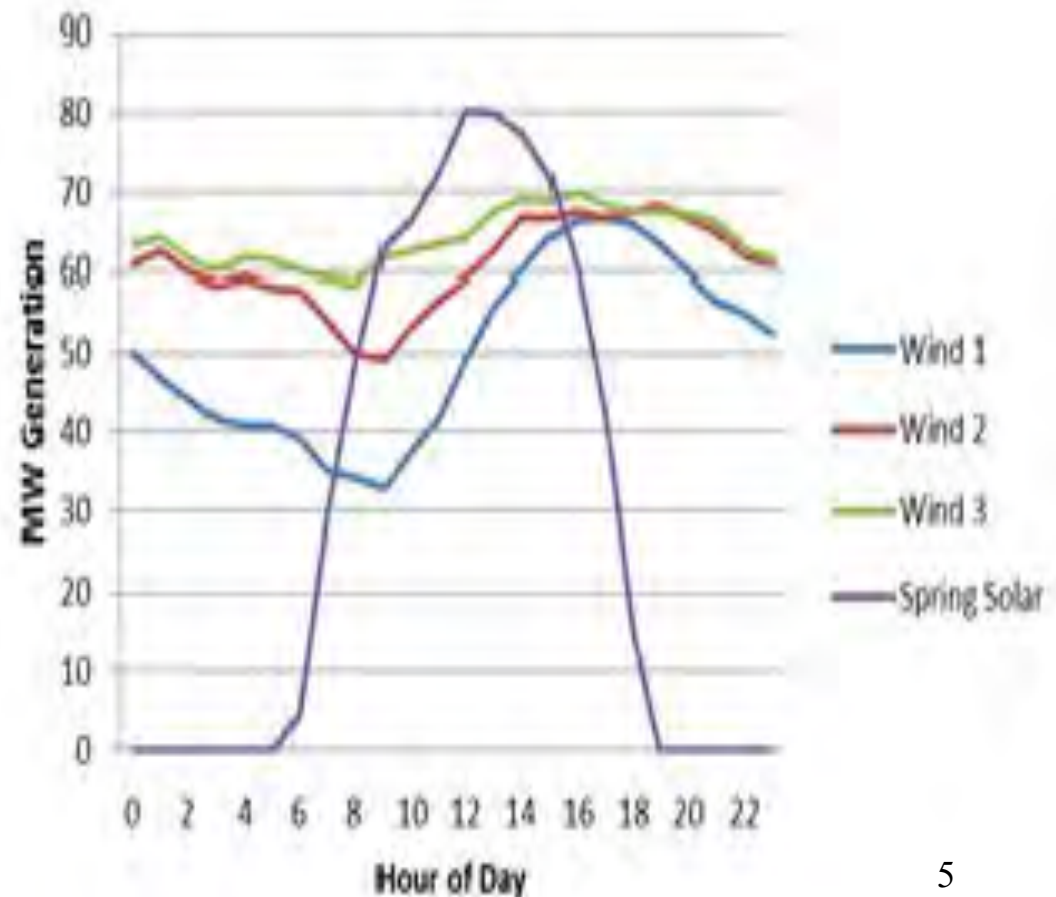
# Offshore Wind Resource Potential in California





## Potential Benefits of Offshore Wind in California

- High Capacity Factor
- Complementary to solar generation profile
- Proximity to load centers
- Utilization of existing coastal transmission infrastructure





## Potential Challenges for Offshore Wind in California



- Cost
- Technology risk
- Environmental unknowns
- Stakeholder Concerns
- Permitting/Coordination
  - Overlapping jurisdictions and responsibilities



## BOEM-California Intergovernmental Renewable Energy Task Force

- 5/12/16: Governor Brown requested the Department of Interior establish a Task Force
- Members include federal, state and local agencies, and federally recognized tribal governments
- Coordination and communication function:
  - Discuss stakeholder issues and concerns
  - Exchange data and information
  - Inform members about BOEM's offshore renewable energy program
  - Facilitate early and continual dialogue and collaboration opportunities.
- 10/13/16: First Task Force Meeting
- 7/13/17: Next Task Force Meeting



## California – Department of Interior Memorandum of Understanding on Renewable Energy

- Specific to Offshore Wind:
  - Places a high priority on processing plans for renewable energy development in areas that have been identified as offshore Wind Energy Areas
  - ...“collaborate and engage in a multi-phase process to collect data to inform planning efforts and identify possible areas offshore California that are suitable for potential offshore renewable energy projects...”
  - Identify one or more suitable areas offshore California for which BOEM could issue one or more Calls for Information and Nominations regarding wind energy leasing.
  - Update the California Permitting Guidance for Ocean Renewable Energy Test and Pilot Projects to expand guidance for offshore wind energy, including commercial-scale.





## State and Federal Jurisdiction

- State jurisdiction extends to 3 nautical miles off the coast
- Federal jurisdiction is from 3 to 200 nautical miles offshore California (The Outer Continental Shelf – OCS)



## Stakeholder Outreach Meetings

- Academics
- Coastal Communities
- Environmental groups
- Fishing Communities
- Industry
- Local government
- Tribes



## BOEM/California Task Force Offshore Data Collection Area





## Participating State Agencies

- California Coastal Commission
- California Department of Fish and Wildlife
- California Energy Commission
- California Independent System Operator
- California Ocean Protection Council
- California Department of Parks and Recreation
- California Public Utilities Commission
- California State Lands Commission
- Office of Planning and Research



## Federal Agencies with Jurisdiction

- Bureau of Ocean Energy Management
- Federal Energy Regulatory Commission
- National Marine Fisheries Service
- National Oceanic and Atmospheric Administration / National Marine Sanctuaries
- U.S. Fish and Wildlife Service
- United States Department of Defense
- Department of Homeland Security / United States Coast Guard