

# Offshore Wind: Essential to Achieving 100% Renewable Energy in California



## A Necessary Renewable Energy Resource

California has an ambitious goal of transitioning to 100% clean energy by 2045 and offshore wind is essential for a reliable clean energy portfolio.

To help reach the 100% renewable goal, the State of California has set a target of developing 25 gigawatts (GW) of offshore wind power by 2045, enough energy to power 25 million homes.

## Offshore Wind Benefits

Offshore wind technology offers California **clean and reliable** energy production with minimal environmental impact.



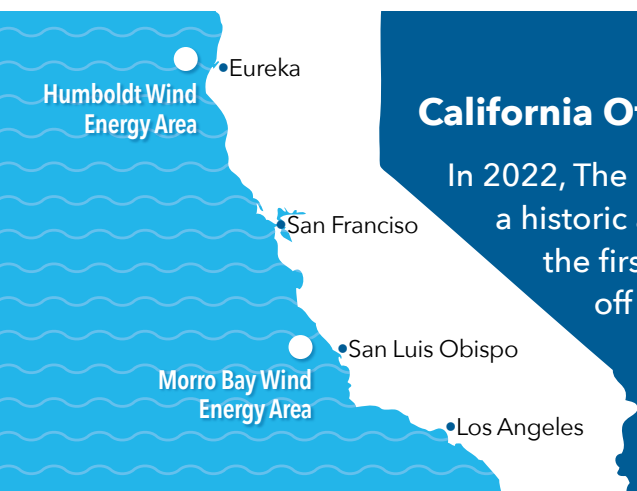
**Reliable Clean Energy.** Offshore wind is an essential source of clean power, indispensable to reducing the impacts of climate change. Offshore wind provides reliable energy across every season of the year. Most of its production occurs in the early morning and evening hours when the grid is most strained or at its net peak.



**Economic Driver.** The offshore wind industry can create thousands of high-paying, skilled jobs in project development, port construction, installation, manufacturing, and maintenance. Additional indirect service jobs will be necessary to support the growing offshore wind industry and its employees.



**Affordability.** Offshore wind can stabilize energy prices by untethering our electric grid from volatile fossil fuel markets. With electrification and the transition to clean energy, California residents and business owners can expect to spend less of their monthly incomes on energy bills, and no one pays for offshore wind until projects are up and running.



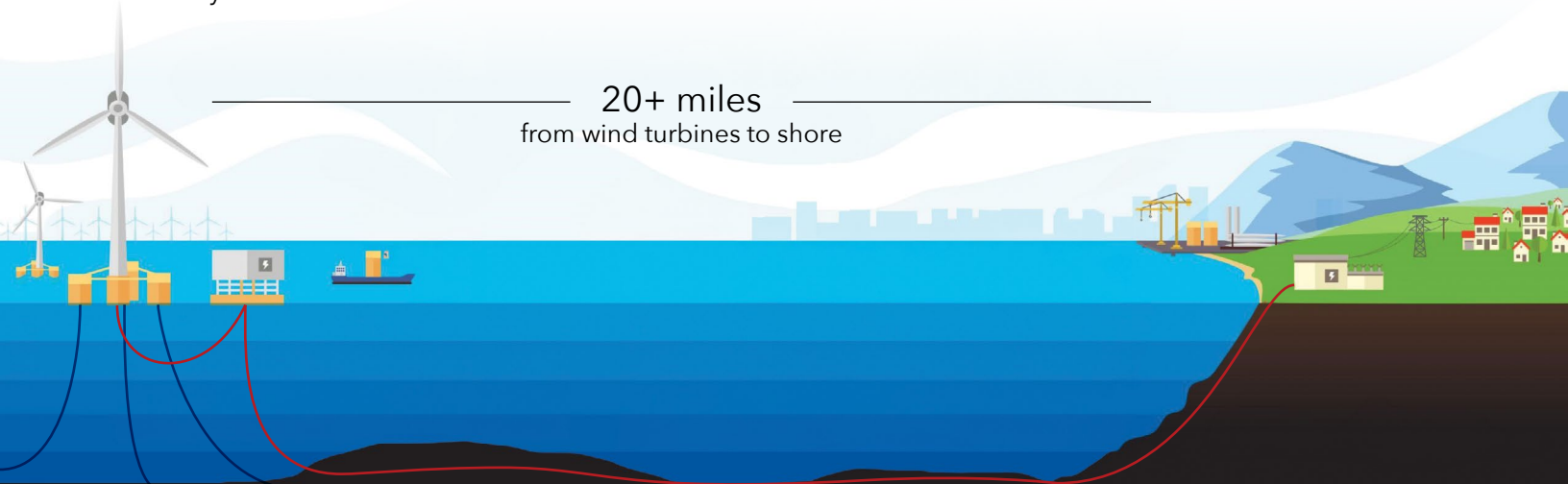
## California Offshore Wind Projects

In 2022, The U.S. Bureau of Ocean Energy Management (BOEM) held a historic auction for five offshore wind project leases in California – the first in the Pacific Ocean. Two of these projects will be located off the coast of Humboldt County, and three off the coast of San Luis Obispo County.

# Floating Offshore Wind Technology - How it works

Floating offshore wind turbines harness wind energy through rotating blades capable of generating up to 20 MW of electricity per turbine of electricity. The largest offshore wind turbines already generating power around the world can power an average home for a full day with just a single rotation of their blades.

California offshore wind will use proven floating foundation technologies that allow turbines to capture energy from further off the coast where winds blow the strongest and structures can barely be seen. With minimal impact to marine life, turbines stand above floating foundations anchored to the sea floor with mooring cables. Subsea transmission cables carry power to the bulk transmission system onshore.



## Community Engagement

California offshore wind leaseholders are dedicated community partners committed to an inclusive approach to engaging local communities. This approach prioritizes economic empowerment, environmental protection, and meaningful community engagement. \$50 million has already been set aside for future community benefit agreements.

Leaseholders are beginning to actively engage with tribal nations, fisheries, labor unions, and residents of local communities through ongoing communications and transparent dialogue. This ensures that community members are well-informed about project progress, encouraging constructive input into the decision-making process over the seven-to-twelve-year timeline of the five initial projects.

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Learn more about California's offshore wind projects at [www.PacificOffshoreWind.org](http://www.PacificOffshoreWind.org)