The National Offshore Wind Research and Development Consortium (Consortium) is a nationally focused, independent, not-for-profit organization funded by the United States Department of Energy (DOE), the New York State Energy Research and Development Authority (NYSERDA), and led by key offshore wind industry stakeholders and research institutions. The Consortium is dedicated to managing industry-focused research and development of offshore wind to maximize economic benefits for the U.S.

**REDUCE COST AND RISK OF OFFSHORE WIND**

The goal of the Consortium is to prioritize, support, and promote research and development (R&D) activities that reduce cost and risk of offshore wind development projects throughout the U.S. while supporting U.S.-based manufacturing and the offshore wind supply chain.

**ADDRESS BARRIERS TO IMPLEMENTATION**

The Consortium will support initiatives that address specific barriers to implementing offshore wind in the U.S. Key elements of the Consortium’s approach include:

- Leadership by an independent board of directors made up of public and private sponsors including offshore wind developers, as well as representatives from U.S. national labs and utilities
- Establishment of diverse advisory groups made up of research partners, investors, manufacturers, and other key industry stakeholders
- Development of a prioritized, national research strategy for incorporating stakeholder input
- Research project awards through competitive solicitations
- Regular engagement with stakeholders and advisory groups
TECHNICAL SOLUTIONS TO REDUCE COST

The Consortium will prioritize research directly applicable to the technical barriers faced by offshore wind developers, original equipment manufacturers (OEMs), and the supply chain. Industry, academia, and national laboratories have been enlisted to support consortium initiatives targeting barriers that slow the adoption of offshore wind technologies, including cost. By working closely with end-users, the Consortium will identify and encourage the pursuit of technical solutions that reduce U.S. offshore wind levelized cost of electricity (LCOE)* and increase opportunities for the U.S. manufacturing and supply chain establishment.

Specific technical objectives are aligned with the 2016 National Offshore Wind Strategy published by the DOE and the Department of the Interior, and include:

- Advancing offshore wind plant technology and supporting innovations in wind plant design
- Developing innovative methods for wind power resource and site characterization to reduce siting and installation costs
- Exploring advanced technological solutions for operations, maintenance and supply chain development

MAJOR PARTICIPANTS

The Consortium will be formally established by the end of 2018. Initial major sponsors and participants include:

The United States Department of Energy (DOE) – the federal agency charged with ensuring the security and prosperity of the U.S. by addressing energy, environmental, and nuclear challenges through transformative science and technology solutions.

New York State Energy Research and Development Authority (NYSERDA) – a public benefit corporation that advances innovative energy solutions with extensive experience commercializing new technologies and spurring private investment.

The Advanced Energy Research Technology Center (AERTC) at Stony Brook University – a partnership of academic institutions, research institutions, energy providers and industrial corporations focused on efficiency, conservation, renewable energy and nanotechnology applications for new and novel sources of energy.

The Carbon Trust – a world leader in offshore wind R&D; founders and program managers of the Offshore Wind Accelerator, a self-sustaining European consortium to commercialize research investment.

Renewables Consulting Group (RCG) – a leading global renewable energy consultancy with decades of experience in the offshore wind industry in Europe, Asia, and America.

Building on successful European models, the consortium is engaging private sector support that will allow it to chart a path to financial self-sufficiency, so it can continue its work well beyond the initial four-year federal award period.

Learn more about offshore wind in New York State
nyserda.ny.gov/offshore-wind

* The Levelized Cost of Electricity (LCOE) is a metric used for comparing project revenue requirements with the value of electricity produced.