

The National Offshore Wind

Research and Development Consortium



THE
CONSORTIUM
WILL

PROMOTE
research and
development

REDUCE
cost and risk

MAXIMIZE
economic benefits

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.

In November 2018, the Consortium published its initial Research and Development Roadmap, establishing a long-term vision for offshore wind technology development focused on three research pillars:

- Offshore Wind Plant Technology Advancement
- Offshore Wind Power Resource and Physical Site Characterization
- Installation, Operations and Maintenance, and Supply Chain

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.

In addition to the U.S. DOE and NYSERDA, public sponsors of the Consortium include:

- **Virginia Department of Mines, Minerals and Energy (DMME)** – enhances the development and conservation of energy and mineral resources in a safe and environmentally sound manner to support a more productive economy.
- **Massachusetts Clean Energy Center (MassCEC)** – a state economic development agency dedicated to accelerating the growth of clean energy to deliver environmental benefits and secure long-term economic growth.
- **Maryland Energy Administration (MEA)** – a state energy agency that strives to promote affordable, reliable, and cleaner energy for the benefit of all Marylanders.

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.

nyserd.ny.gov/offshorewind

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

