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BUSINESS NETWORK *for*
OFFSHORE WIND



BUSINESS NETWORK FOR OFFSHORE WIND

FACT SHEET

WHO WE ARE

The Business Network for Offshore Wind (the Network) is a nonprofit organization solely focused on the development of the US offshore wind industry and advancement of its supply chain. As the authoritative voice for the offshore wind's business community, the Network brings together top developers, policymakers, global experts and more than 131 Member businesses for critical discussions and unprecedented networking opportunities.

MISSION & PURPOSE

The Network serves as an advocate for its Member business community by promoting and supporting policies that directly advance the offshore wind industry.

The Network is dedicated to building business across sectors into a coherent supply chain that supports all domestic wind farms and establishes the US as a global competitor in the offshore wind energy market.

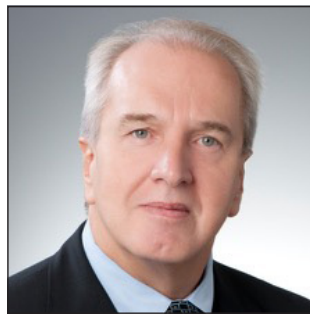
Our Members are empowered with the education, tools and connections to take a leading role and participate in the creation of this booming new industry.

SPOKESPEOPLE

Liz Burdock, Executive Director, and Ross Tyler, Strategy and Development. See bios on page 3 for additional background.

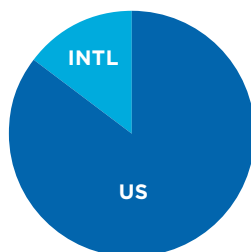


Liz Burdock, Executive Director



Ross Tyler, Strategy Development

MEMBER LOCATION



US | 119

INTERNATIONAL | 19

HISTORY

The Business Network for Offshore Wind started in 2012 as a group of companies in Maryland that shared with policymakers their combined vision of the benefits that offshore wind would bring to the business community.

The Network hosted its first annual International Offshore Wind Partnering Forum (IPF) in 2014. It has become the leading technical conference for offshore wind in the US.

In 2015, the Network Board of Directors voted unanimously to expand our scope beyond Maryland borders to focus on building a pipeline of offshore wind projects and stimulate collaboration across state boundaries to strengthen the US role in the evolving global offshore wind industry.

By request of the US State Department, the Network was invited to speak on behalf of the US offshore wind industry at the United Nations 2015 Climate Change Conference COP 21 in Paris.

The Network was a featured panelist at the first invitation-only White House Summit on Offshore Wind on September 28, 2015.

COLLABORATION & EDUCATION

The Network is proud to work with many cooperating partners such as the Maine Offshore Wind Initiative, US Bureau of Ocean and Energy Management, US Department of Commerce, National Renewable Energy Laboratory and United Kingdom Trade and Investment, along with state, regional, national and international agencies and organizations.

Through the annual IPF, international educational tours, exchanges with international governments, webinars and annual meetings, member businesses are empowered to establish and nurture relationships with developers, policymakers and economic development agencies that allow them to participate in and assure their position within the global offshore wind market.

These partnerships turn small companies into high performance teams that can offer high-quality, integrated services and products that are competitively priced for offshore wind energy generation.

OFFSHORE WIND ENERGY BENEFITS

SIGNIFICANT OPPORTUNITY FOR THE US

HARNESS PROVEN TECHNOLOGY: UNLEASH A POTENTIAL 2,058GW IN CLEAN ENERGY GENERATION

More than half (53%) of the US population lives within 50 miles from the coast with concentrations in major coastal cities, according to the National Oceanic Atmospheric Administration (NOAA).

The Department of Energy (DOE) reports 80% of the US energy demand is along the US coastline and a total offshore wind energy technical potential (2,058GW or 7,200 terawatt-hours per year) equal to about double the nation's annual demand for electricity.

Offshore wind speeds tend to be steadier than on land and therefore create a more reliable source of energy. Offshore wind is strongest midday to early evening, when energy is needed most by these load centers.

Small increases in wind speed yield large increases in energy production, and faster wind speeds offshore mean much more energy can be generated and disbursed throughout the grid. For example, a turbine in a 15-mph wind can generate twice as much energy as a turbine in a 12-mph wind.

Excess offshore wind energy has the potential for storage, which in turn can help improve the stability and resilience of the aging grid infrastructure and drive significant reductions in electricity price volatility.

LESSONS LEARNED: SIGNIFICANT REDUCTIONS IN OFFSHORE WIND ENERGY PRICES

Europe's offshore wind industry set a goal to achieve €100/MW by 2020, and in less than 12 months the price of offshore wind in Europe fell dramatically to 5.5¢/kWh and well ahead of target.

Germany accepted the first subsidy free offshore wind auction bid in April 2017. The four bids awarded had a weighted average of 0.44 cents per kilowatt hour for 1,490 MW in the North Sea. DONG Energy is developing three of the projects, one of which with a bid of 0.00 Euro cents per kilowatt-hour, and A/S Energie Baden-Wuerttemberg AG is developing the fourth project.

A new cost analysis study by National Renewable Energy Laboratory (NREL) forecasts that by 2025 offshore wind derived electricity costs in some areas of the US will be less than \$100/MWh.

In September 2016, Lawrence Berkeley National Lab released a study stating the cost of wind energy is expected to decline 24-30% by 2030 and 35-41% by 2050.

The study also found costs will fall due to larger and more efficient turbines, lower capital and operating costs and educated supply chain.

According to DOE, deployment of 86GW of offshore wind could support \$440M in annual lease payments to the US Treasury and \$680M in annual property tax payments.

SIGNIFICANT OPPORTUNITY: JOB CREATION AND ECONOMIC GROWTH

Offshore wind is a local interdependent economic development engine with international relevance.

Various trades in the supply chain required to build a wind farm include: planning, manufacturing, assembly, buildout, deployment, operations and maintenance.

The 2016 National Offshore Wind Strategy projects as many as 34,000 offshore wind jobs around the US by 2020, with that number expected to grow as high as 181,000 by 2050.

According to the DOE, deployment of 86GW of offshore wind has the potential to support 160,000 gross jobs.

America's first offshore wind farm, Block Island Wind Farm in Rhode Island, created more than 300 jobs.

There are eleven more wind energy areas in development amounting to 14.6GW of clean energy output, including commitments from New York, Massachusetts and Maryland to create a pipeline of 58,000 jobs through purchasing 5.46GW of offshore wind power.

ENVIRONMENTAL BENEFITS: LOW CARBON AND WATER CONSUMPTION FOOTPRINTS

Wind turbine operation is carbon neutral; low emissions emitted via manufacturing, construction and maintenance.

The DOE reports 86GW of offshore wind means a 1.8% reduction in cumulative greenhouse gas emissions equivalent to approximately 1.6B metric tons of CO₂-saving up to \$50B in avoided global damages.

The US could save \$2B in avoided mortality, morbidity and economic damages associated from cumulative costs reductions in sulfur dioxide, nitrogen oxides and fine particles.

Unlike fossil fuels and nuclear power plants, offshore wind has one of the lowest water consumption footprints.

NETWORK SPOKESPEOPLE

EXPERTS IN OFFSHORE WIND

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LIZ BURDOCK, EXECUTIVE DIRECTOR

Liz Burdock is the Executive Director of the Business Network for Offshore Wind, a national 501(c)3 nonprofit organization, dedicated to building the US offshore wind supply chain. Ms. Burdock has extensive experience running public/private partnerships.

Prior to joining the Network, she managed Partnership for Advancing Technology in Housing, a White House initiative, and the Chesapeake Crescent, a regional initiative aimed at growing a green economy in Virginia, Maryland and the District of Columbia. Her career is focused on convening and coordinating diverse stakeholders, including businesses, academics, government agencies, policy makers, community leaders, workforce organizations and strategic investors to develop sound solutions that facilitate the implementation of clean energy in the US.

Ms. Burdock is a 2015 graduate of Leadership Maryland, and was named to Windpower Monthly's 2018 list of Influential and Interesting leaders in the Offshore Wind Industry. | liz@offshorewindus.org



ROSS TYLER, STRATEGY & DEVELOPMENT

Ross Tyler provides Strategy and Development support to the Network. He has market development expertise, including a 10-year focus on renewable energy sectors specializing in offshore wind. His career has included management positions with both government and private organizations as well as directing programs that build partnerships spanning US and international relationships.

Previously, Mr. Tyler was principal consultant for IPF Consulting and further leveraged his marketing channels and supply chain experience in his subsequent roles as director for Delaware's Department of Business and Economic Development under Governor Ruth Ann Minner and director of clean energy under Maryland's Governor Martin O'Malley. Mr. Tyler spent two years working internationally with the Sustainable Energy Finance Initiative of the United Nations Environment Programme (UNEP) where he gained insights and experience into different national public funded practices in establishing renewable energy generation and the respective supply chains.

Mr. Tyler earned his BSc from the University of St. Andrews, Scotland, and his MBA from the University of Kent, UK. | ross@offshorewindus.org



MEDIA CONTACTS

The Business Network for Offshore Wind is happy to accommodate press interviews related to the IPF, Federal or State policies, and the overall development of the US offshore wind industry. We can also connect the press with members of the Network who are heavily involved in the offshore wind industry.

**William P. O'Hearn,
Business Network for
Offshore Wind**

Communications/Outreach
Manager
201.486.2034
william@offshorewindus.org

**Karen Hinton,
Fenton**

Chief Strategy Officer
212.584.5000 office
703.798.3109 mobile
karen@fenton.com

