

# CONSTRUCTION

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## BLOCK ISLAND WIND FARM CAPS OFF SUCCESSFUL FIRST OFFSHORE CONSTRUCTION SEASON



Deepwater Wind

The first offshore construction season is now complete in the U.S. for the nation's first offshore wind farm with all five steel jacket foundations fully installed at the Block Island Wind Farm site.

Construction crews installed the last deck platform on November 21, 2015. All of the construction and crew vessels associated with the operation have now demobilized from the site.

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“From the first ‘steel in the water’ in July to the last deck lift in November, we’ve completed a season of firsts — not only for the Block Island Wind Farm but also for the launch of a new American offshore wind industry,” said Deepwater Wind CEO Jeffrey Grybowski. “We are proud of the work we’ve accomplished so far, but we’ve only just begun, and 2016 will be a year to remember.”

“Rhode Island is proud to be home to the nation’s first offshore wind farm, and we’re quickly becoming a center of innovation in this growing industry,” said Rhode Island Governor Gina M. Raimondo. “With this project, we’re putting hundreds of our local workers to work at-sea and at our world-class ports to build a project that will help diversify Rhode Island’s energy mix and protect our environment. I applaud Deepwater Wind for their successful first offshore construction season, and I look forward to seeing the project fully operational and generating renewable energy in 2016.”

Over the course of the busy 18-week construction period, approximately 200 workers (100 of them local) and a dozen construction and transport barges, tugboats, crew ships, and monitoring vessels were active at the project’s port facilities and the wind farm site roughly 3 miles off the coast of Block Island.

More than 300 local workers will be involved with building the Block Island Wind Farm. Deepwater Wind is utilizing four Rhode Island ports — Block Island, Galilee, Quonset Point, and the Port of Providence — to complete construction and staging.

All construction activities were completed in accordance with strict environmental rules set by state and federal government agencies. In 2013, Deepwater Wind voluntarily agreed to a series of protective measures to minimize potential underwater noise impacts on North Atlantic right whales during wind farm construction.

“We are especially proud that our work was done while upholding very high environmental standards,” Grybowski said.

The focus this winter and spring now turns to turbine assembly and submarine cable installation work.

Deepwater Wind and GE are establishing a new temporary manufacturing facility at the Port of Providence for the assembly of turbine components. GE, which recently completed its acquisition of Alstom’s offshore wind unit, is supplying the 6-MW Haliade 150 offshore wind turbines for the Block Island Wind Farm. Approximately 60 local workers will be involved in this aspect of the project.

Over the next six months, GE will install the critical electrical, mechanical, and safety equipment within the bottom tower sections now at the Port of Providence with the remaining tower sections arriving in Rhode Island next year. (Each turbine tower consists of three sections with a total height of approximately 270 feet and a total weight of approximately 440 tons once assembled.)

The assembly activities at the Port of Providence will complement construction and staging work completed at Quonset Point in North Kingstown, Rhode Island. Fabrication of some of the foundation components was completed by local welders at Quonset’s Specialty Diving Services in early 2015, and the port continues to host construction work and vessel staging for the wind farm. Quonset will also host the project’s long-term operations and maintenance facility.

Submarine cable installation is scheduled to begin in the spring of 2016 with the erection of the five offshore wind turbines set for the summer of 2016. The project is scheduled to be in service and generating power in the fourth quarter of 2016. ↵

— Source: Deepwater Wind

For more information, go to [www.dwwind.com](http://www.dwwind.com).

## DUKE ENERGY RENEWABLES BLOWS INTO OKLAHOMA WITH 200-MW WIND PROJECT

Duke Energy Renewables recently announced that it is planning to build a large-scale wind power project in Oklahoma, the company’s first renewables project in the state.

When built, it will increase Duke Energy Renewables’ U.S. wind capacity to more than 2,000 MW.

Duke Energy Renewables will

build, own, and operate the Frontier Windpower Project sited in Kay County, which is east of Blackwell, Oklahoma. The 200-MW wind farm will produce enough emissions-free electricity to power approximately 60,000 homes.

“We’re investing heavily in renewable energy, and surpassing 2,000

MW of wind power is a significant accomplishment for our company,” said Greg Wolf, president of Duke Energy’s Commercial Portfolio. “We are excited to be working with the community and local landowners as we get our first project in this wind-rich state underway. The facility will help City Utilities meet its renewable



Duke Energy

Duke Energy Renewables U.S. Portfolio



energy goals while creating economic development opportunities for Kay County.”

The power will be sold to City Utilities of Springfield, Missouri, under a 22-year agreement.

“City Utilities is pleased to partner with Duke Energy on the Frontier Windpower Project,” said Scott Miller, general manager of City Utilities. “Providing a long-term renewable source of power generation in this changing market is critical to the future of utilities. We look forward to bringing this source online for our customers in the coming months.”

Construction is scheduled to accelerate in the first quarter of 2016, and the Frontier Windpower Project is expected to be operational by the end of the year. It will consist of 61 Vestas V126-3.3 MW wind turbines. Duke Energy Renewables has successfully partnered with Vestas on many of its Texas wind projects.

“We’re very pleased to continue building our excellent partnership with Duke Energy Renewables, one of the top wind players in the competitive U.S. market,” said Chris Brown, president of Vestas’ sales and service division in the U.S. and Canada. “By choosing the V126-3.3 MW turbine for the Frontier wind site, the order also showcases our product portfolio’s great flexibility across all wind sites, as the model provides highly competitive cost of energy in a traditional 2-MW turbine market.”

Amshore US Wind provided development support for the project, which will be built by Wanzek Construction.

— Source: Duke Energy Renewables



Duke Energy

For more information, go to [www.duke-energy.com/renewables](http://www.duke-energy.com/renewables).



## ACCIONA WINDPOWER TO SUPPLY TURBINES FOR BUILDING ENERGY'S FIRST U.S. WIND PROJECT



Acciona Windpower, an Acciona group subsidiary dedicated to the design, manufacture, and sale of wind turbines, has completed a turbine supply agreement with Building Energy, a multinational company operating as global integrated IPP in the renewable energy industry, for a 30-MW wind power project located in central Iowa. Under the agreement, Acciona Windpower will deliver 10 AW125-3000 turbines and provide operations and maintenance services to the project for 10 years.

Each of the turbines will have a rotor diameter of 125 meters and a 3-MW generator mounted on an 87.5-meter steel tower, a configuration designed

for maximum production at the lowest cost of energy. This project will expand Acciona Windpower's footprint in the U.S. to over 1,400 MW. Acciona Windpower will support the project from its North American headquarters in West Branch, Iowa.

"Acciona Windpower is proud to partner with Building Energy to further the growth of clean energy here in Iowa and around the globe," said Enrique Teruel, CEO of Acciona Windpower North America. "We are confident that Acciona Windpower's turbine technology will help make this project a success."

Building Energy is a global renewable energy company with experience in 24

countries worldwide. The Iowa project will be Building Energy's first wind farm in the U.S. It is expected to be online by November 2016 and will supply electricity to Alliant Energy.

"Building Energy is delighted to collaborate with Acciona Windpower, a major player in the wind power sector," said Andrea Braccialarghe, Building Energy managing director, USA. "We have chosen this company for their expertise and the performance of their turbines, which is a crucial factor for the project outcome." ↴

— Source: Acciona Windpower

For more information, go to [www.acciona.us](http://www.acciona.us).