

# MANUFACTURING

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## Siemens Gamesa to supply 752 MW to Dong Energy in the Netherlands



The Horns Rev 2 wind farm off the coast of Denmark was inaugurated by Dong in 2009. (Courtesy: Dong Energy A/S)

Siemens Gamesa and Dong Energy have signed an agreement\* for the supply of 94 8-MW turbines (752 MW) at the Borssele 1 and 2 offshore wind power plant being developed in Dutch waters. The contract additionally includes maintenance of the turbines.

The wind-power plant will be 22 kilometers from the coast of the Dutch province of Zeeland with a water depth of 14 to 38 meters and will cover an area of 128.3 square kilometers.

The nacelles for this project will be assembled in Siemens Gamesa's new factory in Cuxhaven, Germany. The blades for the Borssele 1 and 2 projects will be produced in Hull, England.

"We are pleased that Dong Energy has selected Siemens Gamesa for the Borssele 1 and 2 offshore wind-power plants in the Dutch part of the North Sea," said Michael Hannibal, CEO Offshore at Siemens Gamesa. "The advanced model of our proven direct drive offshore wind-turbine platform and our advanced services will leverage the energy output of this lighthouse project and help to move offshore wind into the energy mainstream in Europe."

The 8-MW turbine is based on the existing Siemens Gamesa offshore direct drive platform, which has an excellent track record. More than 200 direct-drive wind turbines in the 6- to 8-MW class already have been installed and commissioned in offshore wind farms.

The energy production of one Siemens Gamesa 8-MW machine is sufficient to supply about 8,000 European households with electricity. The power supplied from the 752-MW Borssele 1 and 2 projects will cover the annual electricity consumption of close to 1 million households.

Siemens Gamesa and Dong Energy have collaborated on several offshore wind farms including London Array, West of Duddon Sands and Westermost Rough in the United Kingdom, the Anholt project in Denmark, as well as Borkum Riffgrund 1 and Gode Wind 1 and 2 in German waters.

*\*These contracts are still subject to notice of effectiveness by Dong.* ↴

Source: Siemens Gamesa

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

## Vestas gets U.S. orders totaling 432 MW

### UNDISCLOSED PROJECT

Vestas has received a firm and unconditional order in the U.S. for 60 MW of V110-2.0 MW turbines for an undisclosed project. The project, which includes previously purchased PTC components, has a total size of 66 MW and consists of 30 turbines. The order includes supply and commissioning of the turbines as well as a multi-year Active Output Management 5000 (AOM5000) service agreement, a full-scope service package designed to maximize uptime and energy production. Delivery is expected to begin in the third quarter of 2017, with commissioning planned for the fourth quarter.

“Each turbine manufactured in this order will support 30 full-time jobs over its lifetime,” said Chris Brown, president of Vestas’ sales and service division in the United States and Canada. “These turbines will be produced at our Colorado factories, generating economic benefits across a diverse and domestic American supply chain and supporting long-term jobs in Colorado and the project community.”

### MIDAMERICAN ENERGY COMPANY

With reference to Vestas Wind Systems A/S’ company announcement in June, Vestas has received a firm and unconditional order from MidAmerican Energy Company, a subsidiary of Berkshire Hathaway Energy, for 170 V110-2.0 MW turbines for the Wind XI project. The order includes previously purchased PTC-qualifying components.

The turbines will be manufactured at Vestas’ Colorado factories and delivered in the second quarter 2018. The order includes supply and commissioning of the wind turbines, as well as a five-year Active Output Management 5000 (AOM5000) service agreement, Vestas’ full-scope service package maximizing



A Vestas V110-2.0 MW turbine. (Courtesy: Vestas)

uptime and energy production.

“The historic Wind XI project will deliver clean, low-cost wind energy to MidAmerican Energy’s customers and communities while enhancing the reliability and resiliency of the grid. Hundreds of millions of dollars in economic benefits, including landowner lease payments, tax payments, and long-term secure jobs, will be generated to support the manufacturing, construction and operation of this project,” Brown said.

MidAmerican Energy is the largest regulated utility owner of wind energy in the U.S. When fully operational, the Wind XI project will ensure the utility generates 85 percent of its retail energy load from wind. The Wind XI project consists of multiple sites in Iowa that will be placed into service between 2017 and 2019. Potential future order intake under overall agreement linked to the Wind XI project is expected to occur as partial deliveries under the master agreement, and will be announced firm and unconditional consistent with Vestas’ order announcement policy.

### COPENHAGEN WIND PROJECT

EDF Renewable Energy orders V110-2.0 MW turbines for the Copenhagen

Wind Project in upstate New York.

The firm and unconditional order comprises supply of the wind turbines as well as a 10-year Active Output Management (AOM) 5000 service agreement, a full-scope service package to maximize uptime and performance, and energy production. The project, which includes previously purchased PTC components, has a size of 80 MW and consists of 40 turbines. Turbine nacelles, blades, and towers will be produced at Vestas’ Colorado factories with delivery expected to begin in the third quarter of 2018. ↘

Source: Vestas

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

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