



Atlantic Wind Connection Bechtel Alstom

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Offshore Wind Transmission Project Selects Bechtel, Alstom to Build Historic Project

The Atlantic Wind Connection (AWC), developer of the New Jersey Energy Link, the first offshore backbone electricity transmission system proposed in the United States, will announce Thursday that it has selected major construction and design firm Bechtel as its Engineering, Procurement and Construction (EPC) Contractor and international power equipment supplier Alstom as its HVDC technical advisor for this first phase of the historic Atlantic Wind Connection project.

“Bechtel and Alstom are global leaders in the design and execution of complex power projects and both have successfully completed projects across the globe,” said Robert Mitchell, CEO of the Atlantic Wind Connection. “The quality of these industry leaders is a welcome addition to our team and they will play a significant role in the successful construction of the New Jersey Energy Link.”

The New Jersey Energy Link will be an offshore electrical transmission cable, buried under the ocean, linking energy resources and users in northern, central and southern New Jersey. The cable will span the length of New Jersey and when complete could carry 3,000MW of electricity (see attached graphic). The New Jersey Energy Link is expected to be built in three phases over a decade. The New Jersey Energy Link is expected to begin construction in 2016 and the first phase to be in service in 2019.

Bechtel will serve as EPC contractor for the first phase of the New Jersey Energy Link and will engineer, design, and install onshore transmission lines and substations: two onshore converter stations and one offshore converter station that will make up the New Jersey Energy Link backbone. Bechtel will also oversee the installation of advanced HVDC converter technology and high voltage DC cables to bring power from the offshore wind turbines to the onshore converter stations. The project will also improve the reliability of New Jersey’s power grid and help lower electricity prices by delivering both offshore wind and conventional electricity to where it is needed and when it is needed along the coast, whether that be southern, central or northern New Jersey.

“We are building a landmark high-capacity transmission superhighway that will deliver offshore wind energy to New Jersey using the most advanced technology available today,” said Toby Seay, president of Bechtel’s transmission business line. “Bechtel and Atlantic Wind Connection share a high commitment to hiring and training New Jersey workers for this project.”

Alstom will serve as the HVDC technical advisor for the project. In that capacity, Alstom will provide technical advice to the project, in particular, concerning the manufacture and delivery of the 320 kV HVDC multi-terminal system components. With their HVDC MaxSine™ Voltage Source Converters (VSC), they are one of only a few firms in the world versed in technology related to multi-terminal HVDC systems including the project’s plans to provide connections with a series of 1 GW offshore converter “hubs” to onshore converters. This multi-terminal HVDC offshore network will transform the 138 kV or 230 kV alternating current output from offshore wind farm electric service platforms into DC for transmission at 320 kV DC to onshore converters that will be connected to the PJM grid.

“We are very pleased that Alstom’s technical expertise will play an important role in this advanced New Jersey offshore wind energy transmission project,” said Patrick Plas, Senior Vice President, Alstom Grid. “Based on our proven capability to design, manufacture and supply large HVDC and HVAC projects and equipment worldwide we are confident we can provide the HVDC expertise required by the project. All of the Alstom teams involved in the Atlantic Wind Connection project are concentrated and dedicated to ensuring that the project will be one of the most technologically reliable electric transmission systems in the world and drive the shift to renewable energy in the USA.”

The Atlantic Wind Connection backbone transmission project is led by well-established independent transmission company Trans-Elect with Atlantic Grid Development as the project developer and Google, Bregal Energy, Marubeni Corporation and Elia as sponsors. The AWC backbone transmission project is an essential foundation to establishing the offshore wind energy industry.

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About Bechtel

Bechtel is among the most respected engineering, project management, and construction companies in the world. We stand apart for our ability to get the job done right—no matter how big, how complex, or how remote. Bechtel operates through five global business units that specialize in civil infrastructure; power generation, communications, and transmission; mining and metals; oil, gas, and chemicals; and government services. Since its founding in 1898, Bechtel has worked on more than 22,000 projects in 140 countries on all seven continents. Today, our 53,000 employees team with customers, partners and suppliers on diverse projects in nearly 50 countries. www.bechtel.com



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About Alstom

Alstom is a global leader in the world of power generation, power transmission and rail infrastructure and sets the benchmark for innovative and environmentally friendly technologies. Alstom provides turnkey integrated power plant solutions and associated services for a wide variety of energy sources, including hydro, nuclear, gas, coal and wind, and it offers a wide range of solutions for power transmission, with a focus on smart grids. Alstom Grid has over 130 years of expertise in electrical grids. Alstom Grid ranks among the top 3 in electrical transmission sector and has 20,000 employees at over 90 manufacturing and engineering sites worldwide. At the heart of the development of Smart Grid, Alstom Grid offers products, services and integrated energy management solutions across the full energy value chain—from power generation, through transmission and distribution grids and to the large end user. www.alstom.com

About Bregal Energy

Bregal Energy (formerly known as Good Energies Capital) is a private equity fund that invests broadly across the North American energy industry. Bregal Energy's focus includes the oil & gas E&P, midstream, power generation, renewables, transmission and related energy services sectors. Bregal Energy's investment team has deep energy investing experience and an extensive industry network. The fund focuses on individual investments between \$15 million and \$75 million in both control and non-control opportunities. Bregal Energy is part of Bregal Investments. www.bregalenergy.com.

About Eurogrid International (Elia)

Elia System Operator NV/SA ("Elia") is the Belgian transmission operator and is Eurogrid International's major shareholder. Eurogrid International is the mother company of 50Hertz, one of four German TSO's with a strong and proven experience in the integration of renewable energy services in the EU grid. 50Hertz together with the Danish TSO have recently joined forces to build the first connection between three wind farms in the Baltic Sea; two of these connected to AC to Germany, and one in DC to Denmark. Elia owns, operates and develops the entire Belgian very high voltage grid and some 94% (ownership and user rights) of the Belgian high-voltage grid down to 30 kV. Elia's grid comprises 3,485 miles of overhead lines and 1,725 miles of underground connections and is a key link between electricity markets in northern and southern Europe. Belgium's recent investment in interconnection capacity with its neighbors makes it one of the most open an interconnected grids in Europe. Elia is designing the first hub in the North Sea for the interconnection of up to seven wind farms with a total capacity of 2,300MW. Elia has recently expanded its activities on a broader European level and, following its acquisition of German TSO 50Hertz in cooperation with Industry Funds Management ("IFM"), is now one of the top five transmission operators in Europe. www.elia.be



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About Google

Google is a global technology leader focused on improving the ways people connect with information. Google's innovations in web search and advertising have made its website a top Internet property and its brand one of the most recognized in the world. www.google.com/green/

About Marubeni Corporation

Marubeni Corporation is a publicly listed trading house ("Sogo Shosha") founded in 1858 with its principal office in Tokyo, Japan. Its divisions participate in industries ranging from power and energy to industrial machinery and transportation to foodstuffs and consumer items. Marubeni Corporation owns electric transmission and distribution assets in the Caribbean and Australia and has 8,900MWs of net power plant capacity globally, including power stations in several U.S. states. Marubeni manages its electricity sector investments in North America through Marubeni Power International, Inc., based in New York, NY. www.marubeni.com



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