



## **Nordsee One successfully installs foundation of offshore substation**

- Jacket foundation weighing more than 1,400 tons successfully placed on sea bed; substation topside is planned to follow this summer
- Installation of inter-array cables to begin in June
- Commissioning of the 332 megawatt wind farm anticipated in 2017

*Essen, 10 May 2016*

**Yesterday the installation team successfully installed the foundation of the offshore substation at the Nordsee One construction site, located approximately 40 km north of the island of Juist. The foundation, which weighs more than 1,400 tons, traveled from Aalborg in Denmark; from there it was a five day journey across the North Sea, to the port of Eemshaven in the Netherlands. After loading the piling hammer, the foundation was transported to the Nordsee One construction site, where a floating crane placed the heavyweight jacket foundation onto the sea bed. The 50-meter tall foundation was anchored with four piles on the four pedestals in the bottom of the sea. Each pile has a weight of over 240 tons and a length of over 67 meters.**

Tim Kittelhake, Managing Director (COO) of Nordsee One GmbH explained: "The offshore substation will comprise the upper part - the topside - with a weight of approximately 2,200 tons, and the lower part, the jacket foundation, we have installed on schedule yesterday – thanks to the strong cooperation between our team and partners".

Pierre Lestienne, Managing Director (CFO) of Nordsee One GmbH added: "In June, we will begin the installation of the inter-array cables, and this summer we will install the heart of the wind farm, the substation topside. The topside is a steel building with four levels; it will house the grid transformers, switchgear and auxiliary power supply for lights, safety systems and data and control system."

The offshore substation will transform the electricity generated by the 54 wind turbines at 33 kV to a transmission voltage of 155 kV. Submarine high-voltage cables then transmit the electricity to Dolwin Beta converter station of the grid operator where the AC voltage is transformed to 250 kV DC voltage and transmitted to the nearest grid access point at Hagermarsch. Once installed, the substation will be the nerve center of the Nordsee One wind farm. Bladt Industries has been awarded the contract for the design, fabrication, installation and commissioning of the offshore substation. They also has produced and delivered the jacket foundation.

The completed Nordsee One wind farm will consist of 54 wind turbines with an overall installed capacity of 332 megawatts. Once commissioned in 2017, the wind farm is expected to produce an annual output of more than 1,300 gigawatt-hours of electrical energy, enough to supply the equivalent of some 400,000 German households. Nordsee One is owned by Northland Power Inc. (85%) and RWE International SE (15%).

*Find more information about the Nordsee One offshore wind farm on our website:*  
[www.nordseeone.com](http://www.nordseeone.com)

**For further information:**

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**ABOUT NORTHLAND**

Northland is an independent power producer founded in 1987, and publicly traded since 1997. Northland develops, builds, owns and operates facilities that produce 'clean' (natural gas) and 'green' (wind, solar, and hydro) energy, providing sustainable long-term value to shareholders, stakeholders, and host communities. The Company owns or has a net economic interest in 1,338 MW of operating generating capacity and 1,032 MW (692 MW net to Northland) of generating capacity under construction, including a 60% equity stake in Gemini, a 600 MW offshore wind project, and an 85% equity stake in Nordsee One, a 332 MW offshore wind project, both located in the North Sea; as well as a 100 MW onshore wind farm in Grand Bend, Ontario currently in construction. Northland's cash flows are diversified over four geographically separate regions and regulatory jurisdictions in Canada and Europe. Northland's common shares, Series 1, Series 2 and Series 3 preferred shares and Series B and Series C convertible debentures trade on the Toronto Stock Exchange under the symbols NPI, NPI.PR.A, NPI.PR.B, NPI.PR.C, NPI.DB.B, and NPI.DB.C, respectively.

**About RWE International SE**

RWE International SE (provisional name) reflects the energy world of the future with its business fields of Renewables, Grids and Retail. The company is playing an active role in shaping the transition of European energy markets. It is currently investing in the expansion of renewables and the modernisation of its grids. At the moment RWE International is also exploring additional market opportunities that have opened up as new customer needs become apparent. At the same time, the company is developing new products and business models and is investing in promising start-up companies. RWE International is also utilizing its expertise in selected markets outside Europe, e.g. in the MENA region (Middle East and North Africa) and California.

**About RWE International SE – Renewables**

We develop, build and operate plants for renewable energy generation and energy extraction. We aim to rapidly expand renewables in Europe, both using our own resources and with partners. Together, we can make the energy transition a success. We are particularly strongly represented at the moment in our home market Germany, followed by the UK, Spain, the Netherlands and Poland. In Offshore wind power, RWE is currently among the top five companies worldwide in terms of capacity. And in Onshore wind, we are currently one of the largest operators in Europe, with an installed capacity of over 2,000 megawatts. Our current focus is on further expanding the key business fields of onshore and offshore wind power and working to strengthen our hydropower portfolio. In addition, we are also looking to enter new markets and technologies, e.g. large-scale photovoltaic power plants.

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