



## Wedding on the high seas: Substation for Nordsee One offshore wind farm successfully installed

- 2,100 ton substation platform successfully placed on foundation
- The system will now be connected with the export cables and the inter-array cables
- Turbine installation is expected for early 2017
- Commissioning of the 332 megawatt wind farm anticipated in 2017

*Hamburg, 14 July 2016*

**Nordsee One offshore wind farm celebrates a wedding: This is the construction term used for the process of marrying a substation platform to its foundation. With the offshore transformer substation, transformer and all associated electrical components now completed, the project, located approximately 40 km north of the island of Juist, is celebrating another milestone.**

The three-day journey of the substation began in Aalborg, Denmark. Upon arrival a floating crane placed yesterday the heavyweight substation onto the 50-meter tall foundation. The 2,100 ton substation is the heaviest component of the offshore wind farm.

Tim Kittelhake, Managing Director (COO) of Nordsee One GmbH noted: "The heart of the wind farm has now been installed. Comprising four levels, the substation is a steel building that houses the project's grid transformers and switchgears, as well as the auxiliary power supply for the safety systems, lights, and data and control system. Our thanks to Bladt Industries, who developed and built the substation over the past 18 months."

The structure extends approximately 40 meters above sea level. A helicopter landing platform on the top deck of the substation allows all-weather access to the platform for operation and maintenance work.

Matthias Esken, Package Manager for the substation added: "I'm glad to report that the design and fabrication phase was successfully completed on schedule. With installation complete, we are now in the process of offshore commissioning with our suppliers Bladt Industries and Semco Maritime, out of our base harbor in Norderney. Looking ahead, in the upcoming weeks the grid operator, TenneT's export cables and the inter-array will be installed. We will then commission all of the systems, so that we under current planning are ready in autumn for the connection of the wind turbines, which we plan to install early 2017."

The 54 turbines will be connected to the offshore substation by ten strings of cables, with an overall length of approximately 70 kilometres – a longer distance than the length of the Eurotunnel, which connects the UK with Continental Europe. 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 will then transmit the electricity to the grid operator's converter station, where the AC voltage is transformed to 320 kV DC voltage and transmitted to the nearest grid access point at Hagermarsch.

Once completed, Nordsee One wind farm is planned to consist of 54 wind turbines with an overall installed capacity of 332 megawatts. Under current planning full commissioning of the wind farm is anticipated in 2017. 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)

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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 1,394 MW of operating generating capacity and 932 MW (642 MW net to Northland) of generating capacity under construction, including a 60% equity stake in Gemini, a 600 MW offshore wind project, also located in the North Sea. 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 (innogy)**

RWE International SE (innogy) is one of the leading European energy companies. With its three business areas of Renewables, Grid & Infrastructure as well as Retail, it addresses the requirements of a modern, decarbonised, decentralised and digital energy world. The focus of RWE International SE (innogy)'s activities is on offering existing and potential customers innovative and sustainable products and services which enable them to use energy more efficiently and improve their quality of life. The key markets are Germany, the United Kingdom, the Netherlands, Belgium and several countries in Central Eastern and South Eastern Europe, especially the Czech Republic, Hungary and Poland. In renewable power generation, the company is also active in other regions, e.g. Spain and Italy. The new subsidiary of RWE AG started operations on 1 April 2016. On 29 June 2016, the name of the European stock company was announced: innogy. The new name is expected to

take formal effect as of September 2016, at which time the company as well as its products and services will be gradually rebranded. Until then, the subsidiary will continue under the name RWE International SE. The innogy brand name is a symbiosis of the terms innovation, energy and technology. Based on the combined financial statements for 2015, the company would have a revenue of around €46 billion and an EBITDA of €4.5 billion. The company is expected to employ around 40,000 out of a total of around 60,000 employees of the RWE Group once the restructuring process has been completed. Further information: [www.innogy.com](http://www.innogy.com)

## **RENEWABLES**

We plan, build and operate plants to generate power and extract energy from renewable sources. We aim to rapidly expand renewables in Europe, both on our own and with partners. In this way, we can work together to make the energy transition a success. Currently, we are particularly strongly represented in our home market, Germany, followed by the United Kingdom, Spain, the Netherlands and Poland. In offshore wind, innogy is currently number three in Europe by installed capacity. In onshore wind too, we are currently one of the largest operators in Europe. At the moment we are focussing on continuing to expand our activities in onshore and offshore wind power as well as reinforcing hydro-electric power generation. In addition, we are looking at entering new markets and technologies, such as large-scale photovoltaic plants, also possibly beyond our core European markets.