

## Press Release

**Northland Deutsche Bucht GmbH**  
PALAISHAUS  
Neuer Wall 88  
20354 Hamburg  
Headquartered in Hamburg, AG Hamburg HRB  
128446  
Managing Director: Florian Würtz

### **Successful installation of substation in offshore wind farm Deutsche Bucht**

#### **More than one billion kilowatt hours of wind power contributing to the energy transition**

HAMBURG, 04 April 2019 – On Tuesday, the heart of the 269 MW North Sea wind farm Deutsche Bucht was installed: the offshore substation. “With the installation of the offshore substation completed, we have once more accomplished another milestone on schedule,” says Jens Poulsen, Project Director at Northland Deutsche Bucht GmbH. “In the future, this offshore substation will convert the power generated by our 33 turbines, transforming it from 33 to 155 kilovolts for further transmission.” Once completed, Deutsche Bucht’s 8.4 MW turbines are expected to produce an annual output of more than 1.1 billion kilowatt-hours of energy, supplying approximately 328,000 households with power. “With our offshore wind farm Deutsche Bucht, we are making another contribution to the expansion of renewable energy and supporting the global energy transition,” Poulsen adds. Deutsche Bucht is the third offshore wind farm located in the North Sea for Canada-based independent power producer Northland Power.

The general contractor Van Oord was responsible for the manufacturing and installation of the offshore substation. Both the jacket foundation and topside platform were built in Vlissingen, Netherlands. Two transport barges towed both components to the construction site, located about 100 kilometres from the German mainland in the German Exclusive Economic Zone. The heavy lift vessel Seaway Strashnov first anchored the jacket in the seabed, and then lifted the roughly 2,700-ton topside onto the foundation. The unmanned offshore substation houses all the electrical equipment needed to directly transform the electricity from the turbines to a higher voltage. From there, the power will be transported to the converter station BorWin beta, owned by the grid operator TenneT, who will convert the alternating current (AC) to direct current (DC) to lower the loss of power when transporting the energy to shore.

The next construction phase, the installation of inter-array cabling, is scheduled to start this spring. The wind turbines will be installed and begin operation over the course of the summer months. By the end of 2019, all 33 of Deutsche Bucht’s turbines will be fully operational.

#### **ABOUT WIND FARM DEUTSCHE BUCHT**

The Deutsche Bucht offshore wind farm will be constructed about 95 kilometres to the northwest of the North Sea island of Borkum in Germany’s Exclusive Economic Zone (EEZ). The power plant with 33 wind turbines of type V164-8.4 by MHI Vestas will provide a grid capacity of close to 269 megawatts. Included in this, as part of a tender by the German Federal Network Agency (BNetzA), an additional 16.8 megawatts was allocated for two pilot wind turbines with the innovative Mono Bucket type of foundation. The Federal Maritime and Hydrographic Agency of Germany (BSH) granted its approval for this pilot project on 8 May 2018. In the future, the offshore wind farm with 33 turbines will generate annually after



**DEUTSCHE  
BUCHT**

deductions approximately 1.1 billion kilowatt-hours of eco-friendly electricity. This means the Deutsche Bucht wind farm will supply renewable energy equivalent to the annual demand of 328,000 households with an average of 3,440 kilowatt-hours each. Construction of the wind farm commenced in summer 2018. Completion of the commissioning phase is planned by the end of 2019. The offshore wind farm Deutsche Bucht is being built by the project company Northland Deutsche Bucht based in Hamburg, which is 100 per cent owned by Canada-based power producer Northland Power Inc. For further information refer to [www.owf-deutsche-bucht.de](http://www.owf-deutsche-bucht.de).

#### **ABOUT NORTHLAND POWER INC.**

Northland Power 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 an economic interest in 2,429 MW (net 2,014 MW) of operating generating capacity and 269 MW of generating capacity under construction, representing the Deutsche Bucht offshore wind project in the North Sea, in addition to its 60% equity stake in the 1,044 MW Hai Long projects under development in Taiwan.

Northland's common shares, Series 1, Series 2 and Series 3 preferred shares and Series C convertible debentures trade on the Toronto Stock Exchange under the symbols NPI, NPI.PR.A, NPI.PR.B, NPI.PR.C and NPI.DB.C, respectively. For further information, refer to [www.northlandpower.com](http://www.northlandpower.com).

#### **Contact**

Northland Deutsche Bucht Press Office  
c/o schwarz communications UG  
i.A. Bettina Schwarz, Nicola Berkowitz  
Email: [media@owf-deutsche-bucht.de](mailto:media@owf-deutsche-bucht.de)  
Telephone: +49-40- 22860331  
[www.owf-deutsche-bucht.de](http://www.owf-deutsche-bucht.de)

**DEUTSCHE  
BUCHT**