

## Press Release

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### **Deutsche Bucht offshore wind farm supplies first power to the grid**

HAMBURG, July 29, 2019. – Northland Deutsche Bucht GmbH confirmed today that the first turbine at its 269 MW Deutsche Bucht offshore wind farm, has been successfully commissioned and is delivering power to the German grid.

“This is a great achievement for our Deutsche Bucht project,” said Jens Poulsen, Project Director of Northland Deutsche Bucht GmbH. “The rapid progress on installation and commissioning was made possible by the dedication of our team, combined with excellent cooperation by all partners, especially the grid operator and the BSH licensing authority,” Poulsen remarked.

Installation of the 33 turbines began earlier this year and all turbines are expected to be delivering energy to the grid by the end of 2019, as per schedule. Once operational, Deutsche Bucht will produce 1.1 billion kilowatt hours of eco-friendly energy each year, meeting the demand of approximately 328,000 households. The renewable energy produced by Deutsche Bucht will save 740,000<sup>1</sup> tonnes of greenhouse gas emissions.

“Northland prides itself on delivering projects on time and on budget. Achieving these goals is a significant accomplishment and a testament to our Deutsche Bucht project team and its partners,” noted Mike Crawley, President and CEO of Northland. “We look forward to adding 269 MW to our existing portfolio of offshore wind capacity in Germany and are proud to support the German government in their efforts to create a more sustainable future through the continued transition to cleaner and greener energy.”

### **Final work at the wind farm is progressing rapidly**

Installation of the turbines began in early June; as of today, 21 of the turbines have been installed by the turbine manufacturer, MHI Vestas Offshore Wind. The final fabrication on the two innovative Mono Bucket foundations is currently ongoing at Bladt Industries facilities at Lindoe, Denmark. Installation and cabling for the two Mono Bucket foundations and their turbines is planned for the fourth quarter. All 33 turbines are expected to be operational by the end of 2019.

Over the past few weeks, the installation and testing campaign for over 40 kilometres of internal cable was completed. The offshore substation of the wind farm was also successfully handed over to Northland by the Balance of Plant contractor Van Oord. The offshore substation had already been connected to the offshore converter station BorWin beta of grid operator TenneT, enabling the turbines to produce power. TenneT made a partial grid supply possible by connecting the first of the two 155-kilovolt export cables; a complete connection to the German high-voltage grid will occur later this year. Once all turbines are successfully installed, Deutsche Bucht will have an array of 33 turbines, each outputting 8.4 MW (megawatts) of power.

<sup>1</sup> Calculation of saved CO<sub>2</sub> emissions is based on calculations by the German Federal Environment Agency (UBA) published in "Emissions balance of renewable energy sources. Determination of avoided emissions in 2017." ([Emissionsbilanz erneuerbarer Energieträger. Bestimmung der vermiedenen Emissionen im Jahr 2017](#)). The UBA defines a specific avoidance factor for offshore wind of 675g CO<sub>2</sub> equivalent per kilowatt hour of electricity generated.

#### **ABOUT DEUTSCHE BUCHT OFFSHORE WINDFARM**

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 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 Northland Deutsche Bucht based in Hamburg, which is 100 per cent owned by 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 sustainable infrastructure assets that produce 'clean' (natural gas) and 'green' (wind, solar, and hydro) energy, providing stable 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 399 MW of generating capacity under construction, representing the Deutsche Bucht offshore wind project in the North Sea and the La Lucha solar project in Mexico, 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).

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