

Established in 2014 on decades of experience Delivering affordable offshore wind power

- A joint venture between two industry leaders: Vestas Wind Systems A/S (50%) and Mitsubishi Heavy Industries Ltd (50%)
- Founded 1 April 2014, now employing ~3,000
 employees
- Sole focus on offshore wind
- Our business is to design, manufacture, install and service wind turbines
- Our approach is truly collaborative we aim to create strong partnerships with customers, suppliers and other stakeholders in the industry





Our Track Record ~ 4.2 GW Installed

1,147 turbines installed across 30 projects, ~3.6 GW under service



10 x V39-500 kW (5 MW) Npower Renewables Denmark, 1995

IRENE VORRINK

28 x NEG Micon 600kW (16,8 MW) NUON (Vattenfall) Netherlands, 1996

BOCKSTIGEN

5 x Windworld 550 kW (2,75 MW) Vindkompagniet (Vattenfall) Sweden 1997

YTTRE STENGRUND

5 x NEG Micon 2MW (10 MW) Vindkompagniet (Vattenfall) Sweden 2001

HORNS REEF

80 x V80-2.0 MW (160 MW) Vattenfall, Ørsted Denmark, 2002

SCROBY SANDS

30 x V80-2.0 MW (60 MW) E.ON, United Kingdom 2004

NORTH HOYLE*

30 x V80-2.0 MW (60 MW) Npower Renewables United Kingdom, 2004

KENTISH FLATS *

30 x V90-3.0 MW (90 MW) Vattenfall, United Kingdom 2005

BARROW*

30 x V90-3.0 MW (90 MW) Ørsted, United Kingdom 2006

EGMOND AAN ZEE

36 x V90-3.0 MW (108 MW) Shell, NUON Netherlands, 2006

PRINCESS AMALIA *

60 x V80-2.0 MW (120 MW) Q7 Holding, Netherlands 2007

SPROGOE*

7 x V90-3.0 MW (21 MW) Sund & Baelt, Denmark 2009

ROBIN RIGG

60 x V90-3.0 MW (180 MW) E.ON, United Kingdom 2009

BELWIND 1 *

55 x V90-3.0 MW (165 MW) Belwind N.V., Belgium 2010

THANET *

100 x V90-3.0 MW (300 MW) Vattenfall, United Kingdom 2010

WINDFLOAT

1 x V80-2.0 MW (2 MW - floating) Windplus, Portugal 2011

KAAREHAMN*

16 x V112-3.0 MW (48 MW) E.ON, Sweden 2013

NORTHWIND*

72 x V112-3.0 MW (216 MW) Northwind N.V., Belgium 2013

HUMBER GATEWAY *

73 x V112-3.0 MW (219 MW) E.ON, United Kingdom 2014

KENTISH FLATS EXT*

15 x V112-3.3 MW (50 MW) Vattenfall, United Kingdom 2015

ENECO LUCHTERDUINEN*

43 x V112-3.0 MW (129 MW) Eneco, Mitsubishi Netherlands, 2015

MAADE *

2 x V164-8.0 MW (16 MW) European Energy Denmark, 2016

BURBO BANK EXT*

32 x V164-8.0 MW (254 MW) Ørsted, United Kingdom 2017

NOBELWIND*

50 x V112-3.3 MW (165 MW) Parkwind, Belgium 2017

BLYTH*

5 x V164-8.3 MW (41,5 MW) EDF Energy Renewables United Kingdom, 2017

RAMPION*

116 x V112-3.45 MW (400 MW) E.ON, United Kingdom 2017

WALNEY EXT *

40 x V164-8.25 MW (330 MW) Ørsted, United Kingdom 2017

ABERDEEN BAY*

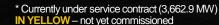
9 x V164-8.4 MW 2 x V164-8.8 MW (92.4 MW) Vattenfall, UK, 2018

BORKUM RIFFGRUND 2*

56 x V164-8.3 MW (450 MW) Ørsted, Germany 2018

HORNS REEF 3*

49 x V164-8.3 MW (406 MW) Vattenfall, Denmark 2019



Our Pipeline

3,431.5 MW of firm orders, in line to supply 2 GW +

Under Installation / Unconditional Orders

NORTHER

44 x V164-8.4 MW (370 MW) Norther NV, Belgium 2019

DEUTSCHE BUCHT

31 x V164-8.4 MW (252 MW) British Wind Energy, Germany 2019

NORTHWESTER 2

23 x V164-9.5 MW (224 MW) Parkwind, Belgium 2019

BORSSELE III/IV

77 x V164-9.5 MW (731,5 MW) Consortium, Netherlands 2020

BORSSELE V

2 x V164-9.5 MW (19 MW) Consortium, Netherlands 2020

TRITON KNOLL

90 x V164-9.5 MW (860 MW) Consortium, United Kingdom 2021

WINDFLOAT ATLANTIC

3 x V164-8.4 MW (25 MW) Consortium, Portugal Not disclosed

MORAY EAST

100 x V164-9.5 MW (950 MW) Consortium, United Kingdom 2022

Conditional Orders

VINEYARD WIND

Preferred Supplier

84 x V164-9.5 MW (800 MW) Consortium, USA 2021

ZONE 27

Turbines not disclosed (100 + 452 MW) CIP, Taiwan 2021 + 2023

BALTIC EAGLE

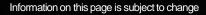
52 x V174-9.5 MW (476 MW) Iberdrola, Germany 2022

ZONE 29

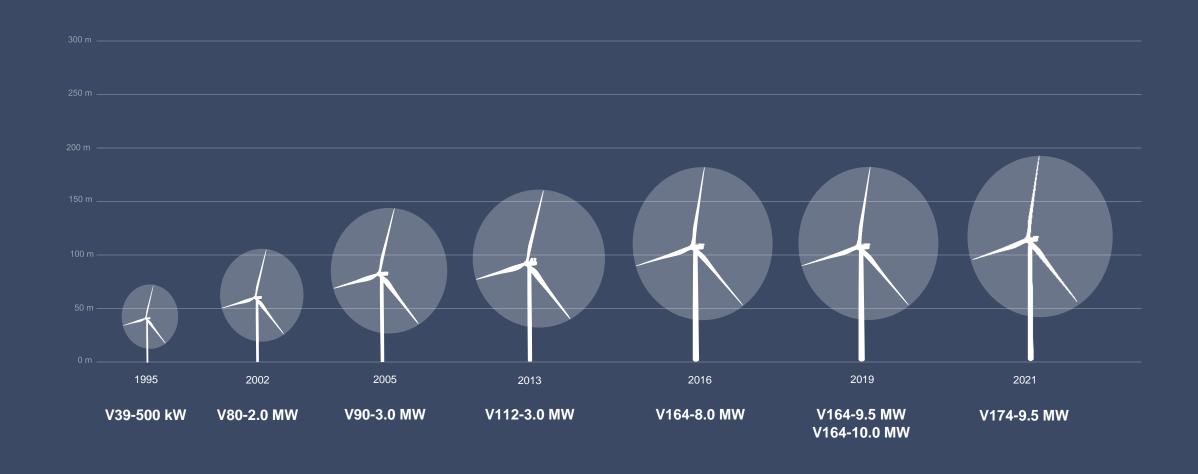
Turbines not disclosed (300 MW) CSC, Taiwan 2024

XI DAO

Turbines not disclosed (48 MW) CIP, Taiwan 2024



Innovation and performance improvement. From an on-shore turbine to a purpose build offshore turbine



A look at turbine development Tunoe Knob vs Walney Extension



Tunoe Knob, DK 1995 10 x V39-500kW

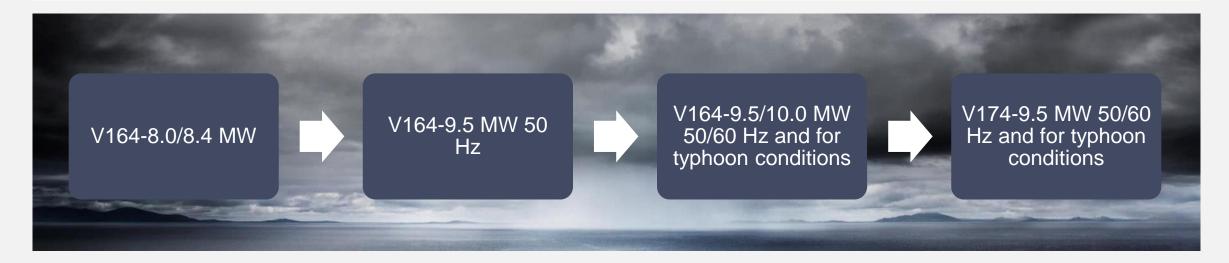


Walney Extension, UK 2017 40 x V164-8.0 MW

9 MW Platform

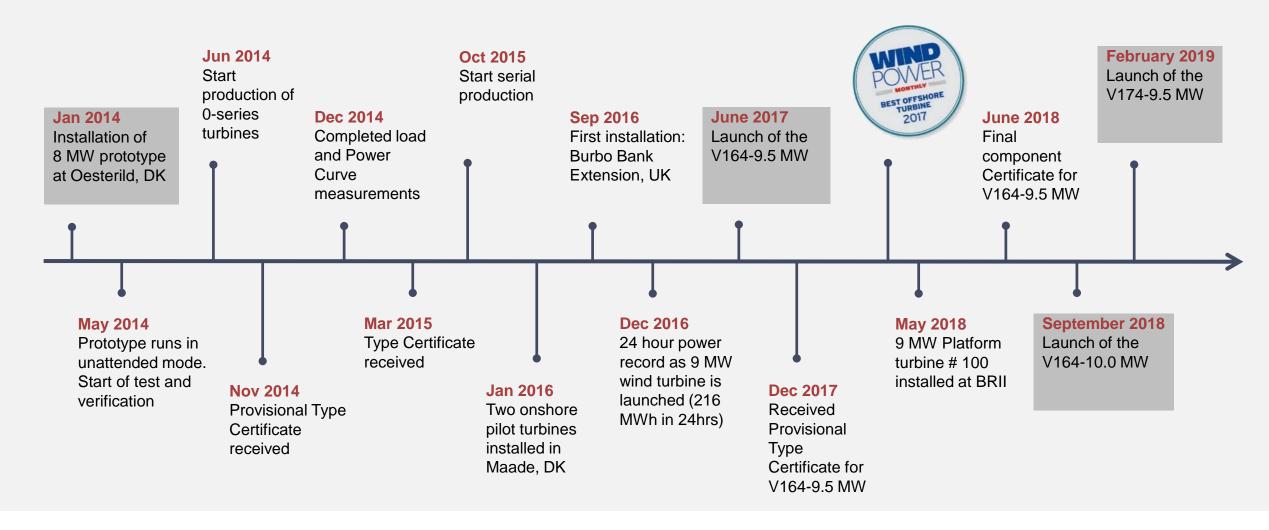
Controlled product development based on initial platform development and incremental steps

- We are **building on the experience** from our V164-8.0/8.4 MW WTG since 2014
- Product optimisations are introduced in **incremental steps**, enabling us, our customers, banks and advisors to **benefit from the Type Certification** of the V164-8.0 MW
- The track record and field experience makes the V164-9.5/10.0 MW WTG a low risk choice
- V164-9.5/10.0 MW 50/60 Hz and IEC T (60 Hz version type certificate received in May 2019)
- V174-9.5 MW 50/60 Hz is a new variant based on same platform design, also IEC T



9 MW Platform development history

From 8.0 MW to 10.0 MW in 4 years – proven concept, commercially available



The first double digit commercial offshore wind turbine

The V164-10.0 MW™ is commercially available, and ready for installation from 2021

- Built on proven technology with a strong track record from the 9 MW Platform family
- More than 200 V164 turbines have already been installed
- Minor upgrades required:
 - a stronger gearbox
 - minor mechanical upgrades
 - a small design change to enhance air flow and increase cooling in the converter
- Upgrades ensure the V164-10.0 MW can run at full power, at a site with wind speeds of 10 m/s, for 25 years



Our largest rotor and IEC T class turbine introduced

The V174-9.5 MW™ is commercially proven and ready for the Vietnamese market

- Built on proven technology with a strong track record from the 9 MW Platform family
- Minimal design changes required
- Designed to operate in areas prone to tropical storms with extreme wind speeds (IEC T)
- Configured to **50Hz** operation
- Accommodating international norms on legislation and design standards – ready to adapt to local standards as they develop

