



# Danske Bank – Offshore Wind Energy Seminar

Morten Buchgreitz

08 March 2023

# Agenda

Offshore in Vestas

---

Manufacturing footprint

---

Commercial pipeline

---

The V236 platform & prototype

---

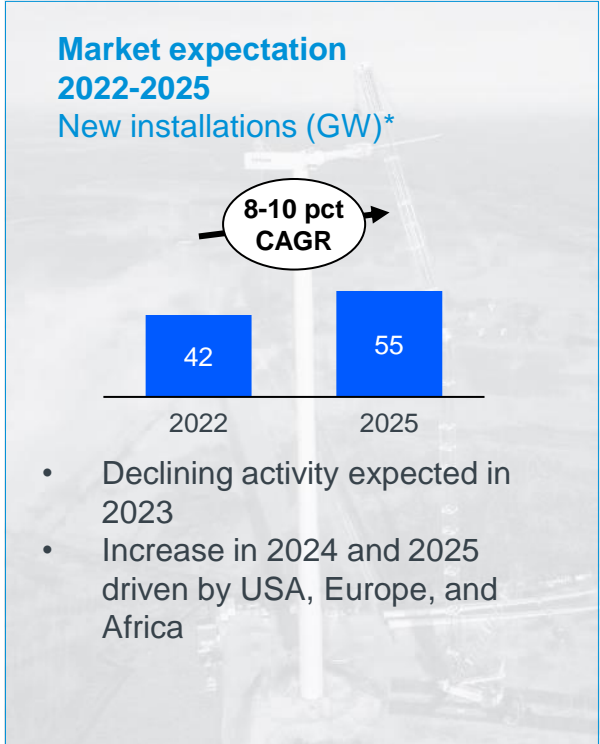
**Q&A**

---


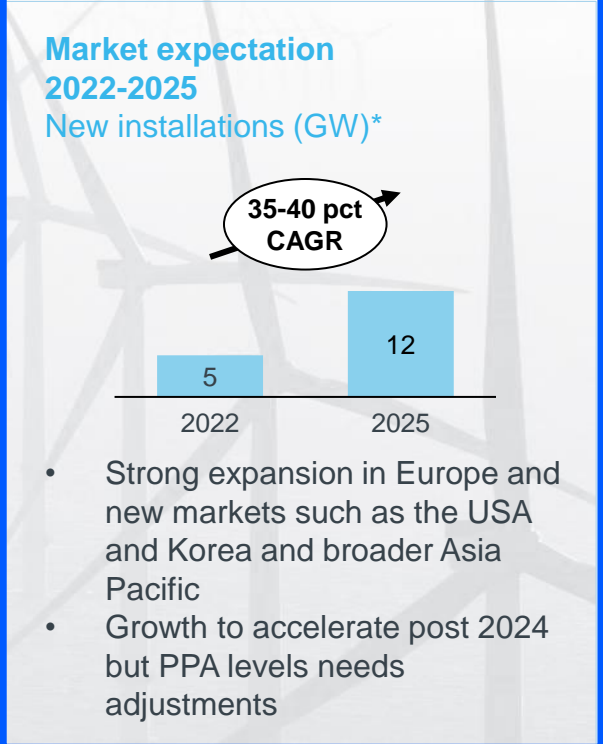
# Our Portfolio – Offshore as one of the attractive growth drivers

Vestas uniquely positioned in the industry

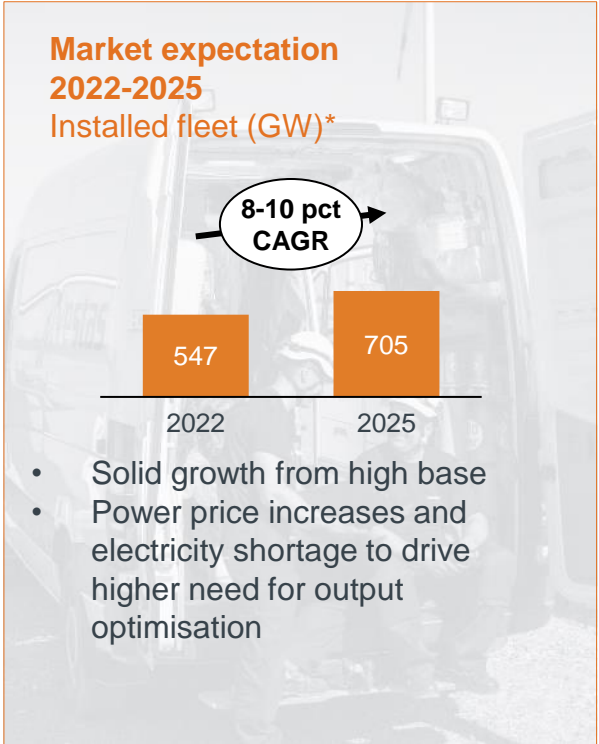
**ONSHORE**  
Restarting growth

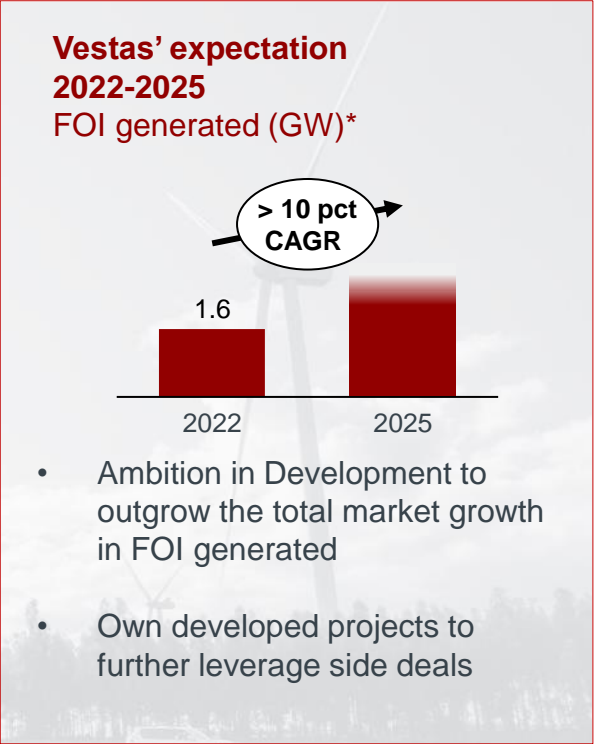
**OFFSHORE**  
Global expansion

**SERVICE**  
Solid growth

**DEVELOPMENT**  
Foundation in place

Source: WoodMackenzie

***Vestas***<sup>®</sup>  
PRESENTS







V236



V136

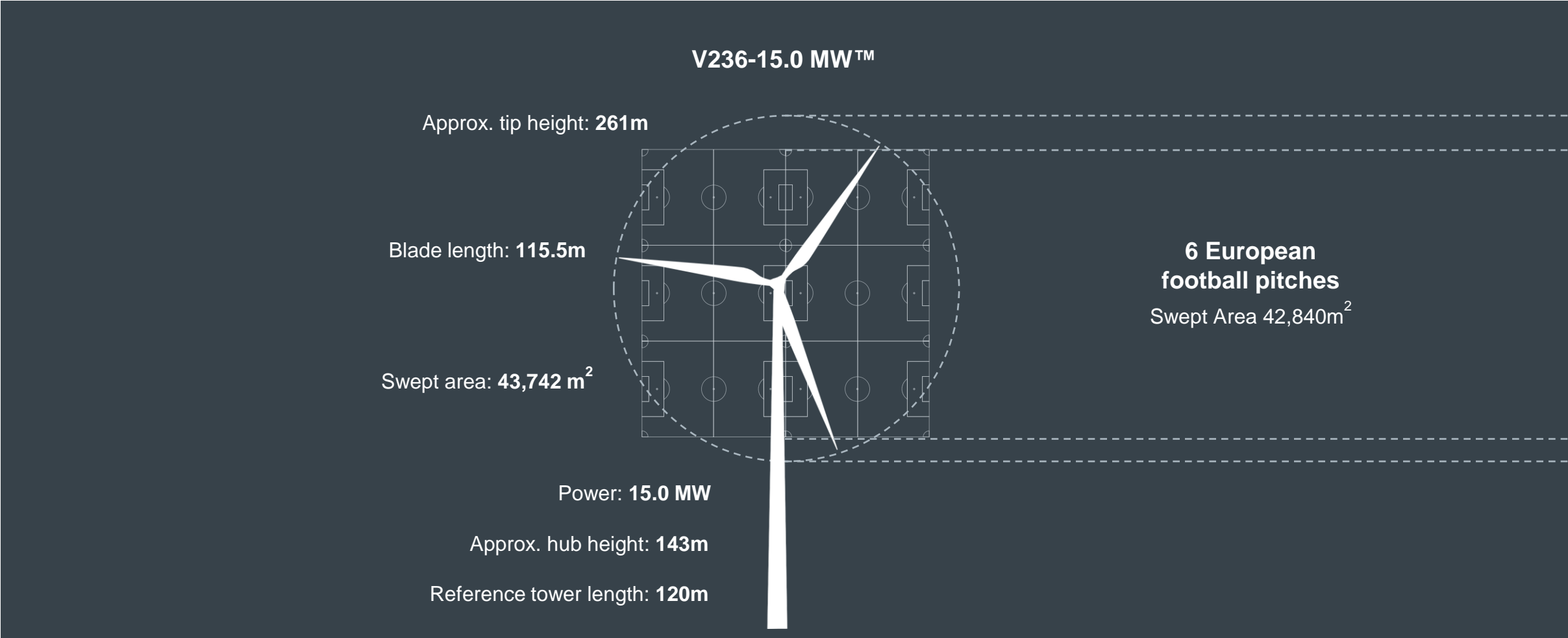


V100



# Optimal power generation from the industry's largest swept area

V236-15.0 MW™ with a swept area larger than 6 European football pitches

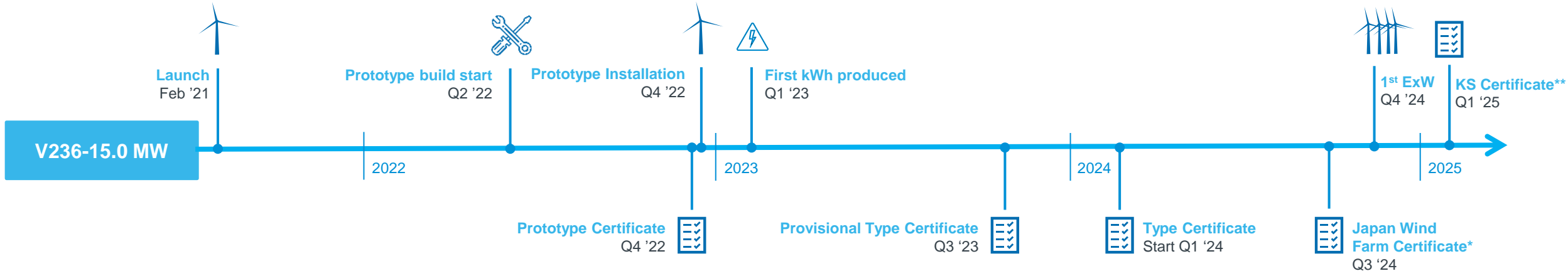






- **First KWH** produced in December 2022
- Production equivalent to consumption of **20,000 European households**

# V236-15.0 MW™ timeline



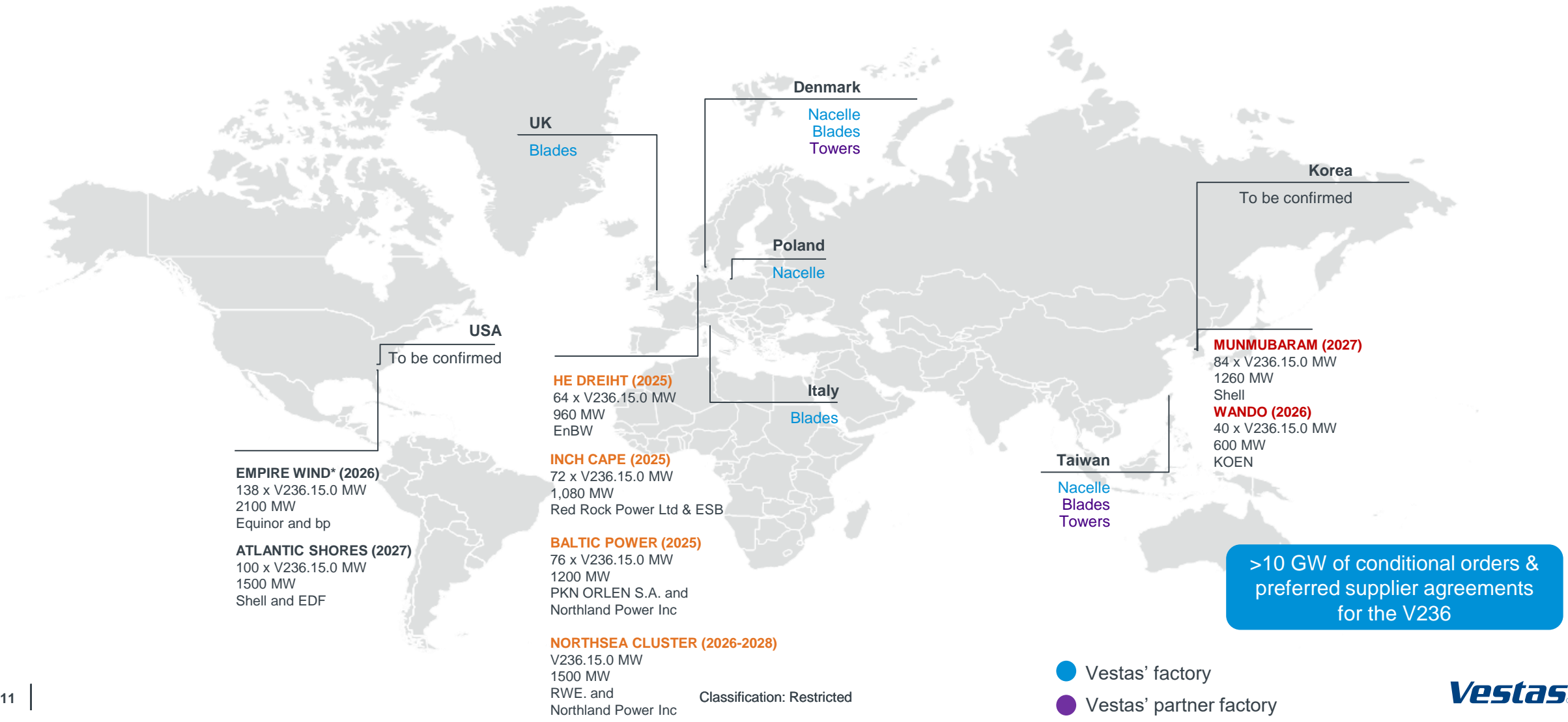
\*The Japan wind farm certificate is handled by ClassNK. The certificate is issued on an installation project specific basis, and hence the dates are the first possible scenario which can be achieved, provided that an actual installation project is available to support the certification process. In addition, the timeline is subject to ClassNK confirmation.

\*\*The KS type certification (Korean Standard certification) is based on IECRE certification activities. The first version of the KS certificate will be based on a KEA tower manufacturing evaluation for the first commercial tower (EU). The actual KS type certificate will be updated with the footprint for the relevant South Korean projects once towers are in production.

Dates refer to the end of the period unless anything else has been communicated.

# Global offshore manufacturing footprint & V236 PSA projects

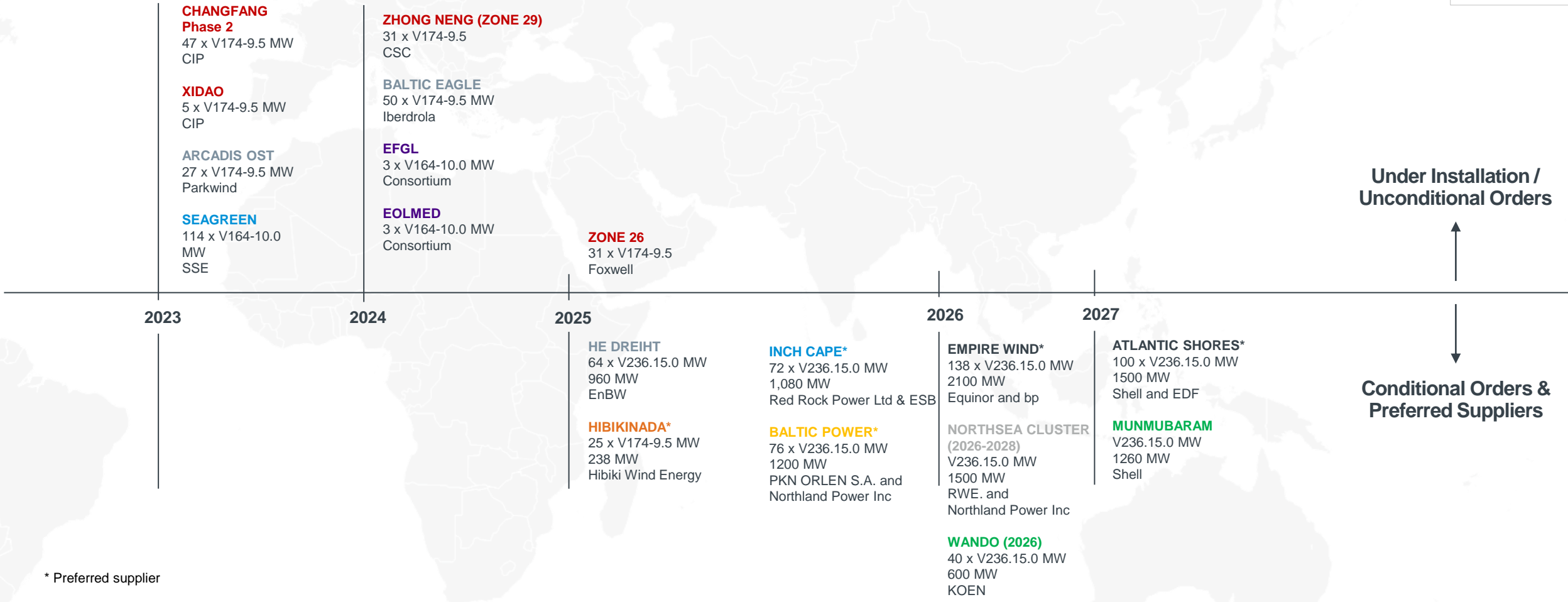
A flexible setup with supply from Vestas' own factories and partner factories for V164, V174 and V236



# Our Offshore Pipeline

+ 2.5 GW of firm orders and >10 GW of conditional orders & preferred supplier agreements

- UK
- Taiwan
- Korea
- Japan
- Germany
- France
- Denmark
- US
- Poland



\* Preferred supplier

# A calculated leap to **V236-15.0 MW™**

Building on proven track record from both offshore and onshore

**Optimisation and upgrade** of existing, proven and reliable technology from V164-9.5 MW, V164-10.0 MW and V174-9.5 MW 9 MW variants

Proven system designs on **136 GW+ combined installed fleet from Vestas** on- and offshore (2 MW, 4 MW, EnVentus and 9 MW platforms)

**Worldwide application** in IEC I extreme wind conditions up to 50 m/s + IEC T up to 57 m/s

RNA structure design **lifetime of 30 years**

**Lightweight and high performing** turbine due to **technology improvements in drivetrain design** and **extreme loads mitigating design**



WTG illustrations are indicative only and subject to change



Any questions?

