

V236-15.0 MW™





# Determined to lead offshore wind forward

We are driven by an ambition to power the clean energy future of our world. Offshore wind is pivotal to hitting that target. So we have been busy innovating, for the future of our industry and the future of our world.

The V236-15.0 MW™ is the culmination of that innovation. World-class technology shaped by industry-leading experience, onshore and offshore. It is built for a ground-breaking world: efficiently designed, globally applicable and engineered for peak performance. It is Vestas powering the future.

#### **A strong foundation**

We are battle-hardened. Over 40 years of turbine development expertise and over 25 years delivering projects offshore has given us some hard-earned lessons. Together with our partners, we have installed and maintained turbines in frozen tundras, in tropical trade winds, and in tsunami-stricken waters. From the installment of 500 kW turbines at Tunoe Knob in 1995 to the 9 MW platform turbines in operation today, we have been pushing boundaries offshore for more than 25 years. This experience has enabled us to hand-pick what works. It takes experience to know, and our lessons learned are fused into the core of Vestas' next generation offshore platform.





# Introducing the V236-15.0 MW™



#### **Advanced platform based on proven system designs**

The V236-15.0 MW™ is built on proven, world-class technology. Drawing the best from our EnVentus and 9 MW platforms, the V236-15.0 MW™ is a continuation of proven results. Advanced system designs, such as our efficient geared drivetrain, our CubePower converter, and our Control System 8000, are integrated and optimised for our next-generation offshore platform. Due to the common technical design principles, V236-15.0 MW™ benefits directly from accumulated experience, development and scale synergies of the onshore and offshore business.

#### **Designed for competitive project development**

We are collaborative by nature, working with partners to offer a turbine made for the realities of project development, where every component matters. V236-15.0 MW™ is configured to strike the balance between energy production performance and number of turbines required at park level, while utilising advanced control and damping systems to optimise foundation requirements. The gearbox-based drivetrain offers a balanced, scalable, and efficient technology platform from which to enable the future growth of offshore wind.

#### **Leading energy production at scale**

Powered by a swept area of 43,742 m<sup>2</sup>, the V236-15.0 MW™ moves the boundaries of offshore wind energy production forward. A single turbine is capable of producing up to 80GWh/year depending on site-specific conditions. The 115.5m blades drive a capacity factor of

over 60%, ensuring that fewer turbines enable greater annual energy production than ever before. Globally applicable, the turbine is designed for high wind conditions and rated to withstand IEC 1 extreme wind conditions up to 50 m/s and IEC T up to 57 m/s.

#### **Safe and certain throughout project lifetimes**

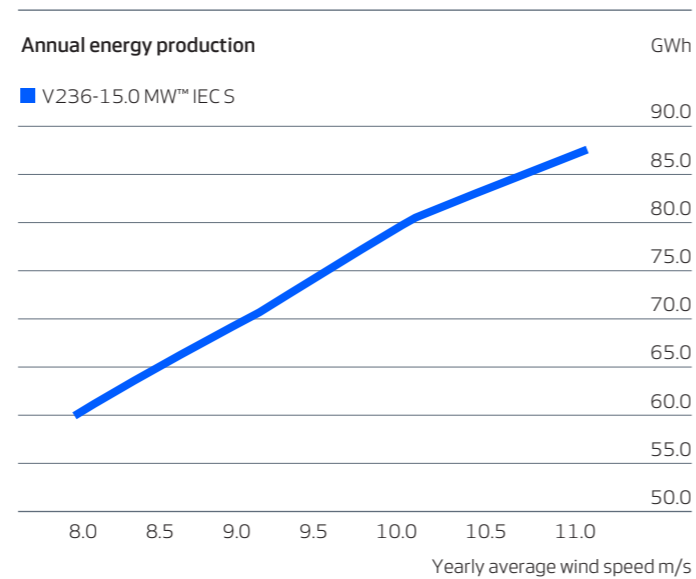
Vestas' rigorous testing standards guides the development of all of our turbines. The V236-15.0 MW™ is subject to the same stringent testing protocol. The V236-15.0 MW™ has a design lifetime of 30 years with the option to extend depending on project specific conditions. Strict quality control and life testing processes identify potential failure modes and mechanisms before they occur. The nacelle is ergonomically designed to make it easier for maintenance crews to gain access, reducing time spent offshore on service while maximising turbine uptime. Our understanding of service needs, including in nascent segments such as floating offshore wind, has informed our design of the V236-15.0 MW™.

We've  
installed  
over 10 GW  
of turbines,  
**offshore.**

# V236-15.0 MW™ IEC S

The V236-15.0 MW™ is built on proven, world-class technology and engineered for efficiency in offshore environments around the world.

<b>Power regulation</b>	Pitch regulated with variable speed
<b>Operating data</b>	
Rated power	15,000kW
Cut-in wind speed	3m/s
Cut-out wind speed	31m/s
Wind class	IEC S or S,T
Standard operating temperature range from -15°C to +23°C* with a de-rating interval from +23°C to +45°C	
*High ambient temperature variant available	
<b>Sound power</b>	
Maximum	115.3dB(A)
<b>Rotor</b>	
Rotor diameter	236m
Swept area	43,742m <sup>2</sup>
Aerodynamic brake	three blades full feathering
<b>Electrical</b>	
Frequency	50/60Hz
Converter	full scale
<b>Gearbox</b>	
Type	medium speed
<b>Tower</b>	
Hub heights	site-specific



**Assumptions**  
 One wind turbine, 1.00% availability, 0% losses, k factor = 2,  
 Standard air density = 1.225, wind speed at hub height

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