

V162-7.2 MW™ IEC S

Power regulation	Pitch regulated with variable speed
Operating data	
Standard rated power	7,200kW
Cut-in wind speed	3m/s
Cut-out wind speed*	25m/s
Wind class	IEC S
Standard operating temperature range from -20°C to +45°C	
*High Wind Operation available as standard	
Sound power	
Maximum	105.5dB(A)*
*Sound Optimised Modes available dependent on site and country	
Rotor	
Rotor diameter	162m
Swept area	20,612m ²
Aerodynamic brake	full blade feathering with 3 pitch cylinders
Electrical	
Frequency	50/60Hz
Converter	full scale
Gearbox	
Type	two planetary stages
Tower	
Hub heights	119m (IEC S/DIBt S) 138m (IEC S) 166m (IEC S) 169m (DIBt S)

Turbine options

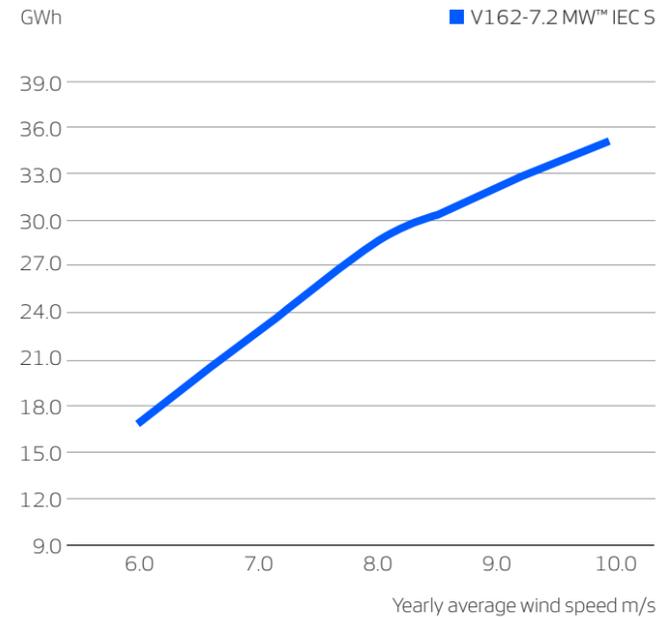
- 6.5 MW Operational Mode
- 6.8 MW Operational Mode
- Oil Debris Monitoring System
- High Temperature CoolerTop
- Service Personnel Lift
- Low Temperature Operation to -30°C
- Vestas Ice Detection™
- Vestas Anti-Icing System™
- Vestas Shadow Flicker Control System
- Aviation Lights
- Aviation Markings
- Fire Suppression System
- Vestas Bat Protection System
- Lightning Detection System

Sustainability

Carbon Footprint	7.1g CO ₂ e/kWh
Return on energy break-even	7.4 months
Lifetime return on energy	32 times
Recyclability rate	87%

Configuration: 149m hub height, Vavg=7.4m/s, k=2.22. Depending on site-specific conditions. Metrics are based on an externally reviewed Life Cycle Assessment available on vestas.com

Annual energy production



Assumptions
One wind turbine, 100% availability, 0% losses, k factor =2
Standard air density = 1.225, wind speed at hub height

V172-7.2 MW™ IEC S

Power regulation	Pitch regulated with variable speed
Operating data	
Standard rated power	7,200kW
Cut-in wind speed	3m/s
Cut-out wind speed*	25m/s
Wind class	IEC S
Standard operating temperature range from -20°C to +45°C	
*High Wind Operation available as standard	
Sound power	
Maximum	107.8dB(A)*
*Sound Optimised Modes available dependent on site and country	
Rotor	
Rotor diameter	172m
Swept area	23,235m ²
Aerodynamic brake	full blade feathering with 3 pitch cylinders
Electrical	
Frequency	50/60Hz
Converter	full scale
Gearbox	
Type	two planetary stages
Tower	
Hub heights*	114m (IEC S)** 150m (IEC S)** 164m (DIBt) 166m (IEC S) 175m (DIBt) 199m (DIBt)
*Site specific towers available on request **Preliminary	

Turbine options

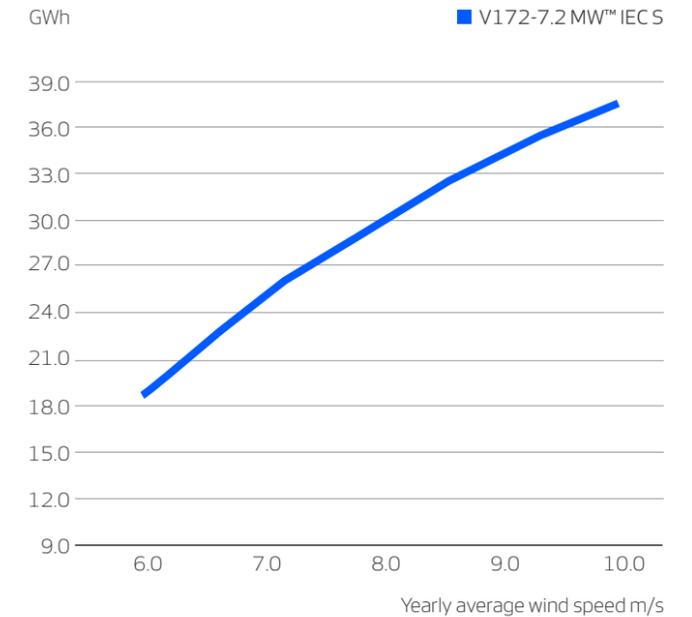
- 6.5 MW Operational Mode
- 6.8 MW Operational Mode
- Oil Debris Monitoring System
- High Temperature CoolerTop
- Service Personnel Lift
- Low Temperature Operation to -30°C
- Vestas Ice Detection™
- Vestas Shadow Flicker Control System
- Aviation Lights
- Aviation Markings
- Fire Suppression System
- Vestas Bat Protection System
- Lightning Detection System

Sustainability

Carbon Footprint	6.4g CO ₂ e/kWh
Return on energy break-even	6.9 months
Lifetime return on energy	34 times
Recyclability rate	86.6%

Configuration: 166m hub height, Vavg=7.4m/s, k=2.48. Depending on site-specific conditions. Metrics are based on an internal streamlined assessment. An externally reviewed Life Cycle Assessment will be made available on vestas.com once finalised.

Annual energy production



Assumptions
One wind turbine, 100% availability, 0% losses, k factor =2
Standard air density = 1.225, wind speed at hub height