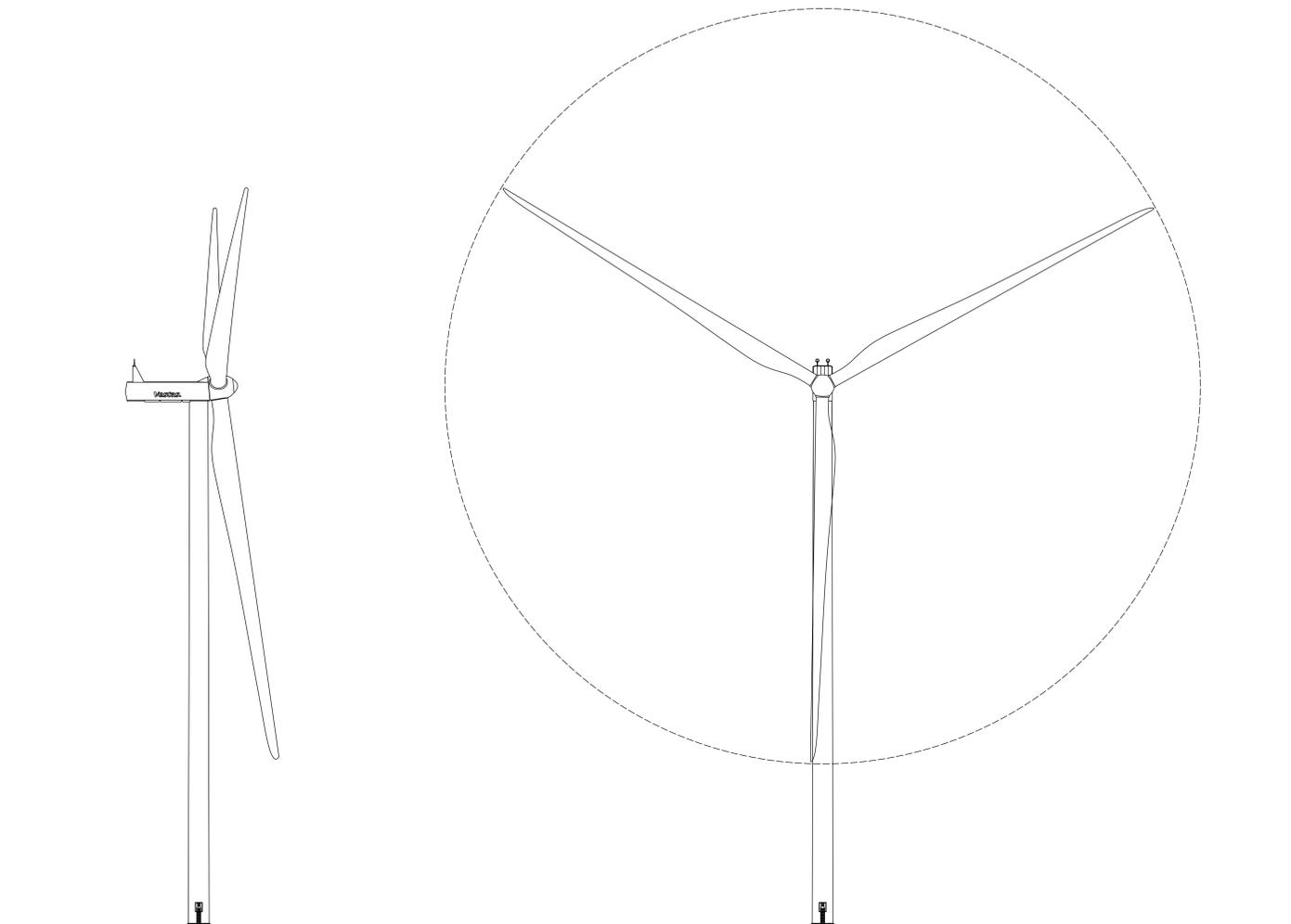
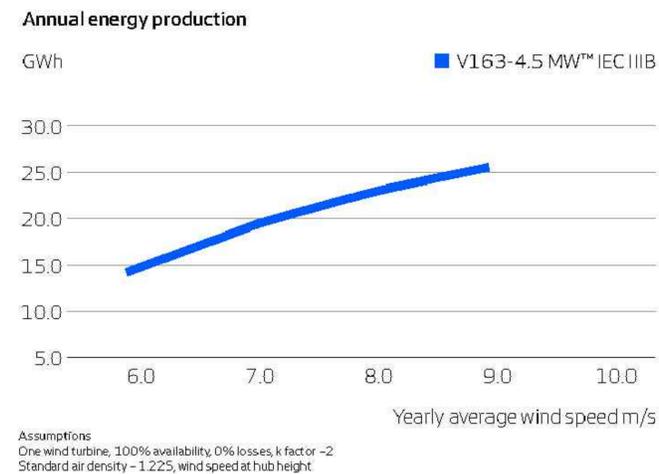


# V163-4.5 MW™ IEC IIIB

<b>Power regulation</b>	Pitch regulated with variable speed
<b>Operating data</b>	
Rated power	4,500kW
Cut-in wind speed	3m/s
Cut-out wind speed	24m/s
Re cut-in wind speed	22m/s
Wind class	IEC IIIB
Standard operating temperature range from -30°C* to +45°C with de-rating above 30°C	
*Subject to different temperature options	
<b>Sound power</b>	
Maximum	108.0dB(A)**
**Sound Optimised Mode's dependent on site and country	
<b>Rotor</b>	
Rotor diameter	163m
Swept area	20.867m <sup>2</sup>
Air brake	full blade feathering with 3 pitch cylinders
<b>Electrical</b>	
Frequency	50/60Hz
Converter	full scale
<b>Gearbox</b>	
Type	two planetary stages and one helical stage
<b>Tower</b>	
Hub heights	Site and country specific
<b>Nacelle dimensions</b>	
Height for transport	3.5m
Height installed (incl. Cooler Top*)	8.4m
Length	12.96m
Width	3.98m
<b>Hub dimensions</b>	
Max. transport height	3.7m
Max. transport width	4.0m
Max. transport length	5.5m

<b>Blade dimensions</b>	
Length	80.1m
Max. chord	4.3m
Max. weight per unit for transportation	70 metric tonnes
<b>Turbine options</b>	
<ul style="list-style-type: none"> <li>- Condition Monitoring System</li> <li>- Service Personnel Lift</li> <li>- Low Temperature Operation to -30°C</li> <li>- Fire Suppression</li> <li>- Vestas Shadow Flicker Control System</li> <li>- Vestas Bat Protection System</li> <li>- Aviation Lights</li> <li>- Aviation Markings on the Blades</li> <li>- Nacelle Hatch for Air Inlet</li> </ul>	
<b>Sustainability</b>	
Carbon Footprint	4.7g CO <sub>2</sub> e/kWh
Return on energy break-even	5 months
Lifetime return on energy	45 times
Recyclability rate	83%
Configuration: 98m hub height, Vavg-7.9m/s, k-2.6. 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.	



<b>REGIONE BASILICATA</b> PROVINCIA DI MATERA <b>COMUNE DI IRSINA</b> LOCALITÀ SAN MARCO FORGIONE				
Oggetto: <b>PROGETTO DEFINITIVO PER LA COSTRUZIONE E L'ESERCIZIO DI UN IMPIANTO EOLICO NEL COMUNE DI IRSINA COSTITUITO DA 8 AEROGENERATORI DI POTENZA TOTALE PARI A 36,0 MW E RELATIVE OPERE DI CONNESSIONE</b>				
Sezione: <b>SEZIONE A.16.b – ELABORATI GRAFICI DI IMPIANTO</b>				
<b>TIPO DEGLI AEROGENERATORI</b>				
Nome file stampa: <b>EO_IRS01.PD.A.16.b.2.pdf</b>	Codifica Regionale: EO_IRS01.PD.A.16.b.2	Scala:	Formato di stampa: <b>A0</b>	
Nome elaborato: <b>EO_IRS01.PD.A.16.b.2</b>	Tipologia: D			
Proponente: <b>E-WAY GREEN S.r.l.</b> Piazza di San Lorenzo in Lucina, 4 00186 ROMA (RM) P.IVA. 16774521005		Progettista: <b>E-WAY GREEN S.r.l.</b> Piazza di San Lorenzo in Lucina, 4 00186 ROMA (RM) P.IVA. 16774521005		
   				
CODICE EO_IRS01.PD.A.16.b.2	REV. n. 00	DATA REV. 04/2023	REDAZIONE A. Zambrano	VERIFICA A. Bottone
<small>                 E-WAY GREEN S.r.l.                  Piazza di San Lorenzo in Lucina, 4                  00186 ROMA (RM)                  P.IVA. 16774521005                  PEC: e-waygreens@legalmail.it             </small>				