

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 +4.5°C	<small>* High Wind Operation available as standard</small>	
Sound power		
Maximum	105.5dB(A)*	
<small>* Sound Optimised Modes available dependent on site and country</small>		
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) 169m (IEC S)* 169m ((DIBt S))	
<small>* Includes 3m raised foundation</small>		

Turbine options

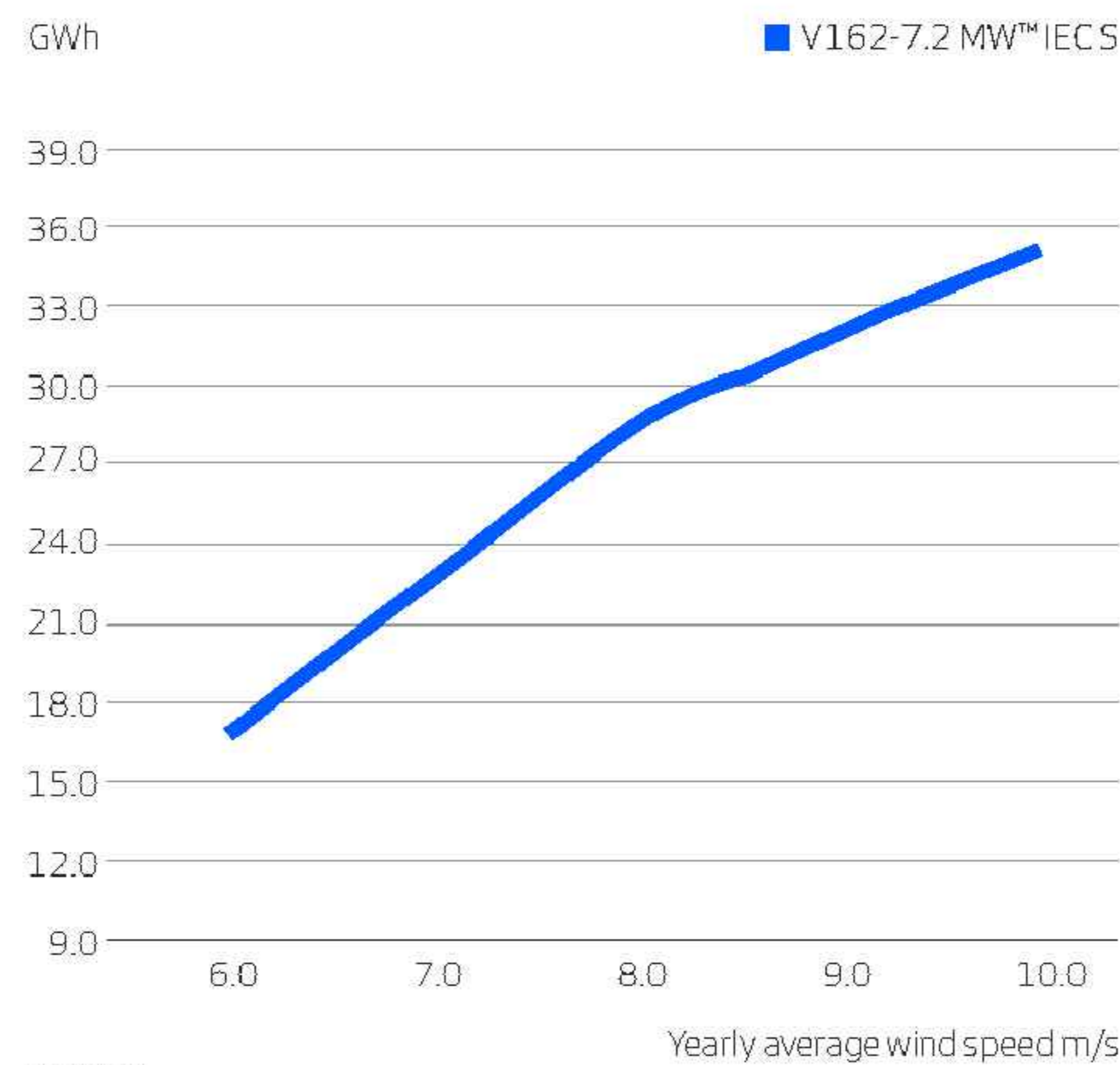
- 6.5 MW Operational Mode
- 6.8 MW Operational Mode
- Oil Debris Monitoring System
- High Temperature Cooler Top
- Service Personnel Lift
- Low Temperature Operation to -30°C
- Vestas Ice Detection™
- Vestas Anti-Icing System™
- Vestas Shadow Flicker Control System
- Aviation Lights
- Aviation Markings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

Sustainability

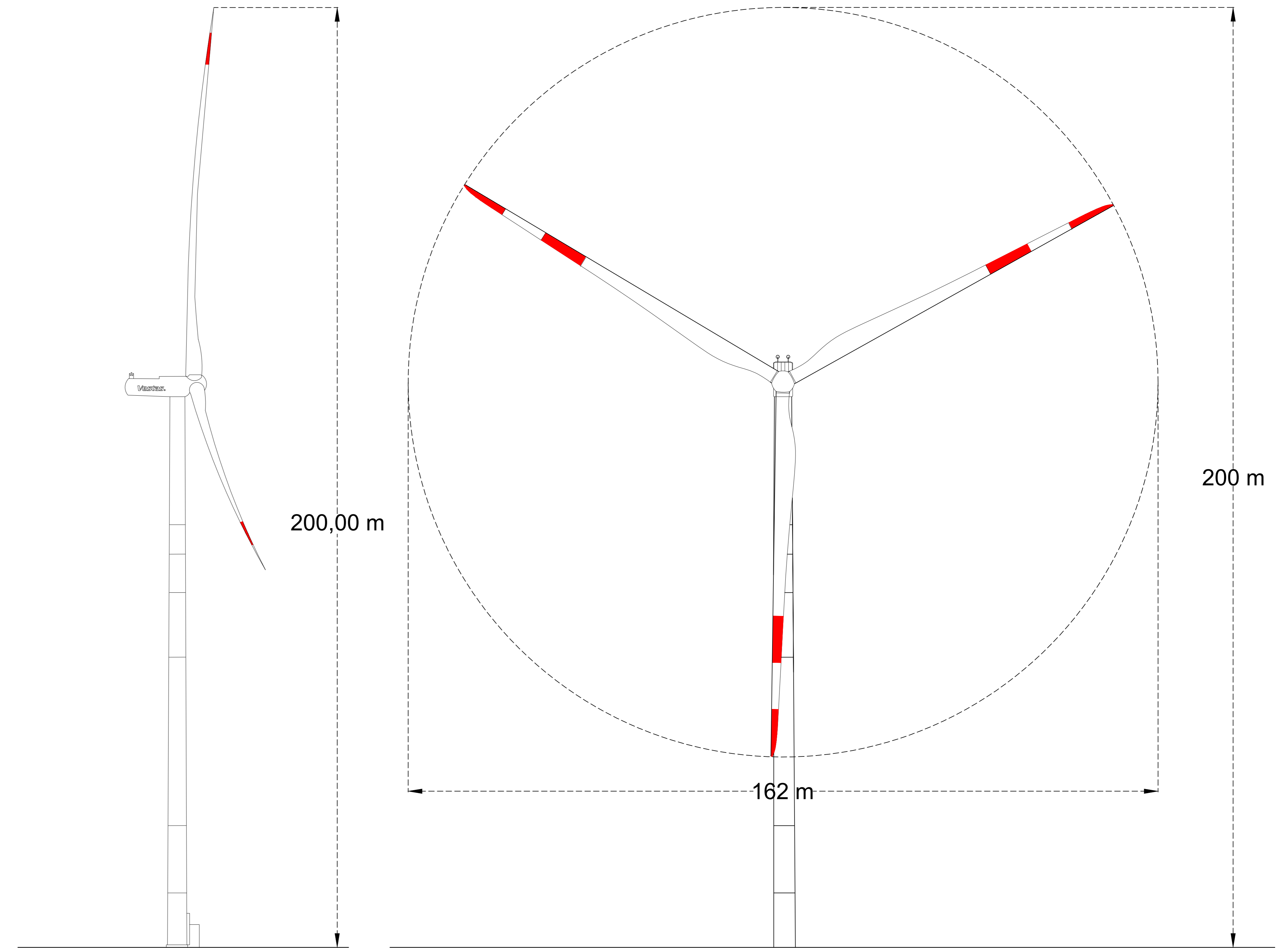
Carbon Footprint	7.1g CO ₂ e/kWh
Return on energy break-even	7.4 months
Lifetime return on energy	32 times
Recyclability rate	87%

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



REGIONE BASILICATA
 PROVINCIA DI MATERA
COMUNE DI MATERA

Objetto:
PROGETTO DEFINITIVO PER LA COSTRUZIONE E L'ESERCIZIO DI UN IMPIANTO EOLICO NEL COMUNE DI MATERA IN LOCALITÀ "MASSERIA TERLECCHIA PICCOLA" COSTITUITO DA 7 AEROGENERATORI DI POTENZA TOTALE PARI A 50.4 MW E RELATIVE OPERE DI CONNESSIONE

Sezione:
SEZIONE A.16 – ELABORATI GRAFICI

Elaborato:
TIPO DEGLI AEROGENERATORI

<small>Nome file stampa:</small> EO.MTR01.PD.A.16.b.2.pdf	<small>Codifica Regionale:</small> EO.MTR01.PD.A.16.b.2	<small>Scala:</small> 1:500	<small>Formato di stampa:</small> A0
<small>Nome elaborato:</small> EO.MTR01.PD.A.16.b.2	<small>Tipologia:</small> D		

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CODICE	REV. n.	DATA REV.	REDAZIONE	VERIFICA	VALIDAZIONE
EO.MTR01.PD.A.16.b.2	00	03/2024	A. Zambrano	A. Bottone	A. Bottone

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