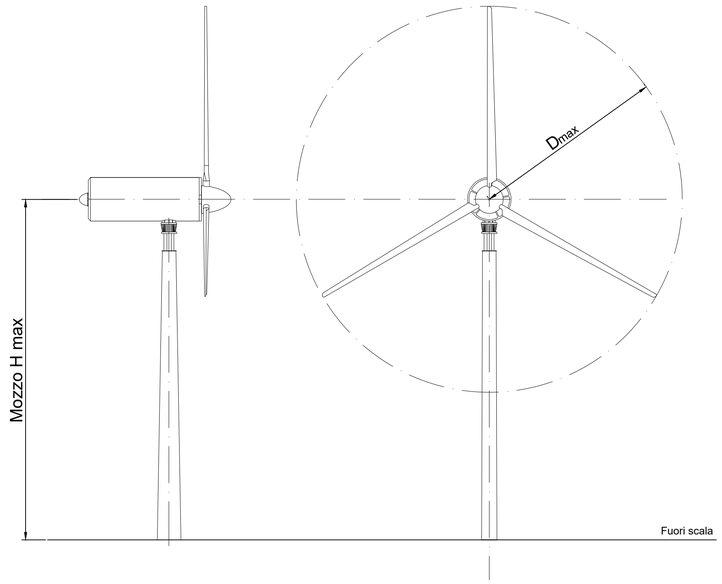
CARATTERISTICHE DIMENSIONALI E COORDINATE AEROGENERATORI



	COORDINATE		ELEVAZIONE	CARATTERISTICHE		
	NORD	EST	H_{base} [m]	D_{max} [m]	Mozzo H_{max} [m]	P_{max} [MW]
TORRE T1	44° 10' 707"	08° 05' 863"	1179.00	136.00	111.00	4.50
TORRE T2	44° 10' 769"	08° 06' 080"	1159.00	136.00	111.00	4.50

POWER REGULATION Pitch regulated with variable speed

OPERATING DATA

Rated power	4,500 kW
Cut-in wind speed	3m/s
Cut-out wind speed	32m/s
Re cut-in wind speed	28m/s
Wind class	IEC IIB
Standard operating temperature range from -20°C* to +45°C with de-rating above 23°C	

*Subject to different temperature options

SOUND POWER

Maximum	103.9dB(A)*

*Sound Optimised modes dependent on site and country

ROTOR

Rotor diameter	136m
Swept area	14,527m²
Air brake	full blade feathering with 3 pitch cylinders

ELECTRICAL

Frequency	50/60Hz
Converter	full scale

GEARBOX

Type	two planetary stages and one helical stage

TOWER

Hub heights	Site and country specific

NACELLE DIMENSIONS

Height for transport	3.5m
Height installed (incl. CoolerTop*)	8.4m
Length	12.96m
Width	3.98m

HUB DIMENSIONS

Max. transport height	3.5m
Max. transport width	3.7m
Max. transport length	5.5m

BLADE DIMENSIONS

Length	66.7m
Max. chord	4.1m
Max. weight per unit for transportation	70 metric tonnes

TURBINE OPTIONS

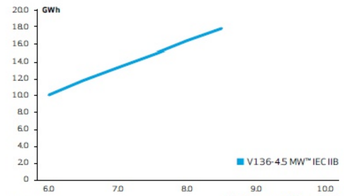
- High Wind Operation
- Condition Monitoring System
- Service Personnel Lift
- Vestas Ice Detection™
- Low Temperature Operation to - 30°C
- Fire Suppression
- Shadow detection
- Vestas Bat Protection System
- Aviation Lights
- Aviation Markings on the Blades
- Vestas InteliLight*

SUSTAINABILITY

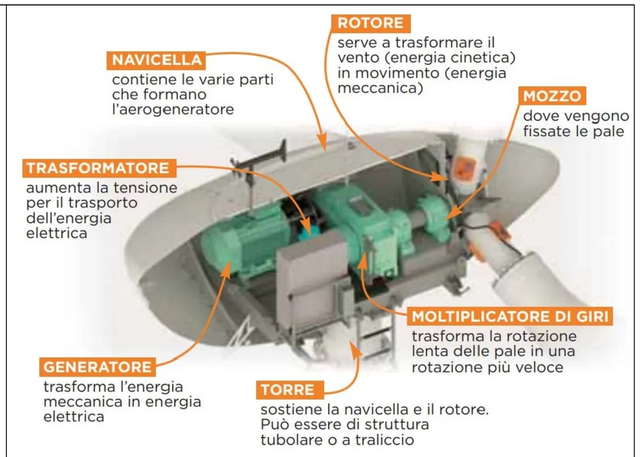
Carbon Footprint	7.6g CO_2e/kWh
Return on energy break-even	7.5 months
Lifetime return on energy	32 times
Recyclability rate	88.5%

Configuration 132m hub height and wind class IECIIIA. Depending on site-specific conditions. Metrics are based on a preliminary stream-lined analysis. An externally-verified Lifecycle Assessment will be made publicly available on vestas.com once finalised.

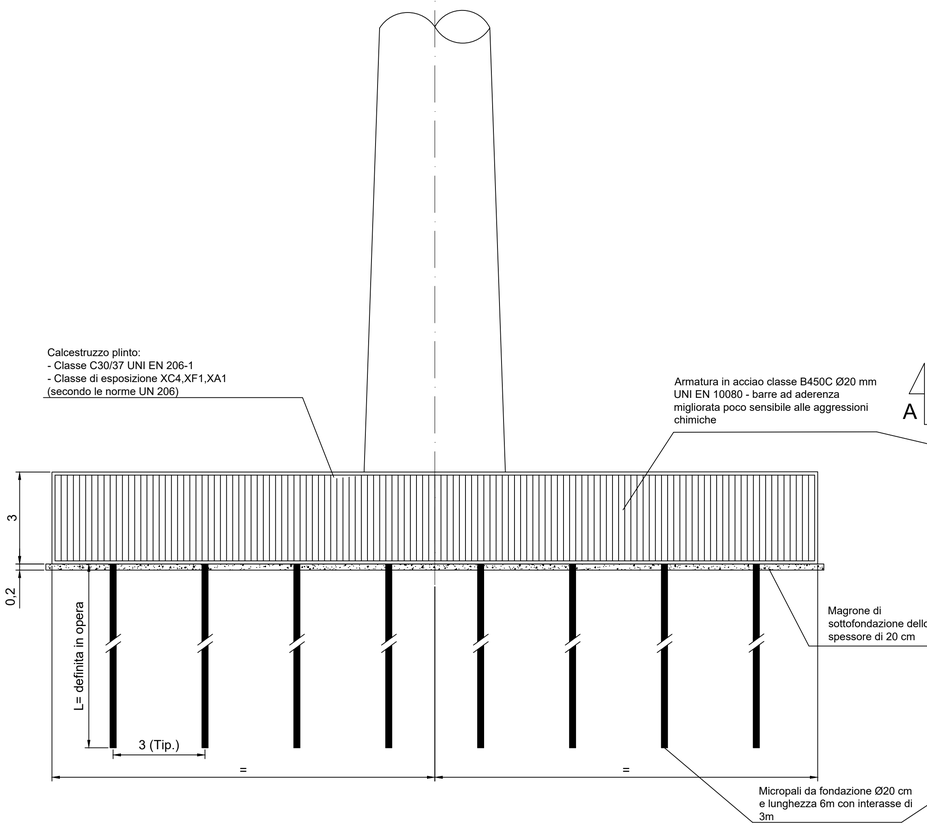
ANNUAL ENERGY PRODUCTION



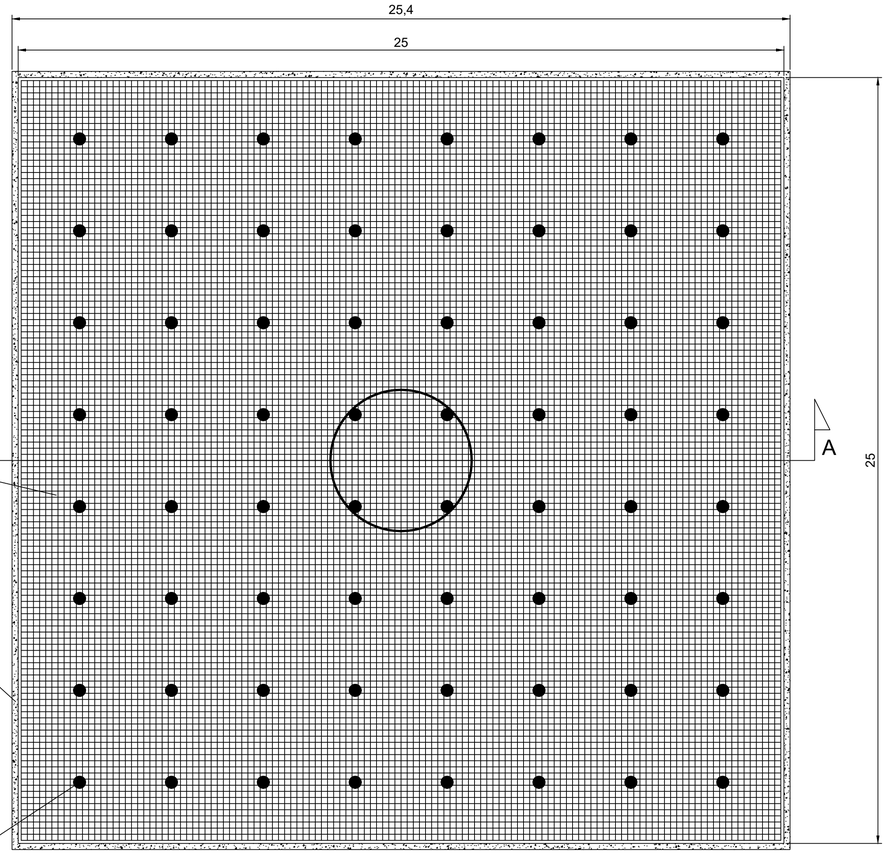
Assumptions
One wind turbine, 100% availability, 0% losses, k factor = 2, Standard air density = 1.225, wind speed at hub height



Sezione A-A



Planimetria plinto di fondazione armato



NOTA:
- QUOTE INDICATE IN METRI

REGIONE LIGURIA
PROVINCIA DI SAVONA
COMUNE DI BARDINETO

PARCO EOLICO DA N. 2 AEROGENERATORI PER UN TOTALE DI 9 MW
LOCALITA' "I GROPPI" - COMUNE DI BARDINETO (SV)

VERIFICA DI ASSOGGETTABILITA' A V.I.A.

Committente : TERSIA GREENPOWER

Tersia srl
Società a Responsabilità Limitata
Codice Fiscale e P.IVA 01363860097
tel. 019.810580 - www.tersia.it
email: ***info@tersia.it*** **- pec:** ***tersia@legalmail.it***

Oggetto Elaborato :

Aerogeneratore dimensioni generali e tipologico fondazionale

Tav./Rel. :	BA-AE-TAV01
Rev. :	**00**
Scala :	**1:100**
Data :	**16/08/2023**
Nome File :	*6_1_AEROGEN_DIMENS.pdf*
Data istanza :	dicembre 2024

Tecnico redattore :

Firmato digitalmente da:
LAGASIO FILIPPO
Firmato il 16/12/2024 09:43
Seriale Certificato: 1197040
Valido dal 21/02/2022 al 21/02/2025
InfoCamere Qualified Electronic Signature CA

teknofield
Ing. Filippo Lagasio
Amministratore Unico TEKNOFIELD SRL

Teknofield srl
Società a Responsabilità Limitata
Via del Molo 6/1, 17100 Savona (SV), Italy
CCIAA Savona - R.E.A. SV-168855
www.teknofield.it - **email:** ***info@teknofield.it***

REV./AGG.	DESCRIZIONE	DATA	DISEGNATO	CONTROLLATO	AUTORIZZATO
00	EMISSIONE PER CONSEGNA FINALE	16/08/2023	GIACCHINO	VALFRE'	LAGASIO

A norma di legge il presente elaborato non potrà essere riprodotto ne' consegnato a terzi ne' utilizzato per scopi diversi da quello di destinazione senza l'autorizzazione scritta dell'autore, che ne detiene la proprietà.

Formato A1