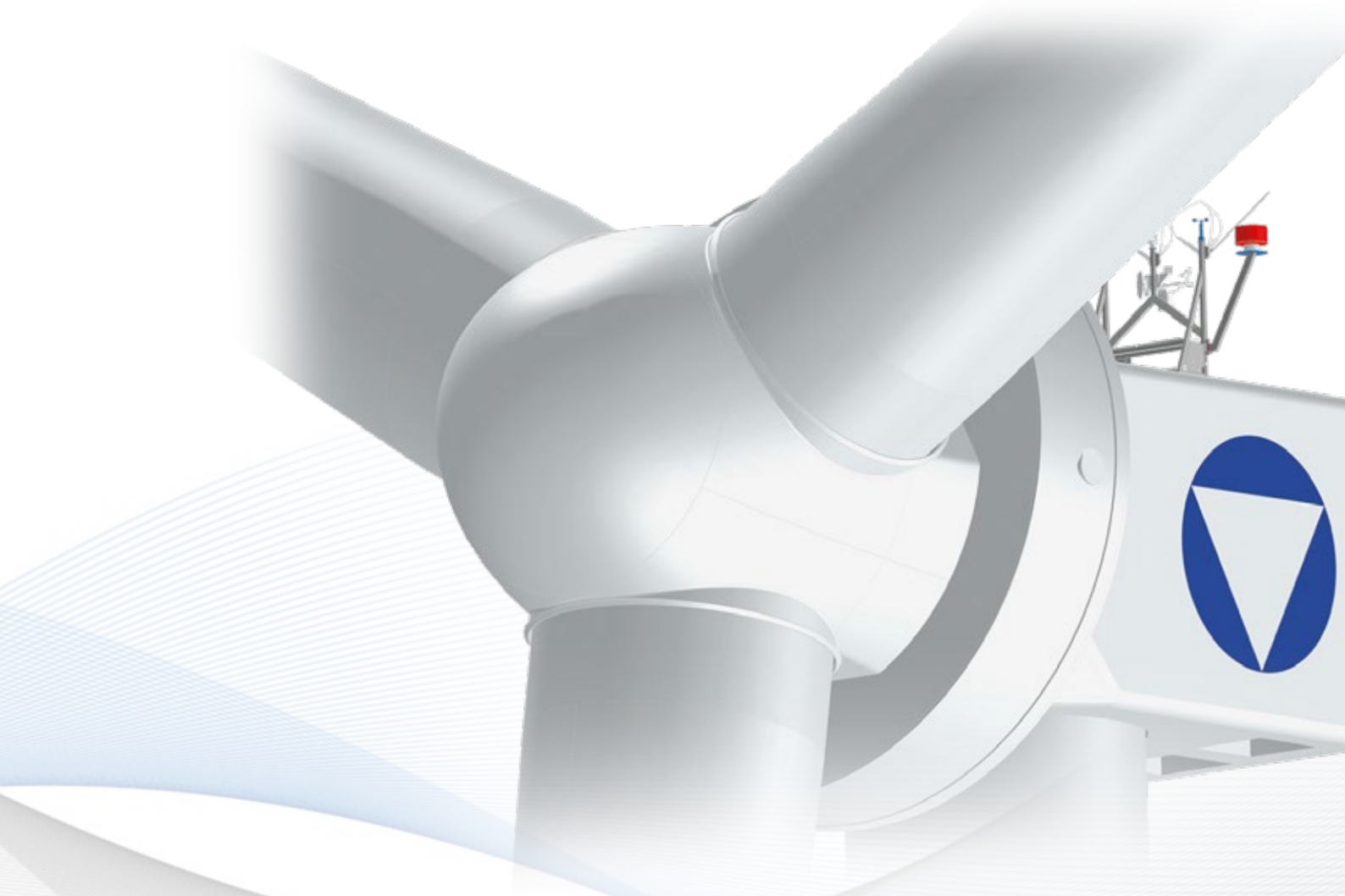
VENSYS

TECHNICAL DATA



THE NEW 5S

- The ongoing reduction of energy costs will be continued with this platform
- Transport optimisation through segmented design of components
- Thirty years of experience using permanent magnet technology
- Low-wear and low-maintenance rotor blade pitch system
- Joint development with Goldwind

5S PLATFORM

VENSYS 155

6.2 MW

5S PLATFORM

VENSYS 155

6.2 MW

Operating data

Rated power	6.2 MW
Cut-in wind speed	3 m/s
Cut-out wind speed	25 m/s
Operating temperature	–20 °C to +40 °C*

*De-rating possible from 30 °C

Sound power level

Optimized for maximum performance	<106.0 dB(A)

(Sound-optimised operating modes available)

Rotor

Diameter	155.0 m
Swept area	18,869 m²
Rotational direction	Clockwise
Rated speed	9.1 rpm
Blade type	EBT 75.7
Power control	Pitch
Primary braking system	Single-blade adjustment, triple redundant

Generator

Type	Synchronous generator with permanent magnet excitation
Construction type	Direct drive

Yaw system

Construction principle	Geared electric motors
Braking system	Hydraulic brake calipers

Converter

Type	IGBT full power converter
Frequency	50 Hz / 60 Hz

Tower

Hub heights

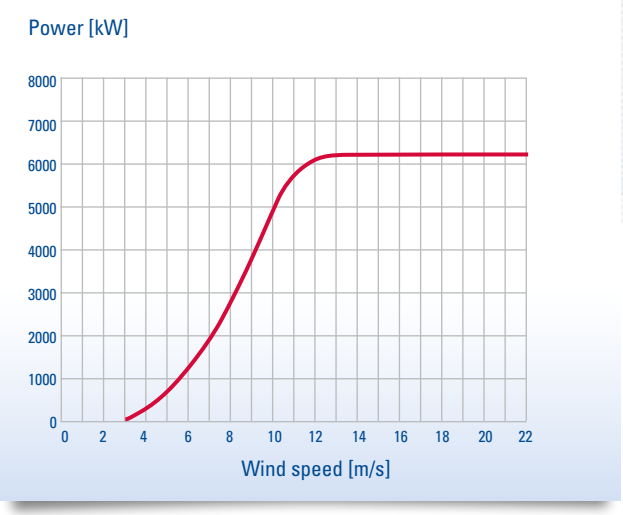
102.5m | 122.5m	Steel tube tower
152.5 m	Hybrid tower (concrete / steel)

Wind class

IEC IIA

POWER CURVE VENSYS 155

ø Wind speed [m/s]	AEP [MWh] VENSYS 155 - EBT 75.7
5.0	9,863.6
5.5	12,460.1
6.0	15,108.8
6.5	17,727.8
7.0	20,256.8
7.5	22,654.5
8.0	24,893.1
8.5	26,954.3



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