

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

5S PLATFORM

VENSYS 170

5.8 MW

5S PLATFORM VENSYS 170

5.8 MW

Operating data

Rated power	5,8 MW
Cut-in wind speed	3 m/s
Cut-out wind speed	22 m/s
Operating temperature	-20 °C to +40 °C*

*De-rating possible from 30 °C

Sound power level

Optimized for maximum performance	106.8 dB(A)
Sound-reduced operating mode	105.4 dB(A)

Rotor

Diameter	170.0 m
Swept area	22,698 m ²
Rotational direction	Clockwise
Blade type	EBT 83.4
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	Steel tube tower
115 m	
145 m 160 m	Hybrid tower (concrete / steel)

Wind class

IEC IIIA | DIBtWZ S

POWER CURVE VENSYS 170

Wind speed [m/s]	AEP [MWh] VENSYS 170 - EBT 83.4
5,0	11,302.1
5,5	13,928.0
6,0	16,528.4
6,5	19,034.1
7,0	21,396.4
7,5	23,581.8
8,0	25,566.2
8,5	27,333.0

Power [kW]

