

## 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

5.6 MW

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5.6 MW

## Operating data

Rated power	5,6 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	105.4 dB(A)
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(Sound-reduced operating modes available)

## Rotor

Diameter	170.0 m
Swept area	22,698 m <sup>2</sup>
Rotational direction	Clockwise
Rated speed	8.3 rpm
Blade type	EBT 83.2
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	
115 m	Steel tube tower
145 m   165 m	Hybrid tower (concrete / steel)

## Wind class

IEC IIIA

## POWER CURVE VENSYS 170

Ø Wind speed [m/s]	AEP [MWh] VENSYS 170 - EBT 83.2
5,0	11,126.7
5,5	13,707.9
6,0	16,253.2
6,5	18,703.5
7,0	21,002.4
7,5	23,120.4

