

- ▼ The ongoing reduction of energy costs will be continued with this platform
- ▼ Even more efficient transport optimisation through segmented design of components
- ▼ Thirty years of experience using permanent magnet technology

# VENSYS 175

7.8 MW

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## Operating data

Rated power	7.8 MW
Cut-in wind speed	3 m/s
Cut-out wind speed	24 m/s
Operating temperature	-20 °C to +40 °C
(De-rating possible from 30 °C)	

## Sound power level

Performance-optimized	106.5 dB(A)
(Sound-optimized operating modes available)	

## Rotor

Diameter	175 m
Swept area	24,053 m <sup>2</sup>
Rotational direction	Clockwise
Rated speed	9 rpm
Blade type	GW 86
Power control	Pitch
Primary braking system	Single-blade adjustment, triple redundant

## Generator

Type	Medium-speed synchronous generator with permanent magnet excitation
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## Gear box

Type	3-stage planetary gearbox
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## Yaw system

Actuation	Geared electric motors
Bearing	Sliding bearing

## Converter

Type	IGBT full power converter
Frequency	50 Hz / 60 Hz

## Tower

Hub heights	
145 m	Segmented steel tower
160 m	Hybrid tower (concrete / steel)

## Wind class

Hub height 145 m	IEC S
Hub height 160 m	IEC S



## POWER CURVE VENSYS 175

Ø Wind speed [m/s]	AEP [MWh]
5.0	12,449.0
5.5	15,743.5
6.0	19,102.2
6.5	22,416.8
7.0	25,604.7
7.5	28,605.3
8.0	31,375.7
8.5	33,885.7

Power [kW]

