

# WIND TURBINE AGW 172 / 7.X

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# Reliable and Flexible Onshore Wind Turbines

## Operational data

Model	AGW 172 / 7.X
Rated power	7,000 kW
Wind class	IEC S
Design service life <sup>A</sup>	20 years
Cut-in wind speed	3 m/s
Cut-out wind speed	20 m/s
Operational temperature	Standard: -20°C to 40°C Cold climate: -30°C to 40°C
Sound power level	108.2 dB(A)

## Rotor

Blade tech	Single-piece, glass & carbon reinforced epoxy
Rotor diameter	172 m
Swept area	23,235 m <sup>2</sup>
Power regulation	Variable speed, independent pitch control
Main brake	Aerodynamic (full-feathering)

## Drivetrain

Generator tech	PMSG (Permanent Magnet Synchronous Generator)
Stator impregnation	VPI (Vacuum Pressure Impregnation)
Gearbox tech	Medium-speed, 3 stages
Cooling	Liquid-air

## Electrical System

Converter tech	Full-power (IEEE Type 4)
Frequency	60 Hz
Power factor <sup>B</sup>	0.90 IND - 0.90 CAP
Converter cooling	Liquid
Transformer output voltage	34.5 kV
Transformer cooling	Passive air
Location	Uptower

## Tower

Hub height	107.5 m 116.3 m Site-specific
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Notes: A) Extended service life available subject to site-specific assessment; B) Measured at the low voltage terminals of the power converter output. C) Considering 100% availability, zero losses and standard air density (1.225 kg/m<sup>3</sup>); D) Weibull shape parameter,  $k = 2.5$ . E) According to the First Updated Elective Safe Harbor contained in Notice 2025-08

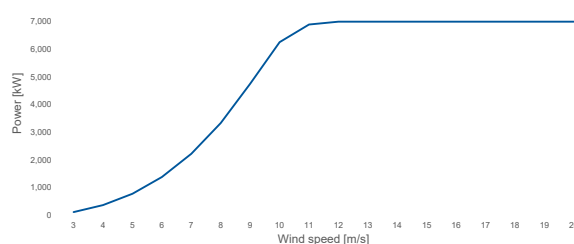
## Manufacturing

Location	WEG-owned plant in Minneapolis, MN
IRA domestic content <sup>E</sup>	56.4% or higher

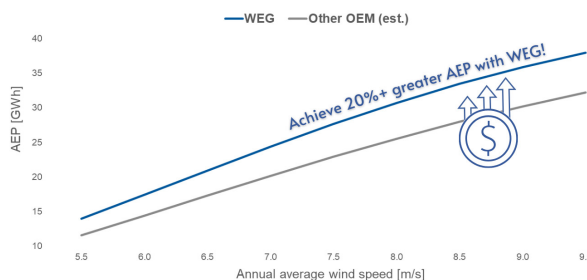
## Additional information

Options	Continuous Monitoring System (CMS) Cold Climate Variant (CCV) Site-specific power curves Sound-optimized power modes Fire suppression FAA lights and markings Birds & bats protection Flicker control system Service personnel lift
Craneless service	Gearbox, generator, converter, transformer

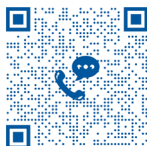
## Power curve<sup>C</sup>



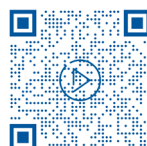
## AEP curve<sup>C,D</sup>



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