

SUZLON
POWERING A GREENER TOMORROW

S120

2.1 MW
PLATFORM
DOING MORE WITH LESS

THE SUZLON GROUP

The Suzlon Group is one of the leading renewable energy solutions providers in the world with ~20.5 GW* of wind energy capacity installed across 17 countries. Headquartered at Suzlon One Earth in Pune, India; the Group comprises of Suzlon Energy Limited and its subsidiaries. A vertically integrated organisation, with in-house research and development (R&D) centres in Germany, the Netherlands, Denmark and India, Suzlon's world-class manufacturing facilities are spread across multiple locations in India. With over 28 years of operational track record, the Group has a diverse workforce of over 6,300 employees. Suzlon is also India's No. 1 wind energy service company with the largest service portfolio of over 14.5 GW in wind energy assets. The Group has ~6 GW of installed capacity outside India. Suzlon offers a comprehensive product portfolio led by the 2 MW and 3 MW series of wind turbines.

*Global installations of Suzlon manufactured wind turbine generators.
Data as on 31st December 2023

KEY DESIGN FEATURES

Blade:

SB 59 with massive swept area of 11,225m² and new generation of profiles along with superior leading edge protection coating provides longer maintenance cycles and ensures maximum generation in low wind regimes.

Generator:

Grid-friendly DFIG electrical systems continue to smoothly integrate wind turbines into the ever demanding utility network, meeting the latest grid requirements.

Hub:

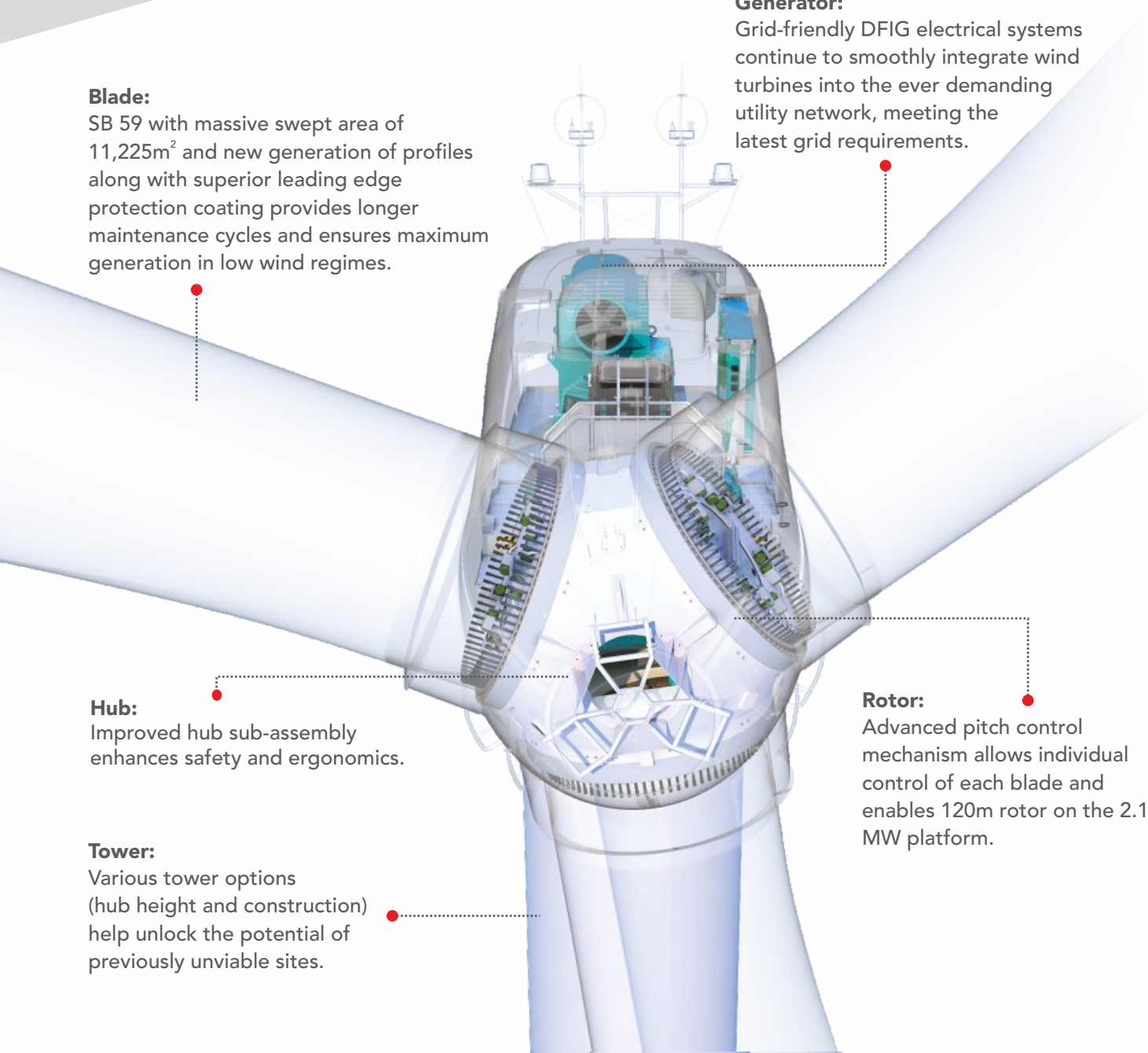
Improved hub sub-assembly enhances safety and ergonomics.

Tower:

Various tower options (hub height and construction) help unlock the potential of previously unviable sites.

Rotor:

Advanced pitch control mechanism allows individual control of each blade and enables 120m rotor on the 2.1 MW platform.

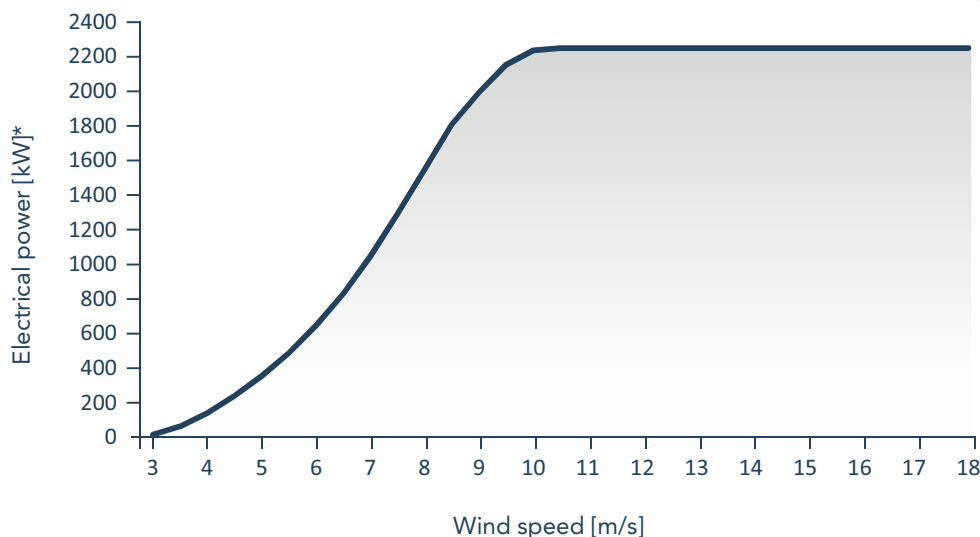


S120

The S120 2.1 MW is available in three variants with towers up to 140m hub height that helps in unlocking the potential of previously unviable sites. With varied hub-height options, wind park owners can optimize the configuration based on the site's wind shear for optimal energy output.

Grid-friendly DFIG electrical systems continue to smoothly integrate wind turbines into the ever demanding utility network, meeting the latest grid requirements. Next generation controls and state-of-the-art software maximises the energy yield further and helps to reduce the Levelised Cost of Energy (LCoE). The superior performance of the S120 will improve return of investment (ROI) for customers and has set a new benchmark in the Indian wind industry. The S120 - 140m (140 meter hub height) serial fleet turbines demonstrate high performance standards and is operating with above 98% availability.

POWER CURVE



TECHNICAL SPECIFICATIONS



OPERATING DATA:

Wind class - IEC S
Rated power - 2.1 MW
Cut-in wind speed - 3.0m/s
Rated wind speed - 9.5m/s
Cut-out wind speed -
26.1m/s (3-second average)
18.0m/s (10-minute average)



ROTOR:

Rotor diameter - 120m
Swept area - 11,225m²



GENERATOR:

Frequency - 50Hz
Asynchronous - Slip ring
asynchronous generator



TOWER:

Hub heights - 105m | 120m | 140m
(depending on the type of the tower)
Type - Steel Tubular | Hybrid Lattice |
Hybrid Concrete



BLADE:

Make - Suzlon SB59

* Power curve according to wind class IEC S and air density 1.16kg/m³. The released power curve has been created according to IEC 61400-12 guidelines. The actual power curve on specific sites varies due to site-specific conditions.

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