

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 presence in 17 countries. Headquartered at Suzlon One Earth in Pune, India. A vertically integrated organization, with over twenty-seven years of operational track record, the Group has a cumulative global installation of over 19.7 GW of wind energy capacity, over 5,800 employees with diverse nationalities and world-class manufacturing facilities. Suzlon is the only Indian wind energy Company with a large in-house Research and Development (R&D) set-up in Germany, the Netherlands, Denmark and India. The Group is the custodian of 13.8 GW of wind energy assets under service in India making it the largest Operations and Maintenance Company in the Indian renewable energy sector. The Group also has 5.9 GW of installed capacity outside India.

**Data till 31st December 2022*

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:

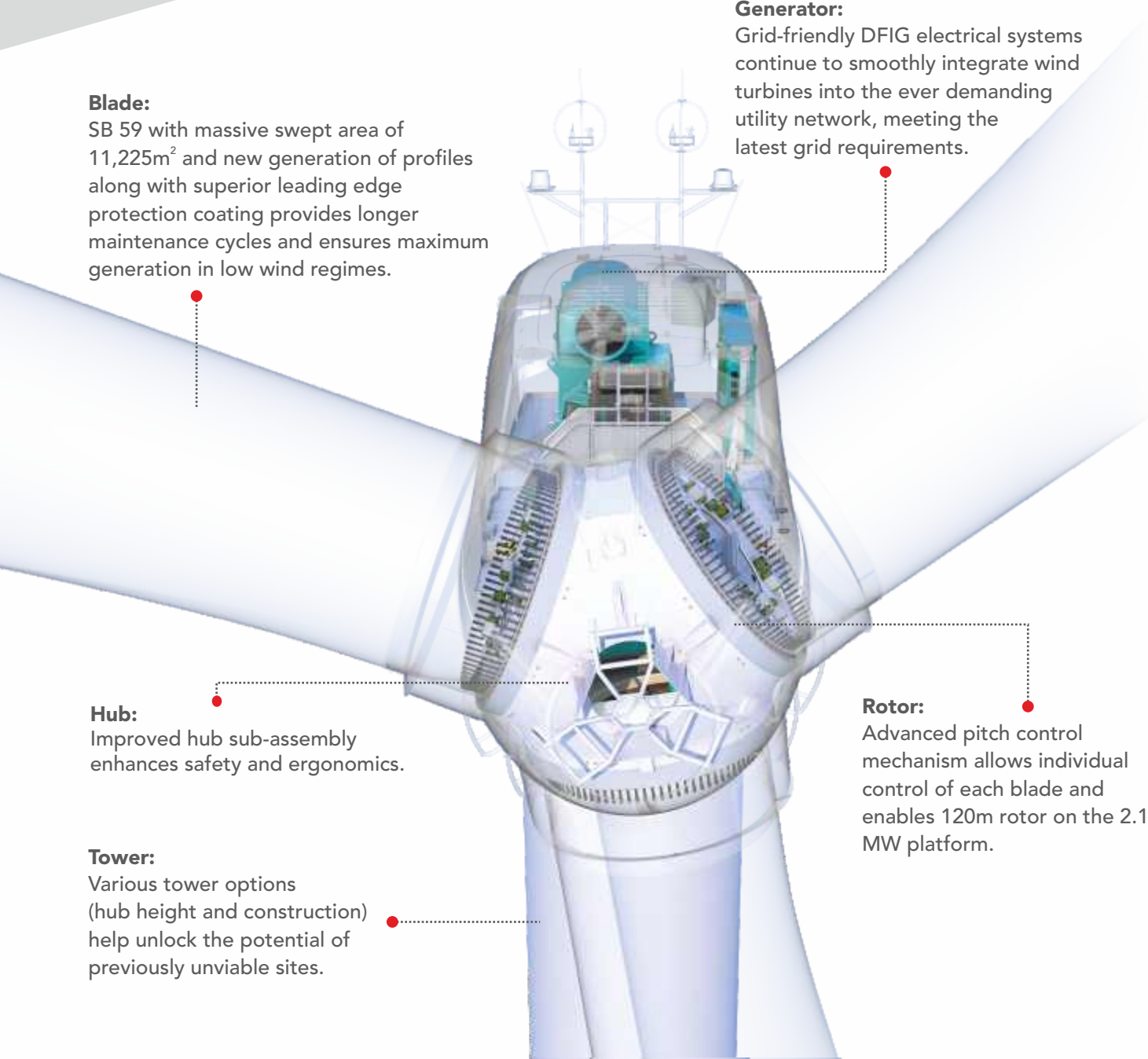
Improved hub sub-assembly enhances safety and ergonomics.

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

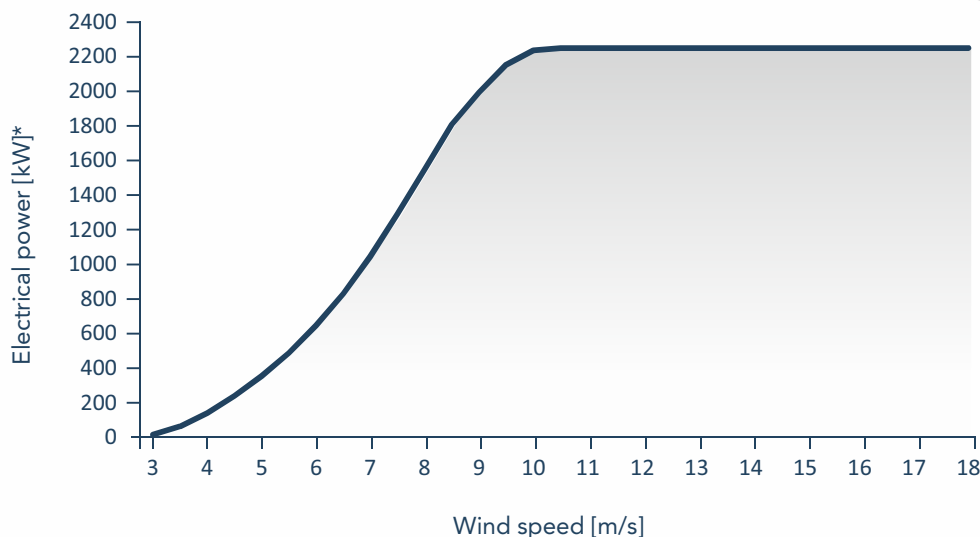
With our hugely successful 2.1 MW platform, we are constantly pushing our limits and the latest outcome of these efforts is the S120 - 2.1 MW.

With this product, we have yet again redefined the benchmark and built a world-class product specifically for low wind regimes.

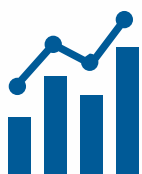
Tower variants include various hub height (90m, 120m, 140m) and construction (Steel Tubular, Hybrid Lattice, Hybrid Concrete) options depending upon site conditions.

The superior performance of the S120 will improve ROI for customers and set a new benchmark in the Indian wind industry.

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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