

**SUZLON**  
POWERING A GREENER TOMORROW



**S120**

**2.1 MW**  
**PLATFORM**  
DOING MORE WITH LESS

# THE SUZLON GROUP

The Suzlon Group is a leading global renewable energy solutions provider, with approximately 20.9 GW\* of wind energy capacity installed across 17 countries. Headquartered at Suzlon One Earth in Pune, India, the Group includes Suzlon Energy Limited and its subsidiaries. A vertically integrated organisation, Suzlon has in-house R&D centres in Germany, the Netherlands, Denmark, and India, and world-class manufacturing facilities across India. With 29 years of operational excellence and a diverse workforce of over 7,700 employees, Suzlon is India's No. 1 Renewable Energy Solutions company, managing 15 GW of assets and an additional 6 GW installed outside India. Its portfolio includes the advanced 2.x MW and 3.x MW series of wind turbines.

\*Global installations of Suzlon manufactured wind turbine generators.  
Data as of 30th September 2024

## KEY DESIGN FEATURES

### Blade:

SB 59 with massive swept area of 11,225m<sup>2</sup> 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:

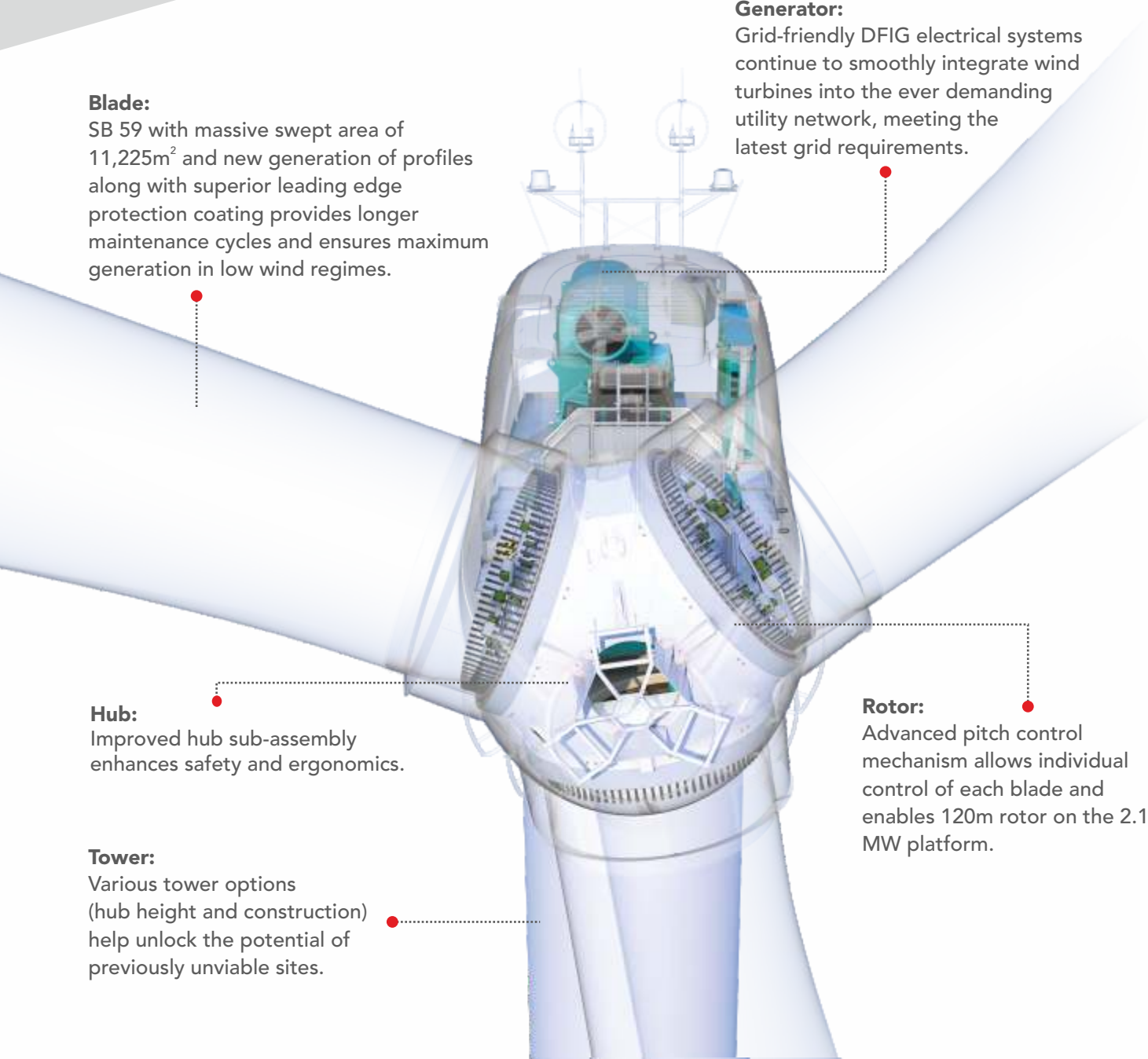
Improved hub sub-assembly enhances safety and ergonomics.

### 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.

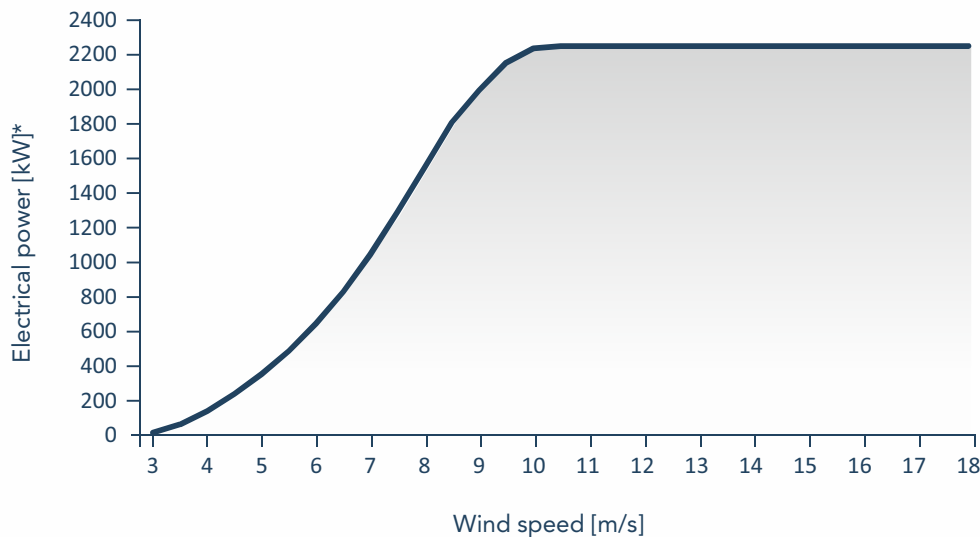


# S120

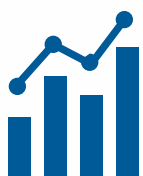
The S120 2.1 MW is available in three variants with towers up to 140m hub height that helps in unlocking the potential of previously unviable sites. With varied hub-height options, wind park owners can optimize the configuration based on the site's wind shear for optimal energy output.

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 - 11,225m<sup>2</sup>



### 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/n73 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.

## INDIA

Delhi  
Suzlon Energy Ltd.  
9th Floor, Eros Corporate Tower  
Nehru Place, New Delhi 110 019, India  
Tel.: +91.11.4650 6000  
Email: marketing.india@suzlon.com  
Info-india@suzlon.com

Mumbai  
Suzlon Energy Ltd.  
1207, 12th Floor, Raheja Centre  
Free Press Journal Marg  
Nariman Point  
Mumbai 400 021, India  
Tel.: +91.22.66393200  
Email: marketing.india@suzlon.com  
Info-india@suzlon.com

Chennai  
Suzlon Energy Ltd.  
104-106, 1st floor, Delta Wing  
Raheja Towers, 177, Anna Salai  
Chennai 600 002, India  
Tel.: +91.44.6609 3000  
Email: marketing.india@suzlon.com  
Info-india@suzlon.com

## AUSTRALIA

Suzlon Energy Australia Pty. Ltd.  
Level 1, 182-184 Stawell Street  
Burnley, Victoria 3121.  
Tel.: +3.8415 8900  
Email: sea.sales@suzlon.com

## EUROPE

Suzlon Energy A/S  
Bredskifte Alle 11, Parterre,  
DK - 8210 Aarhus V.  
Denmark  
Phone: +45 8943 8943  
Email: info-dk@suzlon.com

## SPAIN

Suzlon Wind Energy Spain S.L.U.  
Paseo de Castellana 135, 7ª planta  
28046, Madrid, Spain  
Tel.: +34 91 579 47 27  
Email: info-spain@suzlon.com

## LATAM

Suzlon Wind Energy NICARAGUA S.A.  
Hospital Militar 1c. abajo  
Managua, Nicaragua  
Phone: +505 2563 7010

**SUZLON**  
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GROUP HEADQUARTERS  
One Earth, Hadapsar, Pune 411 028, India  
Tel.: +91.20.6702 2200 / +91.20.6135 6135  
Email: marketing.india@suzlon.com

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