

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 ~20.3 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 14 locations in India. With over 28 years of operational track record, the Group has a diverse workforce of over 6,000 employees. Suzlon is also India's No. 1 wind energy service company with the largest service portfolio of over 14.3 GW of wind energy assets. The Group has ~6 GW of installed capacity outside India. The 3 MW Series wind turbine technology platform is the latest addition to its comprehensive product portfolio.

*Global installations of Suzlon manufactured wind turbine generators.
Data as on 30th September 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:

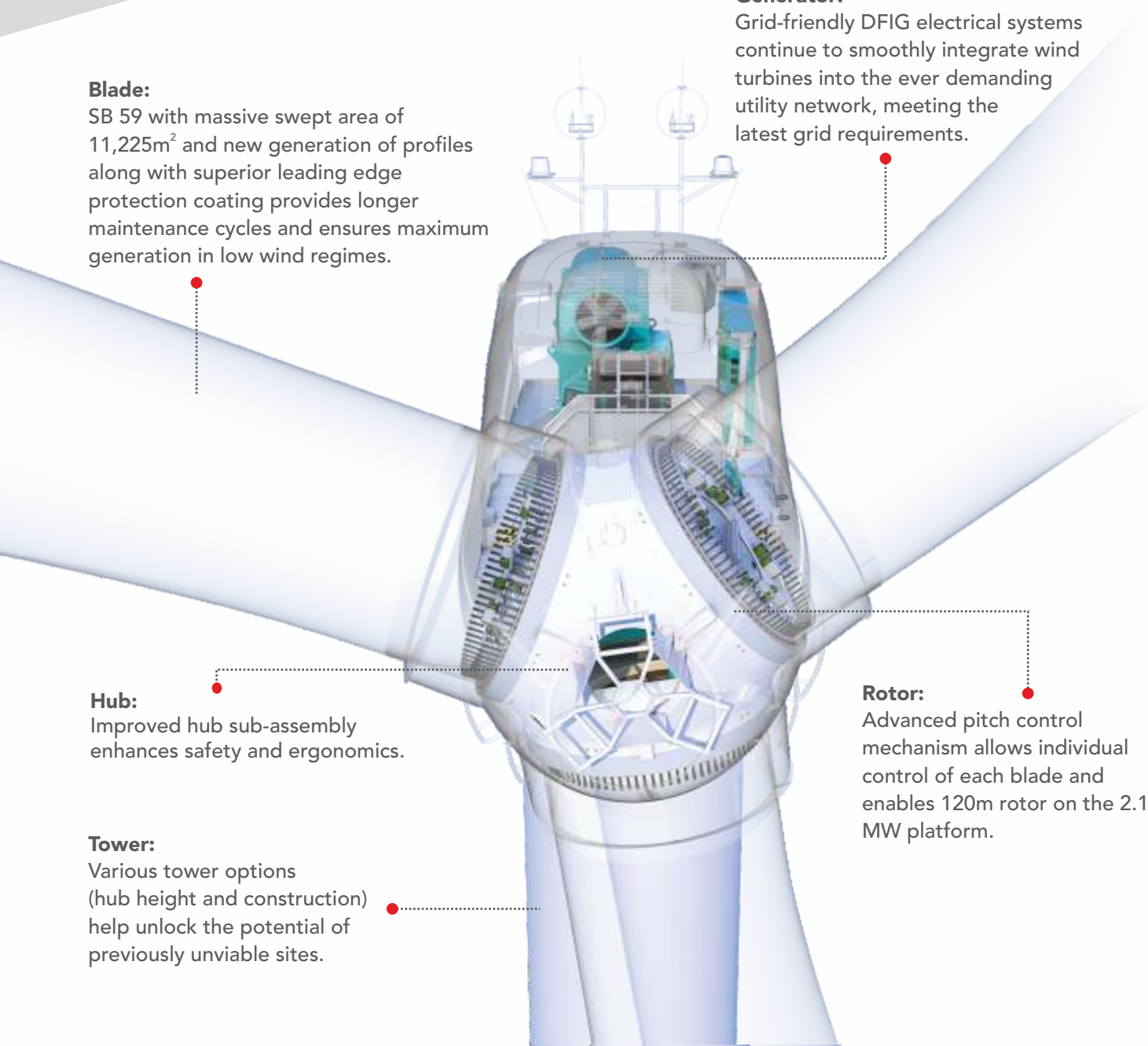
Improved hub sub-assembly enhances safety and ergonomics.

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.

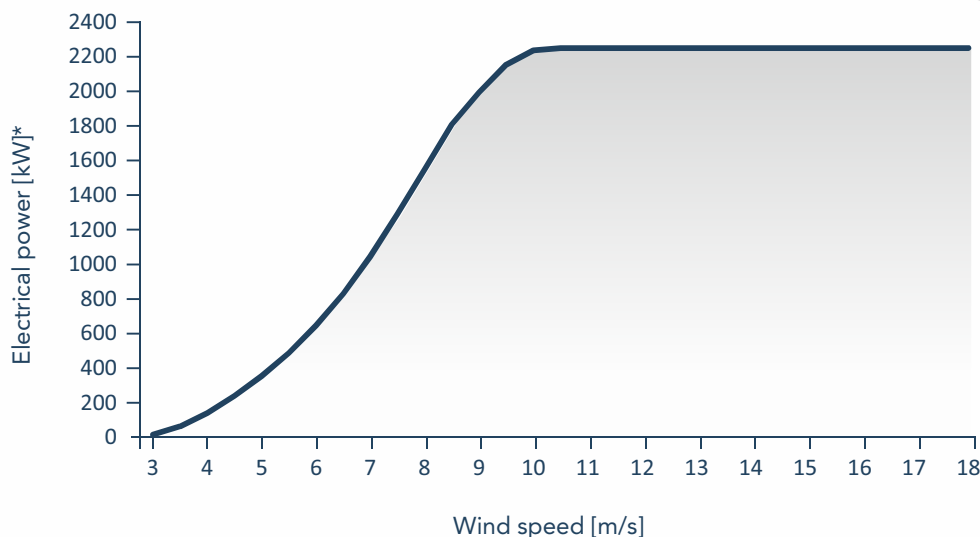


S120

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.

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
POWERING A GREENER TOMORROW

GROUP HEADQUARTERS

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

Disclaimer: This brochure (the "Brochure"), has been prepared by Suzlon Energy Limited and its affiliates (the "Company"), is solely for information purposes and does not constitute any offer, recommendation or invitation to purchase or rely upon the information provided in the Brochure. This Brochure has been prepared by the Company based on information and data which is available with the Company, but the Company makes no representation or warranty, express or implied, whatsoever and no reliance shall be placed on, the truth, accuracy, reliability or fairness of the contents of this Brochure. Any liability in respect of the contents of or any omission from, this Brochure is expressly excluded. Such forward-looking statements are not guarantees of future performance and are subject to known and unknown risks, uncertainties and assumptions that are difficult to predict. The Company assumes no obligation to update any forward-looking information contained in this Brochure. No warranty, responsibility or liability is accepted for any loss or damage howsoever arising that you may suffer as a result of this Brochure and any and all warranty, responsibility and liability is expressly disclaimed by the Management, the Shareholders and the Company or any of them or any of their respective directors, officers, affiliates, employees, advisers or agents. All copyrights and other intellectual property rights, including trademarks, in all text, images, and other contents in this document, even if not specifically indicated as such, are the property of the Suzlon Energy Limited, India or are included with the permission of Suzlon Energy Limited. The contents of this document are strictly confidential and are addressed to the recipient and for the recipient's study and use only. Any reproduction, modification, distribution, transmission, republication or display of the contents of this document or parts thereof is strictly prohibited, unless with the explicit written prior consent of the Company and on the condition that all copyrights and other proprietary rights are reflected correctly. Suzlon Energy Limited reserves the right to make any changes and corrections to this document at any time and without prior notification. Copyright © Suzlon Energy Limited, 2023 | All rights reserved.