



S133

2.6 to 3 MW
Platform

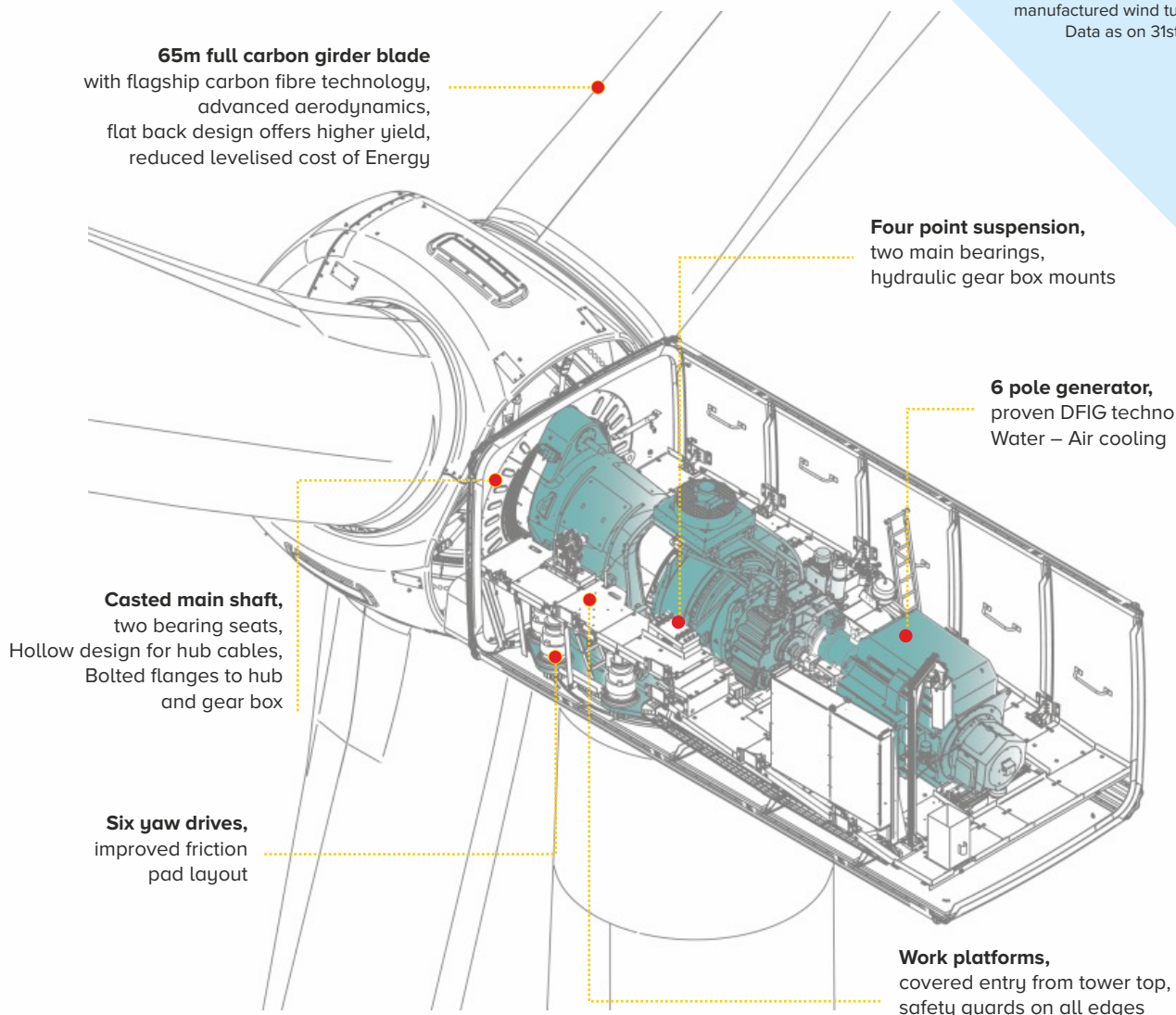
SUZLON
POWERING A GREENER TOMORROW

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.

KEY DESIGN FEATURES

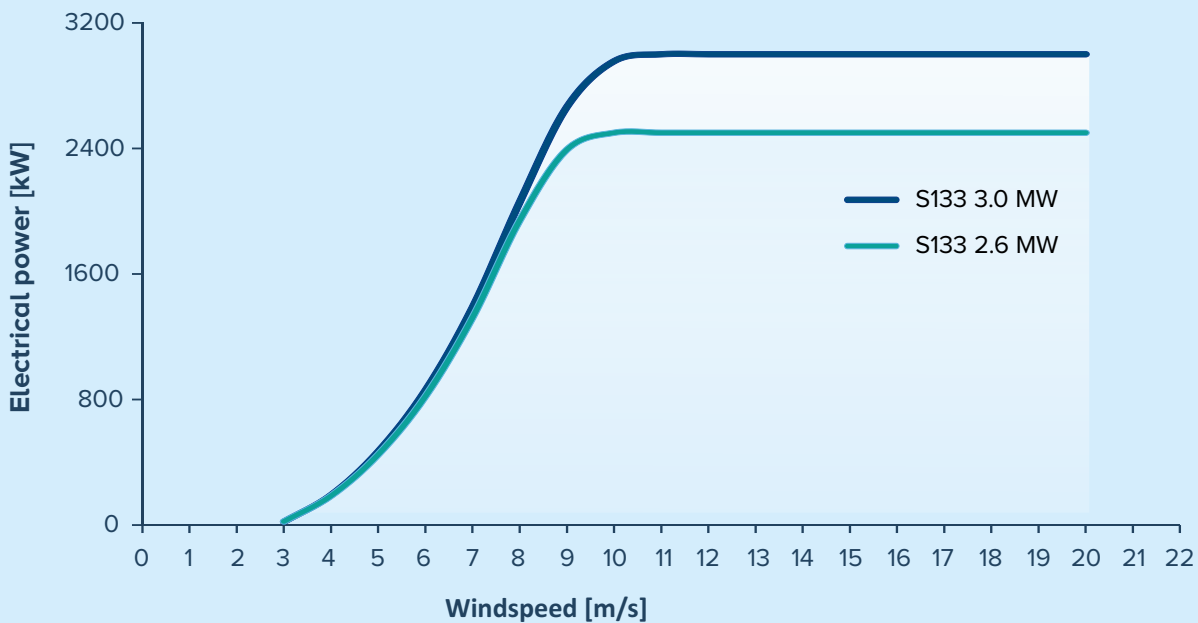
*Global installations of Suzlon manufactured wind turbine generators. Data as on 31st December 2023



THE S133 ADVANTAGE

Suzlon introduced the 3.0 MW platform to unlock unviable sites and deliver improved energy yield suitable for all wind regimes. The S133 is one of India's largest wind turbine generators (WTG). This platform is extendable up to 3.0 MW depending on the site wind conditions. The prototype of S133-105m was set up in August 2019. These products are available in 2.6 MW to 3.0 MW variants and offer up to 160 meters hub heights. It delivers a 25-30% higher generation over the S120. The same has been confirmed in successful measurement and validation campaigns over the last years. The S133 with a 160 meter tower is commercially operating successfully as part of the Initial fleet since June 2022. The product range is validated and certified according to latest India Grid Code requirements.

POWER CURVE



TECHNICAL SPECIFICATIONS



OPERATING DATA:

Wind class - IEC S
Rated power - 2.6 MW to 3.00 MW
Cut-in wind speed - 3.0m/s
Rated wind speed - 9.5 - 10m/s
Cut-out wind speed - 20m/s



ROTOR:

Rotor diameter - 133m
Swept area - 13,070m²



GENERATOR:

Frequency - 50Hz
Proven DFIG technology
Water – Air cooling



TOWER:

Hub heights - Up to 160m
Type - Modular Hybrid
Lattice Tower



BLADE:

Make - Suzlon SB65
(Carbon girder, Flatback
and metal root inserts)

* The 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

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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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