

S111

GET THE
MOST OUT OF
ANY SITE



2.1 MW
PLATFORM
DOING MORE WITH LESS

THE SUZLON GROUP

Suzlon Group is among the world's leading renewable energy solutions provider and is spread across 18 countries in Asia, Australia, Europe, Africa and Americas. With over two decades of operational track record, the Group has a cumulative installation of over 17 GW of wind energy capacity, over 7,600 employees with diverse nationalities and several world-class manufacturing facilities.

Suzlon is the only Indian wind energy company with large in-house Research and Development (R&D) centres in Germany, the Netherlands, Denmark and India. Over 11 GW of the Group's installation is in India, accounting for ~35% of the country's wind installations, which makes Suzlon the largest player in this sector. The company has also forayed into the solar space. The Group headquartered at Suzlon One Earth in Pune, India comprises Suzlon Energy Limited and its subsidiaries.

KEY DESIGN FEATURES

Nacelle:

Safe & efficient nacelle design for improved ventilation and better air cooling within the nacelle

Generator:

Asynchronous induction generator with 6 pole design and DFIG for variable speed operation optimal reactive power feeds accommodates fluctuating utility demands.

Hub:

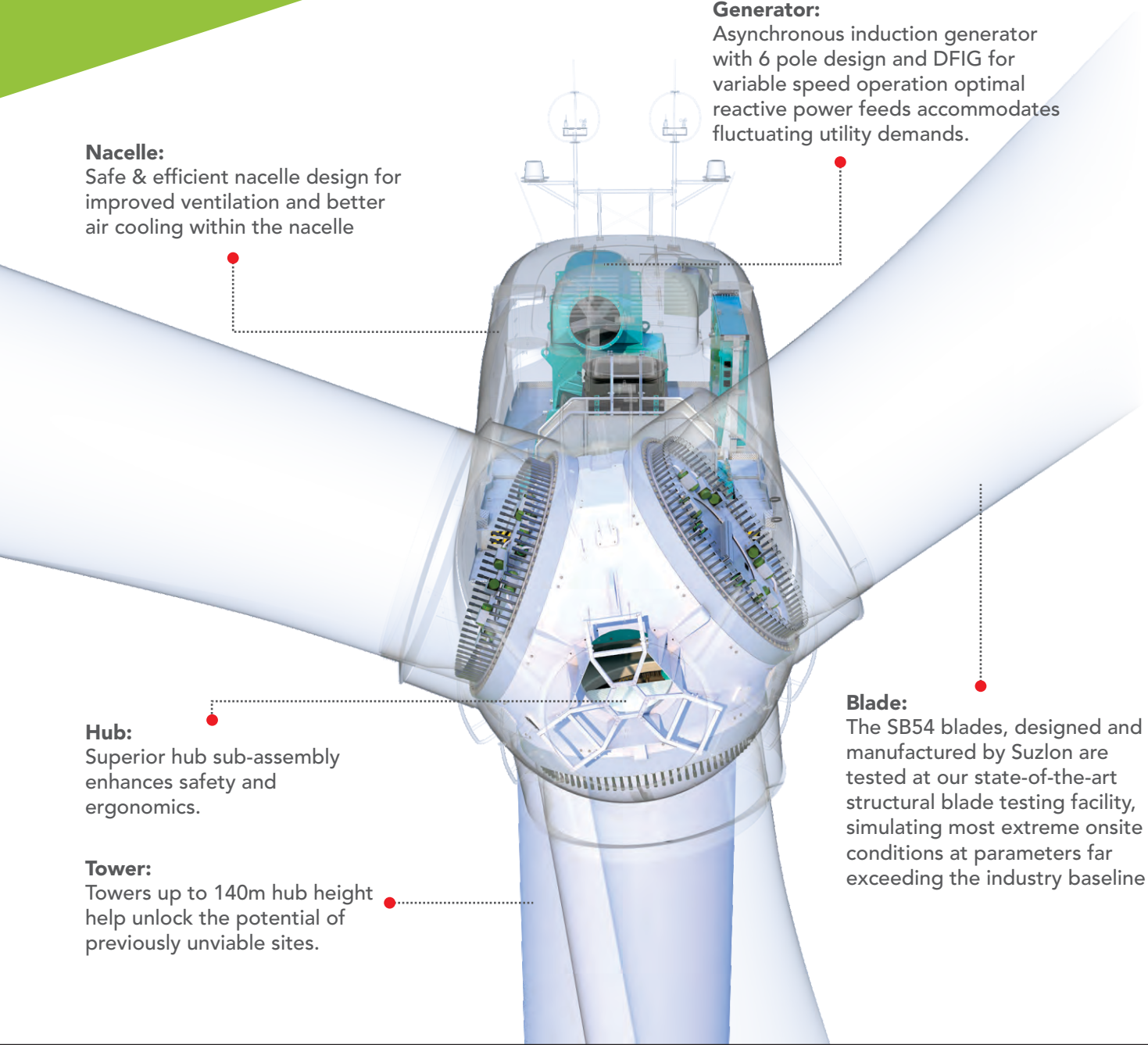
Superior hub sub-assembly enhances safety and ergonomics.

Tower:

Towers up to 140m hub height help unlock the potential of previously unviable sites.

Blade:

The SB54 blades, designed and manufactured by Suzlon are tested at our state-of-the-art structural blade testing facility, simulating most extreme onsite conditions at parameters far exceeding the industry baseline

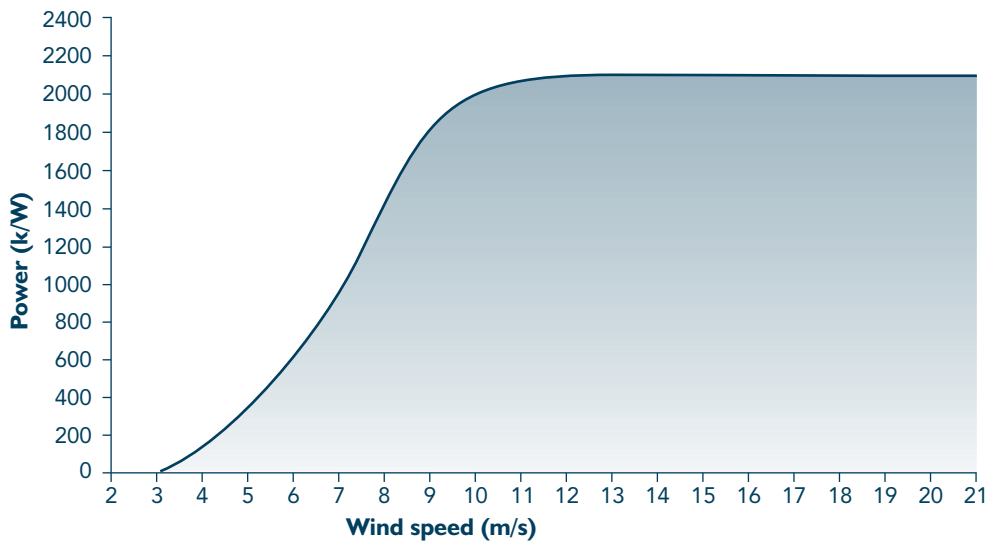


S111

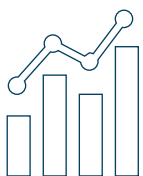
Suzlon boasts of a wide range within its 2.1 MW suite of products with varying rotor blade and tower heights suitable for all wind regimes. The S111 wind turbine has an impressive 111 rotor diameter, which can extract maximum power from available wind.

2.1 MW S111 wind turbine generator (WTG) uses the award winning lattice tubular technology to achieve an unprecedented hub height of 140 meters (equivalent to ~40 storey building). It is specially designed to optimally harness wind resources at higher altitudes.

POWER CURVE

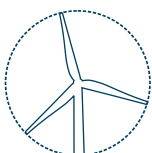


TECHNICAL SPECIFICATIONS



OPERATING DATA:

Wind class - IEC IIIA
Rated power - 2.1 MW
Cut-in wind speed - 3m/s
Rated wind speed - 12.5m/s
Cut-out wind speed - 21m/s



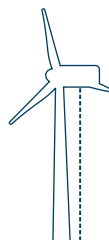
ROTOR:

Rotor diameter - 111.8m
Swept area - 9,852sq m



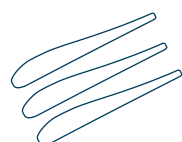
GENERATOR:

Frequency - 50Hz Type
Asynchronous - 3 phase induction generator with slip rings operated with rotor circuit inverter system (DFIG)



TOWER:

Hub heights - 90m | 120m | 140m
Type - Steel tubular | Hybrid lattice



BLADE:

Make - Suzlon SB54

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SUZLON

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