

SUZLON
POWERING A GREENER TOMORROW

S111

**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 18 GW of wind energy capacity, over 7,500 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 12 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 and efficient nacelle design for improved ventilation and better air cooling.

Generator:

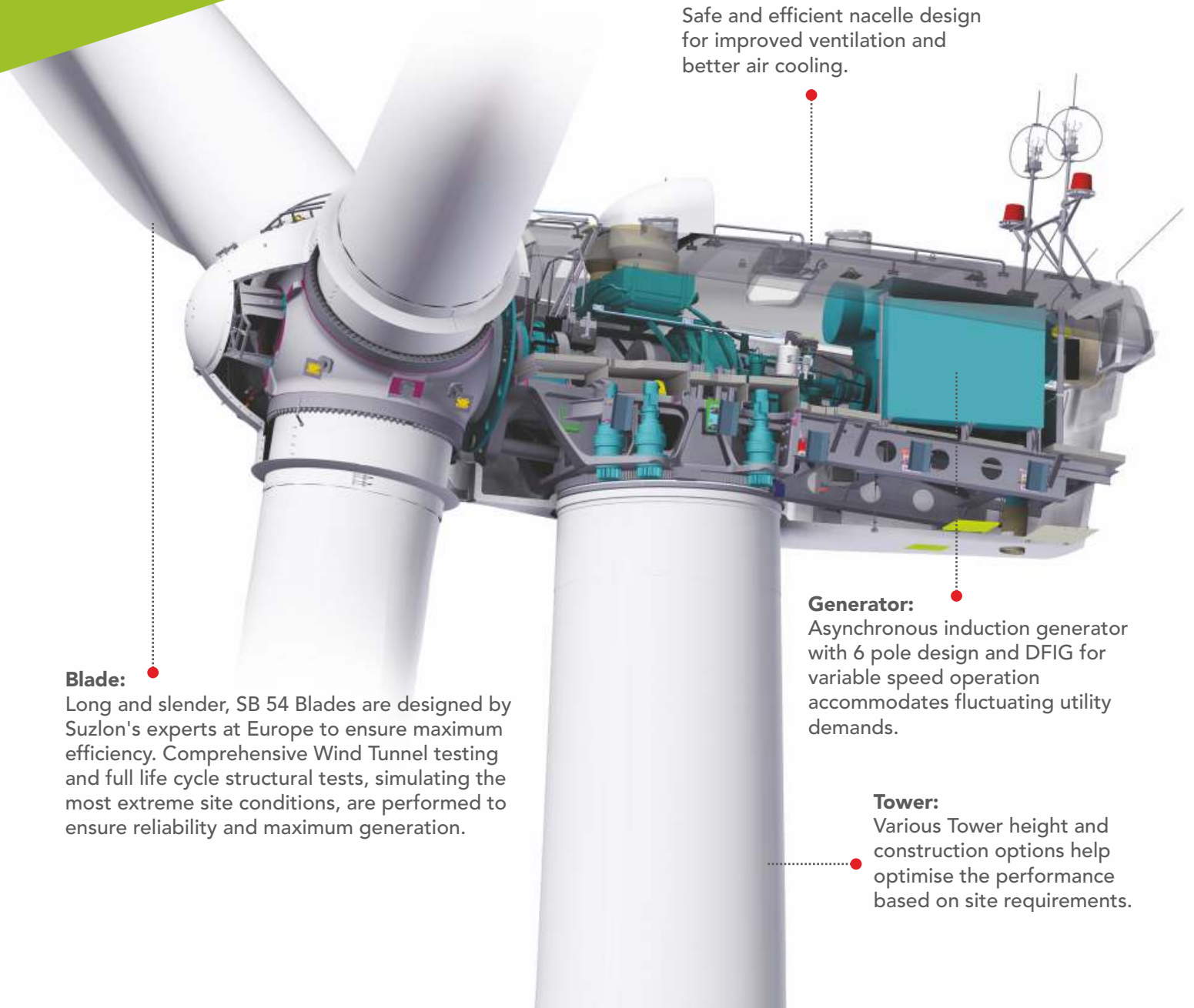
Asynchronous induction generator with 6 pole design and DFIG for variable speed operation accommodates fluctuating utility demands.

Tower:

Various Tower height and construction options help optimise the performance based on site requirements.

Blade:

Long and slender, SB 54 Blades are designed by Suzlon's experts at Europe to ensure maximum efficiency. Comprehensive Wind Tunnel testing and full life cycle structural tests, simulating the most extreme site conditions, are performed to ensure reliability and maximum generation.

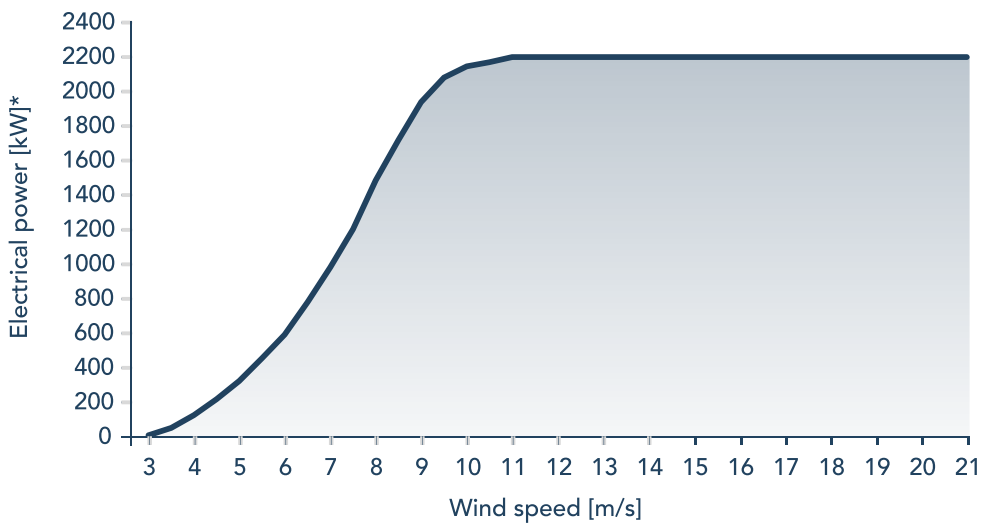


S111

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.

S111 offers various hub height (90m, 120m, 140m) and construction (Steel Tubular, Hybrid Lattice, Hybrid Concrete) options depending upon site conditions to optimally harness wind energy for maximum generation.

POWER CURVE

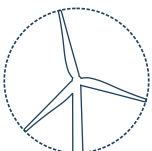


TECHNICAL SPECIFICATIONS



OPERATING DATA:

Wind class - IEC III A / IEC S
Rated power - 2.1 MW
Cut-in wind speed - 3.0m/s
Rated wind speed - 12.5m/s
Cut-out wind speed - 30.0m/s (3-second average)
21.0m/s (10-minute average)



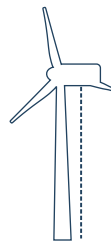
ROTOR:

Rotor diameter - 111.8m
Swept area - 9,852m²



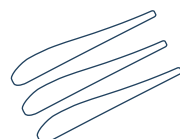
GENERATOR:

Frequency - 50Hz / 60Hz 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 | Hybrid Concrete



BLADE:

Make - Suzlon SB54

*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.

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