

S111

2.1 MW
PLATFORM
DOING MORE WITH LESS

THE SUZLON GROUP

The Suzlon Group is one of the leading renewable energy solutions provider in the world with presence in 17 countries, and headquartered at Suzlon One Earth in Pune, India. A vertically integrated organization, with over twenty five years of operational track record, the Group has a cumulative global installation of over 19.1 GW* of wind energy capacity, over 5,428 employees with diverse nationalities and world-class manufacturing facilities. Suzlon is the only Indian wind energy Company with a large in-house Research and Development (R&D) set-up in Germany, the Netherlands, Denmark and India. The Group is the custodian of over 13.1 GW of wind energy assets under service in India making it the 3rd largest Operations and Maintenance Company (over 9000 turbines) in the Indian power sector. The Group has ~1.0 GW of wind energy assets under service outside India.

**Data as on 31st December 2021*

KEY DESIGN FEATURES

Nacelle:

Safe and efficient nacelle design for improved ventilation and better air cooling.

Blade:

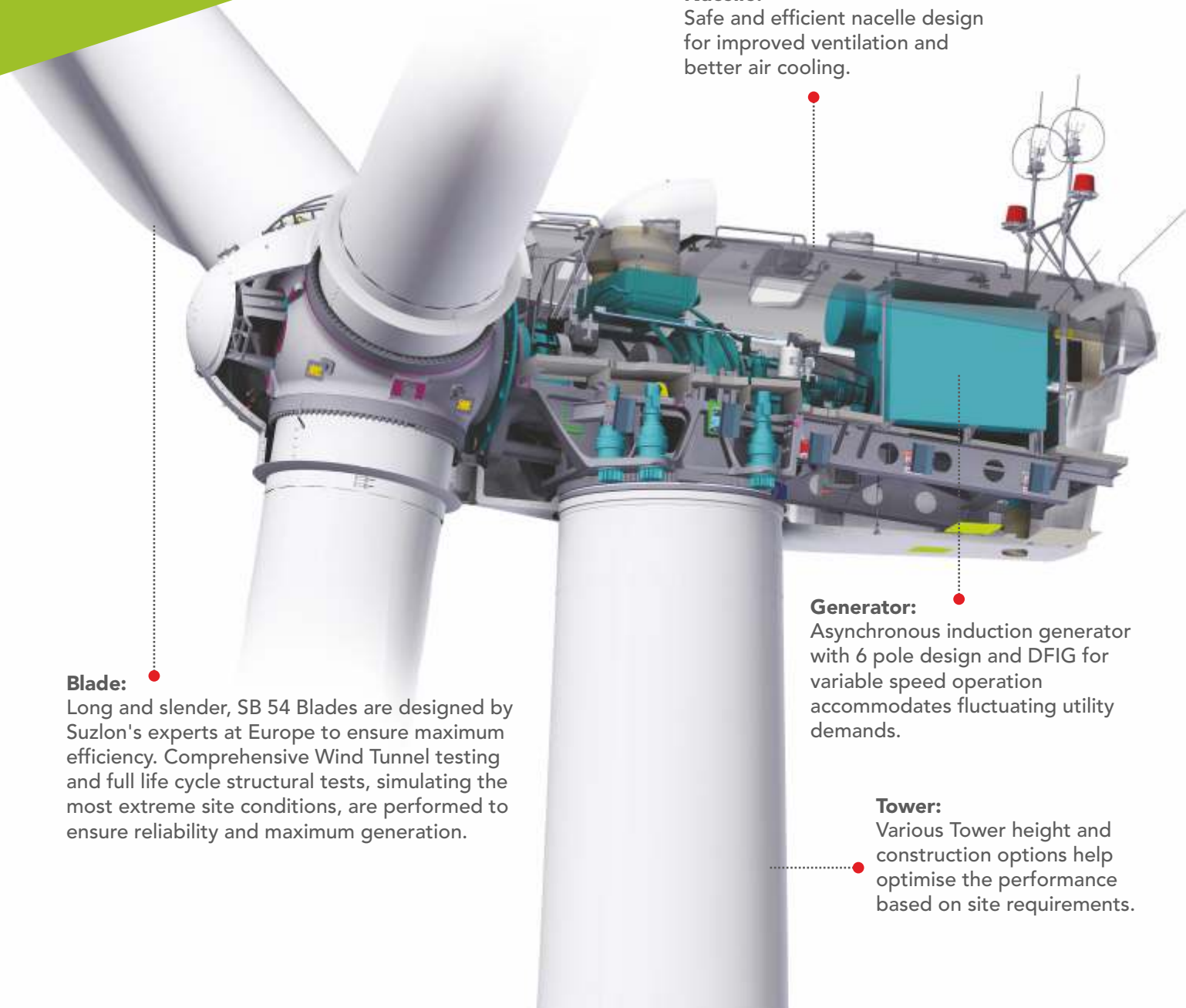
Long and slender, SB 54 Blades are designed by Suzlon's experts at Europe to ensure maximum efficiency. Comprehensive Wind Tunnel testing and full life cycle structural tests, simulating the most extreme site conditions, are performed to ensure reliability and maximum generation.

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.

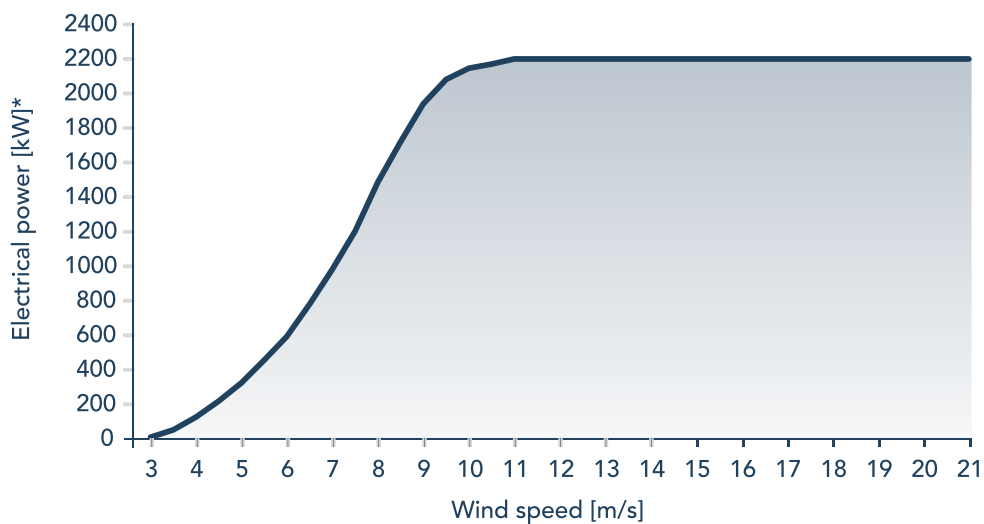


S111

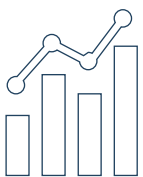
Suzlon boasts of a wide range within its 2.1 MW suite of products with varying rotor blade and tower heights suitable for all wind regimes. The S111 wind turbine has an impressive 111 rotor diameter, which can extract maximum power from available wind.

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

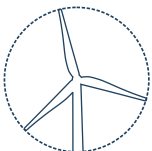


TECHNICAL SPECIFICATIONS



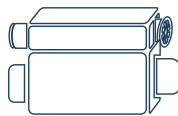
OPERATING DATA:

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)



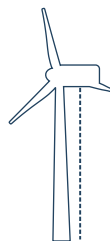
ROTOR:

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



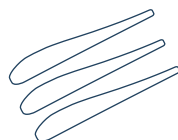
GENERATOR:

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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SUZLON

POWERING A GREENER TOMORROW

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