



# S144

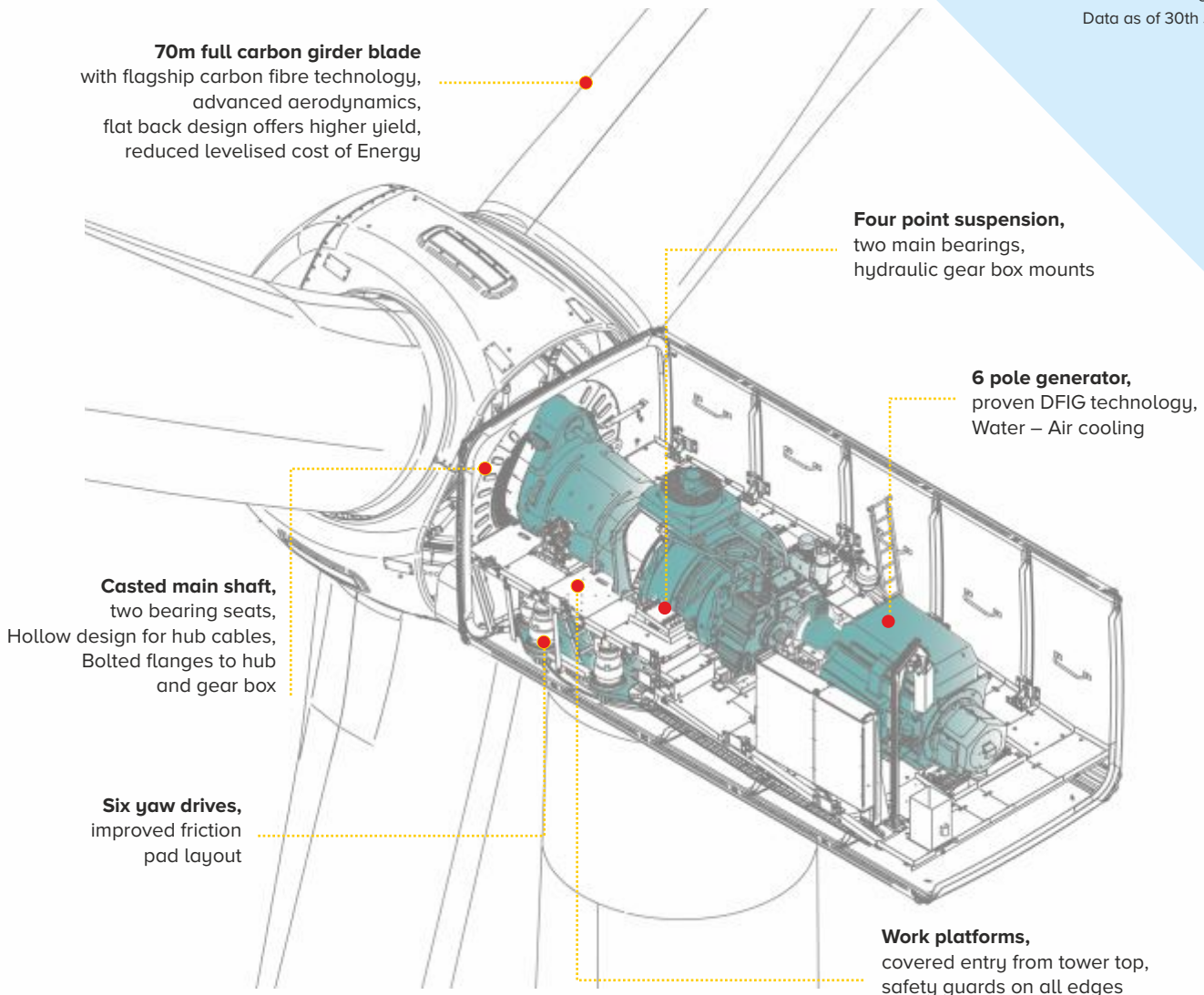
3.x MW Platform

# THE SUZLON GROUP

The Suzlon Group is one of the leading renewable energy solutions providers in the world with ~20.8 GW\* of wind energy capacity installed across 17 countries. Headquartered at Suzlon One Earth in Pune, India; the Group comprises 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 29 years of operational track record, the Group has a diverse workforce of over 6,400 employees. Suzlon is also India's No. 1 wind energy service company with the largest service portfolio of over 14.8 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 of 30th June 2024



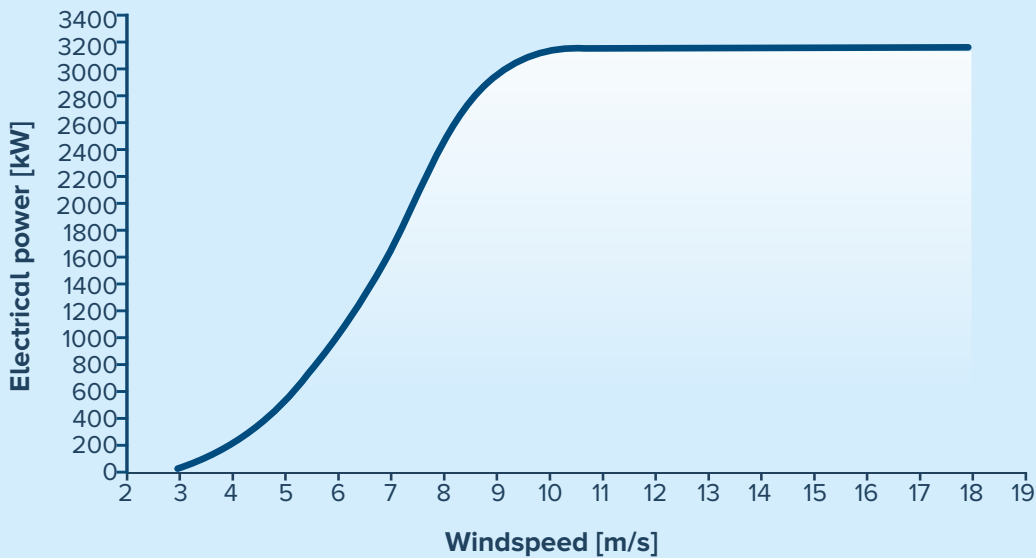


# THE S144 ADVANTAGE

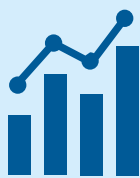
Suzlon introduced the new 3 MW series to unlock unviable sites and to deliver improved energy yield suitable for all wind regimes. The S144 wind turbine generator is one of the largest in India, extendable up to 3.15 MW, depending on site wind conditions, available at a hub height of 140 meters going up to 160 meters by its serial launch. At 160 meters hub height the S144 will also be India's tallest wind turbine. Suzlon's S144 fleet will deliver a remarkable 40-43% higher generation over Suzlon's current model, the S120 – 2.1 MW wind turbine, showcasing its ability to optimize wind resources at higher altitudes and make low-wind sites viable.

## POWER CURVE

The power curve for 3.15 MW at standard air density of 1.225 kg/m<sup>3</sup>



## TECHNICAL SPECIFICATIONS



**OPERATING DATA:**  
Wind class - IEC S  
Rated power - 3.00 MW  
Cut-in wind speed - 3.0m/s  
Rated wind speed - 9.2m/s  
Cut-out wind speed - 18m/s



**ROTOR:**  
Rotor diameter - 144m  
Swept area - 16,618m<sup>2</sup>



**GENERATOR:**  
Frequency - 50Hz  
Proven DFIG technology  
Water – Air cooling



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



**BLADE:**  
Make - Suzlon SB70  
(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

**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

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