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**INOXWIND**

DELIVERING  
**THE JOYS OF WIND**

# THE JOYS OF EMPOWERING



## EXPLORING WIND ENERGY INVESTMENTS?

### WELCOME TO INOX WIND - UNLEASHING GROWTH POTENTIAL, WHILE BEING A PART OF THE RENEWABLE ENERGY REVOLUTION

At Inox Wind Limited (IWL), we invite you to explore sustainable investments with the leading player in the wind energy sector. Our primary focus is on delivering cost-effective solutions and reliable performance. As an integral part of the 8 billion US\$ market cap and a century-old legacy of Inox GFL Group, we bring unwavering stability and enduring reliability to your investment endeavours. With a remarkable 15-year track record of market experience and expertise, we're proud to have delivered over 3.1 GW in installed capacity. This establishes our position as a trusted leader in the industry.

At IWL, we demonstrate our commitment to operational excellence by meticulously monitoring over 1,500 wind turbines across India, ensuring consistent and optimized performance. With a cumulative manufacturing capacity of 1.5 GW, we produce key components of Wind Turbine Generators (WTGs) in-house, guaranteeing high quality, advanced technology, reliability, and cost competitiveness. Welcome to a world where your investments go beyond financial gains, making a positive impact on both your portfolio and the planet. With IWL, you shape a sustainable future while maximizing the profitability of your green investments.



## ABOUT THE GROUP

The InoxGFL Group, an Indian conglomerate with a legacy spanning over 100 years is a pioneering force primarily focused on Chemicals and Renewable Energy business verticals. With a rich history, the InoxGFL Group has showcased remarkable resilience, evolving into a formidable enterprise.

The Group's notable success is underscored by its four listed entities, supported by a robust workforce and a global distribution network. Each InoxGFL Group company represents the conglomerate's growth essence, contributing significantly to their respective industries.



Gujarat Fluorochemicals Ltd, a leading Indian Chemicals Company.



Inox Wind Ltd - Fully integrated solutions provider for end-to-end turnkey services.



GFCL EV is a 100% subsidiary of GFL, specializes in manufacturing intermediate materials for Lithium-ion Batteries.



INOX Green Energy Services Limited - Leading wind O&M services provider with more than 8 years of operating history & a fleet of over 3.1 GW.



## VISION

Achieve market leadership in the wind turbine OEM arena through techno-commercial expertise & operational excellence.

## MISSION

Establish ourselves as a leading provider of integrated wind energy solutions in India and expand globally, while aligning with the needs and values of all our stakeholders. This is being achieved by:

- Expanding our manufacturing facilities
- Establish a product suite to provide customers with diverse options of competitive energy solutions
- Enhance quality focus and establish it as a key business pillar
- Increase inventory of wind farm sites and strengthen project management capabilities
- Consolidate market position in India and look to establish global presence

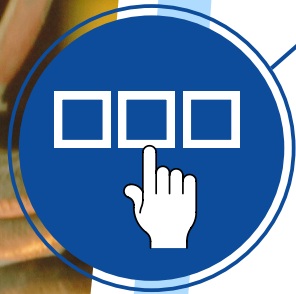


## OUR SERVICES



### Turnkey Project

Complete project development from inception to operation; including Wind Resource Assessment, Land Acquisition & Infra Development, EPC, Commissioning & Stabilization, and O&M.



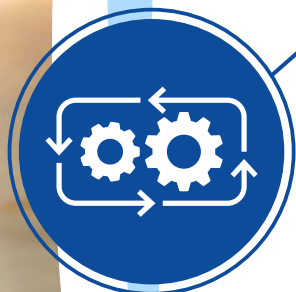
### Limited Scope Services

In addition to turbine supply, we offer tailored flexibility, allowing you to select specific services or a combination thereof that best aligns with your project requirements.



### Turbine Supply

We deliver high-performance WTGs with associated components, including Hub, Nacelle, Blade, and Tower sets, customized to meet project specific requirements of our customers. These are provided without any EPC services, allowing our customers to retain full control over project development.



### Operation & Maintenance Services

Under IGESL, our 24/7 on-site team ensures optimal performance through comprehensive O&M services, guaranteeing reliability and efficiency.

# THE JOYS OF INNOVATION



## DETAILED SERVICE PORTFOLIO

### Wind Resource Assessment & Site Screening:

- Use meso-scale mapping for optimum wind farm site identification.
- Install wind masts for continuous data monitoring in multiple Indian states.
- Determine suitable locations through rigorous wind resource assessments with global consultants.

### Land Acquisition and Infra Development:

- Assess wind resources for wind project installation.
- Analyze areas of interest for wind potential, power evacuation infrastructure, land nature, and access.
- Utilize advanced technology for WTG placement to maximise energy production.

### Development and construction of power evacuation infrastructure:

- Study power evacuation feasibility for the site.
- Finalize evacuation grid substation and transmission line infrastructure.
- Advance construction of roads, pathways, pavements, and platforms for safety during tower erection.



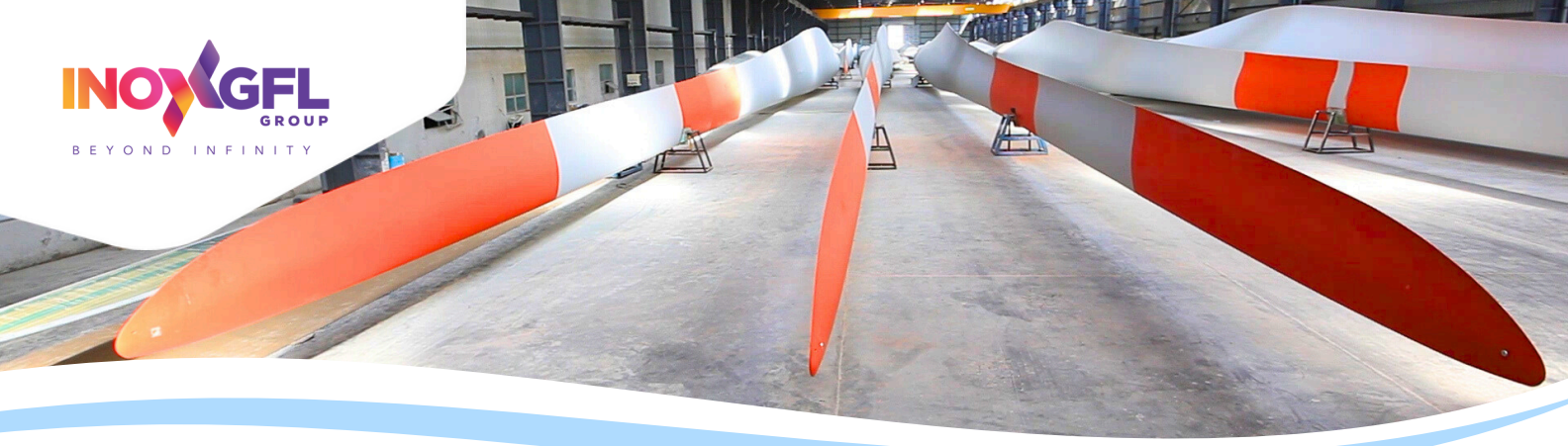
### **Commissioning and stabilization:**

- Use meso-scale mapping for optimum wind farm site identification.
- Install wind masts for continuous data monitoring in multiple Indian states.
- Determine suitable locations through rigorous wind resource assessments with global consultants.

### **Operation and Maintenance:**

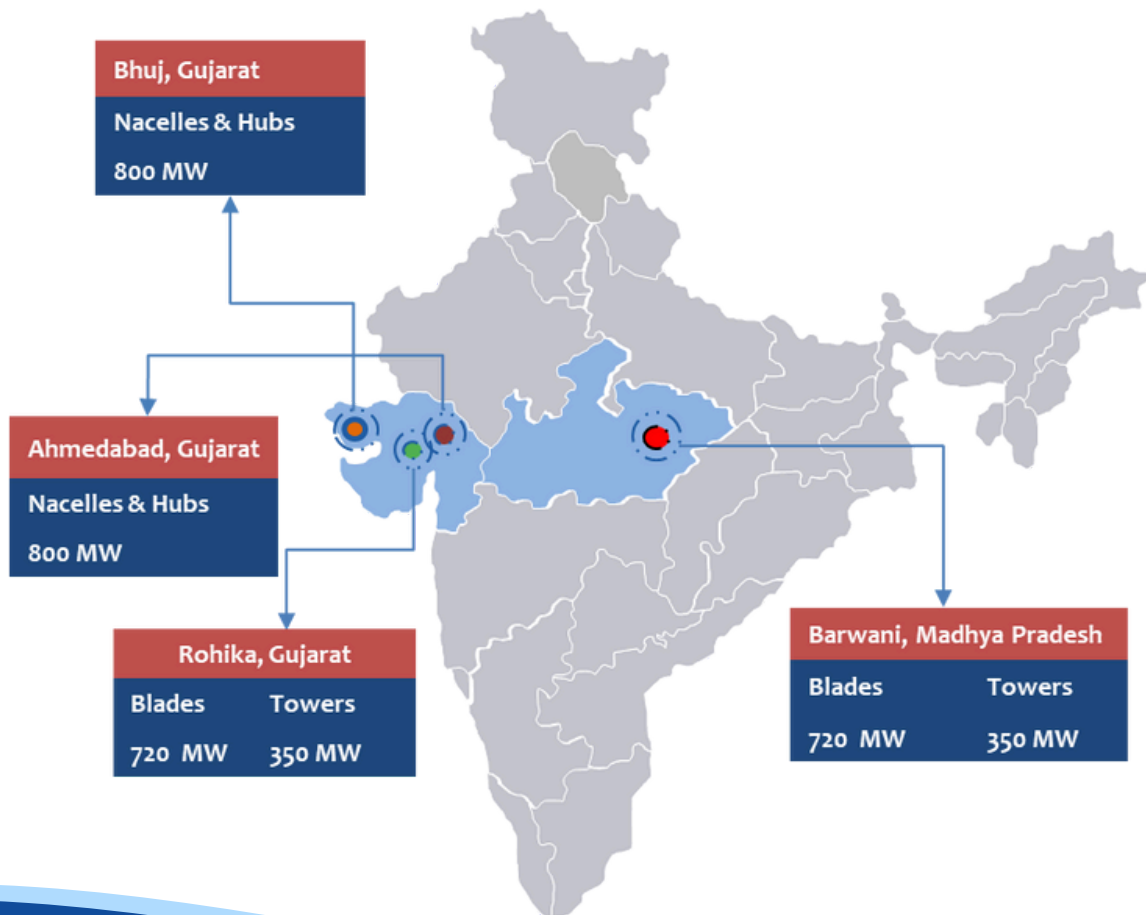
- 24/7 on-site experienced O&M team to maintain the wind power plant and maximize energy output.
- Adhere to preventive maintenance for WTGs, substations, and high-tension lines.
- Ensure infrastructure upkeep, evacuation facility maintenance, and spare parts availability.
- Maintain a store office with emergency spare parts and a proactive approach to performance metrics.
- Operating base: 3.1 GW.





## MANUFACTURING OVERVIEW

We at Inox Wind Limited are a fully integrated player in the wind energy market, boasting state-of-the-art manufacturing plants. Our facilities for key components of WTGs adhere to strict and rigorous quality standards, employing best manufacturing practices and specifications to deliver high-quality products. We provide customized solutions to ensure the highest quality standards at all our wind turbine manufacturing facilities, minimizing risks and reducing costs through production optimization.



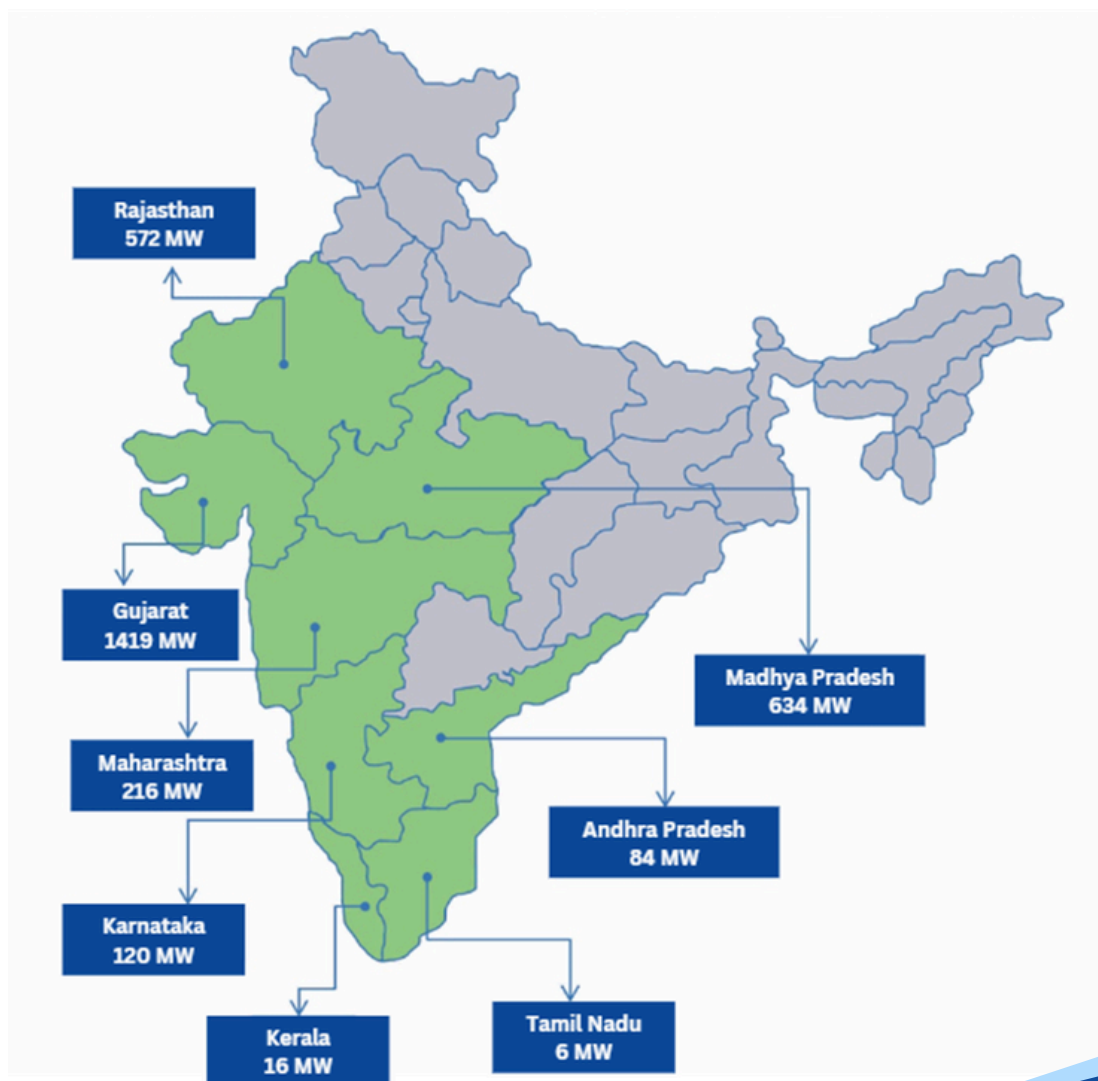
- Ahmedabad facility for Nacelles and Hubs shall become operational from December'24.
- Plant capacity of Nacelle and Hub can be progressively increased; tower manufacturing can be outsourced to match the overall order requirements.



## QUALITY CERTIFICATIONS

- ▶ Inox Wind's 3 MW WTGs are type-certified and **RLMM**-listed by NIWE

## INSTALLATIONS ACROSS ALL WINDY STATES



Total Installed Capacity Across India till June 2024:

**3175 MW\***

\* 100 MW under Commissioning

## NACELLE DIAGRAM - 3 MW

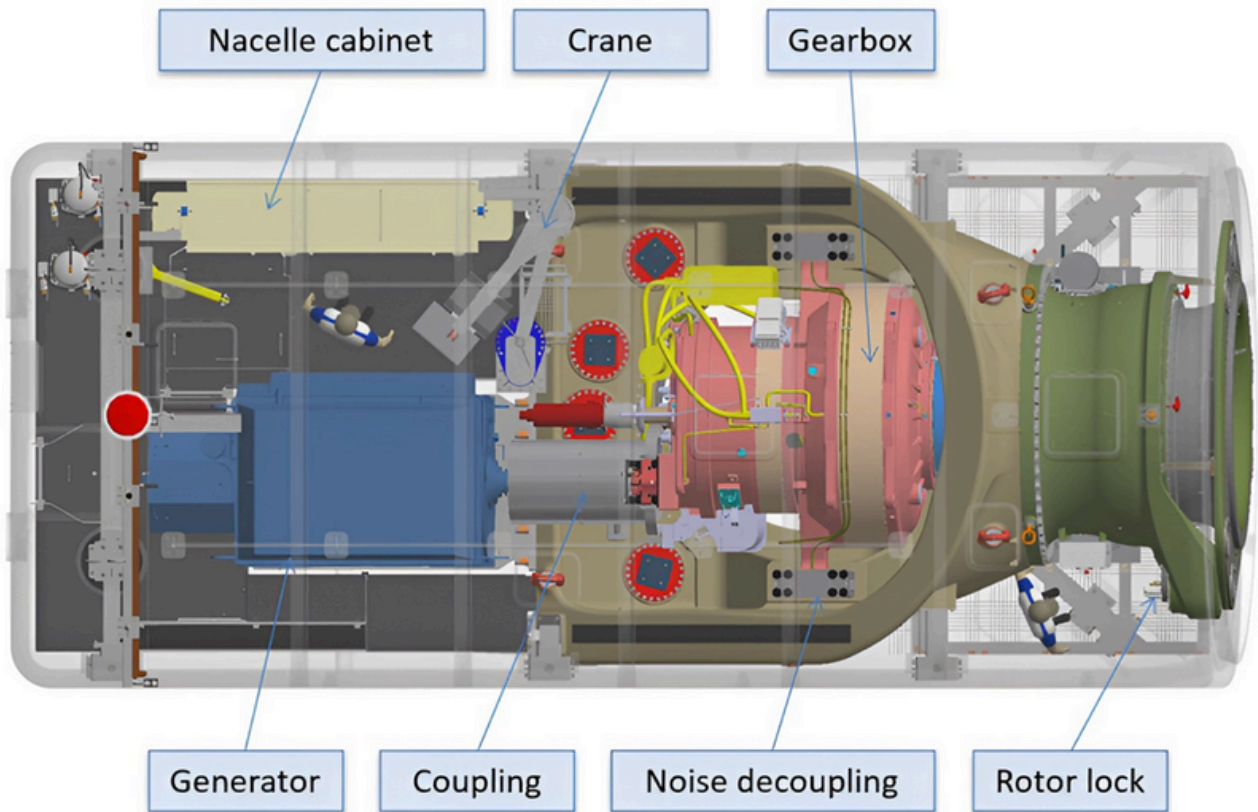


Diagram provided by AMSC (American Superconductor)

## NACELLE DIAGRAM - 3 MW

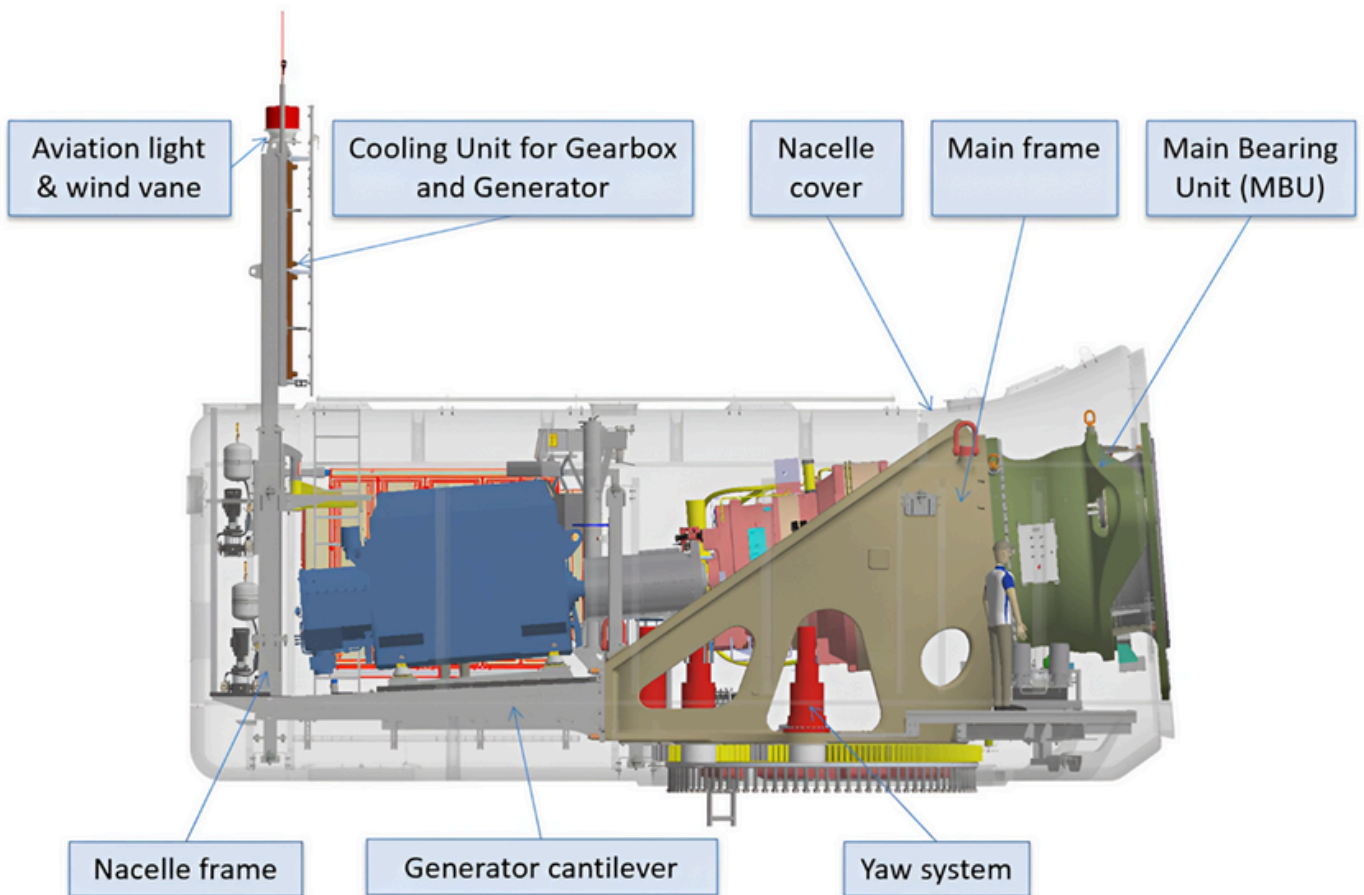


Diagram provided by AMSC (American Superconductor)

## PRODUCT PORTFOLIO: INOX DF 145 (3 MW)

Experience the epitome of wind energy with Inox DF145, one of India's largest wind turbines. Our 3 MW+ platform enhances the well-established technology, surpassing the achievements of any other brand in the market.



Boasting a capacity of 3 MW, extendable to 3.3 MW, the Inox DF145 offers enhanced power generation capabilities for large-scale wind energy projects.



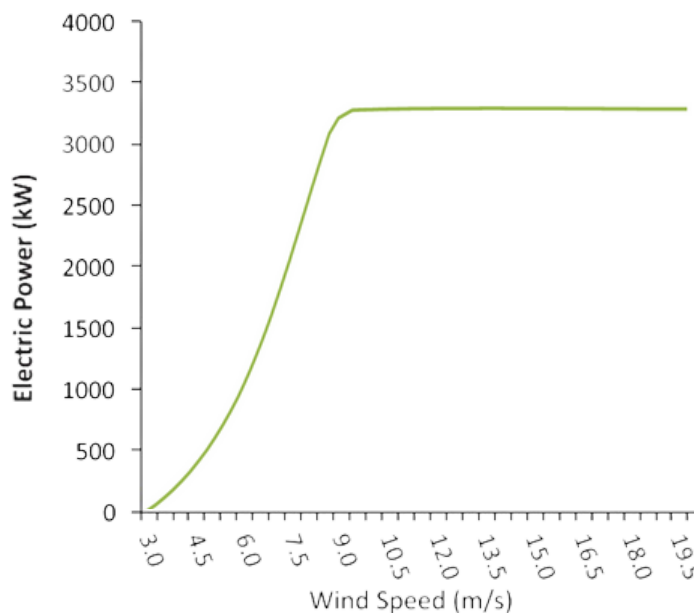
With hub heights ranging from 100 to 122.5 meters, extendable up to 140 meters, it adapts to varying site wind conditions, ensuring optimal performance.



The Inox DF145 utilizes Double Fed Induction Generator (DFIG) technology and one of the largest rotor diameters in its class to maximize swept area, resulting in unparalleled power output.



Optimum designed rotors enable greater wind capture, making the Inox DF145 one of the best performers across low wind sites, ensuring exceptional profitability and greater opportunities for wind energy deployment.



**Design Power Curve - DF 145 / 3 MW**

## TECHNICAL DATA

Parameter	Inox DF 145 (3 MW)
<b>Operating Data</b>	
Rated max Power	3000/3300 kW with smart power booster
Cut-in Wind Speed	3.0 m/s
Rated Wind Speed	9.5 m/s
Cut-out Wind Speed	20 m/s
Survival Wind Speed	52.5 m/s
Hub Height	100 to 140 meters
Rated Speed	11 rpm
<b>Rotor</b>	
Rotor Diameter	145 meters
Swept Area	16,604 sq meters
Blade Material	Epoxy glass fiber
<b>Generator</b>	
Type	Double Fed Induction Generator
Generator Rated Power	3000/3300 kW
Rated Voltage	690 V AC, 3 Phase
Frequency	50 Hz
Cooling System	Water-aid heat exchanger
Insulation	Class H/F
<b>Baking System</b>	
Aerodynamic Brake	Independent blade pitching
Mechanical Brake	Disc Brakes
<b>Gear Box</b>	
Gearbox Type	Two helical planetary stages and one helical spur gear
Nominal Mechanical Power	3300 kNm
Cooling	Forced Cooling
Gear Ratio	1:109.1
<b>Tower</b>	
Tower Type	Conical tubular steel
Tower Height	100, 122.5 & 140 meters
Corrosion Protection	Protective paint

## PRODUCT PORTFOLIO: INOX DF 113 (2 MW)

Suited for low wind speed characteristic of the Indian market. Custom-made blade design from WINDnovation, one of the world's leading designers of wind turbine rotor blades.



Suited for low wind speed characteristic of the Indian market. Custom-made blade design from WINDnovation, one of the world's leading designers of wind turbine rotor blades.



Featuring hub heights ranging from 92 meters to 120 meters, it ensures optimal performance across different site conditions.



Incorporating Double Fed Induction Generator (DFIG) technology maximizes power output while minimizing reactive losses.



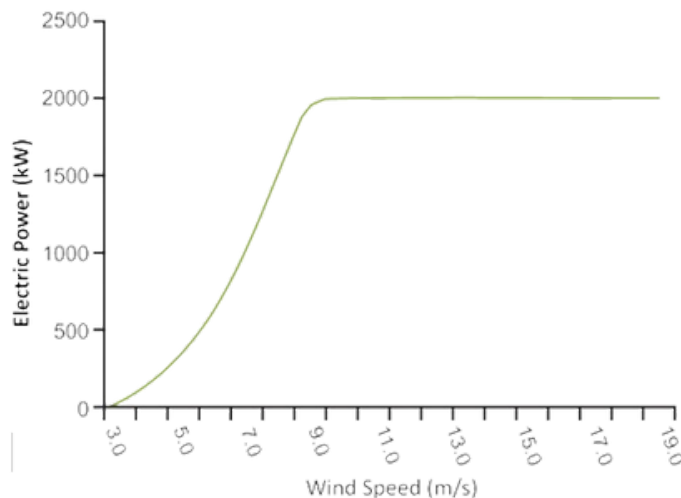
The Innox DF113 excels in varying wind conditions, offering reliable and consistent power generation.



The patented design streamlines the rotor shaft and gearbox, reducing weight and simplifying maintenance for increased reliability.



Equipped with advanced control systems, it ensures higher machine uptime, providing the best return on investment for wind energy projects.



**Design Power Curve - DF 113 / 2 MW**

## TECHNICAL DATA

Particular	Inox DF 113 (2 MW)
<b>Operating Data</b>	
Rated max Power	2000 kW
Cut-in Wind Speed	3.0 m/s
Rated Wind Speed	10.5 m/s
Cut-out Wind Speed	20 m/s
Survival Wind Speed	52.5 m/s
Hub Height	90 to 120 meters
Rated Speed	14.2 rpm
<b>Rotor</b>	
Rotor Diameter	113 meters
Swept Area	10,029 sq meters
Blade Material	Epoxy glass fiber
<b>Generator</b>	
Type	Double Fed Induction Generator
Rated Power	2000 kW
Rated Voltage	690 V AC, 3 Phase
Frequency	50 Hz
Cooling System	Water Cooled
Insulation	Class H/F
<b>Baking System</b>	
Aerodynamic Brake	Independent blade pitching
Mechanical Brake	Disc Brakes
<b>Gear Box</b>	
Type	Two planetary and one parallel shaft gear
Nominal Mechanical Power	1500 kNm
Cooling	Forced Cooling
Gear Ratio	1:84.5
<b>Tower</b>	
Type	Conical tubular steel
Tower Height	92 to 120 meters
Corrosion Protection	Protective paint

# THE JOYS OF ENHANCING



## OUR SUPPLIER PARTNERS



## A SNAPSHOT OF OUR CUSTOMER BASE



### **CORPORATE OFFICE**

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✉ For any Sales Enquiry please contact: [enquiry@inoxwind.com](mailto:enquiry@inoxwind.com)

🌐 [www.inoxwind.com](http://www.inoxwind.com)

### **FORWARD LOOKING STATEMENT**

Some information in this report may contain forward-looking statements. We have based these forward looking statements on our current beliefs, expectations and intentions as to facts, actions and events that will or may occur in the future. Such statements generally are identified by forward looking words such as “believe,” “plan,” “anticipate,” “continue,” “estimate,” “expect,” “may,” “will” or other similar words. A forward-looking statement may include a statement of the assumptions or basis underlying the forward-looking statement. We have chosen these assumptions or basis in good faith, and we believe that they are reasonable in all material respects. However, we caution you that forward looking statements and assumed facts or bases almost always vary from actual results, and the differences between the results implied by the forward looking statements and assumed facts or bases and actual results can be material, depending on the circumstances.