



**VENWIND** **refex**  
A **refex** Group Company

INDIA'S FIRST **5.3MW WIND**  
**TURBINE** WITH  
MEDIUM SPEED **PERMANENT**  
**MAGNET TECHNOLOGY**

Powering the Future of  
Renewable Energy

# Introducing Our Next-Generation Medium-Speed Permanent Magnet Platform

Delivering Unmatched Reliability, Efficiency, and Performance



## Greetings from Venwind Reflex!

We are pleased to introduce ourselves as a new force in India's renewable energy landscape. Venwind Reflex Power Ltd., headquartered in Chennai, India, is a strategic subsidiary of NSE-listed Reflex Industries Ltd. We are committed to transforming wind energy manufacturing in India through world-class technology, localised production, and sustainable solutions.

## Introducing the GWH 182-5.3 MW Wind Turbine

Our flagship offering, the GWH 182-5.3 MW turbine, is the largest rated wind turbine currently introduced in India. Purpose-built for Indian wind and grid conditions, this turbine delivers unmatched performance, efficiency, and reliability.

Developed through a technology license agreement with Vensys Energy AG, Germany, and supported by a global supply chain partnership with Goldwind, China—the world's leading wind turbine manufacturer—our solution brings globally proven innovation to Indian projects.



## Why Choose Venwind Reflex?



### Proven Global Technology

German-engineered hybrid drivetrain with permanent magnet generator (PMG) for high efficiency and grid compliance.

Our turbines require no external reactive power, feature full power convertibility, and are fully compliant with Indian grid codes.



### Rapid & Scalable Delivery

Turbines delivered within six months of contract award, with scalable domestic manufacturing.



### Lower Cost of Ownership

Reduced BOP and O&M costs, improved reliability, and lower LCOE through advanced design and engineering.



### Made for India

Designed for low-wind, high-temperature, and tropical conditions with localised production and supply chain integration.



### End-to-End Lifecycle Support

From drone-based inspections to SCADA monitoring and Vensys-certified O&M protocols, we offer full lifecycle reliability and performance assurance.

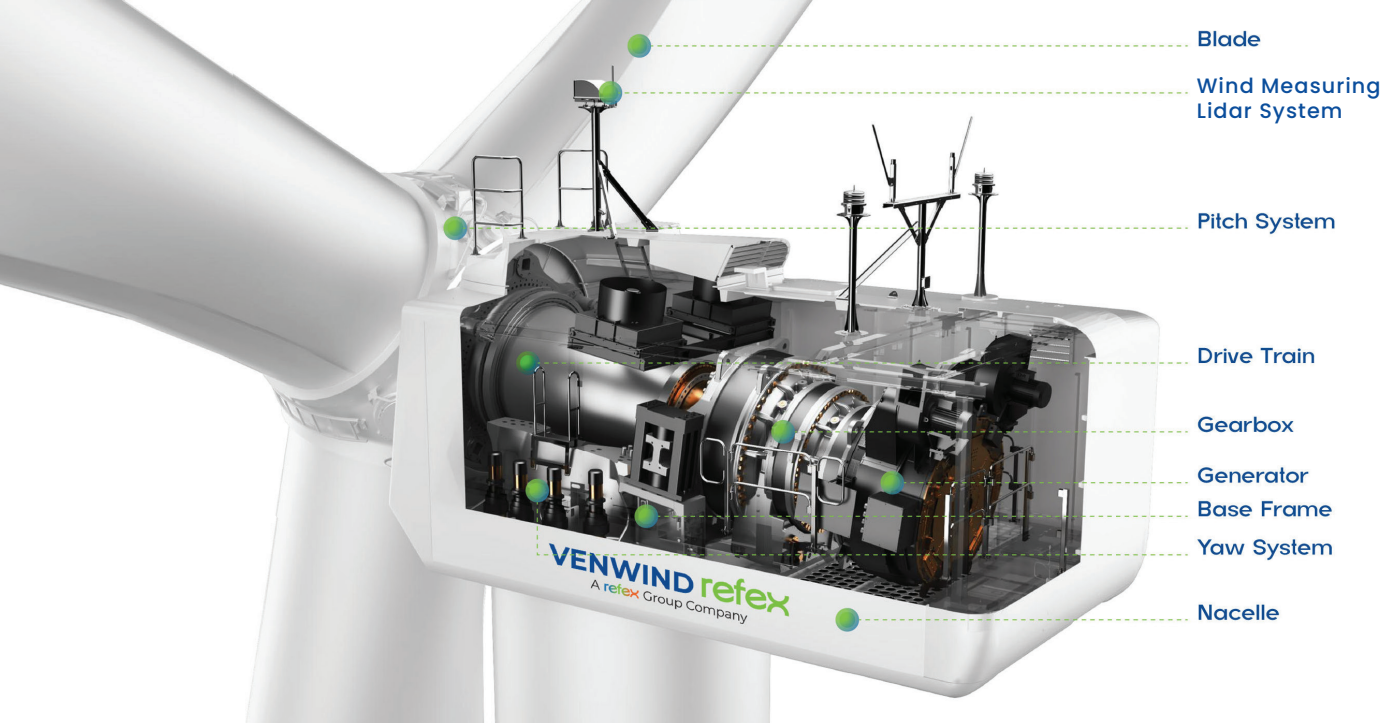
With the GWH 182-5.3 MW platform, you gain not just a turbine—but a future-ready energy solution engineered for long-term value.

# A New Generation of Onshore MSPM Series

## Specification

## GWH182-5.3MW

	Parameter	Unit	Remarks
Operating Parameter	Rated power	kW	5300
	Wind class	IEC	S
	Cut-in wind speed	m/s	2.5
	Rated wind speed	m/s	10.4
	Cut-out wind speed	m/s	24
	Designed service life	year	25
	Operating temperature	°C	-30°C to +48°C
	Survival temperature	°C	-40°C to +50°C
Rotor system	Rotor diameter	m	183.576
	Swept area	m <sup>2</sup>	26470
Gearbox	Type	/	Three-stage gear box
Generator	Type	/	Permanent magnet synchronous generator
	Rated voltage	v	1380
Converter	Type	/	Full power converter
	Power factor regulation range	/	Capacitive 0.9 ~ inductive 0.9 (Optional); Capacitive 0.95 ~ inductive 0.95 (Default)
	Rated output frequency	Hz	50/60
	Rated output voltage	v	1140
Brake system	Aerodynamic brake system	/	Aerodynamic braking by feathering of three blades
	Mechanical brake system	/	Generator brake (for maintenance)
Yaw system	Type/design	/	Motor-driven / planetary gear
	Yaw bearing	/	Sliding bearing
Control system & lightning protection	Type	/	PLC control system
	Lightning protection design standard	/	IEC61400 / 24 and IEC62305
	Lightning protection strategy	/	Integrated lightning protection system for the turbine
Tower	Type	/	Tubular steel tower
	Hub height	m	130 and site-specific



## Get In Touch

“Let’s connect to redefine the future of wind energy—uniting global expertise with our innovation to deliver world-class turbine technology for India.”



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## Key Features



### 5.3 MW Wind Turbine Generator

High efficiency PMG with Medium - Speed  
Gearbox Hybrid Technology



### 183.5m Rotor | 130m Tower

Engineered for maximum energy capture and site-specific.



### 135+ GW

Global operations powered by  
Vensys technology



### 40+ Countries

Proven Performance across the globe

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