MAS

Solar | Wind | BESS

WIND ENERGY SOLUTIONS

750 kW WTG

Powering a Sustainable Future with Every Breeze



"Where Wind Meets Power, the Future Takes Flight"

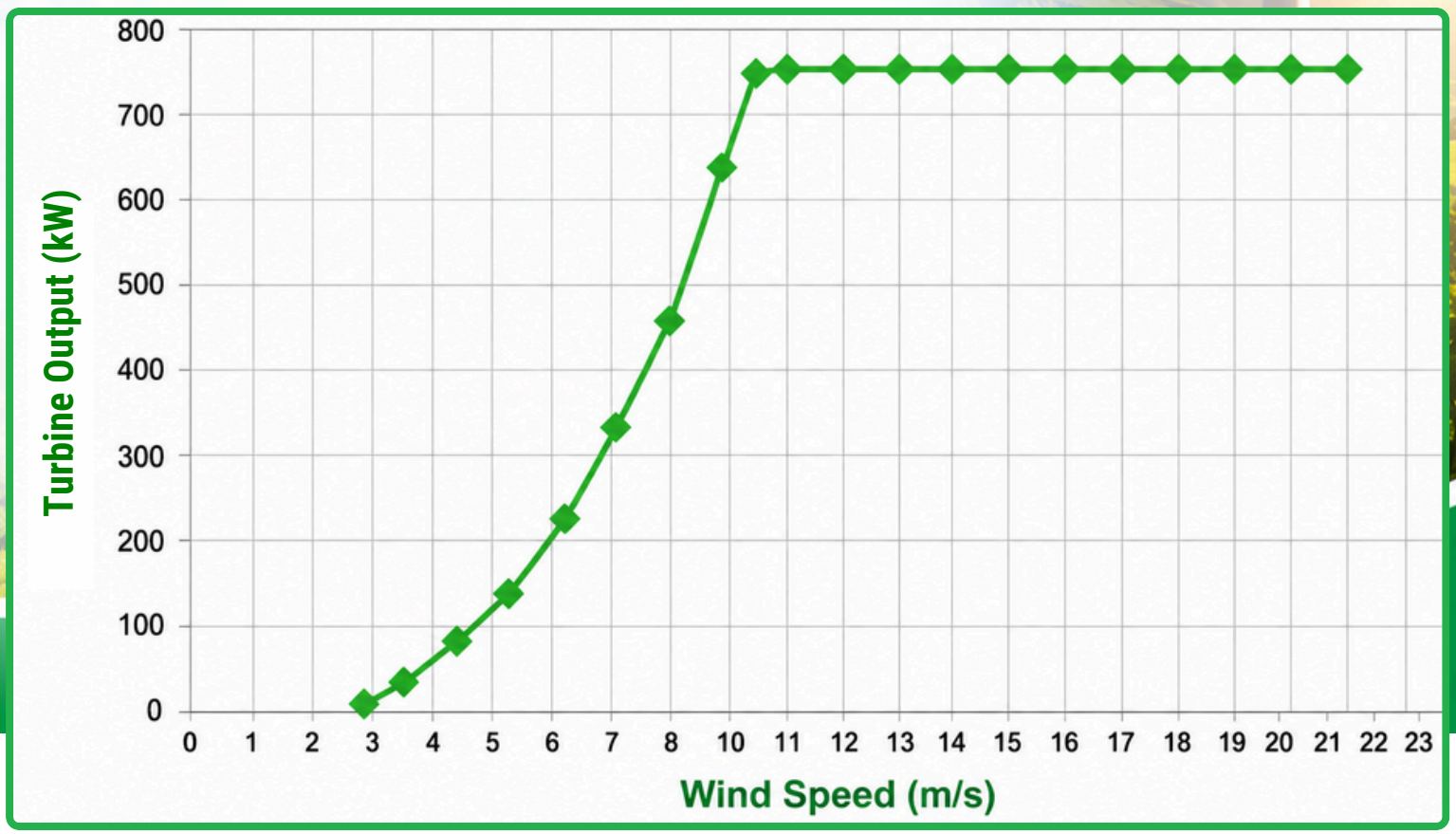
CORPORATE PROFILE

MAS Solar EPC Private Limited, established in August 2010 in Coimbatore, Tamil Nadu, is a renewable energy company with a strong and growing focus on wind energy solutions. The company is engaged in the engineering, supply, installation, commissioning, operation, and maintenance of Wind Turbine Generator (WTG) systems and wind power projects. With a team of experienced engineers, technocrats, and technical professionals, MAS Solar EPC Private Limited focuses on delivering reliable, efficient, and cost - effective wind energy solutions tailored to the requirements of different customers and project sites.

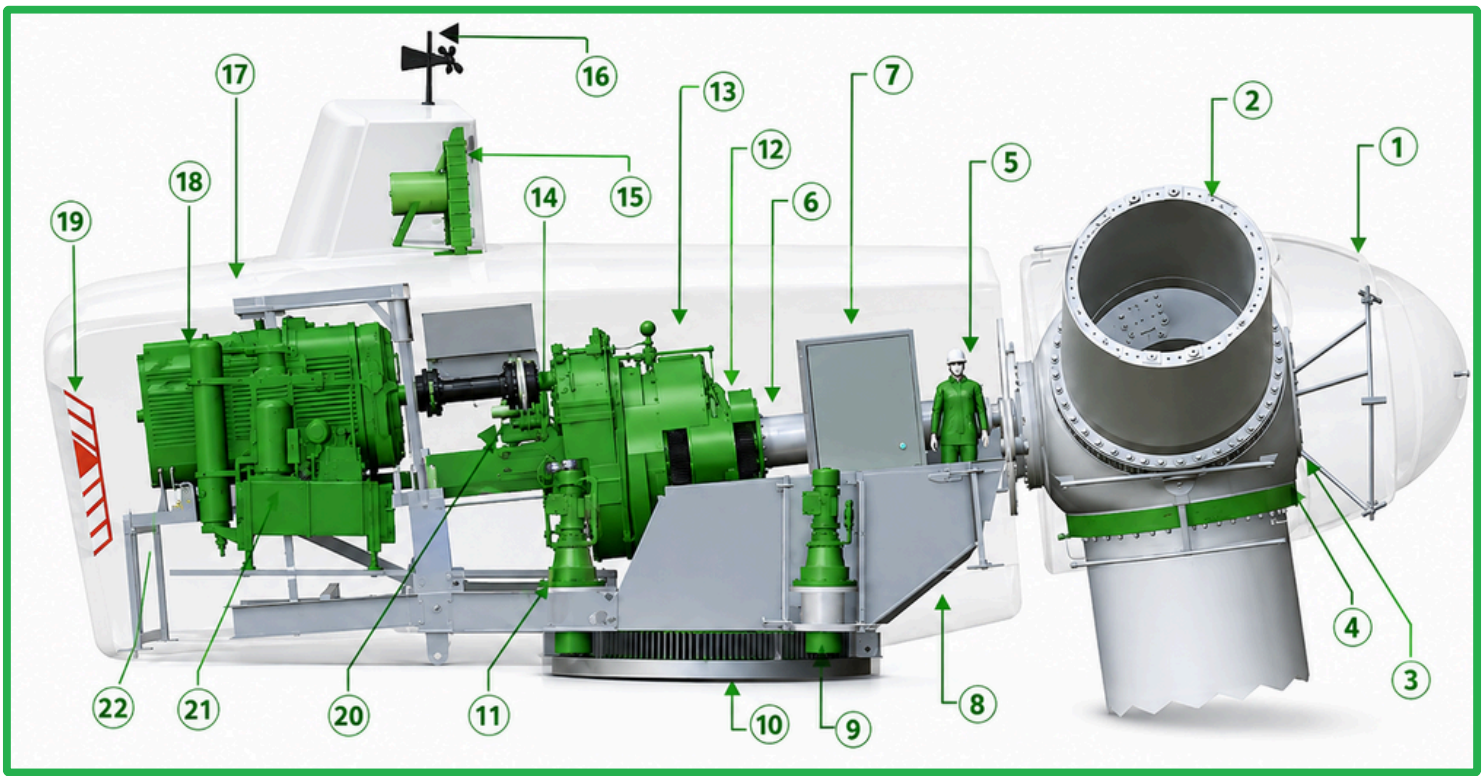
The company's wind energy capabilities include wind resource assessment, site feasibility, turbine selection, WTG supply and installation, electrical and civil Balance of System (BOS), power evacuation, project execution, commissioning, and operation & maintenance support. The company also undertakes wind repowering and wind-solar hybrid projects, helping customers maximize energy generation from existing and new renewable energy sites. Through the integration of modern wind turbine technology, suitable electrical infrastructure, and advanced monitoring systems, the company aims to improve plant performance, availability, and long - term energy yield.

In addition to wind energy, MAS Solar EPC Private Limited has capabilities in Solar PV systems, Wind - Solar Hybrid projects, Battery Energy Storage Systems (BESS), and SCADA-based centralized monitoring solutions. These complementary technologies enable the company to provide integrated renewable energy solutions for industrial, institutional, commercial, and utility-scale applications.

Power curve chart for 750 kW WTG

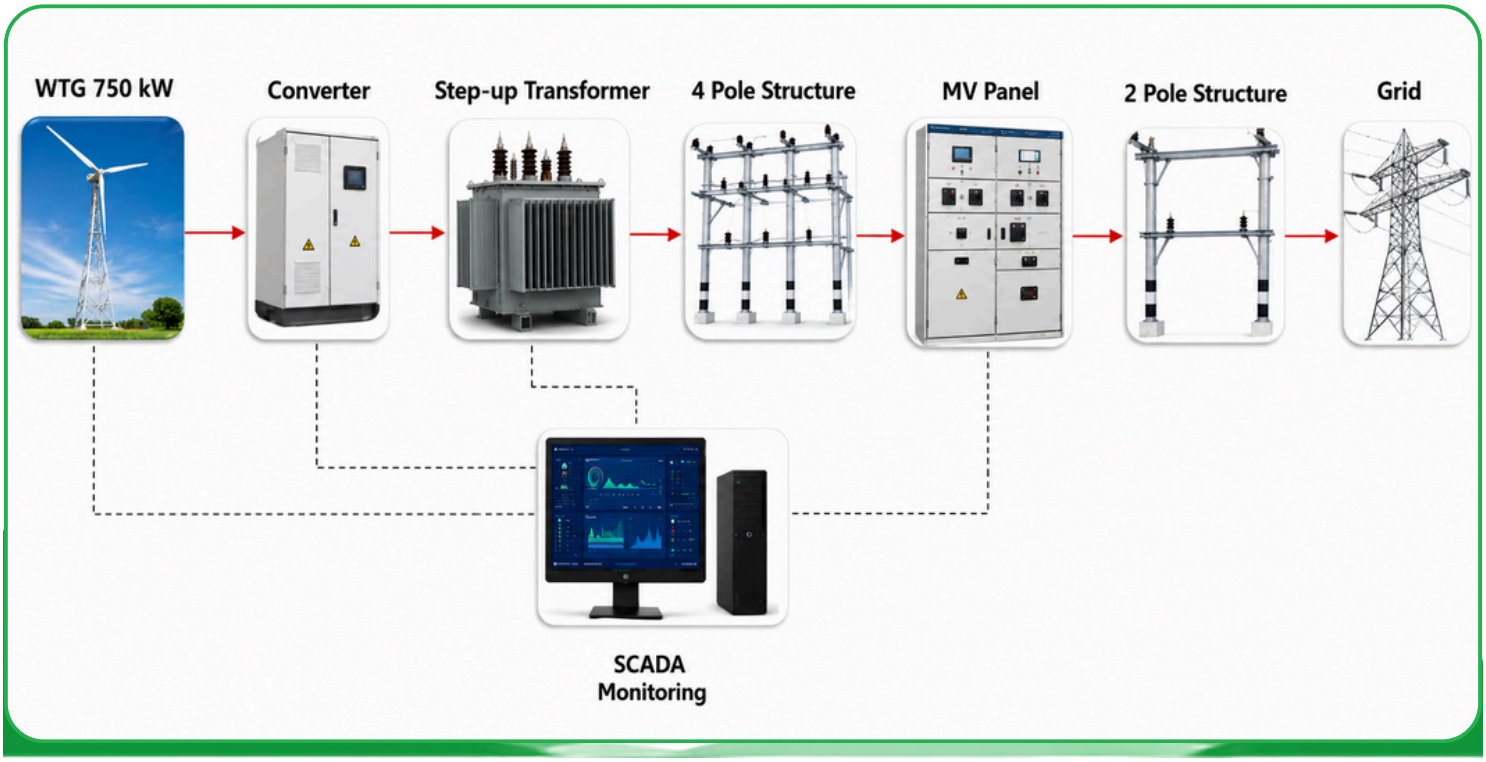


Nacelle diagram with components



1. Nose Cone
2. Blade
3. Hub
4. Blade Bearing
5. Bearing Housing
6. Main Shaft
7. Top Panel
8. Bottom Frame
9. Yaw Pinion
10. Yaw Flange
11. Yaw Motor
12. Shrink Disc
13. Gear Box
14. CD Coupling
15. Gear Box Cooler
16. Anemometer & Windvane
17. Material Lifting Crane
18. Generator
19. Rear Louver
20. Mechanical Brake Unit
21. Hydraulic Power Unit
22. Generator Console

Functional Block Diagram - 750 kW (WTG)



Nacelle diagram with components

S.No.	Key Specification	750 kW
1	Rated Power	750 kW
2	Generator Type	Asynchronous
3	Cut in Wind speed	3 m/s
4	Rated Wind Speed	10.7 m/s
5	Cut-out Wind Speed	25 m/s
6	Rotor Diameter	57 m
7	Swept Area	2551.7 m^2
8	Rotor Speed	3 - 25.20 RPM
9	Speed Control	Pitch Control
10	Wind Class	III A, IEC 61400 - 1, ed, 3
11	Gearbox	3 Stage: 1 Planetry + 2 Helical
12	Gear Ratio	1 : 67 : 7
13	Mechanical Brake	Hydralic Brake Caliper Type
14	Yaw Drive	Planetary Gear
15	Gearbox Cooling	Oil - Cooled
16	Converter Cooling	Liquid Cooled
17	Converter Type	Full Power IGBT Converter
18	Tower	Lattice Tower
19	Hub Height	75 m or 90 m
20	Blade Length	28 m
21	SCADA	Web SCADA



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