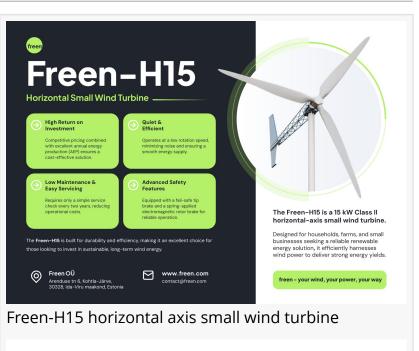


Freen OÜ Announces Launch of the 15 kW Freen-H15 Wind Turbine

Freen OÜ, the EU's leading producer of small wind turbines, introduces its latest innovation, the Freen-H15, a small wind turbine with rated power of 15 kW.

ESTONIA, March 20, 2025 /EINPresswire.com/ -- Freen OÜ, the EU's leading producer of small wind turbines, introduces its latest innovation, the Freen-H15—a 15kilowatt wind turbine tailored for small and medium-sized energy consumers. With a yearly production capability of up to 500 units, the Freen-H15 is now available for order through the website: www.freen.com.

Engineered for optimal efficiency, the Freen-H15 provides a rated power of 15 kW at wind speeds of 11 m/s. The turbine's advanced blade design and durable nacelle construction enable it to deliver outstanding energy generation compared to comparable turbines in its category. It is offered with a choice of either an 18-meter or 22-meter monopole tower, ensuring adaptability across various installation settings. Certified for IEC Class II wind conditions, the turbine reliably



Technical specifications		Annual Energy Production		Drawing and Description
Rated power, (kW)	15	Wind speed (m/s)	AEP (kWh)	
Cut-out wind speed, (m/s) no cut-out Rated rotation speed (rpm) 71		3.5	13100	The main parts of the wind turbin are foundation, tower and nacel
		4	18100 23300	with rotor and tail, electric pane and cables necessary for ener transfer and turbine control. Wind turbine has free yaw with to The turbine rotation speed
	12011	5.5	33900	
Swept area, (m ²)	95	6	39000	/ tip-brakes will activate with rot / over speed and mechanical rot
Blades	3, fixed angle, upwind	6.5	43900	
Rotor diameter, (m)	7 48600	E Drake is used to stop the rotor, these methods allow for sa operation and control of t turbine.		
		7.5	53000	Simple maintenance of great the bearings and visual inspe-
Tower	Monopole, 18-22 m	8	57100	Simple gearbox oil change ever
Generator	Asynchronous, planetary gearbox	8.5	60900	two years.
Brakes Stall, electro mechanic failsafe rotor brake, tip-brakes		9 9.5	64400 67700	190
Brid connection Direct with reactive power				
and connection	compensation	10	70600	<u></u>
Standard II	EC 61400-2:2013 - Small wind turbines			
Operating temperatures	. (C°) -25 to +60	Ī		
Remote monitoring 4G or Ethernet (Scada)		f		AEP is based on a Rayleigh wind speed distribution, K=2, t=15°C, P=1013 mbar, p=1225 kg/m ²
Lifetime, (years)	20		Contactus	The product specifications are provisional and subject to change at any tim due to improvements or other reasons.

Freen-H15 horizontal axis small wind turbine

operates in temperatures from -25°C to +60°C and has a projected operational lifespan of 20 years.

"The European market demands robust and trustworthy small wind turbines from credible local

manufacturers," said Andrey Khimenkov, CEO of Freen OÜ. "With the Freen-H15, we meet this requirement, delivering superior performance in moderate wind conditions alongside easy installation, minimal maintenance requirements, and long-term dependability. It's an ideal renewable energy solution for businesses and communities."

Key Features of the Freen-H15:

- Rated Power: 15 kW at 11 m/s, with peak performance reaching 17 kW

- Safety & Reliability: Passive yaw system with tail for upwind orientation, low-speed rotation (71 rpm), and advanced braking mechanisms (stall control, electro-mechanical fail-safe rotor brake, and tipbrakes)

- Smart Orientation: Optimized wind capture through integrated rotor blades and tail



Freen-H15 small wind turbine

- Environment: Reduced noise output (<45 dB at 60 m distance) and wildlife-conscious design

This turbine represents a practical, cost-effective, and scalable renewable energy solution with minimal maintenance demands. Spare parts are readily accessible through Freen OÜ's dedicated warehouse in Estonia. Freen OÜ adheres to rigorous quality control standards, certified under ISO 9001, ISO 3834-2, and CE EN 1090-2. <u>Orders for the Freen-H15 turbine</u> can be fulfilled within 12 weeks. <u>For more information, visit www.freen.com.</u>

About Freen OÜ

Freen OÜ, headquartered in Estonia, specializes in manufacturing small wind turbines, dedicated to providing affordable, reliable wind energy solutions worldwide. With production based entirely in the EU and strict adherence to international quality standards, Freen leverages engineering excellence and patented technologies to offer versatile wind energy products tailored to diverse applications.

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