

Freen OÜ Announces the Upcoming Launch of Freen-6, a 6 kW Small Wind Turbine

Freen OÜ, Estonian-based innovator in vertical-axis wind turbine technology, is set to launch its latest product, the Freen-6, in Q2 2025.

KOHTLA-JÄRVE, ESTONIA, February 14, 2025 /EINPresswire.com/ -- Freen OÜ, Estonian-based innovator in vertical-axis wind turbine technology, is set to launch its latest product, the Freen-6, in Q2 2025. Designed for both on-grid and off-grid applications, this 6 kW ultra-light wind generator is engineered to provide reliable and efficient power generation, even in regions with variable wind conditions.

The [Freen-6 small wind turbine](#) represents a significant advancement in small wind turbine technology. With a turbine height of just 3 meters and a total installation height below 20 meters, it is an ideal solution for areas with strict height restrictions. Additionally, its low noise level of just 40 dB at 100 meters makes it suitable for urban, densely populated, and noise-sensitive environments.

“We started this year with exciting developments, and the upcoming launch of Freen-6 is a major milestone in our mission to provide efficient and accessible wind energy solutions,” said Andrey Khimenkov, CEO of Freen OÜ. “With its compact footprint and quick installation time, Freen-6 is set to revolutionize the small wind turbine market.”

freen **Freen-6**
Wind Turbine

- Highest proven power generation for VAWT in a class**
The maximum wind energy conversion coefficient of small-sized Darrieus turbines on the market and the best use of turbulent air flows throughout the entire range of operating winds.
- A fair and transparent low price per kW stands out among other EU manufacturers**
Our optimized production line in Estonia for manufacturing turbines with a patented soft blade design and outstanding generator parameters delivers ready-to-install prefab solutions in 6 months.
- Construction innovations for positive eco impact & smart operation**
The small number of rubbing elements brings the O&M costs down, while the balanced assembly design helps to reduce noise emissions and threat to wildlife; moreover, the absence of construction permits and cost-effective dismantling process provide for flexibility in relocation options.
- Our proprietary control and management SCADA system**
FREEN SCADA software links up the turbines, offering advanced data analysis, critical effectiveness controls, and a user-friendly interface for optimal wind energy management and performance monitoring.

Small wind turbine generator with an installed capacity of 6 kW.
Designed for on/off-grid power supply of small energy consumers and private households. Vertical ultra-light turbine is efficient in diverse regions under variable wind conditions.

freen – your wind, your power, your way

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FREEN-6 6 kW Wind Turbine

Technical specifications		Power Output		Drawing		AEP	
Max generation power, (kW)	6.0	[Graph showing Power Output (kW) vs Wind Speed (m/s)]		[Drawing showing turbine dimensions: d = 6,000 mm]		[Table showing AEP (kWh) vs Wind speed (m/s)]	
Cut-in wind speed, (m/s)	3.0						
Cut-out wind speed, (m/s)	17						
Wind class	IEC III, IV						
Swept area, (m ²)	18						
Noise level at 100 m distance, (dB)	40						
Height, (m)	3.0						
Weight, (kg)	500						
Footprint area, (m ²)	36						
Lifetime, (years)	20						
Standard	IEC 61400-2:2013 - Small wind turbines						
Operating temperatures, (°C)	-25 to +40						
Survival wind speed, (m/s)	36						
Remote monitoring	FREEN SCADA						
Installation time	1-2 days						

Equipment set

- Wind Turbine
- Controller*
- FREEN SCADA
- Tower

*We offer customized solution, including energy storage, per request

*The product specifications are provisional and subject to change at any time due to improvements or other reasons.
AEP is based on a Rayleigh wind speed distribution, K=2, 1+1°C, P=103 mbar, g=9.81 m/s²

Contact us

Key Specifications of Freen-6:

- Rated Power: 6 kW
- Cut-in Wind Speed: 3 m/s
- Cut-out Wind Speed: 17 m/s
- Wind Class: IEC III, IV
- Swept Area: 18 m²
- Noise Level: 40 dB at 100m
- Turbine Height: 3 m
- Total Installation Height: 20 m
- Weight: 500 kg
- Footprint Area: 36 m²
- Lifecycle Time: 20 years
- Operating Temperature Range: -25°C to +40°C
- Survival Wind Speed: 36 m/s
- Remote Monitoring: FREEN SCADA
- Installation Time: 1-2 days

The Freen-6 is designed to cater to a broad range of users, including small households, businesses, and emergency power applications. Its lightweight construction, ease of installation, and efficient performance make it an excellent choice for regions with wind speed limitations and height restrictions.

Interested customers can now place pre-orders for Freen-6. Visit manufacturer's [website](http://www.freen.com) www.freen.com for more details.

About Freen OÜ



Freen-6 small wind turbine

Freen OÜ is an Estonian-based company specializing in the development and manufacturing of small vertical-axis wind turbines. Committed to advancing sustainable energy solutions, Freen OÜ provides high-quality wind energy products designed for diverse environmental conditions.

Freen

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