

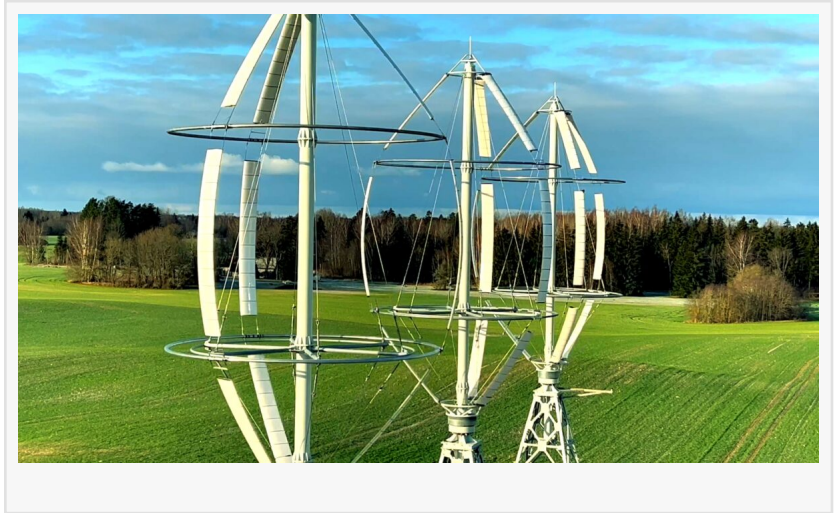
Freen OÜ Advances Vertical Axis Wind Turbines (VAWT) to Power Sustainable Cities and Communities

Freen OÜ is transforming urban and rural landscapes with its cutting-edge Vertical Axis Wind Turbines (VAWT)

KOHTLA-JÄRVE, IDA-VIRUMAA, ESTONIA, November 29, 2024

[/EINPresswire.com/](https://EINPresswire.com/) -- [Freen OÜ](#), an Estonia-based manufacturer of small wind solutions, is transforming urban and rural landscapes with its cutting-edge Vertical Axis Wind Turbines (VAWT), Freen-20 and Freen-3.

Compact, efficient, and eco-friendly, these turbines are redefining wind energy possibilities for diverse applications.



Small Wind Turbines: A New Era of Clean Energy

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Our mission is to democratize access to wind energy and make it viable in places where it was once dominated by large-scale players”

Kate Samedova Sales & Marketing Executive

Freen's VAWTs offer a revolutionary alternative to more popular Horizontal Axis Wind Turbines (HAWTs). With a unique vertical rotor shaft and blades designed to capture wind from any direction, these turbines eliminate the need for complex yaw mechanisms. Their compact design and ability to function in turbulent wind conditions make them particularly well-suited for urban locations, suburban gardens, and rural landscapes. “Vertical Axis Small Wind Turbines represent the future of wind energy. By combining efficiency, low maintenance, and versatility, they

bring sustainable power to places once deemed unsuitable for wind turbines,” said Kate Samedova, Sales and Marketing Executive at Freen OÜ.

Why VAWTs Are Ideal for Modern Energy Needs

Freen's VAWTs come with several key advantages:

Quiet Operation: VAWTs operate with minimal sound, making them ideal for residential and urban use.

Durable and Low-Maintenance: With their robust structure and fewer moving parts, these turbines require minimal upkeep, reducing operational costs.

Wildlife-Friendly: The slower blade rotation of VAWTs minimizes risks to birds and bats, making them a responsible choice for eco-conscious installations.

Darrieus-Type Turbines: Pioneering Efficiency

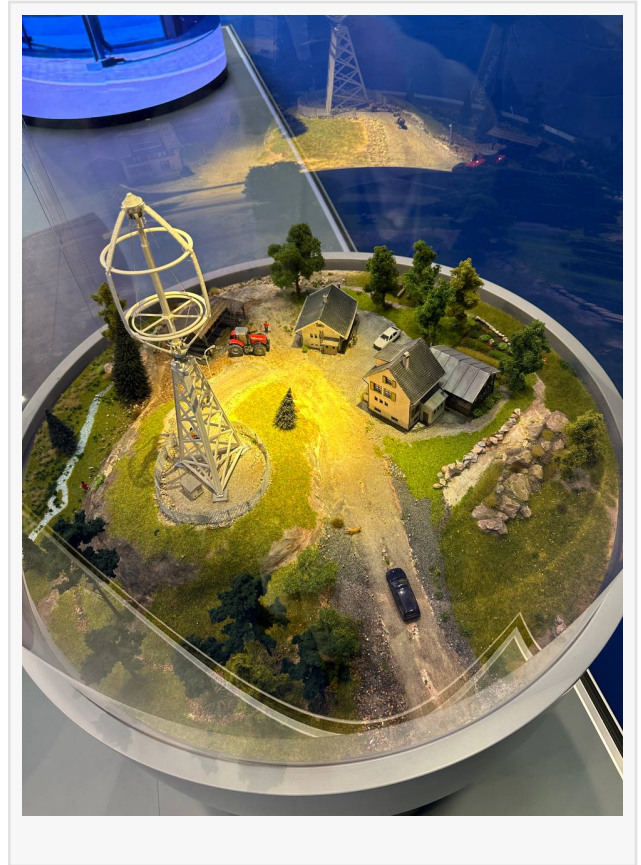
[Freen's innovative designs](#) are based on the Darrieus-type turbine, a model first patented in 1931. Utilizing aerodynamic lift similar to airplane wings, Darrieus turbines achieve exceptional efficiency and speed, even in fluctuating wind conditions. Recent advancements, such as lightweight materials and optimized blade shapes, have expanded their potential, enabling power generation in challenging environments like crowded cityscapes and coastal regions. "By refining the Darrieus model with modern technology, we're making wind energy more accessible and adaptable," added Kate Samedova. "This ensures that businesses and homeowners alike can harness renewable energy, regardless of location or wind variability."

The company's portfolio includes the 3kW Freen-3 turbine, the 20kW Freen-20 turbine and the 55kW Freen-55 turbine. To [learn more about small wind turbines](#) and VAWT technology, visit the knowledgebase.

A Commitment to a Greener Future

Freen OÜ is dedicated to advancing renewable energy through its high-quality, EU-manufactured turbines. Designed for adaptability, the turbines can be installed in a range of settings, including residential homes, farms, urban rooftops, and commercial properties." Our mission is to democratize access to wind energy and make it viable in places where it was once dominated by large-scale players," said Kate Samedova, Sales and Marketing Executive Director. "Through innovation and engineering excellence, we deliver sustainable energy solutions to communities and businesses of all sizes."

About Freen OÜ



Freen OÜ is an Estonia-based manufacturer of Vertical-Axis Small Wind Turbines, committed to delivering affordable and reliable wind energy solutions globally. With EU-based manufacturing and adherence to strict quality standards, Freen combines engineering expertise with patented technology to meet diverse energy needs. Freen's mission is to provide sustainable energy solutions for communities worldwide.

To explore how Freen's VAWTs can revolutionize energy production for your home, business, or community, visit www.freen.com or contact Freen's team for a consultation.

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