

Small Wind Power Market to Reach \$17.1 Billion by 2030 | Sustainable Energy Demand Fuels Growth

□ *Global Small Wind Power Industry Forecast: Rising at 8.8% CAGR to Hit \$17.1 Billion by 2030* □

WILMINGTON, DE, UNITED STATES, July 2, 2025 /EINPresswire.com/ --

□□ [Small Wind Power Market](#) Overview

According to a new report by Allied Market Research, the global small wind power market was valued at \$7.4 billion in 2020 and is projected to reach \$17.1 billion by 2030, growing at a CAGR of 8.8% from 2021 to 2030. This growth is primarily fueled by increasing demand for clean, sustainable energy solutions for residential, commercial, and rural applications.

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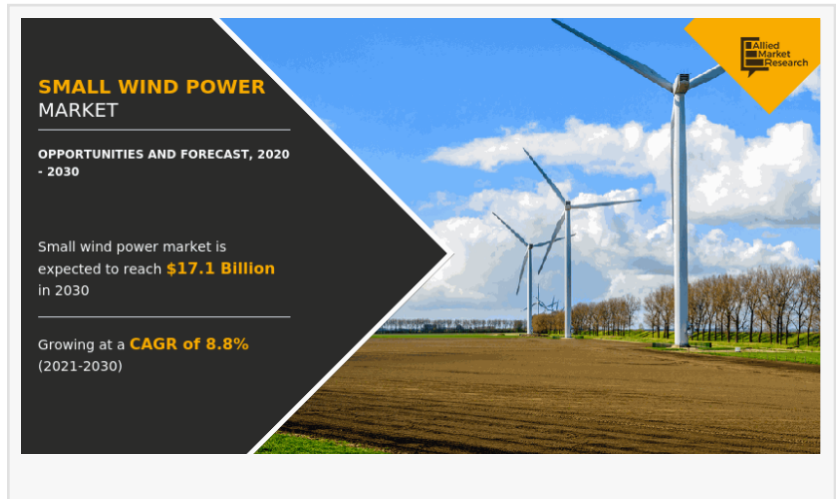
Small wind power market to reach \$17.1 Bn by 2030 □□. Clean energy push, rural adoption, and vertical axis tech drive the 8.8% CAGR growth □.”

Allied Market Research

Small wind turbines are typically used for microgeneration of electricity, especially in areas where access to the power grid is limited. Unlike large wind farms, small wind systems offer flexible deployment and are more accessible to individual users and small-scale developers.

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□ Key Report Highlights – At a Glance:

□ Market to reach \$17.1 billion by 2030, growing at 8.8% CAGR

□□ Vertical Axis Wind Turbine segment leads global demand

- Commercial segment holds dominant application share
- Asia-Pacific registers the highest market share and growth rate
- Small wind turbines enable off-grid electrification in rural and remote areas
- Market Drivers and Growth Opportunities
- Clean Energy Adoption on the Rise

As global awareness of climate change and carbon emissions grows, governments and businesses alike are adopting [renewable energy](#) solutions. Small wind turbines are gaining traction due to their low maintenance, reliability, and ability to operate even in remote or off-grid areas.

□ Versatile Applications in Urban & Rural Areas

One of the major benefits of small wind systems is their versatility. With rotor diameters under 10 meters and output below 20 kW, they are ideal for:

Households

Farms

Remote schools and health centers

Telecom towers

Small commercial buildings

These turbines are especially advantageous in rural or off-grid zones, where extending power lines can be costly and impractical.

□ Vertical Axis Wind Turbines Gaining Momentum

On the basis of type, Vertical Axis Wind Turbines (VAWTs) emerged as the market leader in 2020 and are expected to maintain dominance. These turbines have key advantages such as simpler construction, better performance in turbulent wind conditions, and easier maintenance—all contributing to their rising popularity.

□ Market Segmentation Insights

□ By Installation Type:

On-grid systems led the global small wind power market in 2020. They are widely used in urban areas where access to the utility grid is available and excess power can be sold back to the grid through net metering.

□ By Application:

The commercial segment dominated the market in 2020 and is projected to lead throughout the forecast period. Commercial buildings increasingly deploy small turbines to reduce dependency on fossil fuels and lower electricity costs.

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□ Regional Outlook

□ Asia-Pacific Leads the Way

The Asia-Pacific region registered the highest small wind power market share in 2020 and is expected to retain leadership due to:

Strong government policies supporting renewable energy (e.g., India's National Wind-Solar Hybrid Policy)

Rapid rural electrification

High population density and growing power demand

Countries like China, India, and Japan are investing heavily in [decentralized renewable energy](#) solutions, giving small wind projects a solid boost.

□ Key Market Players

Leading companies shaping the global small wind power market include:

Aeolos Wind Energy Ltd

Bergey Wind Power Co.

City Windmills

Eocycle Technologies Inc.

Northern Power Systems

Ryse Energy

SD Wind Energy Limited

Shanghai Ghrepower Green Energy Co. Ltd.

UNITRON Energy Systems Pvt. Ltd.

Wind Energy Solutions

These companies are focusing on technological innovation, expanding product portfolios, and entering emerging markets to stay competitive.

□ Impact of COVID-19 on the Small Wind Power Market

Like most industries, the small wind power market experienced disruptions during the peak of the COVID-19 pandemic:

Manufacturing was halted, especially during Q2 of 2020.

Supply chains were disrupted due to border closures and shipping delays.

New wind power projects faced postponements due to lockdowns and labor shortages.

However, recovery began in late 2020, and the pandemic also highlighted the importance of decentralized and resilient energy systems, increasing future interest in off-grid wind solutions.

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□ Conclusion

The small wind power market is poised for steady growth, fueled by a global shift toward clean, renewable energy and the need for decentralized power solutions. As nations ramp up their climate goals and energy security initiatives, small wind turbines offer a practical, cost-effective, and environmentally friendly solution.

With strong support from government incentives, advances in vertical axis technologies, and expanding applications in both on-grid and off-grid environments, the small wind energy sector is expected to play a pivotal role in shaping the future of sustainable electricity generation worldwide.

Trending Reports in Energy and Power Industry:

Wind Turbine Market

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Wind Turbine Foundation Market

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Small Wind Power Market

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Wind Energy Market

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Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various companies and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

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