

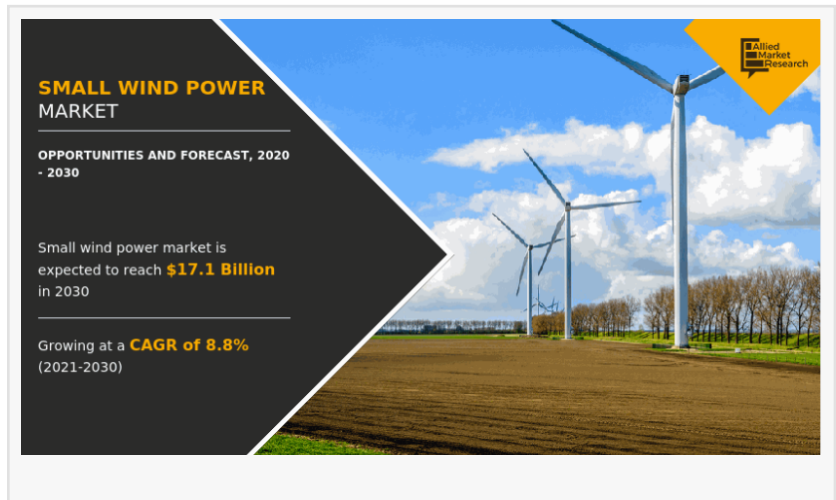
# Small Wind Power Market Surges Ahead, Forecast to Hit \$17.1 Billion by 2030

*Global Small Wind Power Market Set to Grow at 8.8% CAGR, Fueled by Clean Energy Adoption* ☐☐

WILMINGTON, DE, UNITED STATES, August 5, 2025 /EINPresswire.com/ --

According to a recent report published by Allied Market Research, the [small wind power market](#) size was valued at \$7.4 billion in 2020 and is projected to reach a staggering \$17.1 billion by

2030, growing at a CAGR of 8.8% from 2021 to 2030. The rise of clean energy initiatives, growing energy demand in off-grid areas, and increased awareness of climate-friendly power solutions are key factors driving this growth.



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Global small wind power market to reach \$17.1B by 2030, growing at 8.8% CAGR, fueled by off-grid demand & clean energy adoption. ☐☐☐”

*Allied Market Research*

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☐ What Are Small Wind Turbines?

Small wind turbines are designed to generate electricity at a smaller scale — usually under 20 kW capacity and with rotor diameters less than 10 meters (about 30 feet). Unlike

large commercial turbines that require robust grid infrastructure, small wind turbines are versatile and suitable for both on-grid and off-grid applications.

Their ability to operate at lower wind speeds and flexible installation options make them ideal for rural, residential, and household use. This adaptability is particularly beneficial in remote or rural areas, where expanding transmission infrastructure is expensive and inefficient.

☐ Horizontal vs. Vertical Axis: Understanding the Types

Small wind turbines are mainly classified into:

**Horizontal Axis Wind Turbines (HAWTs):** These are the most commonly used and preferred due to their efficiency and reliability.

**Vertical Axis Wind Turbines (VAWTs):** These are less popular but can operate in turbulent wind conditions and are easier to maintain.

In 2020, Vertical Axis Wind Turbines emerged as the dominant segment due to their compact design and urban-friendly configuration, and they are expected to maintain their lead through the forecast period.

#### □ On-Grid vs. Off-Grid Installations

The on-grid segment accounted for the largest share of the global small wind power market in 2020. These systems are directly connected to the [utility grid](#) and help offset energy costs, making them a popular choice in urban and semi-urban regions.

However, off-grid systems are rapidly gaining traction, especially in regions with inadequate grid infrastructure. These systems empower communities with independent energy sources, reducing reliance on fossil fuels.

#### □ Key Applications: Residential, Commercial & Utility

Small wind turbines are increasingly used in:

Residential applications, offering homeowners a sustainable and cost-effective energy source.

Commercial setups, where they serve as auxiliary power sources or reduce overall operational energy costs.

Utility-scale applications, although less common, are slowly expanding in microgrid setups.

In 2020, the commercial segment emerged as the market leader and is anticipated to retain this dominance, driven by the rising demand for clean energy in corporate sustainability initiatives.

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#### □ Regional Insights: Asia-Pacific Leads the Way

Geographically, Asia-Pacific dominated the global small wind power market in 2020, a trend expected to continue through 2030. Rapid urbanization, energy demands in rural areas, and

strong governmental support for [renewable energy](#) initiatives in countries like China, India, and Japan are the primary factors boosting regional growth.

#### □ COVID-19 Impact: Short-Term Setback, Long-Term Growth

Like most global markets, the small wind power sector was impacted by the COVID-19 pandemic. Travel restrictions delayed project site visits, regulatory approvals, and environmental assessments, especially during the planning and construction phases.

Manufacturing disruptions and supply chain breakdowns further stalled turbine production, affecting overall market performance. Moreover, workforce migration due to lockdowns led to labor shortages. However, as industries recover and clean energy demand surges, the market is bouncing back with renewed vigor.

#### □ Key Players in the Small Wind Power Market

Prominent companies shaping the 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 players are focused on product innovation, technological advancements, and strategic collaborations to expand their global footprint.

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## □ Conclusion: Clean Energy Future Powered by Small Wind

The small wind power market is gaining momentum globally, driven by rising energy needs, climate goals, and technological innovation. With government support and growing consumer awareness of renewable energy, small wind turbines are poised to play a vital role in shaping a sustainable and decentralized energy future. □□

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