

# Wind energy boosting technology



## Overview

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Harness cutting-edge turbine designs to enhance efficiency, leveraging advancements like vertical-axis turbines and bladeless technology to capture wind power in diverse environments. Here are the seven wind power stories that made the biggest impact on renewable energy this year. Wind power technology in 2025 pushed well beyond incremental upgrades, with engineers rethinking how, where, and even what wind turbines look like. From floating giants the size of city blocks and. Wind energy, a renewable resource characterized by its inexhaustibility and absence of pollutants, has garnered significant attention in recent years.

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### [A review of enhancing wind power with AI: applications, economic](#)

Artificial intelligence (AI), particularly machine learning (ML), enhances the efficiency and sustainability of power generation in wind energy systems. This study employs a systematic literature ...

### [Methods to Increase Wind Turbine Power Generation](#)

Discover innovations in wind turbine power generation technologies that maximize energy output, increase efficiency, and advance renewable energy solutions.



### [The Latest Technological Innovations in the Wind](#)

Explore the latest technological innovations shaping the future of wind energy, from advanced turbine designs to AI-driven forecasting.



### [Artificial intelligence-aided wind plant optimization for nationwide](#)

Here we propose a computationally efficient approach to assess the transformative potential of wind energy technology innovations co-optimized with plant layouts at thousands of ...



### [Top 7 must-read wind power technology stories of 2025 - Interesting](#)

Here are the seven wind power stories that made the biggest impact on renewable energy this year. Wind power technology in 2025 pushed well beyond incremental upgrades, with ...



### [The Role of Advanced Technologies in Enhancing Wind Power Plant](#)

From turbine design innovations to smart control systems and condition monitoring, learn how these advancements are enhancing efficiency, reliability, and sustainability in wind energy ...



### [Boosting Wind Energy Output](#)

Learn how to boost wind energy output with advanced techniques, including turbine upgrades, wake management, and meteorological monitoring.



### [Next-Generation Wind Technology](#)

The Wind Energy Technologies Office (WETO) works with industry partners to increase the performance and reliability of next-generation wind technologies while lowering the cost of wind energy.



### [Overview improving the efficiency of a wind turbine by using a nozzle](#)

However, enhancing wind turbine performance, especially in low wind conditions, presents significant challenges. This review investigates innovative technologies--such as nozzle lenses, ...

### [How Wind Energy Innovations Are Powering Our Future](#)

These real-life examples of wind energy projects worldwide illustrate how innovative approaches can overcome geographical and technical challenges, paving the way for broader ...



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