

Title: Axis direct-axis wind turbine system

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In order to eliminate the constant maintenance and reduce frictional losses, a direct drive system has been implemented in wind turbines. The rotor is directly connected to the generator; so ...

To determine which technology is more efficient in 2025, it is essential to compare the energy output and efficiency of horizontal axis wind mill gearboxes with direct-drive systems.

Introducing variable design methods on VAWT provides better adaptability to the various oncoming wind conditions. This paper presents state-of-the-art variable methods for performance ...

A VAWT is a type of wind turbine (WT) known for its compact design, ease of maintenance, and competence in utilizing wind from multiple directions, making it highly suitable for ...

The present research investigates the design, construction and efficiency of a direct drive magnetically levitating Savonius vertical-axis wind turbine. In fabricating the prototypes of...

Vertical-axis wind turbines (VAWTs) have received increasing research interest due to their structurally simple design and superior adaptability to gusty, multidirectional, and highly ...

This ongoing development has resulted in the classification of wind turbines into two main categories: vertical-axis wind turbines (VAWTs) and horizontal-axis wind turbines (HAWTs).

One or tow loops of vertical axis blades can be used to form a wind turbine with two or four vertical blades that are all connected by a series of cables to add additional support for the...

Simulations of the proposed control strategy for a DFIG based direct-drive wind power generation system were carried out, using MATLAB/Simulink under real wind speed scenario.

Discover the strengths and challenges of vertical axis wind turbines, their applications, innovations, and

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