

PIENAAR ENERGY (PTY) LTD

Direct drive generator wind turbine



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The Future of Wind Turbines: Comparing Direct Drive and Gearbox

To eliminate gearbox failure and transmission losses, manufacturers have developed wind turbines without gearboxes. This type of wind turbine was introduced in 1991, and is known as the ...

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Direct Drive Turbine

A direct drive turbine is a type of wind turbine that eliminates the need for a gearbox by directly connecting the rotor shaft to the generator. This design allows for a more efficient transfer of ...

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Advanced Wind Turbine Drivetrain Trends and Opportunities

Having all of those moving parts makes the gearbox one of the highest-maintenance parts of a wind turbine. One alternative is to use a "direct drive" generator that can generate electricity at ...



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Review of Generator Systems for Direct-Drive Wind Turbines

In order to identify suitable generator concepts for direct-drive wind turbines, the comparisons of different generator systems in literature are discussed with the criteria based on the energy yield, cost and ...



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What Is a Direct-Drive Wind Turbine?

Among the various types of wind turbines, direct-drive wind turbines have emerged as a cutting-edge technology that offers numerous advantages over traditional designs. But what exactly ...

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Direct Drive Wind Turbines

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Design and optimization of multi-MW offshore direct-drive wind turbine



In this study, generative design techniques were used as an automated iterative process with an extensive set of control variables and initial models to explore and optimise the stiffness and ...

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Direct Drive Wind Turbines

Traditional wind turbines use gearboxes to step up the rotational speed (about 100x) from the rotor to the generator, which makes electrical power. This article discusses direct drive wind turbine generators, ...



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How do direct-drive wind turbines work?

Direct-drive wind turbines provide a reliable, efficient, and low-maintenance solution for harnessing wind energy. By eliminating the gearbox and using permanent magnet generators, they ...

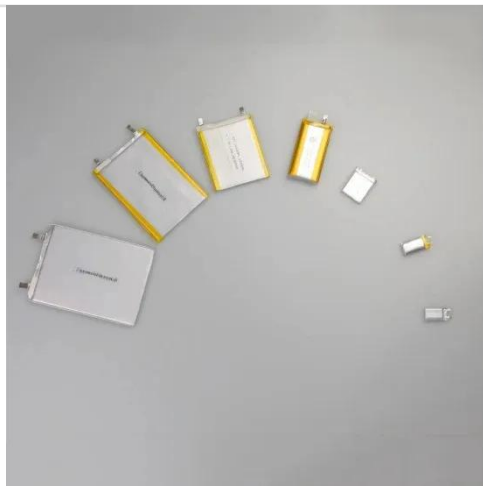
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Direct Drive Wind Turbine Technology: A Comprehensive Overview

Conventional wind turbines employ a gearbox to increase the rotational speed

of the blades, enabling the generator to operate more efficiently. However, direct drive turbines eliminate the gearbox ...

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PMDD , Goldwind

Permanent magnet direct-drive (PMDD) turbine generators avoid rotor winding losses and mechanical energy losses associated with gearboxes and couplings. The full power converter provides the ...

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