

# Harbin Electric Wind Power Direct Drive Generator

Are direct-drive generators a good choice for wind turbines?

Regarded as a low-maintenance alternative to conventional drivetrain systems, direct-drive generators are increasingly commonplace for wind turbines in hard-to-service areas. To facilitate higher torque requirements consequent to low-speed operation, these machines are bulky, greatly increasing nacelle size and mass over their counterparts.

Who is Harbin Electric Corporation?

Harbin Electric Corporation is China's first base for the R&D and manufacturing of electric generators and complete equipment export.

Can additive manufacturing be used to design a 5 MW wind turbine?

In Ref., the use of additive manufacturing is explored as a means to enable complex designs not possible through conventional techniques for light-weighting the stator structure of a 5 MW Permanent Magnet, Direct-Drive (PMDD) wind turbine generator.

Can hybrid additive manufacturing reduce the structural mass of wind turbine generators?

Hayes, A.C.; Whiting, G.L. Reducing the Structural Mass of Large Direct Drive Wind Turbine Generators through Triply Periodic Minimal Surfaces Enabled by Hybrid Additive Manufacturing. Clean Technol. 2021, 3, 227-242. [Google Scholar] [CrossRef]

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With the rapid expansion of offshore wind capacity worldwide, minimising operation and maintenance requirements is pivotal. Regarded as a low-maintenance alternative to conventional ...

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The comparison results have shown that the direct-drive powertrain systems with SPM-V and the proposed Vernier generators can achieve a 12.3% and 24% lower LCOE ... Harbin Electric ...

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HE has the capacity for manufacturing of large-scale wind power equipment, having advantage on R& D, manufacture, sale and services for high-power wind turbine generator system of ...

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Wind Power Generation To meet customer needs, Harbin Asia Power provides comprehensive support in many different business situations from geological/environmental study and business planning to ...

About Company Overview Harbin Electric Machinery Company Limited (HEC), founded in June 1951, is a leading manufacturer of large and medium-sized power generating equipment in ...

(PDF) Direct-drive permanent magnet generators The combination of the fractional frequency transmission system (FFTS) and the direct-drive wind turbine generator will be beneficial to the ...

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