Wind turbine casing

Abstract: Diffuser Augmented Wind Turbines (DAWTs) are an efficient method of harnessing wind power compared to conventional wind turbines. This article mainly focuses on the design and ...

The aim of this study is to optimize the shape of a casing for a small wind turbine. The optimization is performed to augment the airflow in the active transversal circular section ...

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The aim of this work is to improve the performance of a Savonius Vertical Axis Wind Turbine (VAWT) by sizing a suitable rotor guide plates configuration, or what is called a ...

We investigated the effective use of cross-flow wind turbines for small-scale wind power generation to increase the output power by using a casing, which is a kind of wind-collecting device, composed of three flow ...

Download scientific diagram | Structure of wind turbine gearbox 1-casing, 2-sun gear, 3-turbine"s rotor, 4-planetary arm, 5-ring gear, 6-planetry gear; there are a total of three planets in all, 7 ...

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Download scientific diagram | Geometry of the Savonius turbine with casing, dimensions referred to in blue were varied during the optimization process. . (For interpretation of the references to ...

The share of wind-based electricity generation is gradually increasing in the world energy market. Wind energy can reduce dependency on fossil fuels, as the result being attributed to a ...

The wind turbine studied in this research is a helical Savonius vertical-axis wind turbine, and it is considered to be made up of fiberglass-based on the study by Jeon et al. ...

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