

Title: Wind Concentrator Wind Turbine

Generated on: 2026-07-10 00:08:39

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In this study, a wind concentrator (WC) for a crossflow wind turbine (CFWT) was developed by adding two parallel plates with flanges, which was based on the "wind lens" concept, to ...

In this study, wind-concentrator systems for small-scale wind turbines that can be used in agricultural electrification applications have been designed for geographical areas where the wind ...

This study focuses on developing a velocity augmentation model that correctly predicts the throat velocity in an empty concentrator-diffuser-augmented wind turbine (CDAugWT) design and ...

The wind turbine having a vertical rotation axis (VWKA) and/or horizontal rotation axis (HWKA) with an air flow concentrator is an atypical wind turbine which is referred to below simply...

Due to small efficiency, particularly in low and variable winds, main topic here is development of optimal flow concentrator that locally augments wind velocity, facilitates turbine start ...

Wind Concentrator is suitable for harvesting wind energy in low wind speed regions as it accelerates the wind in the Venturi section, thus it will generate more power than other wind energy systems under ...

Analytical models that adequately predict the power production of wind turbines are required so as to produce energy in areas of low wind speed using concentrators and diffusers.

The aerodynamics of those three concentrators with their possible wind turbines are investigated with a focus on integration resulting in maximum energy yield of the wind turbine.[6]

The main aim of this study is to develop and design a small-scale wind turbine concentrator, to operate mainly at low and medium wind speeds. The computational fluid dynamics (CFD) simulations are ...

A wind concentrator was developed to change the wind speed and then direct it to the rotor blades. The wind



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concentrator has two wind turbines with a vertical rotor and is designed to ...

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