Wind power generation using wind turbine exhaust

In this process, wind from all exhaust fans will be collected and driven through a single tunnel which will give a huge wind flow to the wind turbine. And then wind turbine will convert it into effective electrical ...

Abstract A vertical axis wind turbine (VAWT) was positioned at the discharge outlet of a cooling tower electricity generator.

This report presents the design and testing of an exhaust air energy recovery wind turbine generator in order to propose a new system on clean energy generation.

axis wind turbine (VAWT) with an enclosure on the top of an exhaust air system. The energy recovery system is targeted to produce on-site clean energy generation from the exhaust air...

With the help of this paper, a small contribution to energy production and pollution in the environment can be reduced. Exhaust Fan Cum Micro Wind Turbine (EFCMWT) is used for power ...

The feasibility of integrating the designed energy recovery wind turbine generator above an exhaust air system was evaluated by performing a series of tests on a fabricated small scaled ...

Utilizing wind turbines to harness the energy potential of exhaust air from ducts presents an innovative approach in renewable energy generation. By strategically placing turbines within these ducts, the ...

This research aims to design an exhaust air energy recovery system using a Savonius-type wind turbine and to investigate its performance. The prototype design was created using ...

Abstract An innovative system to recover part of the energy from man-made wind resources is introduced. A vertical-axis-wind-turbine (VAWT) with an enclosure is mounted above a cooling tower ...

This system generates on-site clean energy using a micro wind generation system. A vertical axis wind turbine (VAWT) with an enclosure is mounted above a cooling tower"s exhaust fan ...

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