

Title: Wind turbine tower exhaust

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To avoid a negative impact on the performance of the cooling tower and to optimize the turbine performance, the determination of the VAWT position in the discharge wind stream was ...

In this paper, the exhaust air energy recovery wind turbine generator is specifically designed for integration with a cooling tower. Fig. 2 shows the general arrangement of this innovative ...

A vertical axis wind turbine (VAWT) in cross-wind orientation, with an enclosure is mounted above a cooling tower's exhaust fan to harness the wind energy for producing electricity.

exhaust air system depending on the incoming air's direction to the turbine. In order to capture the wind blown from the bottom, the system is installed horizontally with a supporting structure...

Thus, this paper proposes the concept of an energy recovery system on a cooling tower by using commercially available wind turbines. It is an energy recovery system which might reduce ...

This paper presents a conceptual and technical analysis of integrating wind turbine systems with cooling tower exhausts to recover energy. Design considerations, potential benefits,...

To harness clean energy from the exhaust of induced draft cooling tower without affecting the performance of cooling tower. A vertical axis wind turbine (VAWT) is mounted over the top of cooling ...

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 ...

In this paper, the utility of an energy recovery wind turbine system has been investigated. Two vertical axis wind turbines (VAWTs) assembled with an enclosure were positioned above a full-scale cooling ...

The feasibility of integrating the designed energy recovery wind turbine generator above an exhaust air system



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was evaluated by performing a series of tests on a fabricated small scaled ...

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