Under-vehicle wind turbine system

This work focuses on designing an experimental setup that harnesses wind power to generate electrical energy, aiming to create a compact system that can be mounted on the roof of a ...

This study aims to examine the influence of various wind types (determined by the direction of wind speed affecting the vehicle) on distinct trip purposes, such as office trip, short trip, ...

Using the wind speed produced by a moving car to turn the blades of the turbine and placing multiple small turbines in suitable locations of the car, the battery of the electric vehicle may be extended by a ...

This project demonstrates the feasibility of integrating a small-scale wind turbine with an alternator for renewable energy applications, specifically for charging car batteries.

A roof-mounted, internal wind turbine is used to harness wind power, while the vehicle is in motion. On the other hand, when the vehicle is parked, an external wind turbine attaches to the ...

The results conclude that the value of micro wind turbines is shimming with highway driving scenarios where the effect of regenerative braking is absent and the drag force acting on the ...

This study introduces an innovative set of guide vanes that increase the efficiency of Vertical Axis Wind Turbines (VAWT) using winds generated by vehicles traveling on highways. The ...

The concept involves capturing wind energy through turbines mounted on the vehicle. This energy is converted into electrical power and stored in batteries, providing an auxiliary or ...

This approach aligns with the growing emphasis on distributed energy generation and the decentralization of power infrastructure. In this study, we aim to evaluate the effectiveness of a ...

Regarding that aim, the effect of vehicle type wind turbine, which was designed so as not to cause an increase in the vehicle projection area, on the aerodynamic performance and energy...

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