
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 ...

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 ...

Each of these troughs has multiple small holes or "openings" at the bottom. As the car moves, air is funneled into these openings and directed toward mini wind turbines, which ...

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

The results conclude that the value of micro wind turbines ...

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.

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 ...

In this context, the present paper concerns the aerodynamic and electromechanical design of a small wind turbine for the exploitation of the wind generated by vehicles movement ...

A mobile vehicle-induced wind turbine system offers a creative, efficient response to the growing need for clean and renewable energy. This paper discusses the

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Abstract - This article focuses on the design of a Diffuser Augmented wind turbine that will be installed on the vehicle to create electrical power that may be utilised to operate accessories ...

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 ...

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