

Review of: "Enhancing Electric Vehicle Reliability and Integration with Renewable Energy: A Multi-Faceted Review"

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A well-structured article discusses the predominant focus on Electric Vehicle (EV) drive motor reliability within research, while often overlooking the vital aspect of the motor controller. This study aims to bridge this research gap by evaluating the overall reliability of the entire electric van motor system, encompassing both the drive motor and the motor controller components. It not only forecasts failure rates for these components but also sheds light on their vulnerabilities and the limitations in current research. These findings can offer valuable insights for future design and maintenance practices.

Furthermore, the growing integration of Electric Vehicles (EVs) and renewable energy sources has garnered significant attention. However, concerns regarding the reliability of these components have surfaced. To address this issue, the article introduces an innovative methodology known as "Innovative Incentive-Driven Fuzzy Fault Tree Analysis" (IIFFTA). This approach is designed for power systems that incorporate EVs and renewable energy sources and is specifically tailored to handle vague and imprecise events, as well as data deficiencies, which are often challenging to address using traditional fault tree analysis methods.