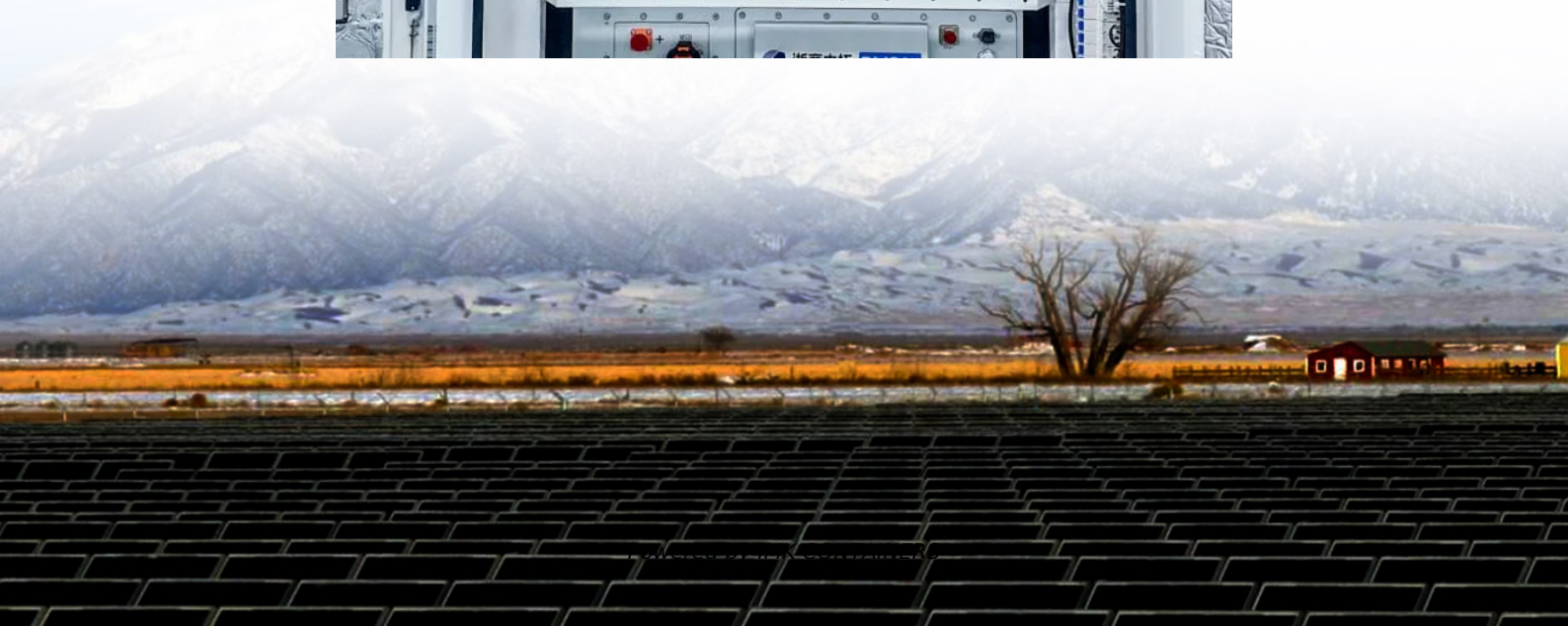


Small energy storage vehicle equipment





Overview

What are energy storage and management technologies?

Energy storage and management technologies are key in the deployment and operation of electric vehicles (EVs). To keep up with continuous innovations in energy storage technologies, it is necessary to develop corresponding management strategies. In this Review, we discuss technological advances in energy storage management.

What are energy storage systems?

Energy storage systems are devices, such as batteries, that convert electrical energy into a form that can be stored and then converted back to electrical energy when needed ², reducing or eliminating dependency on fossil fuels ³. Energy storage systems are central to the performance of EVs, affecting their driving range and energy efficiency ³.

Why is energy storage management important for EVs?

We offer an overview of the technical challenges to solve and trends for better energy storage management of EVs. Energy storage management is essential for increasing the range and efficiency of electric vehicles (EVs), to increase their lifetime and to reduce their energy demands.

What is a sustainable battery roadmap?

This roadmap is a large-scale, long-term European research initiative aimed at inventing sustainable batteries, including a smart battery with implanted sensing and self-healing functionalities. Zhang, F. et al. Energy management strategies for hybrid electric vehicles: review, classification, comparison, and outlook.



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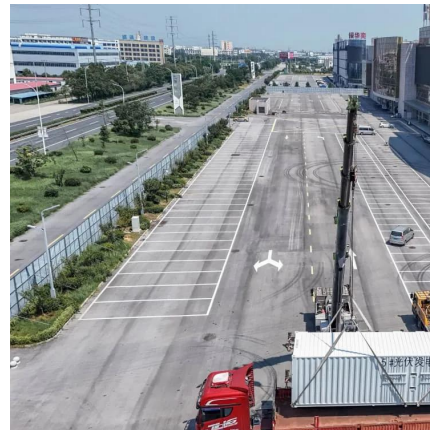
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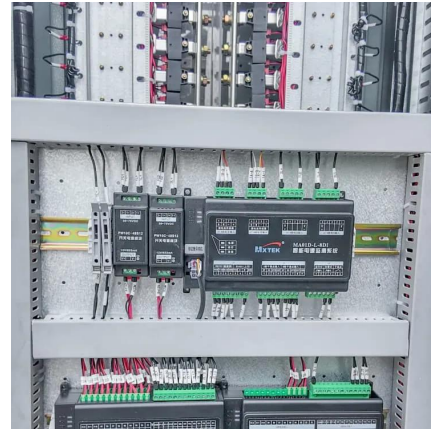


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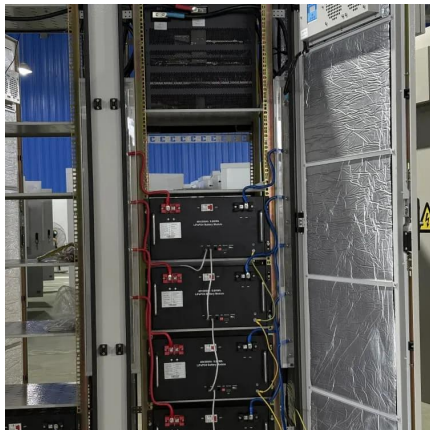




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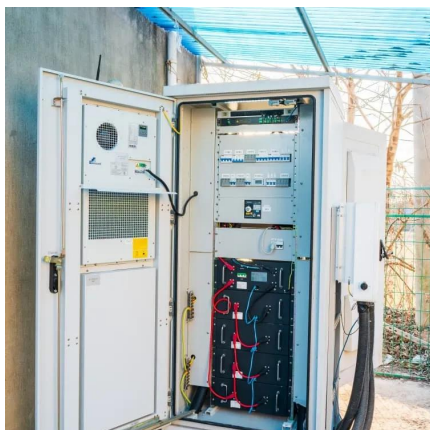
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Electric vehicles require careful management of their batteries and energy systems to increase their driving range while operating safely. This Review describes the technologies ...

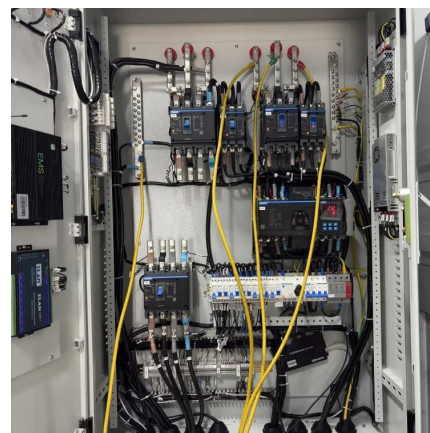
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