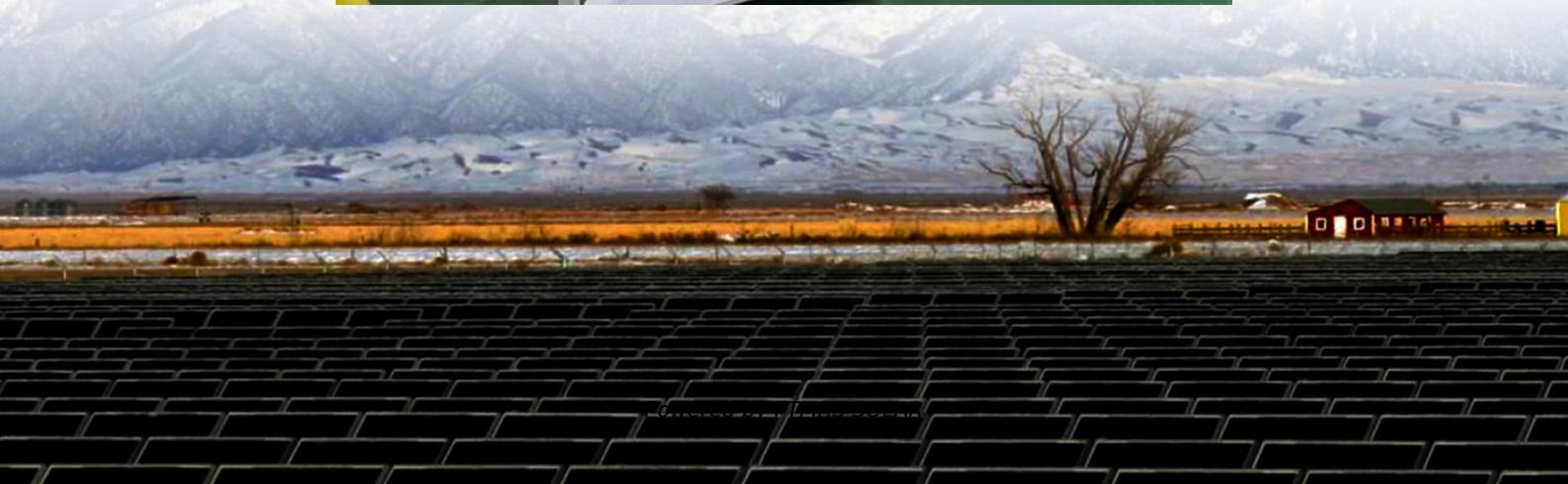




FTMRS SOLAR

Energy storage cabinet research and development of energy storage charging pile





Overview

In this paper, the battery energy storage technology is applied to the traditional EV (electric vehicle) charging piles to build a new EV charging pile with integrated charging, discharging, and storage; Multisim software is used to build an EV charging model in order to simulate the charge control guidance module. What is energy storage charging pile equipment?

Design of Energy Storage Charging Pile Equipment The main function of the control device of the energy storage charging pile is to facilitate the user to charge the electric vehicle and to charge the energy storage battery as far as possible when the electricity price is at the valley period.

What is the function of the control device of energy storage charging pile?

The main function of the control device of the energy storage charging pile is to facilitate the user to charge the electric vehicle and to charge the energy storage battery as far as possible when the electricity price is at the valley period. In this section, the energy storage charging pile device is designed as a whole.

How does the energy storage charging pile's scheduling strategy affect cost optimization?

By using the energy storage charging pile's scheduling strategy, most of the user's charging demand during peak periods is shifted to periods with flat and valley electricity prices. At an average demand of 30 % battery capacity, with 50-200 electric vehicles, the cost optimization decreased by 18.7%-26.3 % before and after optimization.

What is the energy storage charging pile system for EV?

The new energy storage charging pile system for EV is mainly composed of two parts: a power regulation system and a charge and discharge control system. The power regulation system is the energy transmission link between the power grid, the energy storage battery pack, and the battery pack of the EV.



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