

Research on the technology of energy storage charging pile group in China

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.

Can battery energy storage technology be applied to EV charging piles?

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 a charging pile & why is it important?

As we all know, the charging pile, as a necessary infrastructure for the operation of new energy vehicles, is the key to developing new energy vehicles.

Do charging pile companies have innovation efficiency?

Studying the innovation efficiency of charging pile companies can help to solve the development dilemma of the charging pile industry. This paper uses the generalized fuzzy data envelopment analysis (DEA) method based on game theory to study 23 Chinese listed charging pile manufacturing companies' innovation efficiency from 2019 to 2021.

How will China develop the charging pile industry?

In the 'New Energy Vehicle Industry Development Plan (2021-2035)', the Chinese government states that the future development of the charging pile industry revolves around three levels: charging infrastructure construction, service quality, and economic model innovation.

What data is collected by a charging pile?

The data collected by the charging pile mainly include the ambient temperature and humidity, GPS information of the location of the charging pile, charging voltage and current, user information, vehicle battery information, and driving conditions. The network layer is the Internet, the mobile Internet, and the Internet of Things.

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First, this paper summarizes the development status of China's charging pile and proposes the research route for the development of charging pile bottlenecks; secondly we analyze China's policies on different stages and construct implementation path of charging pile.

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The charging pile (CP) industry, a crucial component of the new energy vehicle (NEV) industry's supply chain, requires improvements in both quantity and quality. This study examined the technological innovation efficiency (TIE) of the CP industry, considering two levels: pure technical efficiency (PTE) and scale efficiency (SE), and explored ...

With the proposal of the "carbon peak and neutrality" target, various new energy storage technologies are emerging. The development of energy storage in China is ...

1.7.4 Distribution of Public Charging Stations/Piles in China -TOP10 Provinces and Cities 1.7.5 Distribution of Public Charging Stations/Piles in China - by Province and City 1.7.6 Ownership of Charging Piles (Private Charging Piles) ...

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Because of the popularity of electric vehicles, large-scale charging piles are connected to the distribution network, so it is necessary to build an online platform for monitoring charging pile operation safety. In this paper, an online platform for monitoring charging pile operation safety was constructed from three aspects: hardware, database, and software ...

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