

# Prospects of solar power charging piles

Are charging piles affecting the development of electric vehicles?

However, due to the lag of the development of China's charging pile industry, which constrained the development of electric vehicles. This paper analyzes the key issues of market mechanism and infrastructure of charging piles.

Do public charging piles limit the sales of electric vehicles?

We find that insufficient public charging piles would significantly limit the sales of electric vehicles, in particular when the public charging piles are built up for specific users or in developed regions where private parking spaces are limited.

Can public charging piles improve EV industry development in China?

The findings in this paper provide important implications for EV industry development in China. First, providing more public charging piles is important to increase the sales of electric vehicles. It is more feasible to install the public charging piles in the residential and the government communities.

How a charging pile is developing in China?

Under the development of new energy vehicles, especially the tram policy of taxi and online car hailing, has promoted the industrial development of charging piles. China's public charging piles mainly rely on charging owners using charging services to make profits, and many charging pile manufacturers have successfully entered the market.

What are the common problems in charging pile operation industry?

The inadequate maintenance of electric vehicle charging facilities and the insufficient service capacity are common problems in the charging pile operation industry.

Are public charging piles built up for specific users?

the public charging piles were built up for specific users. Table 3. Regression results: number of two types of public charging piles and EV sales. Notes: coefficients are reported based on two-way fixed effect panel regression.

This study has good application prospects in improving the preventive maintenance effect of electric vehicle charging piles. ... the duration of the power outage in the charging area  $C_i$  ... Step ...

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