

Is China's new energy vehicle battery industry coevolutionary?

Empirically, we study the new energy vehicle battery (NEVB) industry in China since the early 2000s. In the case of China's NEVB industry, an increasingly strong and complicated coevolutionary relationship between the focal TIS and relevant policies at different levels of abstraction can be observed.

How much will China's battery industry be worth in the future?

Ouyang Minggao, from Tsinghua University's school of vehicle and mobility, and a leading figure in China's early EV research projects, told science media platform The Intellectual on Monday that the country's battery industry could be worth 10 trillion yuan (US\$138 billion) in the future.

Why are new energy vehicles booming in China?

Since the Chinese government set carbon peaking and carbon neutrality goals, the limitations and pollution of traditional energies in the automotive industry have fuelled the development of new energy vehicles (NEVs). As a strategic emerging industry, the NEV industry is booming, and the country will vigorously promote it in the future.

Why is China developing the NEV battery industry?

As the largest developing country, China has been adhering to the spirit of "pursuit of excellence" and has invested a lot of manpower and material resources in science and technology innovation, and the NEV battery industry is just one of the projects. The Chinese government has introduced support policies to develop this industry successively.

How does China support the battery industry?

The battery industry involves research and development, production, sales, maintenance, recycling, and other stages of batteries. However, China's supporting policies only involve production, sales, and recycling, lacking research and development and maintenance, which are two very important stages.

What is China's Power Battery output?

According to the data released by China Automotive Power Battery Industry Innovation Alliance, the total output of power batteries is 70.6 Wh, of which ternary batteries have the highest output and the highest percentage (see Fig. 1, Fig. 2, Fig. 3). Fig. 1. China's power battery output from 2018 to 2020 (unit: GWh, %).

State of charge (SOC) estimation of power battery pack is critical for electric vehicles (EVs). During the service life of electric vehicles, the consistency of power pack changes due to manufacturing errors and different usage environments, which in turn affects the accuracy of battery pack SOC estimation. To improve the accuracy of pack SOC estimation while ...

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The Zhejiang Shiguang new energy battery project, for example, has a planned investment of 10.3 billion yuan and will see the construction of a research and development center in the Hangzhou Bay Economic Development Zone in Shaoxing. In 2022, Shaoxing has already attracted 63 industrial projects worth over 10 billion.

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