

What is new energy power battery technology?

New energy power battery technology is a highly patent-intensive field, and patent protection and cooperation are crucial to the development and application of the technology. Patents are the result of technological innovation and an important indicator of technological innovation behavior (Archibugi 1992).

How has the new energy vehicle power battery Patent Cooperation network evolved?

Phased evolution of the patent cooperation network: From 2008 to 2021, the evolution of the new energy vehicle power battery patent cooperation network presents significant phased characteristics, which not only reflect the rapid development of technology but also reflect the deepening of the industry-university-research cooperation mode.

Is the NEV battery industry a new industry?

The development of the battery industry is crucial to the development of the whole NEV industry, and many countries have listed battery technologies as key targets for support at a national strategic level, which means that the NEV battery industry as a new industry has stepped on the stage of the development of this era.

How a power battery affects the development of NEVs?

As one of the core technologies of NEVs, power battery accounts for over 30% of the cost of NEVs, directly determines the development level and direction of NEVs. In 2020, the installed capacity of NEV batteries in China reached 63.3 GWh, and the market size reached 61.184 billion RMB, gaining support from many governments.

How important are batteries in the development of NEV industry?

clarified the importance of batteries in the development of the NEV industry. In 2009, the state promote 10 new cities and 1,000 new energy vehicles for each city every year. Since then, China's NEV industry has entered a period of rapid development. just like Figure 1 shows. Figure 1. NEV Sales and Battery Installed Capacity increase of 45.8%.

Are Power Batteries A key development area for new energy vehicles?

In the Special Project Implementation Plan for Promoting Strategic Emerging Industries "New Energy Vehicles" (2012-2015), power batteries and their management system are key implementation areas for breakthroughs. However, since 2016, the Chinese government hasn't published similar policy support.

Announced the plan to achieve carbon neutrality in core operations by 2025 and across the battery value chain by 2035. Launched condensed battery with an energy density of up to 500 Wh/kg. Released QIJI Energy, the self-developed all-in-one heavy-duty truck chassis battery swap solution. Zhaoqing Plant was certified as zero-carbon battery factory.

But at the same time, new energy vehicles still have many problems in battery safety, charging efficiency, etc. Based on this, the facts in this study are collected and analyzed on the battery ...

The results show that NEV's battery second use has commercial and social value compared to new battery energy storage. Moreover, battery cost, government subsidies, and electricity...

Abstract: To achieve carbon peak and neutrality targets, the construction of green, low-carbon and efficient energy system has become a trend. The power battery enterprise, as a green energy source, has attracted much attention and how to evaluate its value has become a hot topic.

XIAMEN, China (AP) -- The world's largest maker of batteries for electric vehicles said Wednesday it will get into battery swapping in China in a big way starting next year.. The idea behind battery swapping is to refuel quickly, similar to filling a conventional car with gas. Instead of waiting for the batteries to recharge, one swaps out the old ones with a block of ...

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This paper studies the cooperation and production strategy of power batteries for new energy vehicle manufacturers under the carbon cap-and-trade policy. According to the ...

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To deeply analyze the cooperative patent application and distribution trend in the field of power batteries, this paper collects the patent cooperation data of China's new energy ...

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As the figure1 shows, In this car enterprise-led battery-swap operation mode, the upstream of the industrial chain includes a series of spare parts enterprises related to electric vehicle production and battery-swap station construction service enterprises. In the middle reaches of the industrial chain, the construction of battery-swap stations and the demand design of batteries are mainly ...

This paper studies the cooperation and production strategy of power batteries for new energy vehicle manufacturers under the carbon cap-and-trade policy. According to the different ways of cooperation between manufacturers and suppliers about power batteries, we constructed the game models under three strategies: wholesale purchase, patent ...

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