

Interpretation of the policy on the return of new energy batteries

What is the new battery regulation?

To respond to the growing demands, the EU has adopted a New Battery Regulation in July 2023, which replaces the previous Battery Directive from 2006 (EU Battery Directive 2006/66/EC). We summarized the Directive and its key changes for you. REGULATION (EU) 2023/1542 of July 12, 2023 on batteries and waste batteries

Do power batteries recycling policies have a practical effect?

The practical effect of power battery recycling (PBR) largely depends on consistency or conformity within and among central-local policies (Steward et al., 2019). Therefore, it is crucial to conduct policy consistency evaluation of power batteries recycling policies (PBRPs) scientifically to find out the in-depth problems.

What is new energy vehicles power batteries recycling (PBR)?

The efficient and effective new energy vehicles (NEVs) power batteries recycling (PBR) plays a critical role in reusing scarce metal resources, decarbonizing the transport sector and climate warming mitigation. The policy consistency from up to down in a big country lays a solid foundation for sustainable recycling.

Is there a theoretical basis for power battery policy research?

In summary, the literature provides an important theoretical basis for power battery policy research. However, previous research is far from systematic and in-depth. First, this research focused more on analysis of the technology, while research on policy is still scarce.

Why are Power Battery policies so complicated?

Because of their large number, policies for the power battery industry have become complicated. If policy elements are not reasonably designed and configured, certain negative effects might hamper the development of the power battery industry, leading to missed opportunities to guide and regulate the industry.

Are China's battery recycling policies consistent?

We evaluate the China's central and local power batteries recycling policies. The PMC-Index model is used to quantitative analysis of policy consistency. The longitudinal and horizontal consistency of battery recycling policies is good. Carbon footprint requirements should be added in China's battery recycling policies.

Industrial, traction and starter batteries (>2kWh) will be subject to the obligation from 2028. The first stage is an information obligation before the first minimum proportions apply from 2031, which must then be gradually increased until ...

The IEA's Special Report on Batteries and Secure Energy Transitions highlights the key role batteries will play in fulfilling the recent 2030 commitments made by nearly 200 countries at COP28 to put the global ...

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Batteries play an important role in the decarbonisation of road transport. By looking at the EU battery legislation from 1991 to 2022, policy change in the subsystem and its ...

Oil prices have risen as non-renewable resources such as oil have dwindled. The global demand for new energy vehicles is also increasing. New energy car is mainly used ...

The recycling of retired new energy vehicle power batteries produces economic benefits and promotes the sustainable development of environment and society. However, few ...

For batteries to realise their potential to contribute, policy makers need to establish effective frameworks for market access, ensure fair competition among technologies, and recognise the ...

State of Energy Policy 2024 - Analysis and key findings. A report by the International Energy Agency. ... Over the past 25 years, the number of new trade measures targeting batteries, ...

With the advancement of new energy vehicles, power battery recycling has gained prominence. We examine a power battery closed-loop supply chain, taking subsidy ...

The negative impact of used batteries of new energy vehicles on the environment has attracted global attention, and how to effectively deal with used batteries of new energy ...

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This paper describes the characteristics of China's power battery industry policy from a multidimensional perspective by investigating the following aspects: (1) how many (i.e. ...

When specific policies are implemented, they may have to adjust the production and sales direction according to the new support policies and may need to develop and sell ...

Then, 34 central policies and 82 local policy texts searched and selected were coded in the way of "policy number-chapter number-clause number", The paper then classifies ...

With the yearly increasing market penetration of new-energy vehicles in China, the retirement of power batteries has gradually become a scale, and most of the waste ...

previous batteries, three new types are introduced: firstly, solar cells; second, new lithium batteries; thirdly, fuel cells. Specific ways and management measures of recycling waste batteries are ...

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The impact of NEV industry policies on technological innovation, particularly the role of subsidized policies, has been a contentious topic at the policy implementation level, ...

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Batteries will enable us to use energy in a more flexible way that supports decarbonisation goals by helping to balance the system, maximise the usable output from renewable energy, and...

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4 ???#0183; As the demand for batteries as clean energy solutions grows, so does the need for effective battery recycling to ensure a sustainable and competitive industry. A new series of ...

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