

# New energy cannot be scrapped without batteries

Can new-energy vehicle power batteries be recycled?

The recycling of new-energy vehicle power batteries is a complex system problem that involves social, economic, environmental, and other aspects. The effect of each strategy and whether it is effective in the medium and long term must be explored.

Is the new energy battery recycling strategy optimal?

As finite rational individuals, the strategy choice of each participant in the new energy battery recycling process is not always theoretically optimal, and the new energy battery recycling strategy is also influenced by the carbon sentiment of manufacturers, retailers, and other participants.

How can waste batteries be used in a new energy vehicle?

Waste batteries can be utilized in a step-by-step manner, thus extending their life and maximizing their residual value, promoting the development of new energy, easing recycling pressure caused by the excessive number of waste batteries, and reducing the industrial cost of electric vehicles. The new energy vehicle industry will grow as a result.

Can NEV batteries be recycled?

Among them, recycling NEV batteries is more suitable for power battery retailers or NEV sales and service 4S shops, where the seller is the recycler [ 41 ]. In 2018, China's Ministry of Industry and Information Technology issued the Interim Measures on the Management of Power Battery Recycling of NEVs.

What happens if waste batteries are not recycled?

A variety of heavy metals contained in waste batteries, if not recycled and properly treated, toxic substances will accumulate in the environment, and eventually accumulate in the body is difficult to eliminate, the recycling and utilization of waste batteries, has become important and continue to be pushed over and implemented.

Should NEV retailers educate consumers about power battery recycling?

Retailers of NEVs should educate consumers about power battery recycling and formal recycling channels. Through incentives, consumers are encouraged to actively participate in the recycling process. Consumers play a key role as the source of waste power battery recycling and the starting point of the recycling channel.

Electric vehicle or EV battery recycling in China is growing into a multibillion dollar business as investors are eyeing opportunities in surging volumes of retired new energy vehicles, or NEVs. Analysts said enhanced industry standards and ...

Actually, spent batteries are often scrapped directly without any reuse. As shown in Figure 1,



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have been scrapped, and research on NEV battery recycling is important for promoting the sustainable development of NEVs. Battery recycling is an important aspect of the sustainable development of NEVs. In this study, we conducted an in ...

In China, the global largest LIB recycling region, the standardized recycling rate of new energy vehicle power batteries is still less than 25 % by 2023. As a result, lots of the spent batteries are incinerated or end up in landfills, posing huge risks on environmental quality and human health [7], [8], [9] .

In 2019, the lithium content of lithium batteries in China's new energy vehicles was 9.06 thousand tons, which accounted for 60% of the total domestic lithium battery consumption. In 2014, this proportion was only 13%. The lithium batteries assembled in new energy vehicles are mainly ternary material batteries and lithium iron phosphate ...

This vigorous development of the new energy vehicle industry has generated many end-of-life power batteries that cannot be recycled and reused, which has brought serious consequences for the environment. In order to solve the negative externality problem brought by EoL power batteries, how the government intervenes in the development of the ...

The new energy vehicle manufacturer produces new energy vehicles and processes the recycled used batteries to obtain remanufactured batteries, after which the ...

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