

Battery loss of new energy vehicles in the Balkan Peninsula

Will repowering reduce Russian fossil fuel demand?

The REPowerEU plan is increasing the pressure to ease environmental protection rules in the European Union so that it can eliminate the demand for Russian fossil fuels. The European Green Deal from 2020 already indicated the bar for environmental protection standards would be lowered for the supply of commodities even on EU territory.

Can Vulcan energy extract lithium from geothermal water without mining?

But Vulcan Energy is actually developing the technology to extract lithium from geothermal water, without mining. The list seems to be incomplete, as there is a lithium mining project in the Czech Republic, for instance, and geothermal extraction efforts in Italy and the United Kingdom.

Are there nickel mining sites in the Balkans?

In the region tracked by Balkan Green Energy News, there are ten potential nickel mining sites: three in both Albania and Turkey, and one each in Serbia, North Macedonia, Kosovo* and Greece. Mining and processing of lithium, copper and nickel can be devastating for the population's health, agriculture, water sources and biodiversity.

What is the case of Western Balkans?

The case of Western Balkans - ScienceDirect Economics of electric energy storage. The case of Western Balkans State of the art of technology and application of pumped hydro and battery storage systems. Overview of the installed electricity storage capacities in Western Balkans.

Will ElevenEs source lithium materials from Serbia?

Asked about whether the company intends to source lithium materials from Serbia, founder and CEO Nemanja Mikac told Balkan Green Energy News that the plan is to import the commodities. ElevenEs requires lithium iron phosphate for cathodes, he stressed. Mikac noted that Rio Tinto's project is on hold in Serbia.

Do premium cars still use NMC batteries?

Most premium vehicles are still equipped with NMC battery packs, allowing for the longest range possible, and other, less-expensive vehicles use L (M)FP. This pattern is already apparent in the market, with sport versions of common vehicles using NMC to differentiate them from less expensive models.

Battery-related emissions play a notable role in electric vehicle (EV) life cycle emissions, though they are not the largest contributor. However, reducing emissions related to battery production and critical mineral processing remains important. Emissions related to batteries and their supply chains are set to decline further thanks to the electrification of ...

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Energy storage could be the key component for efficient power systems transition from fossil fuels to renewable sources. The core objective of this paper is to investigate the ...

In order to explore fire safety of lithium battery of new energy vehicles in a tunnel, a numerical calculation model for lithium battery of new energy vehicle was established. This paper used eight heat release rate (HRR) for lithium battery of new energy vehicle calculation models, and conducted a series of simulation calculations to analyze and compare the fire ...

The recycling of retired new energy vehicle power batteries produces economic benefits and promotes the sustainable development of environment and society. However, few attentions have been paid to the design and optimization of sustainable reverse logistics network for the recycling of retired power batteries. To this end, we develop a six-level sustainable ...

The power batteries of new energy vehicles can mainly be categorized into physical, chemical, and biological batteries. Physical batteries, such as solar cells and supercapacitors, generate ...

And constructed a new energy vehicle decommissioned power battery recycling platform based on the big data technology. Integrated characteristics of big data information, this paper analyzes the ...

The balance could soon shift globally in favor of L(M)FP batteries, however, because technological improvements over the past few years have increased energy density ...

Solid-state batteries have a more substantial environmental impact during the production phase, approximately 27 % higher than similar lithium batteries, with NCM outpacing LFP. However, in the usage phase, NCM batteries, due to their unique structure, significantly mitigate energy losses compared to LFP batteries. The study also found that ...

For instance, in 2022, Europe had a 21% share of the global new sales of passenger cars, which is considerably more significant than its current share in the supply chain of EV batteries. Currently, the Li-ion cell production capacity in Europe approximately accounts for 7% of the global capacity of the giga-factories, compared to China's global share of 76%. The ...

Battery-related emissions play a notable role in electric vehicle (EV) life cycle emissions, though they are not the largest contributor. However, reducing emissions related to ...

Energy shortages and high electricity costs are major issues in the WB region, with significant political implications. The region's reliance on coal does not comply with the EU acquis or the Paris Agreement, leading to potential delays in EU accession negotiations.

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renewable sources. The core objective of this paper is to investigate the cost-effectiveness of pumped hydro storage and large-scale battery storage systems.

Balkan Peninsula. Also referred to as the Balkans, the Balkan Peninsula is a geographical and cultural region in the southeastern part of Europe. The region is named after the Balkan Mountains that stretch for about 557km from the boundary between Bulgaria and Serbia to Cape Emine on the Black Sea coast. The term "Balkan" has been derived from a Turkish word ...

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Battery-powered electric cars (BEVs) play a key role in future mobility scenarios. However, little is known about the environmental impacts of the production, use and disposal of the...

The Balkans in Europe Policy Advisory Group is conducting a comprehensive study on the geopolitics of the green energy transition in the Western Balkans. The study is based on desk research, several detailed case studies and an opinion poll conducted between March and April 2023 in Albania, Bosnia and Herzegovina, Kosovo, North Macedonia ...

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