

# Main materials for batteries in the Balkan Peninsula

Is lithium a key mineral in the Western Balkans?

The interest in developing lithium deposits in the Western Balkans is part of a wider push to exploit the mineral across Europe. Demand for the world's lightest metal, lithium, is forecast to grow strongly in the coming decade as car manufacturers ramp up production of electric vehicles (EVs).

Is Montenegro a good place to buy a lithium battery?

Additionally, Montenegro has a convenient infrastructure for export and a favorable geographical location. We conducted an analysis of the lithium battery market in the region and concluded that demand for our product will be high.

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.

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.

Are lithium ion batteries a strategic technology?

The transition to electric and hybrid vehicles is making lithium ion batteries a strategic technology, as other available solutions are still in their infancy. The administration in Brussels is counting on the countries that it sees as reliable to provide the critical materials for the energy transition.

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.

The ionosphere over the seismogenic zones exhibited large-scale anomalies when multiple seismogenic zones of the Balkan Peninsula spatially and temporally overlapped. Moreover, the TEC around the earthquake centers showed a positive anomaly lasting for 7 h. In a single seismogenic zone in Greece, the TEC around the earthquake center reached over ...

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lifetime and highlights priorities for reducing emissions. Life ...

This report analyses the emissions related to batteries throughout the supply chain and over the full battery lifetime and highlights priorities for reducing emissions. Life cycle analysis of electric cars shows that they already offer emissions reductions benefits at the global level when compared to internal combustion engine cars. Further increasing the sustainability ...

They acknowledged the strategic importance of the Western Balkans region in the context of Critical Raw Materials and batteries, and its role in the EU Value Chain and industries. With the increasing global demand for these materials, the Western Balkans hold a significant potential that must be harnessed effectively to contribute to the EU's ...

The net-zero transition will require vast amounts of raw materials to support the development and rollout of low-carbon technologies. Battery electric vehicles (BEVs) will play a central role in the pathway to net zero; McKinsey estimates that worldwide demand for passenger cars in the BEV segment will grow sixfold from 2021 through 2030, with annual unit sales ...

Critical Raw Materials (CRMs) are indispensable for achieving the twin transition - the seamless integration of digital innovation with the steadfast pursuit of environmental sustainability. The EU economy and various strategic sectors, such as renewable energy, digital, space and defence heavily rely on CRMs.

Leaves play a central role in plant fitness, allowing efficient light capture, gas exchange and thermoregulation, ensuring optimal growing conditions for the plant. Phenotypic variability in leaf shape and size has been linked to environmental heterogeneity and habitat characteristics. Therefore, the study of foliar morphology in plant populations can help us to ...

Our lithium battery production technology is based on innovative developments that enable us to create batteries with high energy efficiency and durability, as well as with ...

The EU is lowering environmental standards for mining lithium and other materials for the energy transition, but the Western Balkans and other third countries are set to take an even heavier burden.

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This project aims to investigate high temperature (pegmatite) veins and/or volcano-sedimentary deposits of lithium (and boron) at key sites across the Balkan Peninsula. The study will aim to uniquely combine the elemental and/or isotope signatures of key Li-containing minerals and their mineral associations in an attempt to decipher the lithium ...

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Iron-nickel-laterite deposits in the Balkan Peninsula and Turkey, located in the Mirdita-Sub-Pelagonian and Pelagonian geotectonic zones, extending into the Anatolides zone are a major source ...

Europe is already an important centre for EV manufacturing, which requires lithium for lithium-ion (L-ion) batteries that are also used in electronics and energy storage for renewables. However, the continent's EV manufacturers are dependent on imports; most of the world's lithium is produced in Australia, the South American "Lithium ...

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The volatile compounds of eight peach varieties (*Prunus persica* L.)--"Filina", "Gergana", "Ufo-4", "July lady", "Laskava", "Flat Queen", "Evmolpiya", and "Morsiani 90"--growing in Bulgaria were analyzed for the first time. Gas chromatography-mass spectrometry (GC-MS) analysis and the HS-SPME technique revealed the presence of 65 volatile compounds; the ...

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