

A-Core Container

Does Ukraine use lithium batteries for energy storage



Overview

On May 21st, DTEK has officially launched Ukraine's first industrial lithium-ion energy storage system, installed at the Zaporizhzhya Power Plant in the city of Energodar, with a capacity of 1 MW/2.25 MWh. How much lithium does Ukraine have?

Ukraine has significant deposits of lithium, which are estimated at 500.000 tons (up to 10% of world reserves) Such volumes of this critical raw material, in the future, allow creating a profitable branch of industry with income to the budgets of all levels.

Can lithium be used in high-tech sectors?

The main directions of lithium use of in high-tech sectors of the economy and forecast indicators of the level of consumption until 2035 are given, which confirms the critical role of this material in the construction of electric vehicles, renewable energy and the defence industry.

Why is lithium important in electric vehicles production?

Lithium is a critical mineral raw material that, in combination with graphite, cobalt and nickel, ensures the development of the economy strategic branch in the manufacture of electric vehicles . Today, one of these four critical elements, lithium is the most important and critical in the world electric vehicles production.

Which countries have the most favourable conditions for lithium extraction?

The countries with the most favourable conditions for the lithium extraction from ore and sediment deposits, as well as the potential of Ukraine on the world market, were determined. Global trends in lithium consumption in various industries, as well as its impact on market value, have been established.

How much lithium is in the world?

Analysis of the world market of critical mineral raw materials consumption and forecast data shows that according to the US Geological Survey, as of 2021, world lithium reserves are estimated at 86 million tons .

Where are the world's lithium reserves located?

Up to 58% of estimated world reserves are located at the intersection of three South American countries – Bolivia (21 million tons), Argentina (19 million tons) and Chile (up to 10 million tons) in the so-called “lithium triangle”.

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