

Turkmenistan lithium-ion batteries

Lithium is one of the elements that is widely used in many industries, especially in the ceramics, glass, aluminum, oil, pharmaceutical and battery sectors. Its high energy density, low mass and other environmental and performance properties enable lithium to be used in a wide range of applications in the battery industry, from compact electronic devices to power supplies for vehicles.

According to the studies, it is estimated that there are 86 million tons of lithium reserves worldwide. Despite this, mining companies can process only 82 thousand tons of this per year. By 2025, the global demand for lithium is expected to reach 550 thousand tons.

Worldwide sales of electric cars have approached 5.6 million units by 2021. By 2030, electric car sales are expected to reach 40 million. This level of production requires approximately 3 million tons of 99.9 percent pure lithium. How this figure will be reached by 2030 is just one of many questions to be answered. Therefore, countries and companies aim to meet the increasing lithium need by commissioning new mining sites and new production centers.

In this regard, Tesla is the world's number one consumer of lithium-ion batteries. It is estimated that Tesla uses more than 40,000 tons of lithium hydroxide annually, which is almost half of the world's total consumption. Tesla has established a battery manufacturing factory called Tesla Gigafactory for its own cars. This is the world's largest lithium battery factory. Looking at this, Tesla can actually be defined as a battery company rather than an automobile company.

According to the articles of Ogulgerek Rejepova and Doctor of Technical Sciences Allaberdi Ilyasov published in Turkmen media, the launch of lithium production in Turkmenistan and its further export to international markets will give a powerful impetus to turning the country into a major player in this direction. Turkmenistan has all the natural, technological and human resources to establish the production of lithium, as well as to supply this strategically important element to the world market with

This is important because lithium is one of the most needed substances in the future and is also called white oil because of its rich variety of uses. Lithium production in Turkmenistan will make significant contributions to the country's economy.

Turkmenistan has all resources to become the world's largest producer of lithium and a supplier of this strategic product to world markets, Doctor of Technical Sciences Allaberdi Ilyasov said in his article published on CentralAsia.news news website on Tuesday.

The expert said the global demand for lithium by 2025 will increase to 550 thousand tons. The main driver of this increase will be the massive introduction of electric vehicles. Lithium in its characteristics has unique

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properties that distinguish it from many other metals, in this regard, it has received a very extensive geography of use. Copper and lithium sulphide has proven to be one of the best semiconductors for making thermal and electrical converters, he stated.

Summarizing all the qualities of the element, the analyst stressed the expediency of establishing the production in Turkmenistan of lithium compounds, which is in high demand in the world market.

The Turkmen expert explained that the low-concentration deposits with direct extraction of lithium are brines, for example, in the Dead Sea, in Garabogazgol, in geothermal waters in Turkey, France, Germany and the USA. The lithium can also be found in waters accompanying oil production in Turkmenistan, Kazakhstan and Russia, he added.

Ilyasov concluded his article saying “Turkmenistan has practically all natural, technological and human resources in order to become a major global producer of lithium and its supplier to the world market”.

QBE Asia has issued a detailed report titled “Lithium-Ion Batteries: Increased Adoption, Overlooked Risks,” focusing on the growing global reliance on lithium-ion (Li-ion) batteries.

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