

## Indonesia lithium-ion battery technology

SMM7, March 2: recently, the Minister of Maritime Affairs and Investment Coordination Luhut Binsar Pandjaitan said that Indonesia has a good chance to become one of the largest producers of lithium batteries for electric vehicles. Indonesia has rich reserves of raw materials in the form of minerals, nickel and cobalt, and minerals, nickel and cobalt are key to the lithium battery industry in the next few years.

"We all have production tools that can manage natural resources to add value in the future, such as turning nickel into batteries," Luhut said. Indonesia must therefore be able to maintain a high degree of optimism in order to overcome this epidemic and make this challenge a stepping stone for us. "

He said that if the development of these raw materials is at its best, Indonesia will become a major producer of lithium batteries from 2026 to 2027. "We are working with LG and Contemporary Amperex Technology (CATL) because LG-Hyundai will create an electric vehicle ecosystem here. If all goes well in 2024, Indonesia will use the latest technology called 811 to produce lithium batteries. "

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Indonesia has committed to bringing electricity to its people. With an increasing electrification ratio, the country continues to connect millions of households and individuals to electricity. One of its strategies to support and realize Indonesia's electrification is producing and utilizing electric vehicles (EVs).

According to the Electric Vehicle Production roadmap drawn by the Indonesian Government in July 2021, Indonesia ambitiously plans to produce 400,000 EVs by 2025, 600,000 EVs by 2030, and 1,000,000 EVs by 2035.

The Indonesian EV sector is still relatively underdeveloped. Approximately only 15,000 EVs were sold in 2019, which is a mere 0.2% of the annual vehicle sales for that year. However, firms by McKinsey have predicted a significant increase in the number of EV sales over the coming years.

The COVID-19 pandemic undoubtedly has a significant impact on the automotive industry. To bolster this, the Indonesian government began relaxing taxes on luxury goods.

This is done to regenerate demand in the industry. The attempt is evidently a successful one as, since the introduction of such a measure in March 2021, the volume of vehicle sales and production has gradually increased.

The battery market in Indonesia is expected to grow exponentially from 2020 through 2025. Indonesia's attempt to reduce CO2 emissions by 2030 opens room for EVs to be utilized at a larger scale. The growth and usage of EVs are expected to be the driving force of Indonesia's battery market, with a projected increase in the demand for lithium-ion batteries.

A lithium-ion battery is a rechargeable battery type with high energy density levels and high safety levels. This type of battery is most commonly utilized for portable electronic devices and EVs. Indonesia has extensive nickel and cobalt reserves, both primary raw materials for Lithium-ion batteries.

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