

Congo Republic 5kwh lithium ion battery

Can the Democratic Republic of the Congo produce lithium-ion battery cathode precursor materials?

London and Kinshasa, November 24, 2021 - The Democratic Republic of the Congo (DRC) can leverage its abundant cobalt resources and hydroelectric power to become a low-cost and low-emissions producer of lithium-ion battery cathode precursor materials.

Why does the DRC rely on hydroelectric power plants?

This is due to the DRC's proximity to cathode raw materials and heavy reliance on hydroelectric power plants.

How much would a DRC plant cost?

This is three times cheaper than what a similar plant in the U.S. would cost. A similar plant in China and Poland would cost an estimated \$112 million and \$65 million, respectively. Precursor material produced at plants in the DRC could be cost competitive with material produced in China and Poland but with a lower environmental footprint.

Why is the DRC a cost competitive country?

"The DRC's cost competitiveness comes from its relatively cheap access to land and low engineering, procurement and construction, or EPC, cost compared to the U.S., Poland and China," said Kwasi Ampofo, lead author of the report and BNEF's head of metals and mining.

How can Africa extend its access to the battery industry?

In so doing, the country and the rest of Africa can extend their access from the USD271 billion battery precursor segment to the more lucrative USD1.4 trillion combined battery cell production and cell assembly segments of the battery minerals global value chain.

Is Africa a good place to buy a battery?

Africa has a wealth of critical battery raw materials and is in a position to use these to attract more value-add in downstream processing and manufacturing."

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Annual lithium-battery demand will grow rapidly, topping 4.5 terawatt-hours (TWh) annually by 2035. Meeting this demand requires unprecedented but achievable increases in metals, precursor and cell production.

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Huawei présente la batterie modulaire au lithium (Lithium Fer Phosphate - LFP) Huawei LUNA2000-5 / 10/15. La batterie lithium LUNA 2000-5kWh de Huawei est une solution de stockage d'énergie qui comprend une batterie Li-ion haute tension avec une longue durée de vie et une capacité de stockage de 5kWh.

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