

Indonesia smart battery solution

Will Indonesia build a battery energy storage system?

by Bambang Purwanto JAKARTA, March 18 (Xinhua) -- Indonesia's state-owned electricity company PT PLN and its subsidiaries have collaborated with the Indonesia Battery Corporation (IBC) to build a battery energy storage system (BESS) with a capacity of 5 Megawatts (MW) this year.

Why is battery technology needed in Indonesia?

In addition, the transmission system in Indonesia is vulnerable to black outs, hence battery technology will be needed to support the stability of the electricity infrastructure. Another approach taken by the Indonesian government to reduce the reliance on energy imports, is to accelerate the development of the electric vehicle industry.

What is battery energy storage solution technology (BESS)?

Battery Energy Storage Solution technology (BESS) will play a critical role in the development of Indonesia's renewable energy and electric vehicles. Those sectors are some of top priorities from the Indonesian government as Indonesia aims to increase its renewable energy contribution to 23% to the energy mix by 2025, vs. 13% today.

How much battery capacity does Indonesia have?

The Energy Shift Institute (Energy Shift) foresees that this year, Indonesia will hold less than 0.4% of global battery manufacturing capacity. In absolute terms, that capacity is just 10GWh out of the more than 2,800GWh the world has in total, not to mention the global figure is set to double by 2030.

Is Indonesia a market in the energy transition?

Indonesia is a market in the energy transition as the country is moving from fossil fuels to clean energy resources. In 2023, Indonesia derived approximately 60% of its energy from coal, while renewable energy's contribution is estimated at about 15%.

How will Indonesia's battery industry develop?

The technologies needed to support Indonesia's battery industry development will be in high demand globally. Indonesia has banned the export of raw materials from the mining sector since 2019. Through this raw material export ban, Indonesia aims to develop the whole supply chain or ecosystem necessary for the battery industry in Indonesia.

Investors of battery making largely follow EV market trends, yet Indonesia's EV adoption remains sluggish. The country's nickel exploitation leans on the promise of moving up the value chain and capturing a

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Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

