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Indonesia lithium energy storage power supply specifications



Overview

What is the minimum battery production capacity in Indonesia?

minimum battery production capacity of approximately 36.8 GWh to meet its EV targets. Currently, the country has only 10 GWh of NMC battery cell capacity (from PT HLI Green Power) and 100 MWh of LFP battery cells (from PT Gotion Green Energy Solutions Indone.

Can energy storage systems be deployed in Indonesia?

Tapping into the limited but existing opportunities for deploying energy storage systems (ESS) is vital for expanding their role in Indonesia's power sector. At present, the greatest potential for ESS deployment lies in smaller and/or isolated systems, as well as in industrial or large scale commercial solar rooftop PV with BESS.

Does Indonesia need a battery?

energy (VRE) sources such as solar and wind, ensuring grid stability and reliability. However, despite Indonesia's wealth of mineral resources, a clear mismatch remains between current battery production capacity and projected national demand. For example, assuming the average 4W electric SUV requires a 39 kWh battery⁴, Indonesia would need a.

How much energy does Indonesia use?

60 million TOE, equivalent to 36.74% of the country's final energy consumption. LinkDecree of the Minister of Energy and Mineral Resources of the Republic of Indonesia Number 24.K/TL.01/MEM.L/2025. LinkGovernment o Indo.

What is Indonesia's potential for green hydrogen production by 2060?

Developing technology ecosystem. Indonesia has outlined the map potential of 185 GWh of renewable energy for green hydrogen production by 2060 (MEMR). This represents just less than 5% of Indonesia's potential for

renewable energy. At least USD 90.1 billion is required to use 185 GWh of renewable energy for green hydrogen generation by 2060.

Are the benefits of Indonesia's Industrial Strategy equitably distributed?

term benefits of Indonesia's industrial strategy may not be equitably distributed. In summary, the current policy landscape reveals a strong foundation of incentives and industrial ambition, but one that requires more integrated governance, clear strategic direction—especially for BESS—and a recalibration to ensure that n

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