

Vietnam coal-to-electricity energy storage products





Overview

Do energy storage systems exist in Vietnam's power system today?

This paper provides an up-to-date review of these storage technologies and energy storage systems in Vietnam's power system today. Finally, there are a few perspectives on the opportunities and challenges of these storage systems in Vietnam power systems today.

Is coal a viable source of energy in Vietnam?

Vietnam's coal power industry remains a dominant source of energy, accounting for nearly half of the country's electricity generation. The rapid economic growth and industrialisation over the past two decades have led to a significant increase in energy demand, making coal a reliable and affordable option to meet these needs.

What is a coal power company in Vietnam?

These domestic coal power companies are central to Vietnam's energy infrastructure, providing a substantial portion of the country's electricity needs. Vietnam Electricity (EVN) is the state-owned utility and the largest player in the country's coal power sector.

What are the main sources of electricity in Vietnam?

Coal-fired and hydropower plants are the two largest sources of electricity in Vietnam. Other energy sources providing electricity currently account for a small share, but their growth rates are increasing rapidly in line with the needs of the economy and the need to diversify the energy sector. 5.2. Fossil Energy.

Why do we need battery energy storage systems in Vietnam?

At the same time, the demand for battery energy storage systems (BESSs) is accelerating, driven by Vietnam's abundant renewable energy (RE) potential, particularly in solar and wind power. However, owing to the intermittent



nature of these energy sources, storage solutions are required to ensure continuous electricity supply.

How much coal is used in Vietnam?

According to the Vietnam Energy Statistics Report for 2023, approximately 63% of the total amount of coal consumed in the electricity sector fuels coal-fired power plants, while almost 35% is utilized in industrial production (including iron and steel production, cement, mining, paper production, and the chemical industry) .



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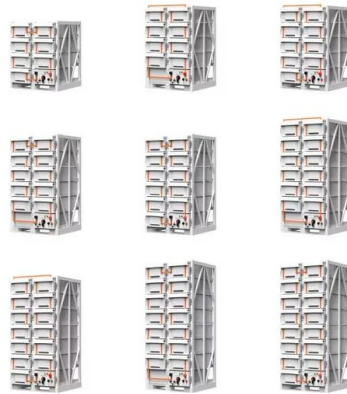
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Vietnam's electricity generation mix 1990-2021. Source: BP (2022).

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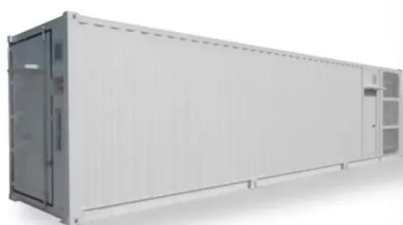
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