

Can battery energy storage be integrated into Vietnam's power grid?

Contact: Vietnam's REA and GEAPP hosted a workshop on integrating battery energy storage systems into Vietnam's power grid, where they also launched a report on battery storage co-authored by the Institute of Energy and GEAPP.

Why should Vietnam invest in energy storage?

Vietnam's innovations and recent developments in the energy sector emerge as an inspiration for the global drive towards a cleaner and more sustainable future. The nation's strategic approach to energy storage exemplifies the significance of collaboration, blended financing, and aligning initiatives with national plans.

Is gravity a good investment for energy storage?

Grid-scale storage, will be essential to manage the impact on the power grid and handle the hourly and seasonal variations in renewable electricity output." Gravitricity is tapping into growing global demand for energy storage, which analysts at BloombergNEF estimated in 2021 will attract more than \$262 billion of investment up to 2030.

How is Vietnam advancing its energy infrastructure towards an energy-resilient future?

Vietnam is advancing its energy infrastructure towards a greener, more just, and energy-efficient future, simultaneously providing a valuable model inspiring the global drive towards an energy-resilient future.

Is energy storage system a good investment?

According to international energy experts, when RE electricity rate reaches 15% up, the investment in energy storage system is economically efficient. So, in many countries over the world, the energy storage systems have become the necessary technologies in demand side management, RE and smart grid development.

What are the different types of energy storage systems?

The need and role of energy storage systems: Energy storage technologies are divided into 4 main groups: (i) Thermal; (ii) Mechanical; (iii) Electrochemical; (iv) Electrical. According to international energy experts, when RE electricity rate reaches 15% up, the investment in energy storage system is economically efficient.

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Battery Energy Storage Systems (BESS) play a pivotal role in addressing these challenges by minimising the

intermittency of renewables, enhancing grid flexibility, and ensuring reliable power supply. In a significant development, Vietnam Electricity (EVN) has secured approval for its first pilot BESS project with a capacity of 50 MW/50MWh.

18 ????· To reduce greenhouse gas emissions by prioritizing the development of renewable energy and storage systems, it is necessary to develop flexible power plants that can quickly change capacity to help balance the power supply. By applying this way from now until 2050, Vietnam will likely save about 26 billion euros per year.

Integrating BESS into Vietnam's energy infrastructure demonstrates promising prospects for facilitating the nation's energy transition. By storing excess energy during periods of low demand and releasing it during peak times, BESS can enhance grid flexibility, reduce emissions, and lower electricity costs.

Recently, Vietnam's National Power Transmission Corporation (EVNNPT) shared that it is looking into Battery Energy Storage Systems (BESS) among several technology options as an appropriate solution. This technology can enhance power system flexibility and enable high levels of renewable energy integration.

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Currently, GEAPP is testing a battery energy storage system that integrates with the national grid for the first time, in collaboration with the Asian Development Bank, Rocky Mountain Institute, and the Vietnam Energy Institute (VEI).

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Web: <https://www.gennergyps.co.za>