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Thailand 100MW energy storage project



Overview

The Electricity Generating Authority of Thailand (Egat) plans to convert three hydropower dams into massive energy storage systems with a 90-billion-baht investment. Does Thailand need a battery energy storage system?

Thailand may lack the Battery Energy Storage Systems (BESS) necessary to navigate supply and demand challenges. The 2024 PDP draft included 10,000 MW of BESS, but this may see the country struggle to fulfil carbon neutrality and Net Zero commitments over the coming decades.

How many mw can a solar generator store in Thailand?

Their total combined storage capacity was 994 MW. Interestingly, this allowed generators to sign semi-firm power purchase agreements (PPAs) with the Electricity Generating Authority of Thailand (EGAT) with minimum availability guarantees. Many solar projects in Thailand have non-firm PPAs in place due to a lack of storage on site.

How many solar projects are allowed in Thailand?

New projects are allowed for the development of ground-mounted solar, including those equipped with energy storage systems (2,632 MW), wind power (1,000 MW), biogas (335 MW), and industrial waste-to-energy projects (30 MW). Thailand's Energy Regulatory Commission (ERC) has selected 175 companies for the first phase of its renewables scheme.

How much energy will Thailand produce in 2037?

However, under the latest edition of Thailand's national Power Development Plan, published last month, the Ministry of Energy plans to procure 77.4GW of new energy capacity to meet growing demand. The peak is projected to grow to 56.1GW by 2037, while renewable energy's share of the electricity generation mix will increase to 51%.

What is Thailand's 2024 Power Development Plan?

Thailand's 2024 power development plan (PDP) aims to increase renewable energy use, highlighting the importance of BESS alongside solar panels and wind turbines. This could create new business opportunities for entrepreneurs if prices decrease or new technologies emerge for stationary batteries.

What is the future of energy storage in Asia?

The peak is projected to grow to 56.1GW by 2037, while renewable energy's share of the electricity generation mix will increase to 51%. Energy-Storage.news' publisher Solar Media will host the 2nd Energy Storage Summit Asia next week, 9-10 July 2024 in Singapore.

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