

ContainerPower Energy Solutions

Thailand s new energy storage company



Overview

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The Electricity Generating Authority of Thailand (Egat) plans to convert three hydropower dams into massive energy storage systems with a 90-billion-baht investment. This effort aims to stabilize the clean energy supply, supplementing solar and wind power, which are subject to weather fluctuations.

Thailand intends to source nearly 35,000 MW of new electricity from renewables as it looks to reach carbon neutrality and net zero commitments. However, the deployment of Battery Energy Storage Systems across the country remains limited. There are plans to increase storage capacity, but it may not.

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while you're sipping coconut water on a Phuket beach, Thailand's engineers are busy building floating solar islands and next-gen batteries that could power entire cities. This tropical paradise isn't just about pad thai and full

moon parties anymore – it's becoming Southeast Asia's new energy.

Although private power producers generate more than half of Thailand's electricity, the wholesale market and grid operations are dominated by three state-owned utilities. As such, government procurement plays a key role in the deployment of new infrastructure. Thailand's grid remains heavily. Is energy storage a viable business model in Thailand?

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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.

Why is battery storage a problem in Thailand?

This is partly due to a lack of clarity on how battery storage fits into existing electricity infrastructure. In 2022, the Thai government approved 24 BESS projects, all of which were located alongside solar operations. Their total combined storage capacity was 994 MW.

What kind of energy does Thailand use?

Thailand heavily relies on fossil fuels, with natural gas and coal accounting for the majority of its power generation. Renewable energy, including biofuels and waste-to-energy, represents about 10% of the mix, with solar and wind at 4%.

Could a sodium-ion battery be a new business opportunity in Thailand?

The Federation of Thai Industries' Renewable Energy Industry Club sees

potential in sodium-ion battery (SIB) production as an alternative to lithium-ion batteries. SIBs, made from rock salt, could offer a new business opportunity given Thailand's abundant rock salt reserves.

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