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Thailand Hybrid Energy Storage Power Generation 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. What is a hybrid energy-based power generation system?

A hybrid renewable energy-based power generation system, consisting of solar PV, wind turbine generators, diesel generator (DiG), bi-directional grid-tied charging inverter (CONV) and BESS, was simulated using HOMER Pro®.

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 a battery energy storage system?

Battery energy storage systems (BESS) are essential for buildings and renewable power generation facilities to ensure uninterrupted electricity supply. Renewable sources like solar and wind power are intermittent, and influenced by weather patterns. BESS mitigates this issue by storing electricity for future use.

What is pumped storage hydropower (PSH)?

This effort aims to stabilize the clean energy supply, supplementing solar and wind power, which are subject to weather fluctuations. Egat's feasibility study focuses on implementing pumped storage hydropower (PSH) technology at the dams. Deputy Governor Tawatchai Sumranwanich explains that PSH involves two reservoirs at different elevations.

How much does power generation cost in India?

The power generation cost is relatively low, around two baht per kilowatt-hour. The three targeted dams are the Chulabhorn dam in Chaiyaphum with an 801

MW capacity, the Vajiralongkorn dam in Kanchanaburi with 891 MW, and the Kathun dam in Nakhon Si Thammarat with 780 MW. They are expected to commence operations in 2034, 2036, and 2037.

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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