

PDEOZE PowerContainer

Thailand Electricity Company s new energy storage



Overview

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 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%.

Does Thailand rely on fossil fuels for electricity?

According to Ministry of Energy electricity statistics published in February, Thailand is heavily reliant on fossil fuels for power generation, with about 57% coming from natural gas and domestic coal about 15%.

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.

How much electricity will Thailand produce in 2024?

These are set to make up 51 percent of the country's total electricity production, up from 36 percent which was called for in the 2018 PDP. The 2024 PDP draft provided a more detailed breakdown of how Thailand will reach this goal. During the plan's lifespan, 47,251 MW of new electricity will be sourced with 34,851 MW coming from renewables.

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With ongoing deployment of variable renewable energy technologies, such as solar and wind power, the opportunities for energy storage projects will increase. Long-term ...

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Without smart energy storage, utilities must either curtail renewables or risk overloading transformers. Advanced battery management systems (BMS) with predictive load balancing ...

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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 ...

Energy storage is in its infancy in Thailand, and new business models are already emerging. As the regulatory framework adapts to accommodate new players in the market, it ...

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