

# **Bangkok Energy Storage Power Generation**





## Overview

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Can Thailand accelerate deployment of battery-based energy storage?

To overcome variability of renewables, Thailand can accelerate deployment of battery-based energy storage. Solar paired with batteries already has a lower LCOE than new thermal power plants.

How can Thailand manage its energy transition?

Thailand can manage its energy transition and solve the energy trilemma of sustainability, security and affordability by accelerating renewable power additions and grid capacity expansion, while limiting new thermal power capacity addition.

What is the cheapest source of bulk electricity generation in Thailand?

Utility-scale solar is the cheapest source of bulk electricity generation in Thailand. The LCOE for solar in Thailand has declined sharply since 2019, thanks to falling solar equipment prices and increased deployment in the country.

Should Thailand add 32GW of new solar capacity?

Ember calls for Thailand to add 32GW of new capacity to its existing solar deployment targets. Image: Sungrow. Adding 32GW of new solar capacity, plus 15GWh of batteries, to Thailand's power generation deployment targets could cut power generation costs by as much as US\$1.8 billion.



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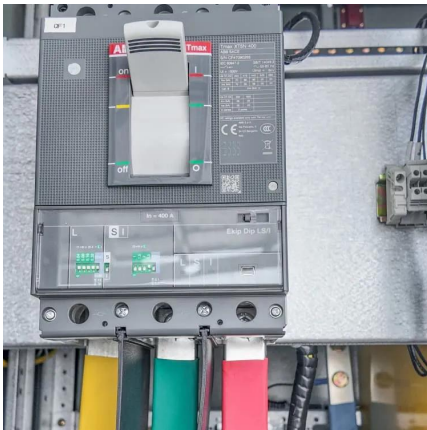
Thailand Renewable Energy Expansion Is Growing, But Still Lag In 2022, power generation from renewables in Thailand totaled 21,860 GWh, while natural gas remained dominant at 114,640 GWh. This shows ...





## Thailand: Turning Point for a Net-Zero Power Grid

This includes the use of energy storage systems and controllable load assets such as virtual power plants, smart electric vehicle chargers and demand response, which can ...



## Thailand's emerging energy storage sector

Heat storage: Thailand's current thermal power plants typically supply heat (along with power) to purchasers in neighbouring industrial estates. As the energy transition results in ...

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