
Thailand's 2025 solar energy storage plan

Why is Thailand relying on more than just solar?

To close this gap, Thailand is relying on more than just solar. The government's Alternative Energy Development Plan (AEDP) promotes energy diversification, including storage systems and emerging technologies like green hydrogen. These strategies are designed to not only boost generation capacity but also ensure energy stability and resilience.

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.

Will solar power increase Thailand's power generation capacity in 2050?

Under this scenario, Thailand's power generation capacity grows nearly eightfold from 2024 to 2050. Solar provides two-thirds of the added capacity due to its advantageous economics. Solar alone would provide more than two-thirds of Thailand's annual electricity generation in 2050 compared to only 16% for gas under the base-case scenario.

What will Thailand's future look like if it adds renewables capacity?

As Thailand plans to add significant amount of renewables capacity in the next 13 years, the government would consider more flexible gas power contract. As a result, thermal power plants will likely see their operational hours cut further. This will lead to costlier coal and gas power.

Clean energy is no longer our future, it's already here. Thailand must act fast or risk falling further behind. Solar and wind are booming across the world, yet Thailand continues to ...

Thailand's new policy unlocks rooftop solar for businesses - cutting costs, boosting energy independence ...

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Solar energy is on the rise in Thailand and is highlighted as a key component of the country's renewable energy plan.

Discover how the Thailand energy sector is shifting toward renewables in 2025 through bold policies, innovation, and global investment.

The revised Power Development Plan (PDP 2024) is Thailand's strategic blueprint to navigate its energy future toward a low ...

Thailand renewable energy expansion is gaining speed with major solar investments, but outdated grids and policies pose key ...

Thailand's decarbonisation commitments in its Nationally Determined Contributions (NDCs) under the Paris Agreement have triggered new rounds of renewable ...

In 2025, Thailand's solar and energy storage market enters a new phase of accelerated growth. As one of the earliest countries in Southeast Asia to push renewable ...

The intermittent nature of solar and wind power requires efficient energy storage solutions. The government is investing in research and development (R& D) to improve energy ...

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