

SolarTech Power Solutions

ASEAN Power Station Energy Storage Equipment Retrofit Plan



Overview

How can the ASEAN Power Grid facilitate investments in renewables?

To facilitate investments in renewables in ASEAN, it is critical to overcoming the barriers in renewable energy legislation, energy governance, and business environment. 28 Cooperation through the ASEAN Power Grid brings economic benefits to the region as a whole, and thus improves the affordability for energy transition.

What is the integrated power system capacity expansion model for ASEAN?

Here, we present an integrated power system capacity expansion model for ASEAN over 2018–2050. The results identify different pathways by strategically pursuing renewable energy, carbon capture and sequestration, and cross-border transmission.

Is ASEAN ready for the energy transition?

Ensuring ASEAN is ready for the energy transition will require the region and its member states to scale up current plans for grid expansion and refurbishment to meet projected electricity generation needs, as well as a fundamental rethinking of energy market design to enhance grid flexibility and reliability.

What should ASEAN do about smart grid deployment?

ASEAN should set clear, measurable regional targets for smart grid deployment, cross-border interconnection capacity, and grid flexibility enhancements by 2030 and 2040. These targets should be backed by national implementation plans that align with long-term energy and climate commitments.

How is ASEAN viewed as a power system?

Each ASEAN country is viewed as a power system with country-specific electricity demand and emission targets required by its NDC.

Does ASEAN have an Energy Transition Index?

In 2025, most ASEAN countries had achieved an energy transition index higher than the average, reflecting the region's efforts towards energy transition. One of the critical aspects of the energy transition is ensuring that the necessary infrastructure, technologies, and policies are in place to accelerate the integration of renewable energy (RE).

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