

ASEAN solar Energy Storage Power Generation





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.

Are solar PV and wind power a viable energy transition in ASEAN?

However, the development of renewables is still at an early stage in ASEAN, especially for solar PV and wind power. Most scenario studies suggest a high share of and even 100% renewables for energy transition in ASEAN. Solar PV is key due to its abundance across the region. Variable renewables and energy storage also play a central role.

How much electricity does ASEAN need?

Electricity demand in ASEAN as a whole per year is currently around 1,100 TWh. This amount would increase fivefold under the 1.5°C scenario. In practice, closing the 10% gap in the share of renewable energy needs significant power storage capacity and expansion of transmission lines.

Should energy storage be developed in the ASEAN region?

Energy storage should be developed to address the intermittency of variable renewable energy. As one alternative, the ASEAN region has enormous potential for pumped storage hydropower (ACE, 2022b).



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