

ASEAN solar Energy Storage Field Development





Overview

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).

Should ASEAN deploy large-scale solar photovoltaic (PV) with battery storage?

And as solar is abundant in all AMSs, it is incumbent upon ASEAN to deploy large-scale solar photovoltaic (PV) with battery storage, which this study accordingly thoroughly analyzes, as previously mentioned.

Are there support mechanisms for solar PV development in ASEAN countries?

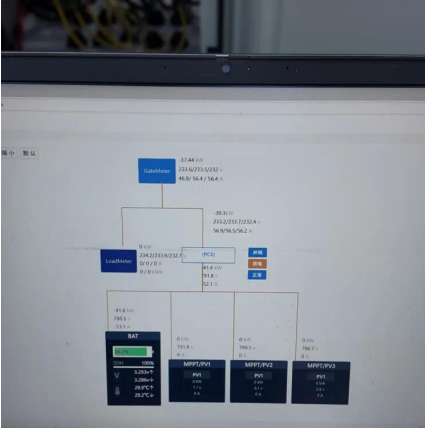
ASEAN countries are expected to have substantial growth in solar PV deployment. The PV market in the ASEAN region has not evolved into a solid, self-sustaining PV market. Hence there is a necessity for policies and support mechanisms in ASEAN countries. Fig. 1. Different types of support mechanisms for solar PV development. 3.1.

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.



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