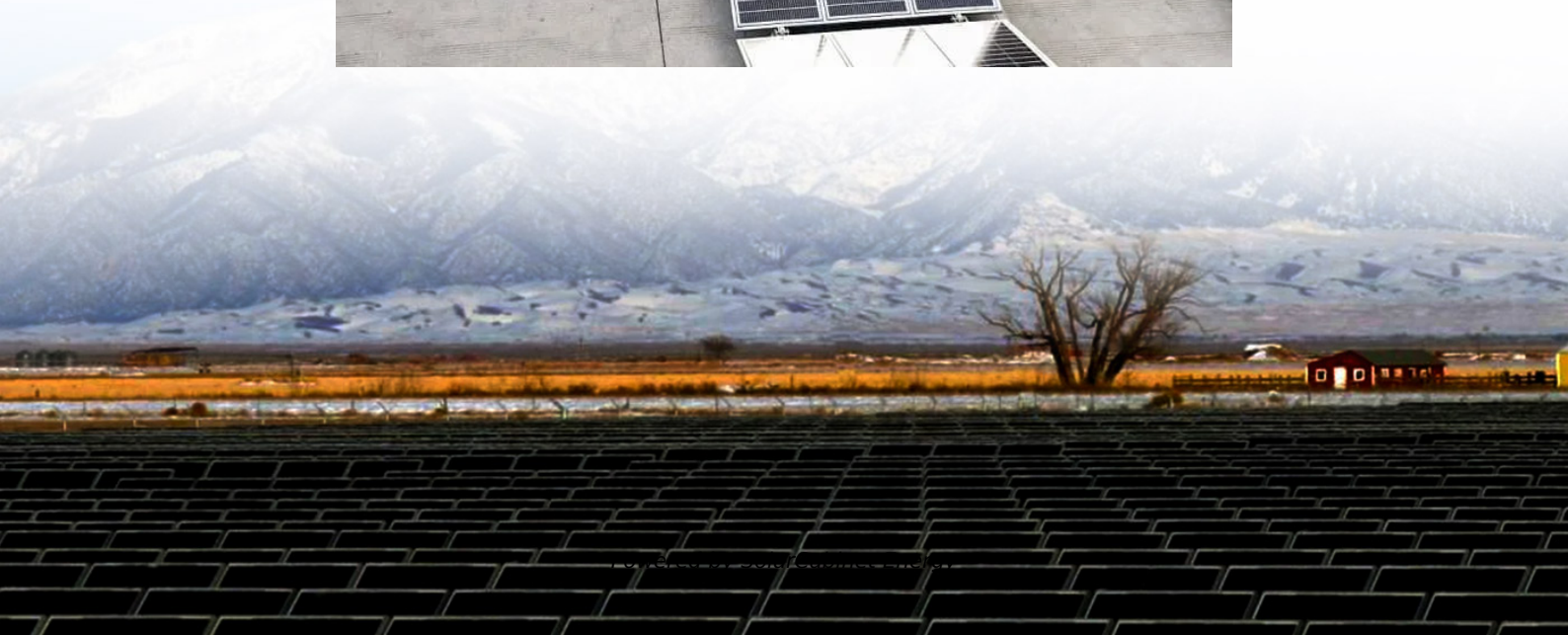


# **ASEAN Photovoltaic Energy Storage System Project**





## Overview

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Huawei and Keppel have signed a Memorandum of Understanding (MoU) to develop solar and battery energy storage system (BESS) projects for the data center and other high-energy-consuming sectors, initially focusing on the ASEAN region. Will solar and wind help ASEAN develop a charging infrastructure?

Solar and wind may lead to new opportunities to further equip ASEAN for the development of such charging infrastructure. In addition to being a cleaner option, solar and wind are getting cheaper worldwide.

Can hybrid PV systems reduce reliance on fossil fuels in ASEAN?

We have discussed the current and potential solar energy installations and outputs of each country in the ASEAN region. The deployment of hybrid PV systems, such as floating PV installations, to reduce reliance on fossil fuels was discussed. The article further explored the critical maintenance protocols and predictive measures.

How has solar power impacted ASEAN?

Combined solar and wind generation in ASEAN grew from 4.2 TWh to 50 TWh between 2015 and 2022. This accounted for 14% (46 TWh) of total electricity demand growth seen in the same period. The introduction of Viet Nam's Feed-in Tariff policy in 2017 was the primary driver behind this growth.

What is the ASEAN Plan of action for energy cooperation (Apaec)?

The ASEAN Plan of Action for Energy Cooperation (APAEC) Targets Scenario projects capacity addition from renewables by 2040 will be 185 GW, with solar contributing to an additional 45 GW, and wind will reach approximately 9 GW capacity. Both solar and wind are expected to account for 15% of power generation capacity by 2040.

What will ASEAN's energy demand look like in the future?



Looking ahead, the ASEAN Centre for Energy (ACE) estimates that electricity generation requirements will grow at an average rate of 5.8% per year. To meet growing demand, additions in renewable capacity are expected.



## ASEAN Photovoltaic Energy Storage System Project

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