

ContainerPower Energy Solutions

ASEAN installs solar panels



Overview

South East Asian countries are blessed with abundant solar energy potential. Yet, the solar photovoltaic potential remains underutilized. There are certain roadblocks in the progress of solar PV deployment.

Is ASEAN accelerating the solar energy transition?

Monika Merdekawati, research analyst for sustainable renewable energy development, ASEAN Centre for Energy (ACE) during the ASEAN Solar Summit 2023 explained that while solar energy adoption in ASEAN is on the rise, the pace of progress is insufficient to accelerate the energy transition.

Can ASEAN develop solar PV manufacturing capability?

Fabby Tumiwa, the Executive Director of Institute for Essential Services Reform and the Chairman of The Indonesia Solar Energy Association said that ASEAN must establish strong cooperation in developing solar PV manufacturing capability.

How much energy does ASEAN need?

Further, ASEAN's energy demand is expected to grow annually by 3 percent until 2030. Member countries aim to meet 35 percent of their energy capacity through renewables by 2025. Presently, ASEAN boasts 28 GW of large utility-scale solar and wind power, contributing 9 percent to the region's total electricity capacity.

How much solar energy do ASEAN countries receive a year?

ASEAN countries receive abundant solar energy throughout the year. Global Horizontal Irradiation (GHI) value varies between 1400 kWh/m²/year and 1900 kWh/m²/year. Over the past decade, remarkable growth in solar PV installations has been observed in the South East Asia region.

How much solar power does the ASEAN region have in 2022?

The ASEAN region has 27 GW of solar and 6.8 GW of wind installed capacity in 2022, representing less than 1% of the approximately 30,523 GW of solar and

1,383 GW of wind theoretical potential estimated by the National Renewable Energy Laboratory (NREL).

Are solar and wind the future of ASEAN?

Solar and wind are among the most promising technologies capable of creating new markets, fostering job creations, enabling a just energy transition and ensuring a resilient, energy-secure ASEAN. Strong policy support and government commitments are critical to driving robust action and progress in renewable deployment.

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