

SolarTech Power Solutions

Southeast Asia Solar PV Modules



Overview

As of the first quarter of 2024, the total capacity of photovoltaic modules in Southeast Asia reached 93.2GW, with cell capacity at 69.6GW, wafer capacity at 34.2GW, and polysilicon capacity at 82,000 tons. Does Sinovoltaics have a supply chain map in Southeast Asia?

Hong Kong-based compliance and quality assurance company Sinovoltaics has published a new report mapping all solar module factories in Southeast Asia. "The Sinovoltaics Supply Chain Map Southeast Asia for Q2 2024 includes several notable changes since our Q1 report," said analysts at Sinovoltaics in a statement.

Why is PV module manufacturing under pressure in Southeast Asia?

Despite strong ambitions, PV module manufacturing in Southeast Asia is currently under pressure. Operational capacities have been significantly reduced or temporarily halted, primarily due to U.S. import tariffs. Once a strategic workaround for Chinese manufacturers aiming to access Western markets, Southeast Asia now faces growing constraints.

Is Southeast Asia an exporter of solar PV products?

Southeast Asia is largely an exporter of solar PV products today. Its nameplate capacity of 70 GW dwarfs regional demand of ~3 GW p.a. There are three broad archetypes of producer countries in the region:

Who makes solar panels in Southeast Asia?

According to manufacturers' present in Southeast Asia today, most manufacturing capacity in the region was established by manufacturers from the People's Republic of China. Southeast Asia is largely an exporter of solar PV products today.

What is the Southeast Asia Solar supply chain map?

This edition of the Southeast Asia Solar Supply Chain Map provides a detailed

snapshot of current realities and future ambitions, as the region navigates complex trade, investment, and production challenges.

What is a solar PV module manufacturing value chain?

The solar PV module manufacturing value chain comprises four main steps: polysilicon production, wafer production, cell manufacturing, and module assembly. Southeast Asia is a solar PV manufacturing hub with 2 per cent – 3 per cent of the world's polysilicon and wafer capacity and 9 per cent–10 per cent of the world's cells and modules capacity.

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Southeast Asia's Solar Industry Development ...

Feb 28, 2025 · Southeast Asia has solidified its position as a global hub for solar PV production. The International Energy Agency (IEA) notes that the region ...

Sinovoltaics Predicts 101 GW Southeast Asia Solar Module ...

Jun 30, 2025 · In the 1st edition of its Southeast Asia Solar Supply Chain Map for 2025, Sinovoltaics expects the nameplate solar PV module manufacturing capacity of Southeast ...

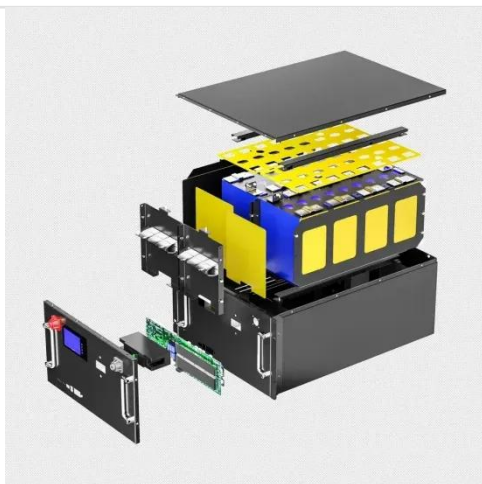


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Progress in Diversifying the Global Solar PV Supply Chain

As of 2023, Southeast Asian countries were active across the whole solar PV supply chain with rather significant manufacturing capacity in each segment, and especially in cells and modules ...

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