

Indonesian railway station uses ultra-large capacity photovoltaic shipping containers





Overview

What is Indonesia's solar PV potential?

All in all, Indonesia's solar PV potential is vast and is expected to become a dominant force in the nation's energy landscape by 2060 with, expectedly, over 60% of the total energy generation.

Why are solar power plants growing in Indonesia?

Technological advancements in solar energy are also propelling the growth of solar power plants in Indonesia. The introduction of advanced photovoltaic (PV) technologies, energy storage solutions, and smart grid systems has enhanced efficiency and reliability.

Are floating solar PV systems a viable option in Indonesia?

Floating solar PV systems present a promising avenue, leveraged by Indonesia's extensive maritime territory, and as laid out in an analysis by the National Research and Innovation Agency of Indonesia (BRIN) in 2022.

How big is Indonesia's solar power potential?

In terms of generation potential, Indonesia can achieve 4,705 – 26,791 TWh/year, by taking up 4.34% to 24.43% of the total land mass (depending on the scenario). The results also show that Indonesia's utility-scale solar PV potential is well above (16 to 95 times larger) the current national official estimate, that is 207 GW.



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