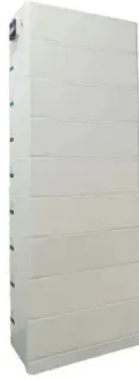




Pakistan s own solar power generation



Overview

As electricity prices doubled from 2021 to 2024, and Chinese solar panel manufacturers with manufacturing overcapacity cut prices, Pakistanis have taken to installing solar panels around the country, importing \$1.4 billion of panels from China in the first half of 2025. As of 2025, solar power was the largest electricity source in Pakistan, accounting for more than 25% of total production in 2025. According to recent data from the National Electric Power Regulatory Authority (NEPRA), solar electricity generation is expected to reach 4,447 GWh by 2030. When rooftop solar was first incentivised in Pakistan in 2015, the policy objective was clear: to enable households to generate their own electricity, reduce reliance on the grid, and become more self-sufficient in meeting their energy needs. It was not — and should never have been — a mechanism for energy security. Pakistan has witnessed one of the most rapid and unanticipated transitions to clean energy, driven largely by homes and businesses installing rooftop solar panels.



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