



Solar panels power generation in Pakistan





Overview

As electricity prices doubled from 2021 to 2024, and Chinese solar panel manufacturers with manufacturing overcapacity cut prices, [4] 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. [2] In 2024, solar power installations in the country grew at a high rate with solar installations providing an estimated one-third of the country's entire generating capacity. Pakistan has witnessed one of the most rapid and unanticipated transitions to clean energy, driven largely by homes and businesses installing rooftop solar panels. To fill critical data gaps, TransitionZero and PRIED combined. The country imported 22 GW of solar panels in just 2024. While the country's installed capacity is still relatively low, this import level signals significant solar growth in the next few years. This growth is driven by various factors, including favourable government policies, rising electricity prices. Pakistan's solar power boom in 2025 marks a turning point for the nation's energy independence. According to the latest NEPRA report, net metering electricity generation surged by 28% month-on-month in September 2025, highlighting how homes and businesses are rapidly adopting rooftop solar systems.



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How Pakistan pulled off one of the fastest solar revolutions in the

Pakistan, home to more than 240 million people, is experiencing one of the most rapid solar revolutions on the planet, even as it grapples with poverty and economic instability. The country ...

Pakistan taps into solar power at an 'unprecedented' rate : Goats and

Solar panels can be seen on the rooftops of houses in Islamabad. Pakistan is in the midst of a solar boom that has rapidly turned the country into one of the world's largest new adopters ...



[Pakistan's Energy Mix 2025: Solar Power Generation to Double](#)

Explore the future of Pakistan's energy mix in 2025. A new NEPRA report reveals solar power production is set to double, marking a major shift in renewable energy.

[The Surge Of Solar Energy In Pakistan](#)

From June 2023 to December 2024, the on-grid net-metered solar capacity increased from 1.3 GW to 4.1 GW. To further improve the affordability of solar technology, the government has ...



[Pakistan's Solar Revolution Is Bringing Power to the People](#)

Solar power is booming in Pakistan. Its share of electricity generation more than tripled in just three years, climbing from four percent in 2021 to 14 percent in 2024 -- one of the highest ...



Pakistan Solar Power Boom: Net Metering Units Rise 28% in One ...

Pakistan's solar power boom in 2025 marks a turning point for the nation's energy independence. According to the latest NEPRA report, net metering electricity generation surged by ...



Solar power in Pakistan

Solar power became part of the energy mix in 2013, following government policies aimed at supporting renewable energy development. The country now has seven large-scale solar projects that ...

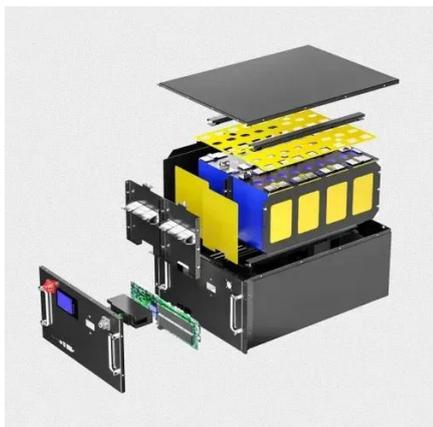


[Shedding light on Pakistan's distributed](#)



solar revolution

Pakistan has been a stand-out country when it comes to growth in solar power, boasting an increase in electricity generation by over three times the global average in the first half of 2025.



The Perfect Storm Fueling Pakistan's Solar Boom

Pakistan has witnessed one of the most rapid and unanticipated transitions to clean energy, driven largely by homes and businesses installing rooftop solar panels.

Pakistan's solar surge lifts it into rarefied 25% club , Reuters

That combination of rapidly rising capacity and generation has propelled solar power from Pakistan's fifth-largest electricity source in 2023 to its largest in 2025.





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