



# Pakistan solar energy for businesses

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The Benefits of Solar Energy for Businesses in Pakistan: Lowering Costs and Boosting Sustainability

Benefits of Solar Energy for Pakistan's Small and Medium Enterprises (SMEs)

illuminem summarizes for you the essential news of the day. Read the full piece on World Economic Forum or enjoy below:

? Driving the news: Pakistan is experiencing a solar power boom, driven by falling solar panel costs and skyrocketing electricity tariffs, with solar adoption reaching record levels across industrial, residential, and agricultural sectors• The country imported 13GW of Chinese solar modules in the first half of 2024, forecasted to reach 22GW by year-end, making it the world's sixth-largest solar market• However, this rapid shift toward renewables highlights risks for the national grid, which faces declining demand and mounting financial pressures

? The context: Pakistan's electricity grid struggles to meet demand, with over 40 million people still lacking access to electricity• High costs and unreliable grid performance have led 40-50% of industries to adopt captive power solutions• Global climate policies, like the EU's Carbon Border Adjustment Mechanism, and competitive pressures from export markets further incentivize clean energy adoption in Pakistan

? Why it matters for the planet: Pakistan's transition underscores the dual opportunities and challenges of renewable integration in emerging markets• Solar power reduces carbon emissions and offers energy security but exposes structural weaknesses in traditional grid systems• The country's experience highlights the need for grid modernization to manage distributed renewables effectively and avoid economic disruptions

? What's next: Pakistan must modernize its grid with AI-driven tools, battery storage, and digital metering while fostering a competitive energy market• Proactive policies, such as credit facilities for underserved communities and incentives for battery use, are essential to sustain the transition• Global grid operators can learn from Pakistan's experience to avoid similar pitfalls in other markets

? One quote: "Can Pakistan and other emerging markets realistically transition entirely to renewable energy without jeopardizing the stability of their national grids?" — World Economic Forum analysis

? One stat: Solar imports in Pakistan reached 13GW in the first half of 2024, projected to hit 22GW by year-end, making it the sixth-largest solar market globally



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