



MODERNIZATION SOLAR

# Islamabad Grid Energy Storage Policy





## Overview

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ISLAMABAD: The government is advancing plans to deploy large, utility-scale Battery Energy Storage Systems (BESS) to stabilise the national grid, which is increasingly challenged by frequency fluctuations due to the rapid addition of intermittent renewable energy sources. Does Pakistan need a battery storage system?

imported capacity is currently installed across the country. The current high upfront cost of battery storage systems in Pakistan is likely to prevent all rooftop solar and captive solar consumers from adopting battery configurations. Additionally, consumers may require.

Why is battery storage adoption accelerating in Pakistan?

..... 65 Key Findings Battery storage adoption is accelerating in Pakistan's residential, commercial, and industrial sectors, driven by high electricity costs and declining solar component prices. Consumers are combining solar with Battery Energy Storage Systems (BESS) to reduce.

How much does a solar & battery system cost in Pakistan?

Source: Author analysis based on simulations run on 'PV Syst'. A typical 10kW solar + BESS domestic installation in Pakistan is observed to have an LCOE between PKR14.5/kWh and PKR25/kWh or USD0.052/kWh, depending on the quantity of BESS installed. Key Observations Solar + battery systems have a lower cost per unit across all.

Why are consumers combining solar and battery energy storage systems?

by high electricity costs and declining solar component prices. Consumers are combining solar with Battery Energy Storage Systems (BESS) to reduce grid dependence, lower energy bills, and improve reliability.



## Islamabad Grid Energy Storage Policy



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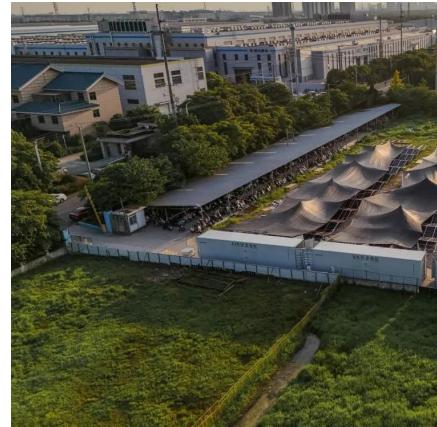
## energy storage for resilience islamabad

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