

## ContainerPower Energy Solutions

# Wind and solar energy storage projects in Pakistan



## Overview

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Developer Oracle Power and China Electric Power Equipment and Technology (CET) are looking to develop and build a 1.3GW project combining solar, wind and battery energy storage system (BESS) technology in Pakistan. Should solar and wind power be allowed in Pakistan?

Around 3 years ago the general view in the Pakistan electricity sector was that solar and wind power (together termed "variable renewable energy," or VRE) should not be allowed to go above 5% of Pakistan's installed capacity.

Does Pakistan have a good wind resource?

Of course Pakistanis already know this due to the long, hot summers, which until recently were accompanied by regular power cuts due to insufficient supply. Pakistan also has some excellent wind resource potential in the south and west of the country, as highlighted by the Global Wind Atlas.

Why are low-price battery energy storage systems coming to Pakistan?

The combination of a glut of lithium, a key battery material, and overcapacity of lower-tier China-made batteries has created a flood of cut-price battery energy storage systems for lower-income countries such as Pakistan.

Does Pakistan have solar power?

Pakistan has huge solar resource potential: According to a recent World Bank study, utilizing just 0.071 percent of the country's area for solar PV would meet Pakistan's current electricity demand!.

Are battery storage systems too expensive in Pakistan?

The battery storage systems are still too expensive to be adopted as widely as solar has been in Pakistan in the near future. But distributors say prices are falling rapidly and demand continues to grow.

How much solar power will Pakistan need by 2030?

This will require Pakistan to install around 24,000 Megawatts of solar and wind by 2030, up from just over 1,500 Megawatts today. This represents around 150-200 MW per month!

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