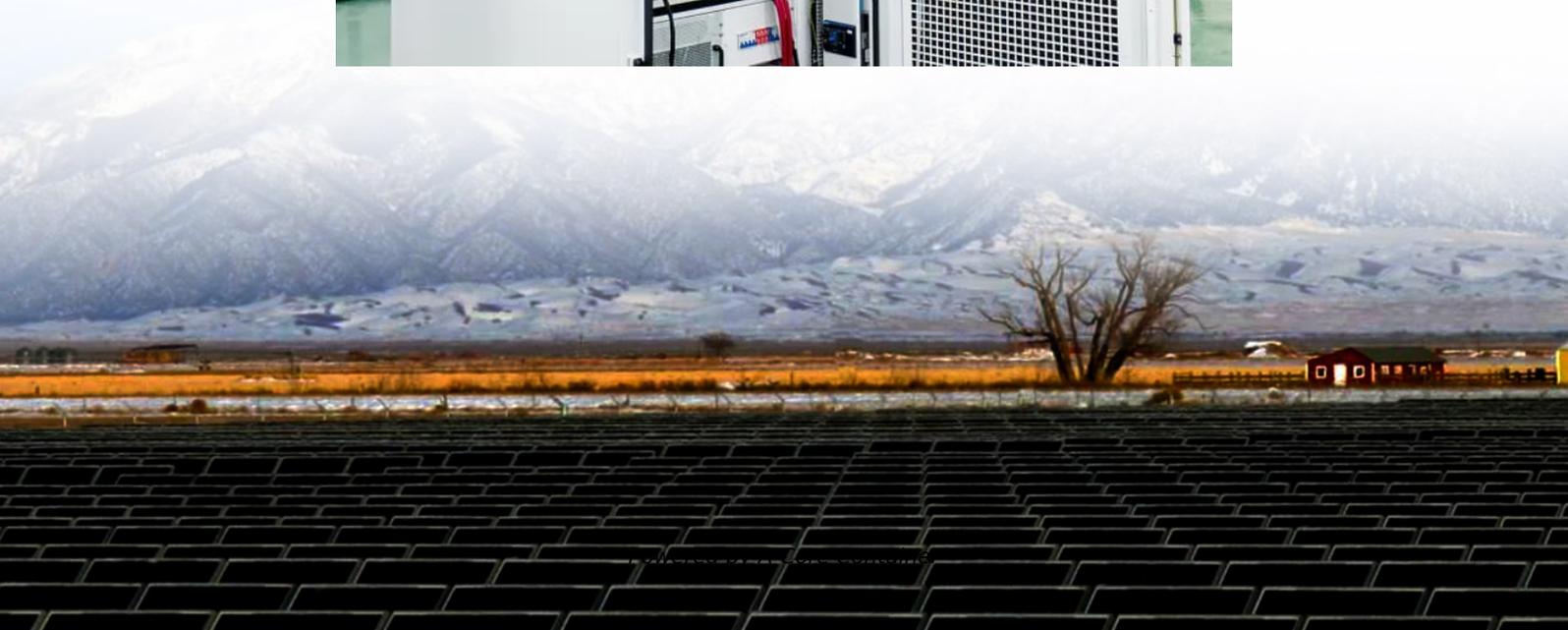


A-Core Container

Türkiye s energy storage solar power generation



Overview

How has solar capacity grown in Türkiye?

This followed a huge rise in solar capacity in just two years (+8.9 GW, +82%), up from 10.9 GW installed capacity in 2022. Previously, the largest annual solar capacity growth in Türkiye was in 2017 and 2018, with capacity increases of 2.1 and 2.2 GW respectively.

How big is Türkiye's energy storage capacity?

Türkiye's 35 GWh storage capacity accounts for grid-scale projects alone. Global energy storage investments have surpassed 150 GWh. Türkiye has already begun installations in Hungary, Bulgaria, and Spain, leveraging its geographic advantage close to Europe.

How has solar power impacted Türkiye's electricity demand?

The recent increase in solar electricity generation has also played an important role in meeting Türkiye's increasing electricity demand year by year. Electricity demand increased by 5.5% (+18 TWh) in 2024 to reach a record 342 TWh.

Where does Türkiye invest in energy storage?

Global energy storage investments have surpassed 150 GWh. Türkiye has already begun installations in Hungary, Bulgaria, and Spain, leveraging its geographic advantage close to Europe. Tokcan highlighted the importance of local expertise in manufacturing, system management, and maintenance to avoid dependency on foreign firms.

How does wind and solar power work in Türkiye?

In recent years, wind and solar were the driving force of electricity generation from domestic sources in Türkiye. In 2024, wind and solar surpassed the peak annual electricity generation of domestic coal for the first time, permanently overtaking domestic coal. In 2024, solar power in Türkiye increased by a

record 39% year-on-year.

What happened to solar power in Türkiye in 2024?

In 2024, solar power in Türkiye increased by a record 39% year-on-year. This pushed solar's share of electricity to 7.5%, up from 5.7% in 2023. Wind remained steady at 10.7%, close to the previous year's level of 10.6%. As a result, the total share of wind and solar in electricity generation surpassed 18%.

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