

Overview

Türkiye is eyeing completion of a US\$1 billion clean energy investment agreement with UAE-based renewable major Masdar, focused on developing a 1,100 MW solar power plant with energy storage in the Bor district of Nigde Province. 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 wind & solar influenced electricity generation 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. "Wind and solar overtaking electricity from domestic coal is a huge moment for Türkiye.

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.

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%.

Will Turkey quadruple wind and solar power capacity by 2035?

The government aims to quadruple wind and solar power capacity to 120 GW by 2035. There are new rules for the upcoming round of YEKA auctions including a 20-year fixed price. Minister of Energy and Natural Resources Alparslan Bayraktar said Turkey is facilitating an investment cycle of USD 80 billion by 2035 in renewable energy production.

Can Türkiye become a regional hub for battery technology?

“We believe Türkiye can become a regional hub for battery technology, and our government is committed to making this a reality,” Tokcan said. These efforts will position Türkiye as a leader in energy storage innovation, fostering collaboration and supporting renewable energy goals.

Solar power generation and energy storage project in Türkiye

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