



# Expected ROI of solar diesel hybrid storage project in Turkey 2026

Does Turkey have a Solar Energy Breakthrough?

Turkey's solar energy breakthroughThe facilitation of self-consumption-focused power plant installations in Türkiye has accelerated annual new installations,pushing solar energy capacity beyond the current 2025 target. Türkiye's solar energy capacity doubled from 9.7 GW in July 2022 to exceed 19 GW by the end of 2024.

Can Türkiye achieve a more ambitious growth trajectory in battery storage?

The scale of storage-integrated solar capacity alone demonstrates Türkiye's potentialto achieve a far more ambitious growth trajectory in battery storage,paving the way for stronger integration of renewable energy into the grid.

Does Türkiye have storage-integrated solar power?

In the area of storage-integrated solar power,Türkiye is making significant progress. As of 2024,412 solar power plants with storage,representing a combined installed capacity of over 14 GW,have received pre-licenses. This figure far exceeds the 2.1 GW storage capacity target set in the NEP for 2030.

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 much solar energy does Türkiye have?

Türkiye's solar energy capacity doubled from 9.7 GW in July 2022 to exceed 19 GWby the end of 2024. By August 2024,the country had already exceeded the 18 GW target set for 2025 in the National Energy Plan (NEP) by the Ministry of Energy and Natural Resources (MENR).

How has solar energy benefited Türkiye?

Over the past two and a half years, solar and wind energy combined have prevented \$15 billion in natural gas imports, reinforcing Türkiye's energy independence and reducing dependency on fossil fuels. Solar energy alone generated 52 TWh of electricity during this period, which accounted for 6% of the country's total electricity supply.

A Hybrid Solar System contains solar panels, a hybrid inverter, and battery storage to create an uninterrupted energy solution. The solar panels store sunlight and convert it into electricity, while the battery storage stores excess ...



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From April 10 to 12, 2025, the 17th edition of SolarEX Istanbul -- the largest international solar energy and technologies exhibition in the Eurasia region -- took place in Istanbul. Gathering top global players and innovators in the solar ...



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