

Solar power generation at base stations in Türkiye



Overview

Does Türkiye have a solar power plant?

The 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.

How much solar energy does Türkiye have?

Türkiye's solar energy capacity doubled from 9.7 GW in July 2022 to exceed 19 GW by 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.

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.

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Türkiye installed around 2.8 GW of solar in first five months

...

A strong start to solar installations in 2025 helped the country's cumulative solar capacity surpass 22.6 GW by the end of May.

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Türkiye surpasses 2025 solar target as capacity doubles in

...

Executive summary Türkiye's solar energy capacity doubled in 2.5 years, exceeding the 2025 target. Installations primarily for self-consumption have driven 94% of the ...

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17. Türkiye

National targets for solar PV The share of variable renewable energy sources, such as solar and wind, in total electricity generation is expected to increase. This is ...



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Türkiye's solar capacity doubles, beating 2025 ...

Türkiye doubled its solar power capacity to over 19 gigawatts in just two and a half years, beating its 2025 target by August 2024, a ...

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Türkiye installed around 2.8 GW of solar in ...

A strong start to solar installations in 2025 helped the country's cumulative solar capacity surpass 22.6 GW by the end of May.

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This report "Türkiye surpasses 2025 solar target as capacity doubles in 2.5 years" examines the recent development of solar and wind energy capacities in Türkiye in the context ...

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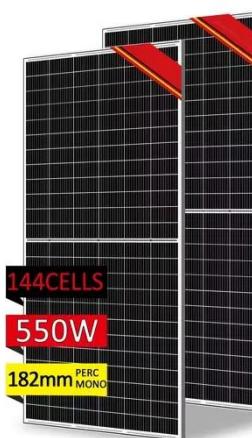


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solar target as capacity doubles in 2.5 years" examines the recent development of solar and wind ...

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Turkiye Electricity Review 2025

Ember's Türkiye Electricity Review, published for the fourth consecutive year, analyses Türkiye's electricity generation and consumption data in 2024. The report also ...

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Solar and wind power transition in Türkiye: An input

...

The solar PV power installation costs in Türkiye declined around %60 from 2016



to 2022 (IRENA, 2022), making solar energy an attractive option for various applications, ...

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With 14.6 gigawatts (GWs) of storage-integrated solar capacity pre-licensed, Türkiye has surpassed its 2030 National Energy Plan target of just 2 GWs, London-based ...

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