



MODERNIZATION SOLAR

Solar power generation system 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 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 has Türkiye doubled its solar capacity?

Türkiye has doubled its solar capacity in just 2.5 years, surpassing its current target more than a year ahead of schedule. The progress underlines the opportunity for an upgraded target in its upcoming Nationally Determined Contribution. Available in: Türkçe



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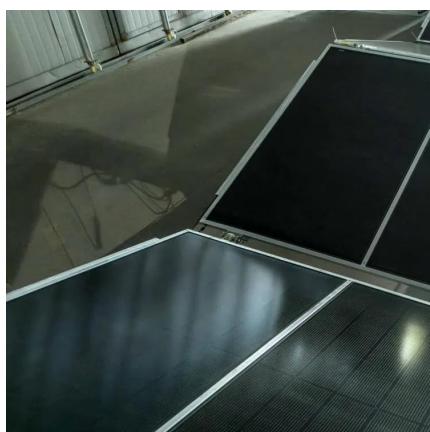


[How much solar power does Türkiye generate? , NenPower](#)

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[Turkiye Electricity Review 2025](#)

Apr 3, 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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17. Türkiye

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Jan 29, 2025 · 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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Mar 23, 2025 · An Investigation into the Ability of a Solar Photovoltaic-Hydrogen System to Meet the Electrical Energy Demand of ...



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Jun 30, 2025 · As at end-April 2025, renewable energy sources constitute a major portion of Türkiye's total installed electricity generation capacity: hydroelectric power accounts for 27.2%, ...



Ankara Solar

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Türkiye surpasses 2025 solar target as capacity doubles in ...

Jan 28, 2025 · 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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TÜRKİYE NATIONAL ENERGY PLAN

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Solar PV and wind power driving Türkiye's renewable growth

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