



# Türkiye solar connection

Can Türkiye utilise its rooftop solar potential?

Türkiye can utilise its rooftop solar potential to catch up with installation rates in EU countries and get on track to meet its clean energy targets. Rooftops in Türkiye have a technical potential of 120 GW and can meet 45% of the country's total electricity demand.

How much solar power will Türkiye have in 2035?

Although Türkiye has added 11 GW of wind and solar capacity in the last five years, other European countries have proved this is possible in a single year. According to the NEP, solar energy capacity is set to reach 52 GW in 2035. To meet this target, an annual average of 3.4 GW of new solar capacity is foreseen to be added.

How much did Türkiye pay for electricity generation in 2023?

Türkiye paid a total of \$3.7 billion USD for imported coal for electricity generation in 2023. Türkiye added 2 GW of solar power capacity in 2023, increasing solar's share of total electricity generation from 4.9% in 2022 to 5.7% in 2023.

Will the US be able to make Turkish solar panels?

The company said its plan was to produce 500 MW of gallium-doped monocrystalline passivated emitter, rear contact silicon panels and tunnel oxide passivated contact (TOPCon) panels in 2023, before expanding to 1 GW in 2024. It's clear that the United States has potential for Turkish module manufacturers.

How many solar power plants will Türkiye install in 2023?

In 2023, Türkiye installed 2 GW of new solar power plants. However, the country needs to double its current solar power plant installation rate by two and a half times and install 5.3 GW in the next two years alone in order to reach its targets.

Why does Türkiye rely on imported fuels for electricity generation?

Türkiye's dependence on imported fuels for electricity generation increased from 41% to 43% in 2022, with no improvement in the dependency ratio for the last four years. The increase in import dependency is due to the rising share of fossil fuels in electricity generation.

As of the end of 2023, solar was the secondary source for all 240 operational and planned hybrid power plants in Türkiye. As part of a hybrid plant, solar provides extra power generation and reduces infrastructure costs, as it connects to the grid from the same point as the primary source.

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Türkiye's growing reliance on fossil fuels in electricity generation pushes Türkiye further from the path of clean energy transition. Türkiye can accelerate its clean energy transition by realising its excellent solar potential, especially on rooftops.

Deniz Bankası tarafından desteklenen yeni bir program, hâlihazırda bu konuların ortadan kaldırılması ve Türkiye'de uygun şekilde bir dağıtık güneş enerjisi piyasası oluşturulmasıyla ilgili; abalarımıza yardımcı olmaktadır.

**PRESS RELEASE: World Bank and Türkiye Sign Agreement for \$1 billion program to support renewable energy expansion efforts**  
**PRESS RELEASE: World Bank Group Launches Renewable Energy Initiative to Enhance Energy Security and Affordability in Europe and Central Asia**

Growth in Türkiye's solar generation contributed to meeting electricity peak demand, which has been driven by increasing cooling needs. In 2024, Türkiye experienced a significant surge in solar energy generation, which covered ...

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For Türkiye, a new distributed solar energy market will boost economic growth, strengthen energy independence, and reduce environmental impacts. As the market matures, it is expected to pave the way for a growing household solar market, reducing energy costs for ...

Explore the rise of wind-solar hybrids, geographic concentrations, and the transformative potential of floating solar, as Türkiye allocates 2.4 GW of hybrid capacity in three years, signaling a revolutionary chapter in the nation's clean energy journey.

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It's a pivotal time for solar in Türkiye. In the first two months of 2024, the country added 1.1 GW of new generation capacity, equivalent to around half of its PV installation total for 2023.



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