

**BLINK SOLAR**

# **Türkiye wind and solar integration**



## Overview

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How much wind energy is installed in Türkiye in 2024?

According to the 2024 renewable energy statistics published by the International Renewable Energy Agency (IRENA), Türkiye has reached a total installed power capacity of 11,697 MW by 2023 . In 2024, the total installed capacity of WPPs reached 13,000 MWe. Global wind energy installed capacity will increase by 143 GW in 2024.

Does Türkiye have a strong wind energy capacity?

In 2024, Türkiye's wind energy capacity grew by only 6.5% (+770 MW), marking a significant slowdown compared to the peak annual additions of 1.7 GW in 2021.

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.

Can Türkiye use untapped solar power to accelerate solar energy momentum?

Türkiye could utilize untapped capacities to advance solar energy momentum through floating, storage-integrated, hybrid and rooftop solar potential. The country has a pipeline of 33 GW in pre-licensed storage-integrated solar and wind projects, far exceeding the official 2030 target of 2.1 GW.

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### Wind and solar benchmarks for a 1.5°C world

Context Türkiye became the second largest coal-fired power generator in Europe in 2023. While there is abundant potential for wind and solar deployment in Türkiye, further ...

### Developing or Investing in Wind, Solar, and Energy ...

As of April 2025, Türkiye's total installed electricity generation capacity exceeds 118 GW. The country's three largest renewable energy sources-- hydroelectric (dam-based), ...



### Unveiling the wind energy future of Türkiye with policies ...

...  
Türkiye has set ambitious renewable energy targets aligned with the European Union Green Deal, aiming for 55 % renewables by 2035 and finally, zero-emission by 2050 so ...

## Türkiye could add 8 gigawatts hybrid solar capacity to ...

Türkiye could meet its growing electricity demands by adding 8 gigawatts (GW) of hybrid solar capacity to existing hydroelectric and wind power plants, potentially increasing the ...



## Türkiye Plans to Install 60 GW of New Solar Photovoltaic and Wind ...

/LONDON, Septem, 14:00 GMT, RENEWABLE MARKET WATCHTM/ Türkiye has announced plans to increase its renewable energy generation capacity with 60 GW of new ...

## Hybrid solar could sidestep Turkish grid constraints

The addition of solar panels to existing wind and hydroelectric plants in Turkey could add 8GW of new capacity to the country's energy mix.



## Türkiye's Energy Transition: Solar, Wind, and Green ...

For 2025, the government has defined

targets of 5 GW for solar and 3 GW for wind power. The long-term vision extends to 2035, aiming for 120 GW combined capacity from solar ...



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

...

This study examines the recent development of solar and wind energy capacities in Türkiye in the context of current renewable energy targets and strategies.



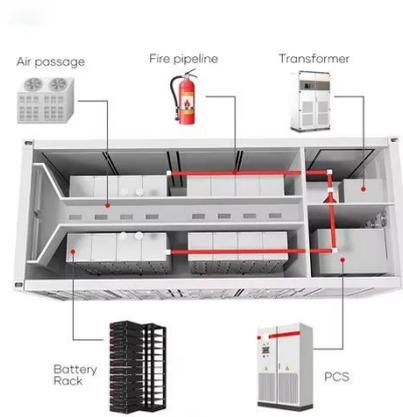
## Solar and wind power transition in Türkiye: An input ...

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Abstract Türkiye ratified the Paris Agreement in 2021 and declared its intention to achieve the "net zero" target by 2053. The government announced a target of an increase of 1 ...

## Türkiye advances renewable energy transition amid grid integration

This photo taken on Sept. 28, 2025 shows solar panels and wind turbines in Konya, Türkiye. Official data showed that Türkiye's solar power has doubled since 2021, ...



## Contact Us

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