

## PDEOZE PowerContainer

# Solar energy prices in Türkiye



## Overview

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Solar energy has become Türkiye's most affordable way to generate electricity, as rapidly falling installation costs push it below all other power sources, according to a new research by London-based energy think tank Ember on Tuesday.

Due to the rapid decline in electricity generation costs in recent years, solar energy has become the cheapest source of electricity in Türkiye.

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Wind and solar power in Türkiye permanently overtook electricity from domestic coal in 2024, even surpassing domestic coal power's historic peak. Ember's Türkiye Electricity Review, published for the fourth consecutive year, analyses Türkiye's electricity generation and consumption data in 2024. How has solar power impacted Türkiye's electricity demand?

The recent increase in solar electricity generation has also played an important role in meeting Türkiye's increasing electricity demand year by year. Electricity demand increased by 5.5% (+18 TWh) in 2024 to reach a record 342 TWh.

How much wind & solar power does Türkiye have in 2024?

Wind remained steady at 10.7%, close to the previous year's level of 10.6%.

As a result, the total share of wind and solar in electricity generation surpassed 18%. Despite an increase in electricity generation from coal (+4 TWh) in 2024, coal's share in Türkiye's electricity mix slightly declined from 36.9% to 35.6%.

How does wind and solar power work in Türkiye?

In recent years, wind and solar were the driving force of electricity generation from domestic sources in Türkiye. In 2024, wind and solar surpassed the peak annual electricity generation of domestic coal for the first time, permanently overtaking domestic coal. In 2024, solar power in Türkiye increased by a record 39% year-on-year.

Why did solar power increase in Türkiye in 2024?

In 2024, Türkiye's solar power generation increased by 7.3 TWh, a massive jump of 39% compared to the previous year. This rise in 2024 alone was almost equivalent to the country's total solar electricity generation level in 2018 (7.8 TWh). This growth in solar generation reflected the rapid pace of solar capacity rollout in Türkiye.

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.

Who makes the most solar panels in Turkey?

CW Energy, since its inception in 2008, has grown to be one of the largest solar panel manufacturers in Turkey, boasting a remarkable 1.8 GW production capacity. The company's versatile approach encompasses a range of services, marking it as a significant player in the solar industry. 3. Elin - Sirius

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This study hypothesizes that increasing wind and solar based energy capacities in Türkiye have significantly influenced electricity market prices by reducing peak-hour costs, creating a duck ...

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