

SolarTech Power Solutions

Türkiye s solar energy storage configuration ratio



Overview

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 many people use solar energy in Turkey?

As a consequence of these flourishing developments, the Turkish solar energy sector currently employs over 50,000 people. The share of variable renewable energy sources, such as solar and wind, in total electricity generation is expected to increase. This is considering Türkiye's current flexibility opportunities, and renewable energy potential.

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 many solar power plants are there in Türkiye?

Solar power installed capacity increased by 1,610 MW, compared to the end of 2021. There are 11,427 power generation plants in Türkiye and the number of unlicensed and licensed small power producers (SPPs) reached 9,353 (TEİAŞ, 2022). With solar PV installations exceeding 9 GW in less than 10 years, the PV panel production market has also expanded.

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%.

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