

Solar energy for the environment turkey

Turkey's sunny climate possesses a high solar energy potential, specifically in the South Eastern Anatolia and Mediterranean regions. [3] Solar power is a growing part of renewable energy in the country, with 19 gigawatts (GW) of solar panels [4]: section 4.2.1 generating 6% of the country's electricity. [5]: 13 Solar thermal is also important.

Solar's growing contribution increased the share of wind and solar power in electricity generation to 16%. The share of solar energy in electricity generation increased to 5.7%. In 2023, Turkey's total installed solar capacity exceeded 12 GW, surpassing wind for the first time.

A PESTLE analysis for sustainable development of solar energy potential in Turkey. Turkey's ambitious goal of transitioning towards a sustainable and low-carbon energy system has led to an increased focus on renewable energy sources.

For Turkey, 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 households.

PV industry current and potential status in Turkey. Solar energy could provide significant amount of power for Turkey, given the country's suitability in terms of solar radiation. Currently, solar power is used mainly for domestic hot water production.

„5%,2021,GW...

Turkey's rapid shift to greener sources of energy has led to a sharp rise in its installed solar power over the last decade, with renewable investments expected to accelerate in the period ahead.

The aim to generate a larger share of power from renewable sources stems from the country's goal of lowering its hefty energy bill, as it imports almost all of its energy needs from abroad.

Its journey of producing energy from solar power started at just 40 megawatts (MW) back in 2014. It has now reached 7,816 megawatts, according to data compiled from the Energy and Natural Resources Ministry.

Turkey's multiple support schemes throughout the years saw the installed solar power capacity rise to 249 MW in 2015, before rocketing to 833 MW a year later.

Still, the biggest leap was seen in 2017, when the figure reached 3,421 MW, a 311% year-over-year increase, according to the data.



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Turkey's renewable energy capacity is predicted to grow by over 50% through 2026, according to the International Energy Agency (IEA).

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