



# Clean electricity turkey





## Overview

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45% of Türkiye's electricity was generated from low-carbon sources in 2024, above the global average of 41%. It was the 15th largest country by electricity demand. Its share of wind and solar (18%) is above the global. ISTANBUL — In a move set to reshape its energy landscape, Türkiye has launched a €640 million national grid modernization project backed by the World Bank and Clean Technology Fund. The “Transforming Power Transmission System Project (TPTS),” approved in August 2025, is not just a critical. Turkey uses more electricity per person than the global average, but less than the European average, with demand peaking in summer due to air conditioning. Turkey, located at the crossroads of Europe and Asia, has been transforming its energy sector to reduce dependence on imported fossil fuels, cut carbon emissions, and meet growing electricity demand. The government's ambitious targets— increasing renewables to 38. Turkish parliament ratified the Paris climate agreement in October 2021, which will catalyze adoption of green energy.



## Clean electricity turkey



### Electricity in Turkey

Overview Consumption Generation Transmission and storage Distribution Resilience Market Retailing

Turkey uses more electricity per person than the global average, but less than the European average, with demand peaking in summer due to air conditioning. Most electricity is generated from coal, gas and hydropower, with hydroelectricity from the east transmitted to big cities in the west. Electricity prices are state-controlled, but wholesale prices are heavily influenced by the cost of imported gas.

### Breaking Grounds: Türkiye's EUR640M Grid Overhaul Powers Up Clean Energy

Türkiye has launched a EUR640M grid modernization project to clear a major bottleneck in its clean energy rollout. Backed by the World Bank, the initiative will boost grid capacity, unlock 1.7 GW ...



### [Turkey's clean power growth is bad news for gas market bulls](#)

Natural gas has played a declining role in Turkey's electricity mix over the past decade as clean energy supplies rose. Coal-fired power stations are the single largest electricity

### Türkiye

The growth in Türkiye's renewable energy capacity continued this year as well, supporting



the country's increasing clean energy and decreasing imports goals. In 2024, 99 percent of Türkiye's 8.7 GW ...



### [Turkey Green Energy and Clean Technologies](#)

Turkish parliament ratified the Paris climate agreement in October 2021, which will catalyze adoption of green energy and clean technology solutions in Turkey. Following the ...

### [Net-zero Turkey: Renewable energy potential and implementation](#)

Turkey's renewable energy potential is shaped by its diverse geographical and climatic conditions, enabling access to an array of resources, including solar, wind, hydropower, geothermal, ...



### [Deep Dive: Turkey's Ambitious Renewable Energy Grid Modernisation](#)

Central to the modernisation initiative are significant upgrades to Turkey's grid infrastructure. These include strengthening grid connections and integrating smart-grid technology ...



## Türkiye (Turkey)



45% of Türkiye's electricity was generated from low-carbon sources in 2024, above the global average of 41%. It was the 15th largest country by electricity demand. Türkiye's largest source ...



### [World Bank and Clean Technology Fund Support Türkiye's ...](#)

This major project aims to enable the integration of increased renewable energy capacity into Türkiye's national power transmission grid, supporting the country's clean energy transition and ...

### **Electricity in Turkey**

Turkey's coal-fired power stations are the largest source of the country's greenhouse-gas emissions. Many brown coal power stations are subsidized, which increases air pollution. Imports of gas, mostly ...



### [Renewable Energy Expansion In Turkey: An Overview](#)

Turkey, located at the crossroads of Europe and Asia, has been transforming its energy sector to reduce dependence on imported fossil fuels, cut carbon emissions, and meet growing electricity



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Phone: +34 919 456 782

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