

Title: Turkey electricity consumption

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What is the energy consumption of Turkey in 2025?

According to the results of the Türkiye National Energy Plan, electricity consumption is expected to be 455.3 TWh in 2030, 510.5 TWh in 2035. The shares of resources in electricity generation in 2025 were as follows: Coal: 33.6%, Natural gas: 23%, Hydropower: 15.8%, Wind: 10.9%, Solar: 10.5% from Geothermal: 3.2%, Other Sources: 3.1%.

How much energy does Turkey use per year?

of electric energy per year. Per capita this is an average of 3,342 kWh. Turkey could be self-sufficient with domestically produced energy. The total production of all electric energy producing facilities is 310 bn kWh, which is 109 percent of the country's own usage. Despite this, Turkey trades energy with foreign countries.

Where can I find data about electricity generation in Türkiye?

All data sets can be accessed on Ember's Data page. 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.

How can Turkey increase low-carbon electricity generation?

To increase low-carbon electricity generation, Turkey should aim to expand its existing wind and solar energy infrastructure, given their proven contributions. For guidance, Turkey can learn from regions like Denmark and Iowa, where wind energy comprises about 60% of electricity generation, showcasing successful integration and utilization.

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Between July 2024 and June 2025, Turkey's electricity consumption was characterized by a heavy reliance on fossil energy, with more than half (about 55%) of the electricity generated coming from coal and ...

Türkiye's reliance on natural gas use has grown along with rising oil and gas imports, leaving the Turkish economy increasingly exposed to the volatility in oil and gas prices. There is an identified need to ...

Energy budget, consumption and production capacities in Turkey, including a comparison with the USA. CO2

Turkey electricity consumption

Electricity The annual gross electricity consumption in 2025 increased by 2.1% to 360.9 TWh, compared to the previous year. Electricity generation reached 362.9 TWh, increasing by 2.4%. According to the results of the ...

Turkey Gross Electricity Consumption data remains active status in CEIC and is reported by Turkish Electricity Transmission Corporation. The data is categorized under Global Database's Turkey - Table TR.RB: ...

Turkey: Electricity consumption, billion kilowatthours: The latest value from 2023 is 285.18 billion kilowatthours, a decline from 287.32 billion kilowatthours in 2022. In comparison, the world average is 142.53 billion ...

Ember's Electricity Review, published for the fourth consecutive year, analyses electricity generation and consumption data in 2024. The report also compares Turkey with other European ...

We look at electricity consumption later in this profile. These figures are based on primary energy consumption, given by the "substitution method". See our explainer on the different metrics used to measure energy for ...

- Turkey's Energy Supply & Demand: Turkey's energy mix in 2024 features 46% renewables, with wind and solar at 20%. Primary energy consumption grew slowly (+1.7%/year since 2017), with oil stable at ...

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