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China

China is rebuilding its industrial economy on a clean foundation as rapid renewable energy expansions begin to offload fossil fuels

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Key energy data for China

**1st**

Global ranking for electricity demand

**42%**

Share of clean electricity

**22%**

Share of solar and wind

**58%**

Share of electricity from fossil fuels

**2.2x**

Power sector emissions per capita as a multiple of the global average

SHARE

42% of China's electricity was generated from clean sources in 2025, in line with the global average of 43%. 2025 saw a fall in power sector emission due to a decline in coal generation.

Hydropower remains China's largest single source of clean electricity, contributing 13% in 2025. The share of wind and solar combined reached 22%, above the [global](#) and Asia average of 17%. Solar recorded another year of exponential growth, with 336 TWh of power generation, a 40% increase compared to 2024.

in coal generation. Coal output decreased by 71 TWh, the first such drop since 2015. Fossil fuels provided 58% of China's electricity in 2025, down from about 62% in 2024.

China could reach peak fossil fuel consumption by 2030, thanks to exponential renewables growth and electrification. In 2025, China's fossil generation declined by 56 TWh (-0.9%), the first year without an increase since 2015. This represents a structural shift, and if current trends hold, China's fossil fuel demand could begin falling soon, creating conditions for global fossil fuel demand to decline as well.

Coal mine methane in China

China is also the world's largest coal mine methane (CMM) emitter, accounting for 76% of global CMM emissions in 2023. Despite this, independent estimates suggest actual emissions may be higher than officially reported figures. China has taken steps to address low concentration methane through its voluntary carbon market (CCER), which now credits mitigation of coal mine gas below 8% methane concentration. Addressing CMM would significantly reduce overall emissions from the power and steel sectors.

Solar

Wind

Hydro

Bioenergy

Nuclear

Other fossil

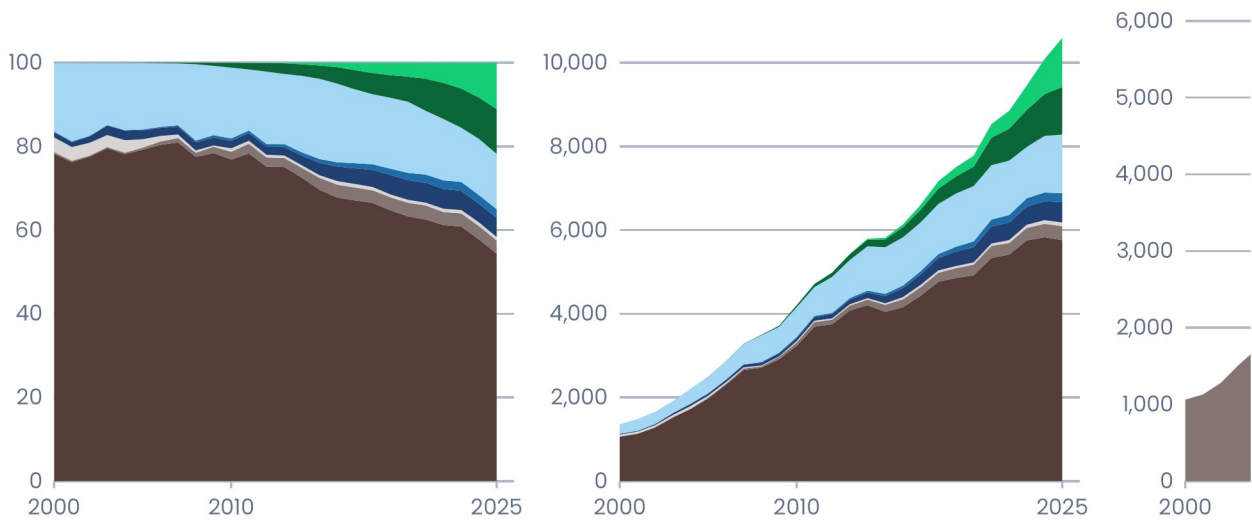
Gas

Coal

Share of generation (%)

Generation (TWh)

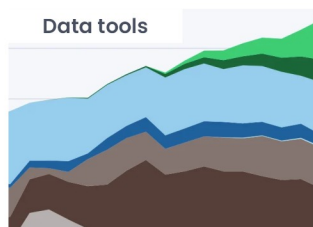
Emissions (Gt)



Source: Yearly electricity data, Ember

Explore China's electricity data

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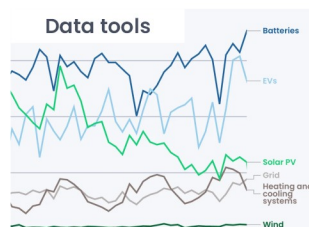
Electricity Data Explorer

The latest electricity demand, generation, capacity and CO2 data by country, available freely and easily to help others speed up the electricity transition.



2030 Global Renewable Target Tracker

Tripling renewable generation capacity is the single largest action the world can take to keep the 1.5 degree goal within reach. Compare and explore national renewable targets in 98 countries and one region



China Cleantech Exports Data Explorer

A tool to uncover insights from the latest clean technology export data from China, including solar PV, batteries and electric vehicles. Explore by electrotech type,



Coal Mine Methane Data Tracker

The latest coal mine methane emissions, projections, production data, and policy context by country, available freely and openly to accelerate global coal mine methane reduction efforts.