



What electricity does the UK use for solar power generation

Solar power in Great Britain had a record-breaking start to 2025, with solar up 32%, to produce a record 9.91 TWh, breaking generation records for five months in a row since March 2025.

Today, there are four main renewable energy sources used to power the UK: wind, solar, hydroelectric and bioenergy. They harness the natural power of the sun, our weather, our waterways and tides, ...

In 2025, wind, solar, hydro and biomass generated more than 127 terawatt hours (TWh) of electricity in Great Britain, according to BBC analysis of provisional Neso data.

The table above shows electricity production from solar panels as a percentage of the final consumption of electricity in the UK and not gross supply to the grid.

Where and how does the UK generate it's electricity? Is it all renewables? Or still mostly fossil fuels? Here we will explore the latest official figures.

A precise, data-driven answer. We analyze the UK's renewable energy percentage (by electricity generation) and break down the critical roles of wind, solar, and bioenergy.

The UK's solar farms and rooftops generated more electricity than ever before in the first five months of 2025, as the country enjoyed its sunniest spring on record.

Electricity generated from solar power in the UK primarily harnesses photovoltaic (PV) technology, which converts sunlight directly into electricity, contributing to a significant reduction in ...

In 2023, renewables accounted for almost 50 percent of the United Kingdom's electricity production, making it the greenest year on record.

More than half of UK electricity generation came from renewables in 2024, a first for annual production in a year which saw solar output hit record highs.



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