

Uk solar power statistics





Overview

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The UK generated 14.43 billion kWh of solar electricity in 2025, enough to power over 5 million homes. Solar panel installations in the UK hit 1.73 million in 2025, a 6.8% rise from the previous year. Renewables now provide 37% of the UK's electricity, surpassing fossil fuels for the.

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September 2024 Solar PV deployment stats published. September 2023 Solar PV deployment stats published. September 2022 Solar PV deployment stats published. October 2017 solar photovoltaics deployment and statistics contact details updated. Solar photovoltaics deployment table for June 2017.

Solar power has a growing role in electricity production in the United Kingdom, contributing around 5% of the UK's annual power generation in 2024. [1] As of 2025, on sunny days, it provides over 30% of the UK's power consumption at times. [2] There were few installations until 2010, when the UK.

Solar photovoltaic is a renewable energy technology that utilizes sunlight in order to generate electricity. A photovoltaic system is comprised of one or multiple solar panels, made up of solar photovoltaic cells, and a solar inverter. Solar panels are either rooftop fitted or ground mounted and a.

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As of January 2025, the UK's solar capacity hit 15.7 GW across 1,454,607 installations, marking a 6.6% increase since January 2023. According to industry figures, by January 2025, domestic installations made up the majority of solar installations across the UK. As of June 2025, a total of 1.39.



Solar power currently produces 25% of the UK's renewable energy, which itself accounts for 43% of total energy, which means that approximately 11% of the nation's power comes from solar. Below are 20 solar energy statistics from the UK market, including data on the current and proposed capacity for. How much solar capacity does the UK have?

UK solar capacity has grown by 1GW since October 2023. Image: Octopus Energy. The latest solar energy statistics from the Department for Energy Security and Net Zero (DESNZ) have revealed that the UK now has over 17GW of installed solar capacity.

How much solar power does the UK have in 2024?

As of the end of October 2024, the UK has a total of 17.2GW of solar generation capacity, a 1GW or 6.3% increase since October 2023. Across October 2024, 76MW of capacity was added across 20,102 new solar installations. Of these, 73% were on residential properties, representing 58MW of the installed capacity added.

What percentage of UK electricity is generated by solar?

In total, solar accounted for 11.6% of UK electricity generation in May 2025, only the fourth time it has ever breached the 10% threshold, after June 2023, June 2024 and April 2025. (Solar topped 10% of monthly global electricity generation for the first time in April this year.).

How many solar panels are there in the UK?

UK solar PV installed capacity at the end of 2017 was 12.8 GW, representing a 3.4% share of total electricity generation. Provisionally, as of the end of January 2019 there was 13,123 MW installed UK solar capacity across 979,983 installations. This is an increase of 323 MW in slightly more than a year.

How much energy does the UK need for solar panels?

Source: Carbon Brief analysis of figures from the National Electricity System Operator (NESO). The electricity generated by the UK's solar panels in the first five months of 2025 – at 7.5TWh – is enough to have offset the need for around 16TWh of imported gas.

What percentage of UK solar installations are domestic?

This broadly reflects the trend of UK solar, where the bulk of solar installations



are domestic. However, domestic installations only make up around 30% of the UK's total capacity, with approximately 5.2GW of solar generation coming from home rooftops.



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