



How much solar power does the UK generate

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How much solar power does the UK generate?

In recent years, solar power has become a much more significant part of the UK's electricity mix. In 2024, UK solar PV generated around 15-16 terawatt hours (TWh) of electricity, accounting for roughly 5% of total electricity generation. While that may still sound modest, it represents a dramatic increase compared to the early days of UK solar.

How much electricity did UK solar farms generate in 2025?

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. The figures, revealed in new Carbon Brief analysis, show that the nation's solar sites have generated a record 7.6 terawatt hours (TWh) of electricity during January to May 2025.

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 7.5 TWh - is enough to have offset the need for around 16 TWh of imported gas.

How much energy does the UK generate?

Offshore wind generated 17.2% (48.9 TWh) and onshore wind 12.3% (35.1 TWh). Solar provided 5.2% (14.8 TWh) and nuclear 14.25% (40.6 TWh) of the UK's electricity in 2024. Low carbon sources (renewables and nuclear) generated a record 65% (185.2 TWh), while fossil fuels fell to levels last seen in the 1950s at 31.5% (89.7 TWh).

Renewables accounted for majority of annual UK electricity generation for the first time in 2024, with solar enjoying record highs despite fewer sun hours. Gains for PV reflect increased ...

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. The figures, revealed in ...

Discover the latest global solar panel statistics, facts, and trends of 2024. Stay informed about the rise of solar power worldwide.

How much solar power does the UK generate

What do the latest statistics say about solar power in the UK & globally? Here we explore the latest facts and figures.

The UK is moving away rapidly from fossil fuels to low-cost renewables which bring down consumer bills, with wind providing the bulk of our clean power. "The Government has a golden ...

Discover the typical electricity output of a solar panel system in the UK - per year, per day, and per hour - as well as what affects it.

How much electricity do solar panels generate in the UK? By Dr Kilowattsons Published: 2026-01-21 11:25:41 Updated: 2026-01-21 13:12:25 Understand solar panel output uk in the UK, with ...

Discover how much electricity solar panels produce in the UK, from daily output to yearly savings. Learn key factors that affect solar performance

Solar farms and rooftops in the UK generated a record 42% more electricity from January through May 2025 than during the same period in 2024.

In this post there are 20 solar energy statistics from the UK market, including data on the current and proposed capacity for residential, commercial, and national installations.

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