

## SolarTech Power Solutions

# UK containerized solar energy storage



## Overview

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How is the UK's solar energy and battery storage sector changing?

**Introduction** The UK's solar energy and battery storage sector is undergoing a rapid transformation, bolstered by ambitious climate targets and supportive policies. Solar photovoltaics (PV) capacity has rebounded since the end of feed-in tariffs, while energy storage is scaling up to enhance grid reliability.

What makes the UK a good place to buy solar power?

The UK now boasts hundreds of solar installers and EPC contractors, and a burgeoning ecosystem of storage integrators and aggregators. This competitive mix is driving innovation and cost reduction, but also creating a race for grid connections and power purchase deals as companies jostle to secure the best sites.

Can the UK become a leader in energy storage?

Energy storage, meanwhile, has opportunities beyond just lithium batteries – the UK can become a leader in emerging storage tech such as flow batteries, hydrogen storage, and gravity-based systems (several prototypes are being trialled, supported by government innovation grants).

How many battery storage projects are there?

The pipeline of battery storage projects has continued to grow steadily again, from 84.4GW in December 2023 to 95.5GW in May 2024. This edition of the EnergyPulse report on Energy Storage shows there is 8.7GW of batteries in operation and under construction and more than 30GW projects have now been consented.

How much battery storage capacity does the UK have?

With over 9GWh of operational grid-scale battery storage capacity in the UK, it's worth identifying its regionality and how this is changing.

What is the UK's solar capacity?

Surging capacity: The UK's solar capacity continues to climb and is now at its highest level ever. As of late 2024, total installed solar PV capacity had reached approximately 17.6 GW (DC). Annual deployment has accelerated to around 1.2–1.3 GW of new solar each year – the fastest growth seen since subsidy cuts in 2019.

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