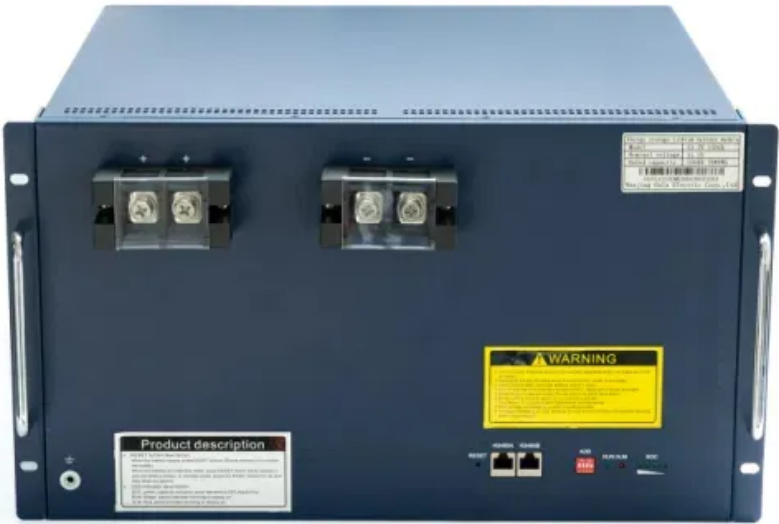


# Energy storage policy updates united kingdom



## Overview

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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.

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### [MIT Energy Initiative conference spotlights research](#)

At the MIT Energy Initiative's Annual Research Conference, industry leaders agreed collaboration is key to advancing critical technologies amidst a changing energy landscape.

### **Study: Fusion energy could play a major role in the global response to**

Investigators in the MIT Energy Initiative and the MIT Plasma Science and Fusion Center have found that - depending on its future cost and performance - fusion energy has the potential



### [January 2025: GB battery energy storage research](#)

In January 2025, our research focused on evaluating the latest on battery energy storage operations, buildout, and policy updates from the end of 2024 and how



### [Making clean energy investments more successful](#)

New research emphasizes the importance of well-validated models and forecasting tools in evaluating choices for investments in clean energy technologies and policies by governments and





## How artificial intelligence can help achieve a clean energy future

A look at how AI can be used to help support the clean energy transition by helping to manage power grid operations, plan infrastructure investments, guide the development of novel

## A new approach could fractionate crude oil using much less energy

MIT engineers developed a membrane that filters the components of crude oil by their molecular size, an advance that could dramatically reduce the amount of energy needed for crude oil



## New facility to accelerate materials solutions for fusion energy

The new Schmidt Laboratory for Materials in Nuclear Technologies (LMNT) at the MIT Plasma Science and Fusion Center accelerates fusion materials testing using cyclotron proton beam

## MIT engineers create an energy-storing supercapacitor from ancient

MIT engineers created a carbon-cement supercapacitor that can store large amounts of energy. Made of just cement, water, and carbon black, the device could form the basis for



## [Long Duration Electricity Storage: Technical Decision](#)

In October 2024 the Government's response to

its Long Duration Electricity Storage (LDES) consultation set out that it would publish a joint Technical Decision Document (TDD) with Ofgem in the

### [Why solid-state batteries keep short-circuiting](#)

MIT researchers discovered that dendrites, cracks that harm the performance of solid-state batteries, can grow at far lower stresses than previously understood. The findings reveal why



### **Giving buildings an "MRI" to make them more energy-efficient and**

Founded by a team from MIT, Lamarr.AI utilizes drones, thermal imaging, and AI to identify energy waste and structural issues in buildings and recommend retrofits.

### **Long Duration Energy Storage: the key to a 100% renewable energy grid**

Long Duration Energy Storage (LDES) is emerging as the critical missing piece in UK energy policy, with energy group Iberdrola calling it the "key enabler for a 100% renewable electricity



### [Long duration electricity storage consultation: Government](#)

Between January and March 2024, stakeholders were consulted on a proposed approach of using a cap and floor regime to enable investment in Long Duration Electricity Storage (LDES) assets.

## **Next-generation geothermal energy: Promise, progress, and challenges**

Geothermal energy, a clean, continuous energy source accessible in many locations, has been slow to catch on. Nearly 2,000 years ago, the Romans made extensive use of geothermal



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