

UK energy storage major investment projects





Overview

Listed below are the five largest energy storage projects by capacity in the UK, according to GlobalData's power database. GlobalData uses proprietary data and analytics to provide a complete picture of the global energy storage segment.

The Sunnica Solar-plus-Battery Energy Storage System is a 500,000kW lithium-ion batteryEngland, the UK. The electro-chemical battery storage project.

The EFDA JET Fusion Flywheel Energy Storage System is a 400,000kW flywheel energy storage project located in Abingdon, England, the UK. The rated.

The Penso Power-Hams Hall Battery Energy Storage System is a 350,000kW lithium-ion battery energy storage project located in Hams Hall, North.

The DP World London Gateway - Battery Energy Storage System is a 320,000kW lithium-ion battery energy storage project located in Thurrock, Essex, England.

Two leading UK-based energy firms, AMP Clean Energy and Pulse Clean Energy, have announced major investment milestones in August 2025, securing a combined total of over £495 million to expand their Battery Energy Storage System (BESS) operations across the country.What are the largest energy storage projects in the UK?

Listed below are the five largest energy storage projects by capacity in the UK, according to GlobalData's power database. GlobalData uses proprietary data and analytics to provide a complete picture of the global energy storage segment. Buy the latest energy storage projects profiles here. 1. Sunnica Solar-plus-Battery Energy Storage System.

Could a new energy storage scheme help the UK achieve energy independence?

The UK is a step closer to energy independence as the government launches a new scheme to help build energy storage infrastructure. This could see the first significant long duration electricity storage (LDES) facilities in nearly 4 decades, helping to create back up renewable power and bolster the UK's



energy security.

How has energy storage changed in the UK?

RenewableUK's 'EnergyPulse' energy storage report showed that the total pipeline of battery projects has increased from 50.3GW a year ago to 84.8GW, an increase of 68.6 per cent, or 34.5GW. Operational battery storage capacity has grown to 3.5GW, while the capacity of projects under construction has reached 3.8GW.

What is the long duration energy storage Investment Support Scheme?

Long Duration Electricity Storage investment support scheme will boost investor confidence and unlock billions in funding for vital projects. The UK is a step closer to energy independence as the government launches a new scheme to help build energy storage infrastructure.

What is the biggest battery storage project in the UK?

The 1,400MW (3,100MWh) project will be the largest battery storage project in the UK, and one of the largest in Europe. The project was approved by Doncaster Council on 28 January 2025 and will help strengthen the local economy by creating jobs during the construction and operation of the facility.

What if the UK has a strong energy storage industry?

If the UK establishes a strong domestic energy storage industry, it can export storage capacity and technologies. Storage would reduce the UK's dependence on costly, polluting and uncertain fossil fuel imports. Great Britain currently has 2.8 gigawatts (GW) of LDES across four Pumped Storage Hydro (PSH) facilities in Scotland and Wales.



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More than £1bn investment secured for UK's largest BESS project

10 hours ago · A major £1 billion-plus investment has been secured for the UK's largest battery energy storage system (BESS) project at Thorpe Marsh in South Yorkshire.

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[Top five energy storage projects in the UK](#)

Listed below are the five largest energy storage projects by capacity in the UK, according to GlobalData's power database. GlobalData uses proprietary data and analytics to ...

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[UK ESS investor Gresham House acquires 425MW of](#)

Image: Gresham House. Publicly-listed UK energy storage investment fund Gresham House Energy Storage Fund (GRID) is on track to own more than 1.2GW of operational ...

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[Major Investments Accelerate UK Battery Storage Expansion](#)

Two leading UK-based energy firms, AMP Clean Energy and Pulse Clean Energy, have announced major investment milestones in August 2025, securing a combined total of ...



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[Development of the UK's Energy Storage Industry: Current](#)

With economies of scale and improvements in the supply chain, the UK government has removed the cap on Nationally Significant Infrastructure Projects (NSIP), contributing to ...

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[Top five energy storage projects in the UK](#)

Global energy storage capacity was estimated to have reached 36,735MW by the end of 2022 and is forecasted to grow to 353,880MW by 2030. The UK had 3,096MW of ...

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UK: over 17GWh of BESS due to connect to grid in 2025, 9GWh ...

However, within the UK, numerous sites over 1GWh in size have already been approved and construction has begun on some of these sites that will ultimately become some ...

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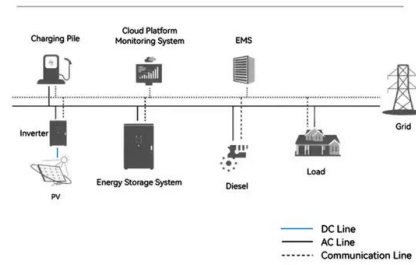
UK's largest Battery Storage Project Secures Planning Consent

Headquartered in Edinburgh, UK Fidra Energy's strategy is to develop, build and operate large battery energy storage projects in the UK and major European markets. About ...

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System Topology



Ofgem super-charging clean power storage for first time in 40 years

A new era for renewable power and energy security begins today (Tuesday 8 April) as Ofgem launches a new cap and floor investment support scheme, unlocking billions in ...

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Fidra secures capital for 1,400-MW Thorpe Marsh, UK's largest ...

2 days ago· Fidra Energy, the UK-based energy storage platform owned by institutional investor EIG, has reached financial close on the UK's largest battery energy storage system (BESS) ...

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Bank commits £62.5 million in major project to boost ...

The UK Infrastructure Bank has today announced its first debt transaction in battery storage with a £62.5 million commitment to support the ...

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BW ESS Celebrates Inauguration of the UK's Largest Battery Energy

100MW / 331MWh battery storage system is now operational, forming a key part of BW ESS' UK investment programme. London, 18th February 2025 -- BW ESS has ...

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Bank commits £62.5 million in major project to boost UK energy storage

The UK Infrastructure Bank has today announced its first debt transaction in battery storage with a £62.5 million commitment to support the development of multiple new ...

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Milestone achieved for major new UK hub plans . Upstream

AIM-listed EnergyPathways has achieved a major milestone for its Marram Energy Storage Hub (MESH) project, as the North Sea Transition Authority (NSTA) has approved the ...

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UK energy storage in 2024: What's the state of play?

As of July 2023, the five largest energy storage projects by capacity in the UK were as follows, according to GlobalData: 1. Sunnica Solar-plus-Battery Energy Storage System. A ...

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UK's largest battery storage project secures planning consent

Headquartered in Edinburgh, UK Fidra Energy's strategy is to develop, build and operate large battery energy storage projects in the UK and major European markets.

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114KWh ESS



[UK BESS Outlook 2025: Key Developments to Watch](#)

UK BESS Outlook 2025: Key Developments to Watch LDES Cap-and-Floor Scheme: A New Support Plan The Department for Energy Security & Net Zero (DESNZ) is set to roll out a cap ...

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New scheme to attract investment in renewable energy storage

Government will unlock investment opportunities in vital renewable energy storage technologies to strengthen energy independence, create jobs and help make Britain a clean ...

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