

UK energy storage power station planning



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Overview

How many battery energy storage applications have been filed in the UK?

More than 100 planning applications for battery energy storage systems were filed in the UK between April and June 2025, covering a combined 8.4GW of capacity. That is more than twice as much as in the same quarter last year.

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.

Is the battery storage pipeline growing in the UK?

This report will be launched to coincide with Clean Power Grid Conference 2025, 1 May 2025 at the IET, London. Overall though, the breakdown of the battery storage pipeline in the UK indicates a position of growth, with a large proportion of the pipeline capacity in early development, in planning and consented stages.

Why is battery storage important in the UK?

As the UK intensifies its focus on decarbonising the electricity system, timely grid access for battery storage will be essential to support renewable energy integration, grid stability and meeting emission reduction targets. Related questions you can explore with Ask NCE, our new AI search engine.

How many energy storage projects are there?

Currently there are 2469 energy storage projects tracked in the EnergyPulse database (including inactive projects, as of 18/11/2024), covering details such as project capacity, development status, developer and ownership, location and more. Daniel Sutherland, EnergyPulse Data Analyst.



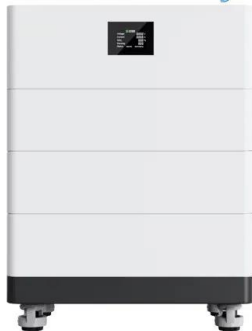
Will there be a surge in battery energy storage projects?

There will be a potential surge in battery energy storage system (BESS) projects receiving grid connection offers before 2030 following regulatory reforms approved by energy regulator Ofgem, according to a new study.



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High Voltage Solar Battery



[Battery storage capacity in the UK: the state of the pipeline](#)

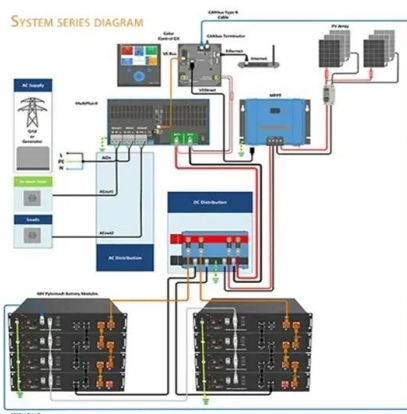
This post investigates the state of the UK battery storage pipeline, year-to-date figures and an insight into the appetite to develop over time. Battery storage is essential for ...

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[Root-Power granted planning approval for 99-MW battery in UK](#)

UK energy storage firm Root-Power has obtained planning consent for a 99-MW/198-MWh battery energy storage (BESS) project in North Yorkshire, England.

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[7.6GW of UK battery energy storage systems to get pre-2030 grid](#)

The research by UK independent power producer Root-Power identifies 173 BESS projects, with a combined capacity of 7.6GW, likely to benefit from changes designed to ...

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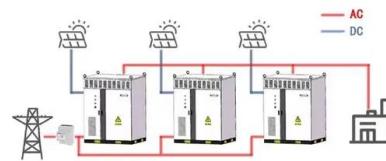
[Three BESS projects in UK granted approval, as ...](#)

To be located at the decommissioned Cottam coal-fired power station, the project will include three electricity generating stations, each with ...

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WORKING PRINCIPLE



[Root-Power submits planning applications for additional UK ...](#)

Root-Power, which launched in July 2024 with the backing of the YLEM Group, has announced the submission of six planning applications for a further 315 MW of battery energy ...

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[UK's largest battery storage project secures planning consent](#)

The project is being developed on ~55 acres of land that formed part of a former coal station site and adjacent to an existing National Grid substation in Yorkshire, UK. A final ...

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UK: SSE submits planning to Scottish Government for Sloy pumped storage

SSE Renewables has submitted a Section 36 planning application to Scottish Government ministers to convert the iconic Sloy Power Station into a new pumped storage ...

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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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[Carlton Power secures planning consent for world's largest ...](#)

UK independent energy infrastructure development company Carlton Power has secured planning permission for the world's largest battery energy storage scheme (BESS), a ...

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[UK urgently needs more energy storage to avoid ...](#)

A large increase in the UK's energy storage will be critical to ensuring the UK reaches its goal of a clean power system by 2030, with a ...

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[UK green power surges with record approvals for new renewable energy](#)

More than 100 planning applications for battery energy storage systems were filed in the UK between April and June 2025, covering a combined 8.4GW of capacity. That is more ...

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SAE and Eenergy partner on five-hour battery storage project in the UK

The joint venture brings together SAE's experience in developing renewable energy and battery storage projects in the UK with Eenergy's expertise in battery storage ...

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[The \\$1bn battery: record-sized plant will store North Sea wind power](#)

2 days ago· The Thorpe Marsh project will deploy 1.4GW/3.1GWh of battery storage at a disused coal power site in northeast England, the regional hub for many of the UK's largest North Sea ...

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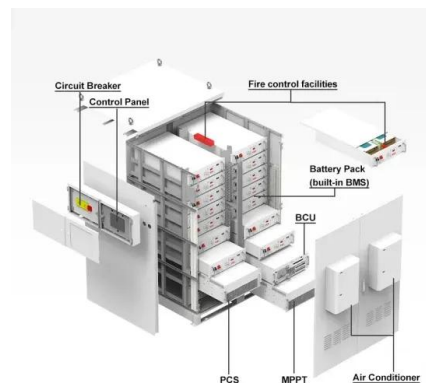
Lithium Solar Generator: \$150



[Sloy Power Station redevelopment plans , SSE Renewables](#)

In April 2025, we submitted a planning application to the Scottish Government to convert the iconic Sloy Power Station into a pumped storage hydro scheme. Our proposals would bolster ...

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[UK's largest battery storage project secures planning ...](#)

The project is being developed on ~55 acres of land that formed part of a former coal station site and adjacent to an existing National Grid ...

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[Largest ever UK pumped hydro scheme granted](#)

...

Gilkes Energy has secured planning consent for a 1.8 GW/40 GWh pumped hydro energy storage project, the largest of its kind to date in ...

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[SSE submits planning to Scottish Government for Sloy pumped storage](#)

SSE has submitted a Section 36 planning application to Scottish Government ministers to convert the iconic Sloy Power Station into a new pumped storage hydro scheme.

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Pumped Hydro Energy Storage

Loch Kemp is a pumped storage power plant with a potential capacity of up to 600 MW. It comprises a large lower reservoir (Loch Ness) and an extension of an existing natural upper ...

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[Battery storage capacity in the UK: the state of the ...](#)

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The joint venture brings together SAE's experience in developing renewable energy and battery storage projects in the UK with Econergy's ...

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[UK Energy Storage: The Systems Powering Britain's Green Future](#)

From mountainous pumped hydro to cutting-edge cryogenic and compressed air technologies, the UK is deploying a broad portfolio of energy storage solutions to ensure ...

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[SSE Renewables to build 150MW battery storage ...](#)

Final investment decision has been reached on battery energy storage system (BESS) project, to be constructed on the site of the former ...

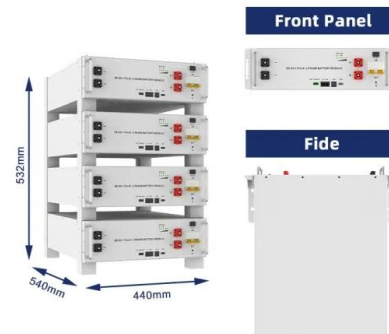
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[UK grants planning permission for 'world's largest' battery project](#)

A multi-faceted clean tech project site, built out of an old coal power plant in the UK, will be home to what developers are calling the world's largest battery energy storage system ...

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[UK urgently needs more energy storage to avoid wasting wind power](#)

A large increase in the UK's energy storage will be critical to ensuring the UK reaches its goal of a clean power system by 2030, with a tenth of generated wind power ...

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[National Grid connects UK's largest battery storage facility at ...](#)

National Grid has connected the UK's largest battery energy storage system (BESS) to its transmission network at Tilbury substation in Essex. The 300MW Thurrock ...

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[UK: over 17GWh of BESS due to connect to grid in ...](#)

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Home Energy Storage (Stackble system)



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