

# UK energy storage project approval time

Which UK battery energy storage systems have won government approval?

Three new UK battery energy storage systems (BESS) and a 150 MW capacity solar farm have won government approval. The Scottish government has given Kona Energy the green light for the construction and operation of the Smeaton battery energy storage system (BESS), a 228 MW/456 MWh project near Dalkeith, East Lothian.

Where is a 3100 MWh battery energy storage project being developed?

The 3,100 MWh battery energy storage project is being developed by EIG's Fidra Energy in Yorkshire, UK. Fidra Energy, a European battery energy storage system (BESS) platform headquartered in Edinburgh, UK, has secured planning consent to build and operate its flagship battery storage site at Thorpe Marsh, Yorkshire.

Will Fidra energy build a battery storage project in Yorkshire?

Edinburgh-headquartered Fidra Energy has secured planning consent to build and operate its flagship 1.4 GW (3.1 GWh) BESS project in Yorkshire. Doncaster Council approved the plans for what will be the largest battery storage project in the UK.

What is the UK's largest battery storage project?

The project will be the UK's largest battery storage project and will power up to 800,000 homes during peak electricity demand hours. Approved by Doncaster Council on 28 January 2025, the project will feature lithium-ion battery systems supplied by Sungrow.

Will Fidra energy build a battery storage project at Thorpe Marsh?

Fidra Energy has secured planning consent for a 3.1 GWh battery storage project at Thorpe Marsh, Yorkshire. The project will use containerised lithium-ion battery systems developed by Sungrow, and will have the capacity to power up to 800,000 homes during peak hours of demand.

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.

Lightsource bp has announced that it has been granted full planning permission for its first UK standalone battery energy storage system (BESS). The Pentir Energy Storage project, to be located near Bangor in Wales, will have a 57 MW/228 MWh capacity, with a planned 40-year operational lifespan.

Battery energy storage capacity in Europe 2014-2023; Breakdown of battery energy storage capacity in Europe 2023, by country; Breakdown of battery power storage capacity in Europe 2024, by application

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The REA sees energy storage as a key missing piece of the UK's energy policy. Storage can help deliver the low carbon energy the country needs and it is therefore vitally important that it is appropriately incentivised and supported. The REA launched the UK Energy Storage group to help the industry reach its potential and this has now grown to

As of June 2024, the UK's operational battery storage capacity was 4.6GW, so the new projects represent a roughly 7% increase nationwide. The UK's total battery storage is expected to increase to 7.4GW by the end of the year. The technology will be needed if Labour is going to meet its target of decarbonising the UK's energy generation by ...

The total planned capacity for energy storage projects in the UK is 85GW/175 GWh, with 20% of this coming from storage capacity co-located with solar sites. Looking at the graph above, the energy storage market saw initial activity in ...

UK energy storage developer Apatura has surpassed 1 GW of battery capacity with the approval of its Neilston BESS near Glasgow. The company secured planning consent ...

The DP World London Gateway - Battery Energy Storage System is a 320,000kW lithium-ion battery energy storage project located in Thurrock, Essex, England, the UK. The rated storage capacity of the project is 640,000kWh. The electro-chemical battery storage project uses lithium-ion battery storage technology. The project was announced in 2020 ...

There is currently more than 13.5GW of battery storage projects in the pipeline, according to Solar Media Market Research's UK Battery Storage Project Database Report. There is 1.3GW ready to build, 5.7GW with planning permission and a further 6.5GW proposed. This story first appeared on our UK solar site, Solar Power Portal.

Energy storage has an ... In recent years, there has been a surge in the pipeline of battery energy storage projects. Figure 2 shows the specific capacities under different phases of development for battery storage in the UK in 2022. The pipeline of pumped hydro storage is shown in Figure 2. Currently, there are 2.7 GW of operational PHS and ...

Battery energy storage systems (BESSs) use batteries, for example lithium-ion batteries, to store electricity at times when supply is higher than demand. ... The government set out how it intends to secure the UK's battery supply chain and improve the resilience of the UK's critical minerals supply in its UK battery ... Subscribe to receive ...

In this week's Charging Forward, Moray Council has approved a 50 MW battery energy storage system (BESS) in Scotland, developers submit plans for major battery projects at Teesworks and Italian ...



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The UK government's 2030 target for decarbonising the country's electricity grid has been bolstered by development approval for a 228 MW battery energy storage system (BESS) in Scotland and what is claimed to be the ...

Clearstone Energy have been granted approval for two major battery storage developments in Suffolk, and Sussex, totalling 700MW of capacity. The "Bramford Storage" ...

According to Solar Media, by the end of 2022, the UK had approved 20.2 GW of large-scale energy storage projects, which could be completed within the next 3-4 years. ...

Fidra Energy, a European battery energy storage system (BESS) platform headquartered in Edinburgh, UK, has secured planning consent to build and operate its ...

By Scott Poulter. The UK is known to be one of the world's most active markets for battery energy storage. In 2022, the market saw a record 800 MWh of new storage capacity being added. This took the UK's operational energy storage capacity to 2.4 GW and 2.6 GWh, spread across more than 160 sites.

The UK's largest battery energy storage system has gone live in North Yorkshire. Lakeside Energy Park is a 100MW facility in Drax, near Selby, which can provide power to about 30,000 homes a day ...

Fidra Energy, a European battery energy storage system (BESS) platform owned by EIG, has received planning consent to develop a 1.4GW battery storage project at Thorpe ...

In September last year, UK-based battery energy storage asset owner and operator Varco Energy chose Fluence Energy UK Ltd., a subsidiary of Fluence Energy, Inc. to provide one of its first battery-based energy storage systems in the UK - the 57 MW / 137.5 MWh project, named Sizing John, will be deployed at a substation in Rainhill, south of ...

Paul Sawbridge, director of Sandbrook Capital BES Ltd, adds: "The capability to store and distribute renewable energy efficiently is paramount to achieving the nation's net-zero targets, this approval represents a further significant milestone for us and the broader energy sector in the UK. We can't thank Graeme and his team enough."

With just over 5GW of capacity currently under construction, we could reasonably expect battery storage capacity in the UK to reach over 10GW in the next few years.

UK-headquartered solar PV and battery storage project developer and operations and maintenance (O& M) provider Anesco has just had its plan for the facility, in Essex, England, approved by a local authority. Adjacent to a 132kV substation, the project's battery energy storage system (BESS) will comprise 28 battery units.

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The change in the law should make it much easier for energy storage schemes to get planning permission, to attract funding more easily, and enable them to be built more quickly. The recent UK Battery Storage Project ...

National Grid said this is part of a new approach which removes the need for non-essential engineering works prior to connecting storage. The freed BESS capacity adds to the 10GW of capacity unlocked for power generators with "shovel ready" projects revealed in September 2023. This is the latest attempt to solve the grid connection woes that are currently ...

Momentum picked up in 2022, with the UK adding a record 800 MWh of new utility-scale energy storage. This was the highest annual deployment on record, and in the same year, the national energy storage pipeline jumped by 34.5 GW. To put the pace into perspective: in 2017, the UK had just one 50 MW battery project.

Fidra Energy chief executive Chris elder said the Thorpe Marsh BESS is "one of the most exciting infrastructure projects in the world". "As the largest battery energy storage site in the UK ...

The development securing planning permission comes after RES announced 14 May that it had sold an 80MW UK battery storage project to investment fund Gore Street Energy Storage Fund, with this asset also ...

The graphic above shows the built capacity of energy storage in the UK by project size by year where 2022 deployment levels exceeded the 2021 annual installed capacity of 617MWh. ... There is now 2.4GW/2.6GWh across ...

During 2022, the operational capacity of energy storage sites in the United Kingdom increased by nearly 800MWh, representing the highest annual deployment rate to date. The first 50MW/100MWh (50MW with a two-hour duration) project, Stonehill Energy Storage, developed by Penso Power, was installed in the first quarter of 2022.

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