

# UK wind power storage projects



## Overview

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A total of 10 per cent of the UK's wind power was curtailed in 2024 due to inadequate grid infrastructure and a lack of energy storage – more storage could save UK up to £3.5 billion per year, says one study, with Orsted's incorporation of a 300MW / 600MWh BESS into Hornsea 3. The UK government is aiming to build up to 27 gigawatts of battery storage by 2030 (in 2023, battery capacity was estimated to be around 5 gigawatts). There are applications totalling 59 gigawatts of battery storage in the connections queue for 2030. The Thorpe Marsh project will deploy 1. Drax estimated this was sufficient energy to supply over two million households, and this is the sheer magnitude. Ofgem has advanced 77 large-scale battery and hydro storage projects to the final stage of its new government-backed “super battery” programme, aimed at cutting wasted renewable power and unlocking billions in green investment. The Long Duration Electricity Storage (LDES) scheme will enable surplus. The United Kingdom is the best location for wind power in Europe and one of the best in the world. [2][3] The combination of long coastline, shallow water and strong winds make offshore wind unusually effective. [4] By 2025, the UK had over 12,000 wind turbines with a total installed capacity of 32.

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### UK Policy Unlocks 77 Long-Duration Energy Storage Projects for Grid

The UK energy regulator, Ofgem, has advanced 77 Long Duration Energy Storage (LDES) projects into the next phase of its 'cap and floor' revenue support scheme.

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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 currently wasted, ...



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### Ofgem Backs 77 Energy Storage Projects to Boost UK Renewables

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

Storing North Sea wind power is a major challenge for the UK. Work will start on the world's most powerful battery to store wind and other renewables after its developer secured more ...

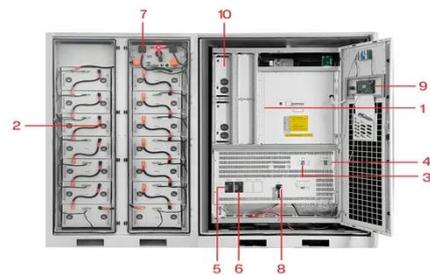


## UK invests £200M in battery storage to save wind power

The country experiences a disastrous energy crisis, with 10 percent of the 400 million worth of wind power in Britain going to waste in 2024 because of insufficient grid infrastructure, which ...

## UK: Storage need intensifies as wind curtailment ...

A total of 10 per cent of the UK's wind power was curtailed in 2024 due to inadequate grid infrastructure and a lack of storage.



- 1 PCS Module
- 2 Battery room
- 3 Grid side circuit breaker
- 4 Load side circuit breaker
- 5 OPV1 side circuit breaker
- 6 OPV2 side circuit breaker
- 7 High Volt Box
- 8 BAT side circuit breaker
- 9 LCD display screen
- 10 MPPT

## Is the UK's energy storage growing fast enough?

Large-scale battery systems, pumped

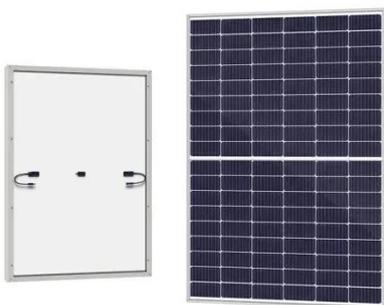


hydro and other storage methods could capture the excess energy injected by windfarms on windy days and release it when needed. But are these ...

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## Renewable energy project approvals hit record high in GB in 2025, ...

The energy capacity of new battery, wind, and solar projects that received approval climbed to 45GW this year, 96% higher than in 2024, according to data from Cornwall Insight.



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## 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 funding to ...

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## Wind power in the United Kingdom

In 2022 three-quarters of the UK population supported further wind generated power in the UK and the majority would be happy for a wind farm to be built near them.



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