

Where is Ireland's first grid-scale battery energy storage system based?

Statkraft has announced that it is to build Ireland's first four-hour grid-scale battery energy storage system (BESS) in Co. Offaly. The 20MW BESS, supplied by global market leader in utility-scale energy storage solutions and services, Fluence, will be co-located with Statkraft's 55.8MW Cushing Wind Farm.

Where is Ireland's First 4-hour battery energy storage system located?

Co-located at Statkraft's Cushing Wind Farm in Co Offaly, this project will be Ireland's first 4-hour battery energy storage system. Statkraft is a leading company in hydropower internationally and Europe's largest generator of renewable energy. The Group produces hydropower, wind power, solar power, gas-fired power and supplies district heating.

How can a battery storage facility benefit Northern Ireland?

Renewable energy is now supplying more than 40% of our annual electricity needs in Northern Ireland. Battery storage facilities like Castlereagh will help match intermittent generation from renewable energy sources, such as wind and solar, with the peaks and troughs of real time electricity demand.

How long can a battery storage system last in Ireland?

This battery-based energy storage system is designed to provide 20MW for up to four hours. Most grid-scale batteries currently deployed in Ireland range from 30 minutes to two hours of energy storage capacity. The longer the duration of battery energy storage capacity, the more benefits it can offer.

How can a battery energy storage system improve Ireland's power grid?

When the demand for electricity is high, the stored energy from a battery energy storage system can be released into the grid to help meet the demand. This can contribute towards reducing Ireland's reliance on fossil fuels and improving the stability of the power grid.

What is Energy Storage Ireland?

Energy Storage Ireland is a representative association of public and private sector organisations who are interested and active in the development of energy storage in Ireland and Northern Ireland. Delivering the energy storage technologies to enable a secure, carbon free electricity system on the island of Ireland by 2035.

It is located at Poolbeg Energy Hub, where ESB - around 95% owned by the Irish state with the remaining stake held by its employees - is planning to deploy a combination of clean energy technologies, including offshore wind, hydrogen, and battery storage, over the coming decade.

Battery energy storage systems (BESS) have the capacity to support our energy needs by providing a consistent, reliable source of renewable electricity. FuturEnergy Ireland is proposing to use an iron-air battery

capable of storing energy for up to 100 hours at around one-tenth the cost of lithium ion across the battery energy storage portfolio.

Statkraft built the first grid-scale battery in Ireland at Kilathmoy. This is an 11MW, 5.6MWh lithium-ion battery which commenced operation in April 2020. The battery is contracted to provide DS3 System Services to the Irish Transmission System Operator, EirGrid.

The Poolbeg Battery Energy Storage System in Dublin went into operation in November 2023 and has the capability of providing 75MW of fast-acting energy storage. It is located at Poolbeg Energy Hub where we plan to deploy a combination of clean energy technologies, including offshore wind and hydrogen over the coming decade.

We represent Ireland and Northern Ireland's energy storage industry bringing together exciting new technologies and innovations that will help decarbonise our energy system and support a strong, stable, electricity grid.

The grid-scale project could be capable of providing back-up energy to the equivalent of over *135,000 homes in Northern Ireland for up to two hours at a time. If approved for final delivery, ...

Energia's first grid-connected battery energy storage system (BESS) is now operational on our Castlereagh site, just outside Belfast. The facility is located near the existing Castlereagh substation and utilises the local electrical ...

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Ireland has set a target of generating 80% renewable electricity by 2030. Deployment of battery storage will be capable of responding in milliseconds to frequency changes, importing or exporting electricity from the grid as needed, ...

The grid-scale project could be capable of providing back-up energy to the equivalent of over *135,000 homes in Northern Ireland for up to two hours at a time. If approved for final delivery, the project will deliver significant economic and job creation benefits to Mid-Ulster and Northern Ireland during construction.

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Horizon Offgrid Energy is Ireland's leading battery rental expert, dedicated to offering a wide range of mobile



Battery energy storage manufacturers Ireland

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