

**JH Solar**

# **Irish harbour energy storage power station project**



## Overview

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What is Ireland's energy hub at Cork Harbour?

Ireland's Energy Hub at Cork Harbour includes: A zoned Special Policy Area of 388 Ha (960 Acres) at Whitegate, prioritised for major, large-scale energy and renewable energy related development, including port related activities and bulk storage and processing activities.

What will a battery plant do for Ireland?

The battery plant will add storage capacity to the ESB grid, providing what's known as 'grid stability" (the capacity to instantly add power to cover drops from other sources or surges in demand) and deliver more renewable capacity to Ireland's electricity system.

How many MW of battery storage capacity are there in Ireland?

We currently have more than 300MWs of battery storage capacity in operation in Ireland, making it one of the largest battery portfolios in Europe. We plan to develop a pipeline of large scale battery projects, as well as additional renewable enabling technologies.

What is the Cork Harbour project?

The Cork harbour project is the first of a series of major investments in the pipeline to deliver grid-scale battery technology at sites in Co Cork and Dublin.

Which battery energy storage systems are available in Ireland?

The Kylemore Battery Energy Storage System in Dublin went into operation in 2023 and has the capability of providing 30MW of fast-acting storage. The South Wall Battery Energy Storage System went live in 2023 and has the capability of providing 30MW of fast-acting energy storage.

Will ESB deliver 300MW of battery capacity in Ireland?

"Today marks another important milestone for Aghada and ESB, in commissioning this fast-acting battery unit that will support the national grid. This is ESB's first battery project in Ireland – this and four other battery projects now in development by ESB will deliver 300MW of battery capacity within the next two years.

## Irish harbour energy storage power station project

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### ESB installs Ireland's first giant green batteries in ...

Cork's fast-growing renewable energy sector has scored another first for Ireland - with the opening today of a major battery plant at Aghada in the lower harbour, for the storage of power generated by wind ...

### Pumped storage: Scope for further development

Ireland could develop an additional 360MW of pumped storage hydroelectric capacity by 2030 to mitigate security of supply concerns in relation to electricity. The deployment of [...]



### Great Island Combined Cycle Gas Turbine Power ...

The 460MW Great Island combined-cycle gas turbine (CCGT) power plant is located near Waterford Harbour in Great Island, Wexford County, Ireland. It replaces the 240MW fuel oil unit at the existing ...

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## Siemens to conduct feasibility study on landmark Irish Sea energy

Siemens Energy has been appointed to carry out a feasibility assessment on a proposed large-scale energy storage and decarbonisation development in the Irish Sea.



## MAC

Maritime Area Consent Applications The table below sets out applications for Maritime Area Consents (MACs) with MARA for determination. Details in relation to MAC determinations are available to view here. Reference No. ...



## [Ireland's Energy Hub - Energy Cork](#)

Ireland's Energy Hub, located around Cork Harbour, comprises the country's most strategically important cluster of energy infrastructure, businesses and research facilities.



## ESB launches 150MW/300MWh Irish BESS

Irish state-owned electricity company ESB has opened a 150MW/300MWh battery energy storage system (BESS) at its Aghada site in Co Cork. The project is the latest ...



## **Harbour Energy's Viking CCS Project Aims to Transform**

Led by Harbour Energy, with support from bp, Viking CCS is a Humber-based project working to develop the infrastructure to transport and store CO2 in secure offshore ...

## **Presentation**

Listed on AIM in December 23 An energy transition company with a unique strategy - integrated energy solutions MESH - foundation large scale energy storage project located in Irish Sea ...



## **SSE buys rights to develop battery energy storage project in Offaly**

SSE Renewables has bought the rights to develop a battery energy storage project in Co Offaly that could be up and running by the end of the decade. The Thornsberry ...

## Irish Energy Net

Online Map IrishEnergy Net offers an up to date online map with all consented, proposed, under construction and operating utility-scale energy and renewable energy projects in Ireland. Our online map is the best ...



## Kestrel Project

The Kestrel Project has embarked upon an integrated Irish energy system modelling and defined storage requirements for renewable gas and green hydrogen, from today through to 2050. This energy system modelling is ...

## **LNG developer secures 600 MW power plant, 120 ...**

Developer Shannon LNG has obtained permission from the Irish planning authorities for a 600 MW regasification unit and a 120 MW battery energy storage system (BESS) in County Kerry. It is unclear



### **ESS**



## **Acorn project signs MoU with Uniper to ship and store captured CO2**

The Acorn Partners - Storegga, Shell U.K Limited ("Shell"), Harbour Energy and North Sea Midstream Partners ("NSMP") are pleased to announce the signing of a ...

## Oneida Energy Storage

Oneida Energy Storage facility is a 250 MW/1,000 MWh lithium-ion battery energy storage facility, representing the largest grid-scale battery energy storage facility in Canada and within the top five clean energy storage ...



## Battery Storage

We currently have more than 300MWs of battery storage capacity in operation in Ireland, making it one of the largest battery portfolios in Europe. We plan to develop a pipeline of large scale ...

## **Work begins on £90m Irish offshore wind terminal**

Image source: Tens of millions of pounds are being poured into making this Irish port a shining new terminal for the offshore wind industry. Belfast Harbour has financed and ...

### **GRADE A BATTERY**

LiFePO4 battery will not burn when overcharged, over discharged, overcurrent or short circuited and can withstand high temperatures without decomposition.



## Cork Harbour to get Hydrogen Plant

Cork County Council is on the verge of a pivotal decision that could shape Ireland's future of clean energy. In early March, the council is expected to rule on a planning application submitted by ESB Networks ...

## Great Island Power Station

The gas-fired station entered commercial operation in 2015, replacing the former oil-fired station at the site. It is now one of the cleanest and most-efficient power stations on the island of Ireland, generating enough ...



## **SSE Thermal takes FID for 300MW Tarbert power ...**

SSE Thermal has announced its final investment decision (FID) to construct the 300MW Tarbert next-generation power station in County Kerry, Ireland. The new power plant will operate entirely on ...

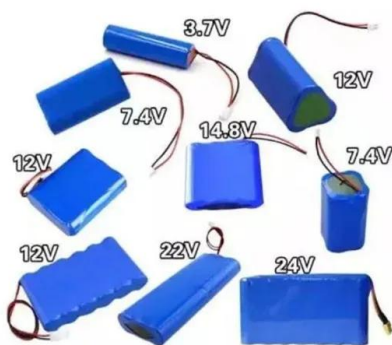
## Platin Power Station

The proposed Open Cycle Gas Turbine (OCGT) Generating Plant, which was awarded planning consent in early 2025, could help address capacity constraints, secure Ireland's energy needs, ...



## **Proposed Pelican Point Battery Energy Storage ...**

ENGIE is developing a Battery Energy Storage System near its Pelican Point Power Station in Outer Harbour, Adelaide. Once operational, the battery will have the capacity to store up to 200MW of energy, which is enough to ...



## Silvermines Hydro Frequently asked questions

The project is the development of grid-scale pumped hydroelectric power station that will store and generate clean energy on-demand for the Irish electricity grid. The project capacity is ...

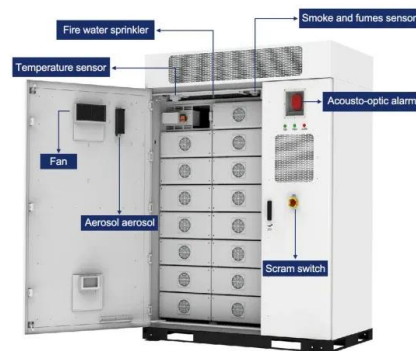


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## Home , Eirgrid

EirGrid is leading Ireland's transition to a low carbon future. As we enhance the electricity system, we are delivering critical infrastructure that underpins greater energy independence, but as importantly, will ...



## Turlough Hill Power Station

The Turlough Hill Power Station is a pumped storage power station in Ireland, owned and operated by the Electricity Supply Board (ESB). [2] Like all pumped-storage hydroelectric ...

## Bord Gáis Energy joins ESB and dCarbonX in ...

Both ESB and Bord Gáis Energy operate significant electrical generation capacity at their onshore Aghada and Whitegate gas-fired power stations in Cork. The integration of essential large-scale ...



## Energy Storage Ireland

Who we are // 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. Our vision ...

## Kestrel Project

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## Battery Storage

Aghada Battery Project, Co Cork We commissioned our first battery energy storage system at our Aghada generating site in Co Cork in 2022, capable of generating 19MW. We added a second battery on the same site in 2024 ...

## Cork Harbour's first green hydrogen facility in the ...

EI-H2 selected Cork's Lower Harbour as its initial location due to its strategic location. The facility is intended to aid commercial clients that are attempting to lower their carbon footprint and will increasingly ...



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