



# LEGACY ENERGY STORAGE SYSTEM PROPOSAL

## COMMUNITY INFORMATION EVENT



Novus Renewable Services is working on a proposal for an Energy Storage System (ESS) on land at Bersham, near Rhostyllen. Novus will work with Innova Renewables who will construct and operate the ESS which will connect into the nearby Legacy National Grid substation with a power rating of 1,025 megawatts (MW). This ESS could meet the power demands of approximately 2,406,600 homes continuously for a two hour period.

We pride ourselves on working with local communities to deliver high quality developments to ensure those living closest to our projects see the benefits. This leaflet invites you to the Community Information Event which will display and explain our plans for the ESS and gather your feedback.

Project information is also available on our website:  
[legacyess.co.uk](https://legacyess.co.uk)

### Get Involved

We welcome all to attend the Community Information Event on

Thursday 11th May 2023 at:

Rhostyllen Parish Hall, Rhostyllen, Wrexham, LL14 4AR

Drop in at any time between 1:30pm and 5:30pm

If you are unable to attend the Community Information Event, please contact us using the details on this leaflet and we can make arrangements to speak to you.

If anyone would like to view this document in Welsh Language please email  
[info@novus-rs.co.uk](mailto:info@novus-rs.co.uk)

### About Novus

Novus Renewable Services is a leading UK solar PV and energy storage development company. We are working in partnership with Innova Group who will build, own and operate the Energy Storage development. Our team has extensive experience delivering and operating renewable energy projects across the United Kingdom.

From early in the process of developing all our sites, we like to reach out to the community which will host the development and set out the local benefits this can bring. This includes setting up a Community Benefit Fund and a Charitable Fund, which would be funded by the project with an annual sum, based on the installed MW capacity of the site, paid into each fund for the entire lifespan of the project.

**£51,250**

To Community Benefit Fund



per year

**£20,500**

To Charitable Fund

### OUR COMMUNITY PROMISE

The above figures are based on the contributions which will be made every year for the 1,025MW project of £50 to the local community and £20 charitable donation per MW installed



[info@novus-rs.co.uk](mailto:info@novus-rs.co.uk) | 01242 388633 | [/novus-renewable-services](https://www.linkedin.com/company/novus-renewable-services)

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# Legacy Energy Storage System Proposal

We are currently preparing a planning application for an Energy Storage System on land at Bersham, near Rhosyllten.

The proposal will enable up to 1,025MW of electricity to be charged or discharged when needed to balance the supply and demand of energy in the grid. The proposal will be connected to the nearby Legacy National Grid substation.

## Site Location

The ESS is proposed to be located in fields to the east of the National Grid substation and west of the A483. It is currently proposed that the development will be situated across two fields either side of the B5097.

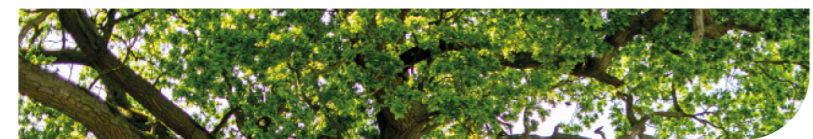
## Biodiversity Net Gain

Biodiversity Net Gain (BNG) will be delivered on-site through planting along the site boundaries and other appropriate areas. The planting plan is currently being established and a BNG assessment will form part of the planning application



## New Vegetation Planting

We will submit a detailed planting plan, which will include extensive landscaping including bolstering of the existing hedgerows. This could include a mixture of new woodland, hedgerows, grassland and shrubs. The exact mix of planting and details will be influenced by public feedback and through discussions with the Local Planning Authority.



## Access

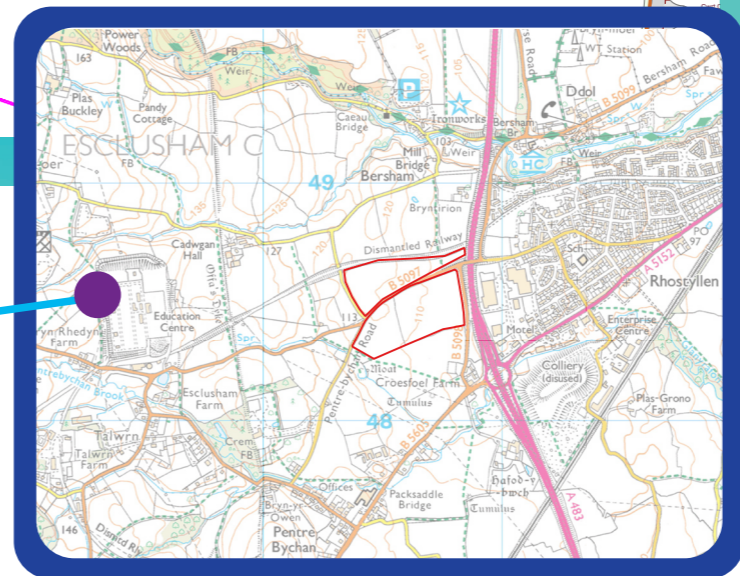


It is proposed that access to the northern and southern parcels will be from the B5097 and B5098 respectively. These will utilise and improve existing field entrances. The application will be supported by a Construction Traffic Management Plan, which will ensure suitable accesses are provided and that mitigation measures are implemented to reduce the effect of construction traffic on the local highway network.



## Point of Connection

The proposal will connect to the nearby National Grid substation. We are currently completing technical assessments to determine the most suitable cable route.



# Frequently Asked Questions

## Do we need energy storage developments?

The UK has a legally binding target to achieve net-zero by 2050 and the Welsh Government has set an ambitious target for Wales to meet 70% of its electricity demand from Welsh renewable electricity sources by 2030. This results in many low carbon and renewable developments being needed across the UK. Intermittency of renewables is a key characteristic to overcome, with their dependency on weather and the time of day. ESS, like this proposal, are leading the way in balancing demand and providing flexibility to the supply of electricity in terms of where it can be stored, and when it can be utilised. As well as allowing additional cheap indigenous renewable electricity, more energy storage will also avoid costly grid reinforcement, prevent wasted energy and reduce gas produced electricity.

## What do ESS do?

The ESS will be able to charge up and store electricity during times of oversupply on the network. During periods of peak demand, or during unexpected drop in generation, the ESS is able to export electricity back into the national grid. The system can operate without delay and can play a role in maintaining grid frequency and stability.

## Why do we need to develop the ESS here?

The nearby Legacy National Grid substation has available capacity and infrastructure to allow this project to be connected and will have an important role with new offshore wind planned off the coast of Wales. The land is available for development with an engaged landowner. The positioning of the site is required to be near the National Grid substation to enable a short cable connection, minimising transmission losses.

## Why do we need a substation?

A new substation is required between the ESS and the National Grid substation. This would step up / step down the voltage between the site and grid network and will be connected via an underground cable.

## How is this linked to renewable energy generation?

The proposal allows for energy to be stored at times of low demand and released at times of high demand. Renewable energy generation is intermittent and ESS help to balance the grid by storing electricity at times of peak demand. Energy storage allows us to make better use of our existing electricity supplies and for electricity generated from renewable energy sources to be fully utilised.

## Will it emit noise?

The equipment will emit noise. We are currently working with our noise consultants to confirm the most appropriate layout and any mitigation measures to ensure the noise emissions from the site do not cause significant impacts.

## How safe is the ESS?

ESS are a safe technology and there are many sites across the UK operating today. The development will incorporate a number of embedded safety mitigation measures to ensure the development operates safely and in accordance with regulatory requirements and the requirements of the local Fire Service.