

Moyvannan 110 kV Substation

Moyvannan, Kiltoom,
Co. Roscommon



Dear Householder,

Energia Renewables and Galetch Energy Developments are working on plans for a 110 kV transmission substation in the townland of Moyvannan, Kiltoom, Co. Roscommon.

The proposed Moyvannan 110 kV Substation will facilitate the export of renewable energy from the Seven Hills Wind Farm project into the national grid. This will help Ireland to reach its 80% renewable electricity target by 2030, reducing our reliance on fossil fuels and increasing security of energy supply.

This information brochure provides an overview of the proposed substation development. A planning application is due to be submitted in the coming months.

Please don't hesitate to contact the project team with any questions you may have.

Yours sincerely



Tony Gallagher
Project Manager
Energia Renewables

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1. Meet the team



Energia Renewables

Energia Renewables are part of the wider Energia Group - a modern, customer-centric utility provider, focusing on renewable technology. We are committed to our customers and trusted by thousands of homes and businesses throughout Ireland to meet their needs in an evolving energy environment. We are a leading developer and operator of 16 onshore wind farm sites across the island of Ireland, generating over 350 MW of green electricity.

The Group's ongoing €3 billion 'Positive Energy' investment programme is developing onshore and offshore wind, solar, battery storage and green hydrogen production.

It is anticipated that this renewable energy programme will add 1.5 GW of additional renewable capacity to the system by 2030, facilitating the achievement of Climate Action targets.

We have aligned our responsible business activities with the UN's Sustainable Development Goals and are a Business Supporter of the All-Ireland Pollinator Plan, promoting pollinator-friendly land management on our wind farms.

Galetech Energy Group

Galetech Energy Developments (GED) and Energy Services (GES) are part of the wider Galetech Energy Group, an Irish-owned renewable energy company with our headquarters located in Stradone, Co. Cavan. Our multi-jurisdictional team comprises over 130 people and our expertise spans the entire renewable sector, including development, construction and operation.

GED has been involved in the delivery of in excess of 500 MW of renewable energy developments on the island of Ireland and has a global development pipeline of over 3 GW, including onshore and offshore wind, solar and battery energy storage developments.

GES is an Irish multi-disciplinary renewable energy consultancy that specialises in the project management of planning, environmental and technical engineering services of renewable energy developments from project feasibility through to delivery and operation. GES combines the expertise of leading experts in wind farm design, planning and environmental assessment and has extensive experience in managing and coordinating the preparation of Environmental Impact Assessment Reports for wind energy and associated electricity grid and substation infrastructure developments. As Planning and Environmental Consultants for this project, GES will prepare an Environmental Impact Assessment Report, which will be submitted alongside the substation planning application.

The Team



Tony Gallagher
*Project Manager
Energia Renewables*

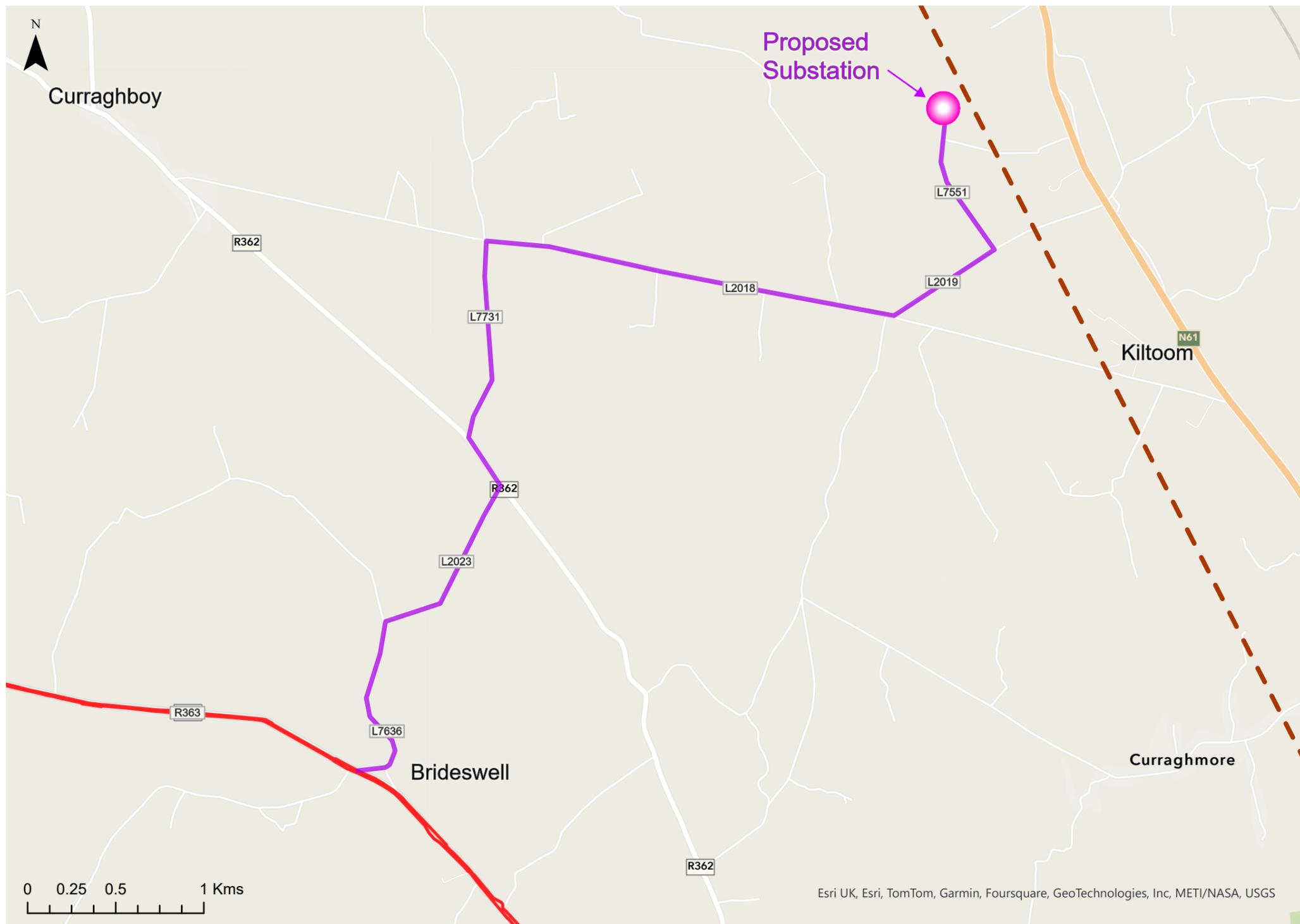


Simon Carleton
*Senior Planner
Galetech Energy
Services*



Rosy Billingham
*Community Liaison
Officer (CLO)
Energia Renewables*

2. Proposed substation location

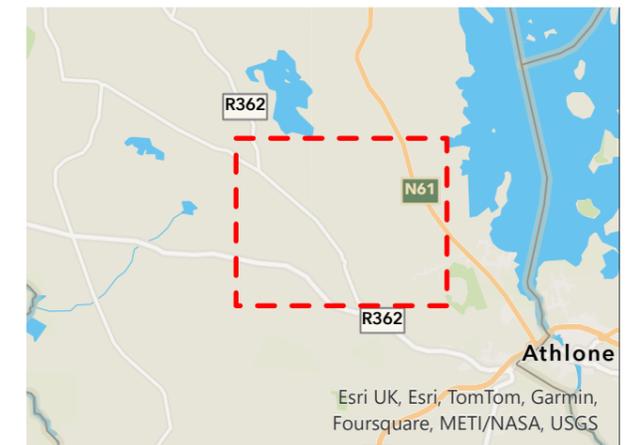


About the site

The site has undergone extensive technical and environmental evaluation and was selected due to its proximity to the Seven Hills Wind Farm project and the existing Lanesborough to Athlone 110 kV overhead transmission line for grid connection. It is accessible and close to main transport routes for the delivery of electrical components.

Legend

- Grid Route (Underground)
- Existing 110kV Lanesborough to Athlone overhead line



3. Project overview

The proposed Moyvannan 'loop-in loop-out' 110 kV Substation will connect to the existing Lanesborough to Athlone 110 kV overhead transmission line and will comprise:

- A compound enclosed by security fencing and gates, containing electrical plant and equipment
- An electrical control building containing electrical plant and equipment
- Two interface masts, approximately 15 m high, and underground electrical cable to facilitate connection to the existing 110 kV overhead transmission line
- Ancillary infrastructure within the compound will include busbars, line bays, surge arrestors, insulating and earthing equipment, circuit breakers, lighting stands and lightning masts
- Landscaping and screening measures, including the planting of hedgerows
- Approximately 7.5km of underground electricity cable, connecting the substation to an underground electricity cable at Brideswell as part of the Seven Hills Wind Farm development

The site has been subject to a comprehensive landscape and visual impact study to assess potential impacts on the landscape and sensitive receptors.

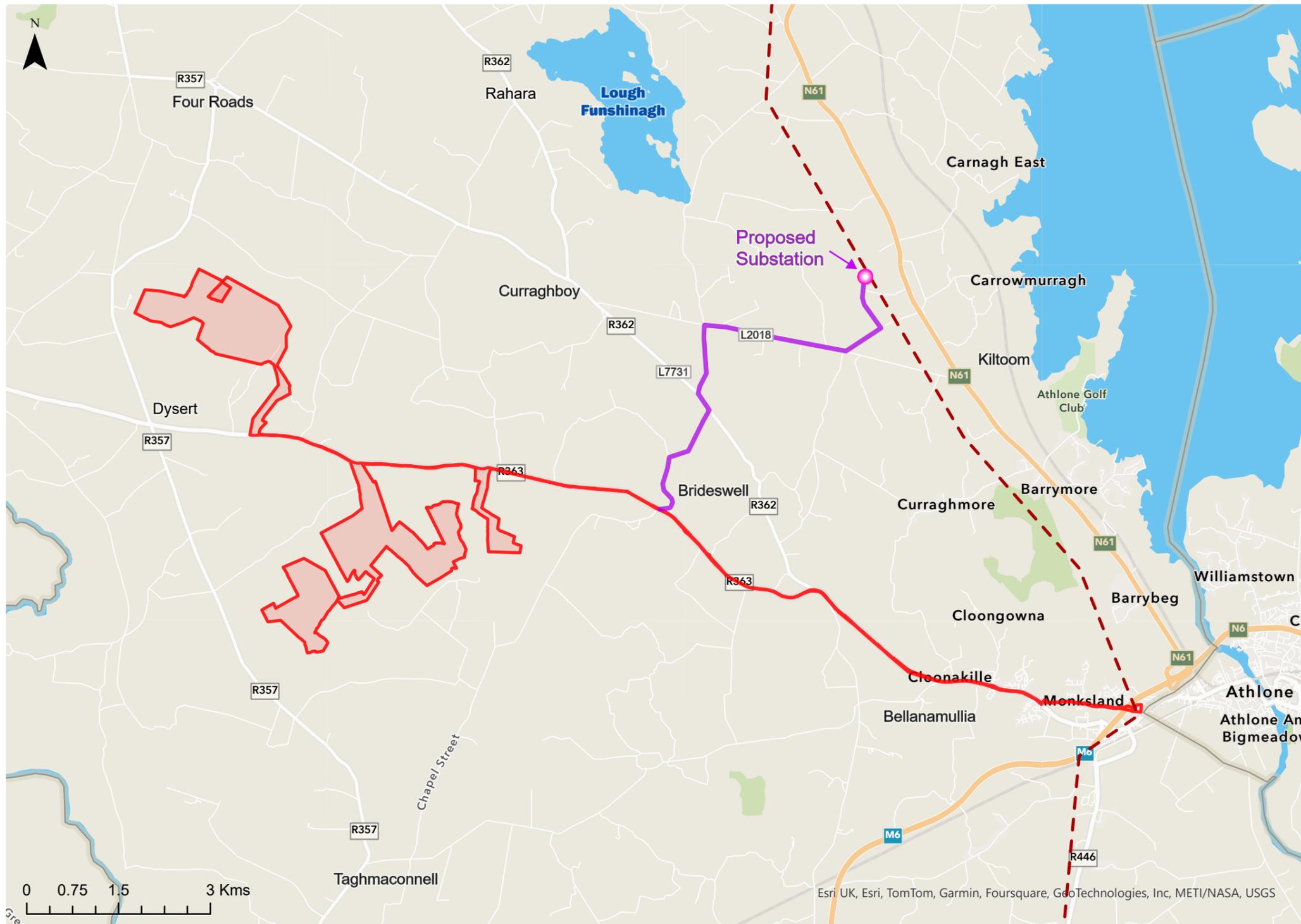
4. Environmental Impact Assessment Report

The proposed Moyvannan 110 kV Substation comprises grid connection infrastructure for the Seven Hills Wind Farm development. As a result, an Environmental Impact Assessment Report, or EIAR, is being compiled and will be submitted with this planning application.

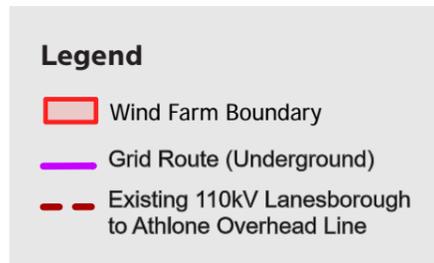
This report will examine the potential impacts which the proposed project could have on the environment and will include the following:

- Assessment of project alternatives
- Description of the proposed development
- Population and human health
- Biodiversity
- Land and soil
- Water
- Air quality and climate
- Landscape
- Cultural heritage
- Noise and vibration
- Material assets

5. Map of proposed substation and wind farm



The proposed Moyvannan 110 kV Substation will facilitate the export of renewable energy from the Seven Hills Wind Farm, which is still in development, into the national electricity network. Together, the wind farm and substation projects will help Ireland to achieve its 2030 Climate Action targets and increase security of energy supply.



6. Project website

We have created a project website, where you can view photomontages - or visual representations - of what the proposed Moyvannan 110 kV Substation will look like from key viewing points around the site. These photomontages can be viewed online at www.moyvannansubstation.ie.

Existing view



Visualisation of proposed Moyvannan 110 kV Substation

The retention of all existing hedgerows and boundary vegetation at the substation site will provide screening. The site will also benefit from additional landscape planting and screening post construction.



7. Planning process

A planning application for the proposed Moyvannan 110 kV Substation will be lodged in the coming months. We are currently in consultation with An Bord Pleanála (ABP) to determine if the project will be classified as a Strategic Infrastructure Development, or SID. Where projects are designated SID, the planning application must be submitted directly to ABP. Roscommon County Council will submit a report on the application to ABP as one of the statutory consultees.

Once the planning application has been submitted to ABP, all associated documents will be available to view at the following locations:

- Roscommon County Council offices
- The Offices of An Bord Pleanála
- An Board Pleanála Online Planning Portal
- Project website: www.moyvannansubstation.ie



8. Frequently Asked Questions

Why is this substation necessary?

Once operational, the proposed Moyvannan 110 kV Substation will facilitate the export of renewable energy from the nearby Seven Hills Wind Farm, which is still in development, onto the national grid. The substation will help Ireland to reach its Climate Action targets and reduce our dependence on fossil fuels, while increasing security of energy supply.

Why are you applying for another grid connection for the Seven Hills Wind Farm?

Recent electrical surveys of the capacity of the local electricity network have shown that a connection to the Athlone 110 kV Substation is now no longer feasible. The proposed 'loop-in loop-out' Moyvannan 110 kV Substation will connect into the existing Lanesborough to Athlone 110 kV overhead transmission line.

How big is the site?

The footprint of the Moyvannan 110 kV Substation compound will cover approximately 11,500 m², which is just over one hectare (circa 2.5 acres). The substation will be connected to the Seven Hills Wind Farm development via approximately 7.5 km of underground cable.

What about visual impact?

The retention of all existing hedgerows and boundary vegetation at the substation site will support the screening of potential residential views of the proposed substation. The site will also benefit from additional landscape planting post construction, which will support/infill existing hedgerow boundaries with appropriate native species in addition to the planting of new hedgerows.

Will new overhead lines be created?

No additional overhead lines will be installed. Two Cable Interface Masts will be installed beside the substation to facilitate a connection to the existing Lanesborough to Athlone 110 kV overhead line. All cables from this existing overhead line into the proposed Moyvannan 110 kV Station will be underground.

How close to properties will the substation and new infrastructure be?

The nearest residential property is approximately 345 m from the main substation site.

Does a substation pose health risks to humans or animals?

Some people have concerns about the electric and magnetic fields (EMFs) found near electricity lines and cables. When electric current flows, EMFs are produced but register in the extremely low frequency end of the electromagnetic spectrum. They occur in the home, in the workplace, or anywhere we use electricity. Natural sources of EMFs include the earth's geomagnetic field and electric fields from storm clouds. The consensus from health and regulatory authorities is that extremely low frequency EMFs do not present a health risk.

Is there audible sound from a substation?

Unlike many substations, the Moyvannan 110 kV Substation will not require a grid transformer. Noise surveys and reports will nevertheless be completed as part of the planning application and will be available for review.

Will the substation be lit up at night?

Construction will be scheduled to take place during daylight so that wildlife is not disturbed. If artificial lighting is required at any point during construction, it will be both temporary and directional and will only illuminate the section of the site where work is continuing. Once energised and operational, the substation will not be lit up at night. However, emergency lighting will be installed to facilitate emergency access outside daylight hours.

Will there be a fence around the substation?

A 2.6 m high palisade fence will be installed around the substation compound with an additional 1.4 m high post and rail fence positioned 3 m along the outer perimeter boundary in line with EirGrid policy.

What safety measures will be in place?

Safety is at the core of the development and construction of all our projects. The substation will be built to EirGrid and ESB Networks standards and will be subject to a rigorous design review process prior to the commencement of construction. The purpose of these design specifications and reviews is to ensure the safety of both the public and operational staff working in the substation.

How long will construction last?

Construction of the substation will take approximately 14 - 18 months. This will start with the initial site preparation works for access, followed by the construction of the substation compound and installation of the associated electrical equipment before the final commissioning and energisation stage.

What about construction traffic?

A traffic management plan will be put in place, setting out how we will manage construction traffic during the construction of the project. Our construction and community engagement team will liaise with local residents and businesses to minimise disruption.

How often will maintenance be carried out?

Scheduled maintenance is generally completed on a monthly basis, with more intensive maintenance scheduled annually.

What are the next steps?

We are engaging with the local community to provide residents living near the proposed Moyvannan 110 kV Substation site with project information and an opportunity to ask questions and have their say. Our Community Liaison team will be visiting homes and delivering information in the immediate area. We will also be holding a public information evening so that members of the public can drop in to meet the project team and find out more about the project. Residents can also contact our Community Liaison Officer by email or by telephone. Once submitted, planning application documents will be available to view at the following locations:

- Roscommon County Council offices
- The Offices of An Bord Pleanála
- An Bord Pleanála Online Planning Portal
- Project website: www.moyvannansubstation.ie

9. Working with communities

The proposed Moyvannan 110 kV Substation will serve the nearby Seven Hills Wind Farm development, which will operate a substantial community benefit fund to support local community groups, voluntary organisations and environmental projects.

Energia and Galetch already operate a number of renewable energy benefit funds, which are administered by independent charitable trusts. Our funds are set up in conjunction with local communities to ensure that our funding has a positive and lasting impact. We begin allocating community project grants, based on an annual application process, one year after the commencement of commercial operation and energy generation.



10. Working with schools

Once our sites are up and running, our Operations teams can facilitate school and college visits to our local wind farm developments. In the meantime, we're keen to arrange school workshops and classroom talks on renewable energy.

- Learn... about wind and solar energy
- Discover... how wind turbines and solar panels generate electricity
- Explore... the need for climate action and energy transition



11. Contact us

We want to hear from you

If you have any questions, please contact us:



Call our Community Liaison Officer on **087 9944952**



Email the project team at **clo@energia.ie**



And don't forget to check the website for updates:
www.moyvannansubstation.ie

