Fieldstown 110 kV Substation

Fieldstown, Rolestown, Co. Dublin

Update:
Construction
Phase

energia
Renewables

Dear Householder,

Energia Renewables are pleased to announce the start of construction of the Fieldstown 110 kV Substation in the townland of Fieldstown, near Rolestown, Co. Dublin.

This brochure provides an overview of the substation and grid route development, the construction timeline and nearby solar farm projects.

The Fieldstown 110 kV Substation will facilitate the export of renewable energy from Energia's solar projects in the local area 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 project will provide opportunities for a range of trades and services and we are keen to work with local businesses where possible.

During construction, we will operate a free text messaging service and will be posting regular updates on our website, **www.fieldstownsubstation.ie** to let local residents, businesses and road users know when there may be traffic management controls.

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

Yours sincerely,

Éanna Farrell
Solar Project Manager
Energia Renewables

Rosy Billingham
Community Engagement Manager
Energia Renewables

Contents

1. Meet the team

Energia Renewables

Energia Renewables are committed to investing in renewable energy sources. Energia is a leading developer and operator of renewable energy across the island of Ireland and supplies 21% of renewable electricity in Ireland.

Our growing renewable energy portfolio currently consists of 17 onshore wind farms, which generate over 375 MW of renewable electricity. We are currently developing onshore wind energy, solar technology, green hydrogen production and battery storage projects.

The Team

Austin Rafferty

Construction Project Manager

Éanna Farrell

Solar Project Manager

Rosy Billingham

Community Engagement Manager

Maria Eviston

Interim Community Liaison Officer

Suir Engineering

Suir Engineering has been appointed Electrical Engineering Contractor for the construction of Fieldstown Substation. Suir is a leader in the energy, power and renewables sector, delivering innovative and reliable solutions to meet the evolving demands of the industry. With extensive experience in grid stability, renewable energy integration, ICP works and advanced energy systems, Suir Engineering helps drive sustainable progress. From supporting emerging technologies to enhancing critical infrastructure, Suir Engineering is a trusted partner in powering the future, while ensuring resilience and efficiency in a rapidly changing energy landscape.

The Team

Willie Kelly

Suir Project Director

Craig Sheehy

Suir Project Manager

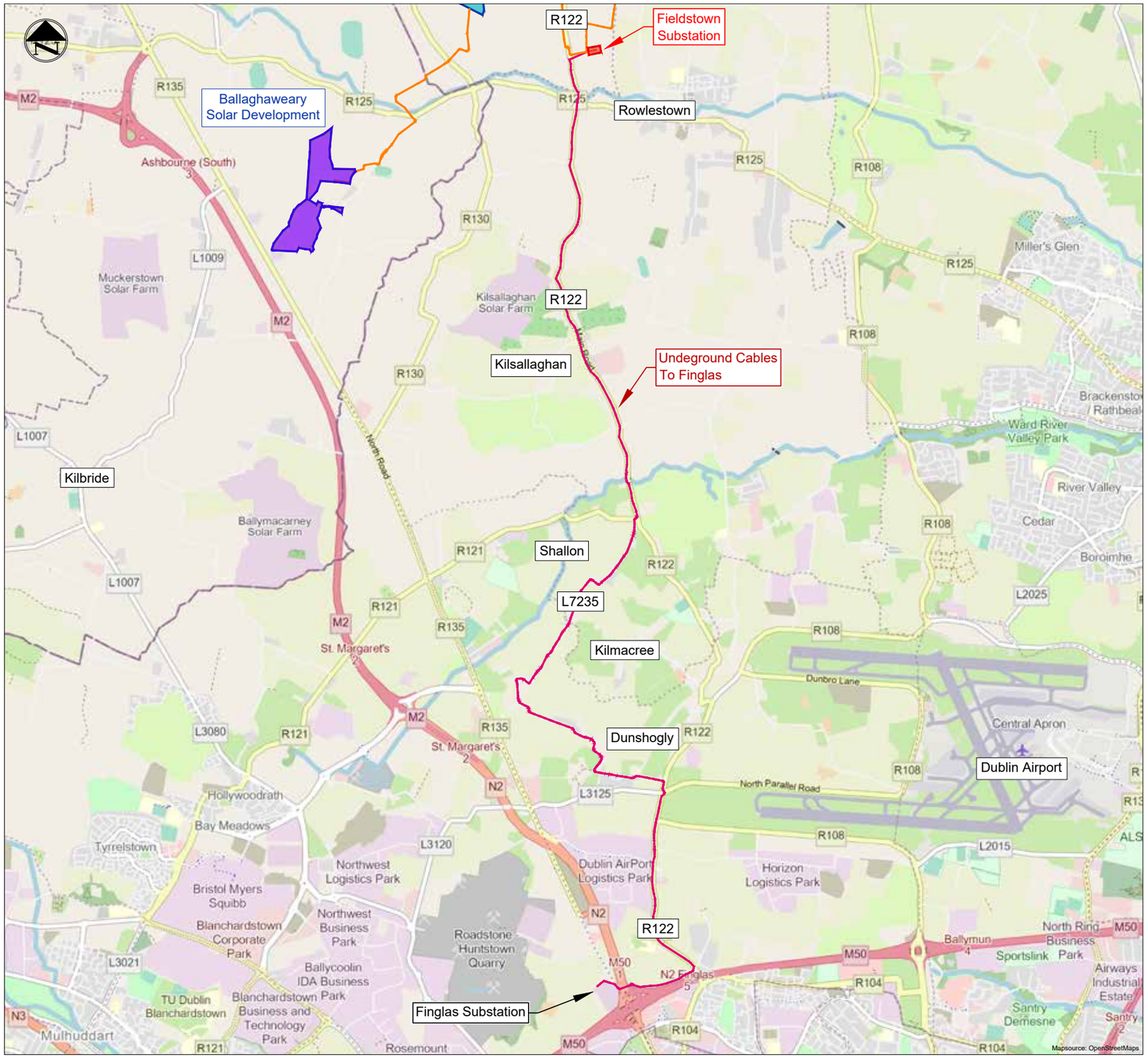
2. About the site

The Fieldstown Substation site is located near Rolestown in North County Dublin.

The new 110 kV substation will facilitate the export of renewable electricity to the national grid from Energia's Fieldstown, Ballaghaweary and Gerrardstown consented solar farm projects.

Energia will be investing around €45 million in this new substation development, which will make a significant annual rates contribution to Fingal County Council.

3. Substation and grid connection

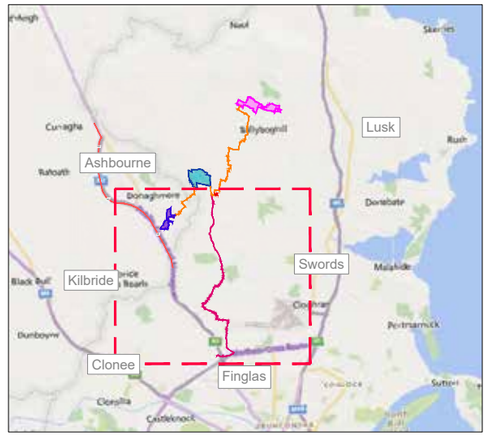


The grid route will connect the Fieldstown Substation to the transmission network at Finglas 110 kV Substation via an underground cable.

The grid connection is approximately 13.3 km in length and will follow the path of the R122 onto L7235 and L7231 before returning to the R122 and heading west alongside the M50, under the N2 to the boundary of Finglas Substation.

Key

- Fieldstown 110 kV Substation (Planning Granted)
- Gerrardstown Solar Development (Planning Granted)
- Fieldstown Solar Development (Planning Granted)
- Ballaghaweary Solar Development (Planning Granted)
- Underground Cables - Radials
- Underground Cables - Grid Route
- Motorway
- Regional Roads
- Local Roads



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4. Overview of Energia solar developments

Fieldstown Solar Farm

This consented solar development is located in the townlands of Fieldstown and Whitestown, near Rolestown in County Dublin. It will have a maximum export capacity of up to 75 MW.

Planning permission was granted in September 2021.

Ballaghaweary Solar Farm

This consented solar development is located in the townlands of Ballaghaweary and Greenogue, near Ashbourne, County Meath. It will have a maximum export capacity of up to 18.3 MW. Planning permission was granted in January 2022.

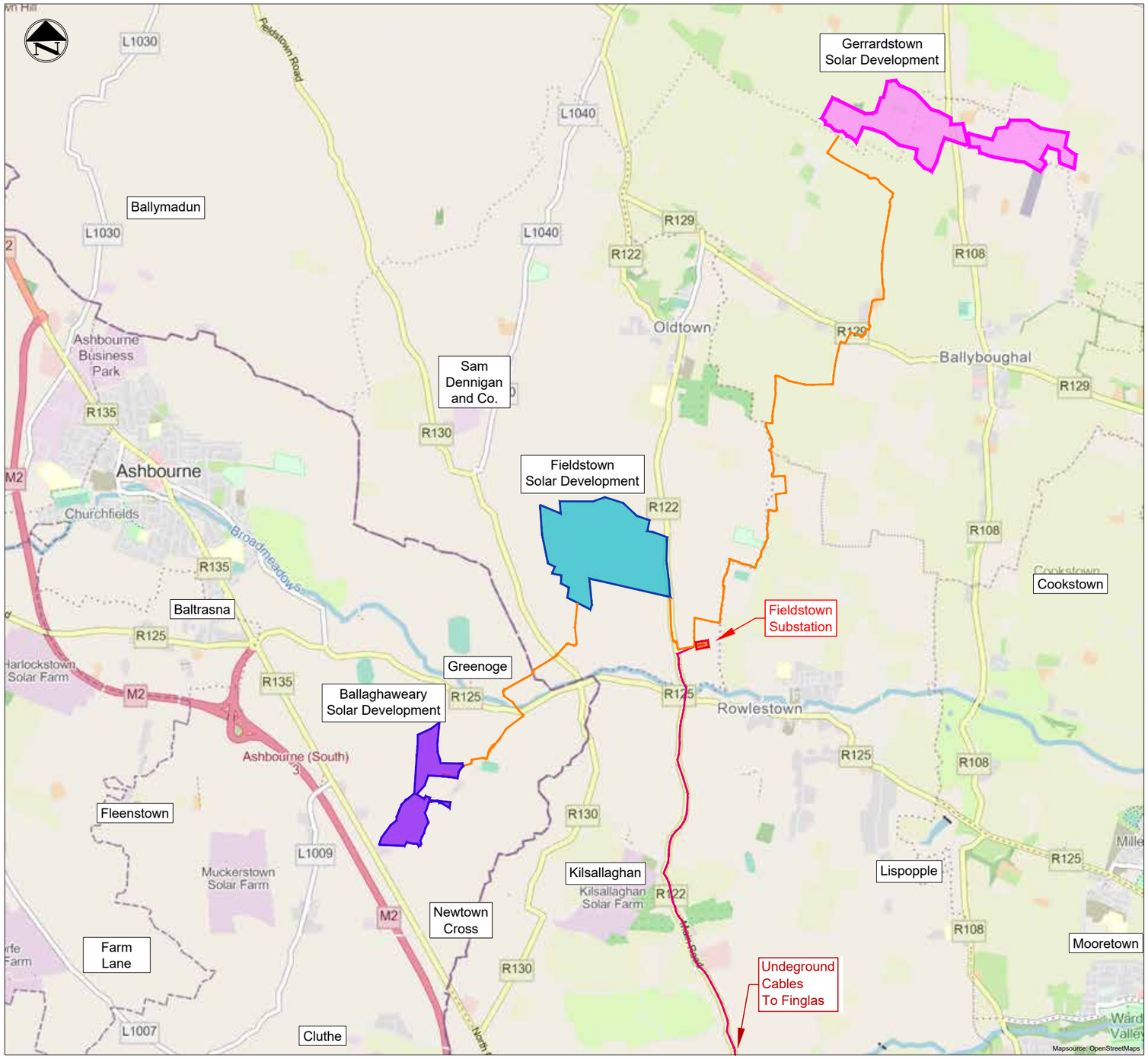
In September 2025, we submitted a planning application to Meath County Council with a series of proposed minor design amendments to the original planning application. However, the site size and boundary remain unchanged. Planning permission was granted for the amendment application in February 2026.

Gerrardstown Solar Farm

This consented solar development is located in the townlands of Gerrardstown, Brownstown and Kinoud, near Ballyboughal in County Dublin. It will have a maximum export capacity of up to 60 MW.

Planning permission was granted in October 2023.

5. Map of substation and consented solar developments



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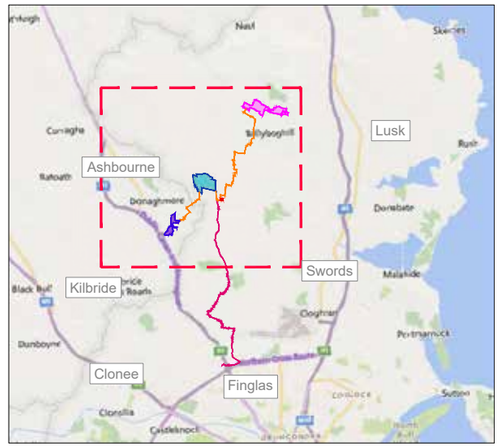

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6. Project timeline

2026

- April - Start of substation construction works
- June - Estimated start of underground cable work
- September - Estimated date for start of construction of Fieldstown, Gerrardstown and Ballaghaweary solar farms

2027

- March - First solar panel delivery
- December - Substation construction complete and first export of electricity to grid

2028

- September - Estimated date for start of official commercial operation

7. Construction updates

We will be posting regular construction and road works updates on our website.

We'll also be operating a free text messaging service for anyone who wants to sign up to get updates on their mobile. Just email **clo@energia.ie** with your name, phone number and Eircode.

Please ensure you put Fieldstown Substation in the subject line of your email.

To find out more, visit **www.fieldstownsubstation.ie** to get updates on the Fieldstown Substation progress.

We've provided a QR code for easy access to the web page on the back page of this brochure.

8. Working with local businesses

We want to ensure that the Fieldstown Substation and associated solar developments will benefit the local area. That's why Energia are keen to hear from local businesses, suppliers and contractors.

The substation will require a range of trades and services and we are eager to use local employment as far as possible. Business opportunities during the construction phase include:

- Construction material suppliers – Concrete, aggregates, building materials
- Plant hire – Excavation, earthworks, craneage
- Labour hire – Engineers, plant operatives, construction workers
- Service suppliers - Fuel suppliers, garage services, catering, hotels and other accommodation providers

Projects of this nature inevitably require some workers from outside the local area and both Energia and Suir are keen to hear from you if you have local accommodation to let.

9. Working with communities

Our Fieldstown, Ballaghaweary and Gerrardstown solar farms will operate community benefit funds, which will support community, voluntary organisations and environmental projects in the local area.

Energia already operates a number of wind farm funds which are all administered on our behalf by independent charitable trusts. Our total benefit fund investment to date is over €5 million – and growing.

Funds are designed in conjunction with the local community to ensure that our funding has a positive and lasting impact and prioritises sustainability goals. We welcome your thoughts on how the scheme couldbe structured and the type of projects it should prioritise.

The solar farm funds will begin allocating project grants one year after the start of commercial operation. We will advertise extensively through local media, local authorities and mailing list contacts.

St. Mary's Playschool Brookeborough, Pond Project

St. Francis' N.S. Barnesmore, Sensory Garden Project

10. Educational outreach

Once up and running, Energia will be happy to facilitate school and college visits to our local solar developments. In the meantime, the Energia Renewables and Operations teams are keen to arrange school workshops and classroom talks on renewable energy.

- **Learn**...about solar energy
- **Discover**...how we can harness the power of the sun
- **Explore**...the need for climate action and energy transition

11. FAQs

Why is this substation necessary?
Once operational, the Fieldstown 110 kV Substation will facilitate the export of renewable energy from three local Energia solar farms 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.

How big is the site?
The Fieldstown 110 kV Substation site will cover an area of approximately 1 hectare, with an approximate 13.3 km underground cable connecting the substation to the national electricity grid at Finglas Substation close to the M50.

What about visual impact?
The retention of existing hedgerows will help to screen potential views of the substation from nearby residences. The site will also benefit from additional landscape planting post construction, which will increase existing hedgerow boundaries with appropriate native species.

How close will the substation be to the nearest residences?
The nearest property is approximately 300 metres 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) near electricity lines and cables. When electric current flows, EMFs are produced but register in the extremely low frequency end of the electro-magnetic 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?
The main noise heard from a substation is a low frequency 'hum' produced by the transformer. A typical new substation transformer will have a similar noise level of an outdoor air conditioning unit at approximately 1 metre distance. The sound level diminishes at a greater distance. For example, the sound will be barely perceptible at the substation perimeter fence. Noise surveys and reports are completed as part of the planning application and are available for review.

Will the substation be lit up at night?
Construction is planned to take place during daylight hours 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 non-daylight hour access for emergency or non-routine repairs.

Will there be a fence around the substation?
A 2.6 metre palisade fence will be installed around the substation compound with an additional 1.4 metre concrete post and rail fence positioned 3 metres along the outer perimeter boundary in line with EirGrid policy.

What safety measures will be in place?
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. Safety is at the core of the development and construction of all our projects.

How often will maintenance be carried out?
Scheduled maintenance is generally completed on a monthly basis, with more intensive maintenance scheduled annually.

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.

12. Contact us

We want to hear from you

If you have any questions, please contact us:

Telephone our Community Liaison Officer on
+353 (0)87 994 4952

You can also email us at **clo@energia.ie**

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

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