

# Welcome to the Lyrenacarriga Wind Farm public information event

Innogy Renewables Ireland Ltd (innogy) is investigating the potential for developing Lyrenacarriga Wind Farm in the vicinity of Lyrencarriga townland and surrounding areas in Co. Waterford and Co. Cork.

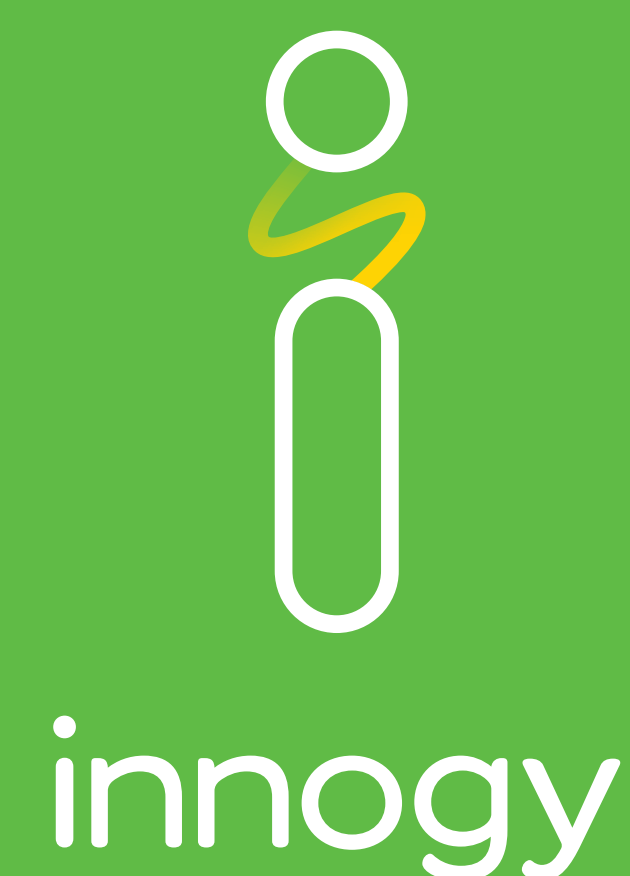
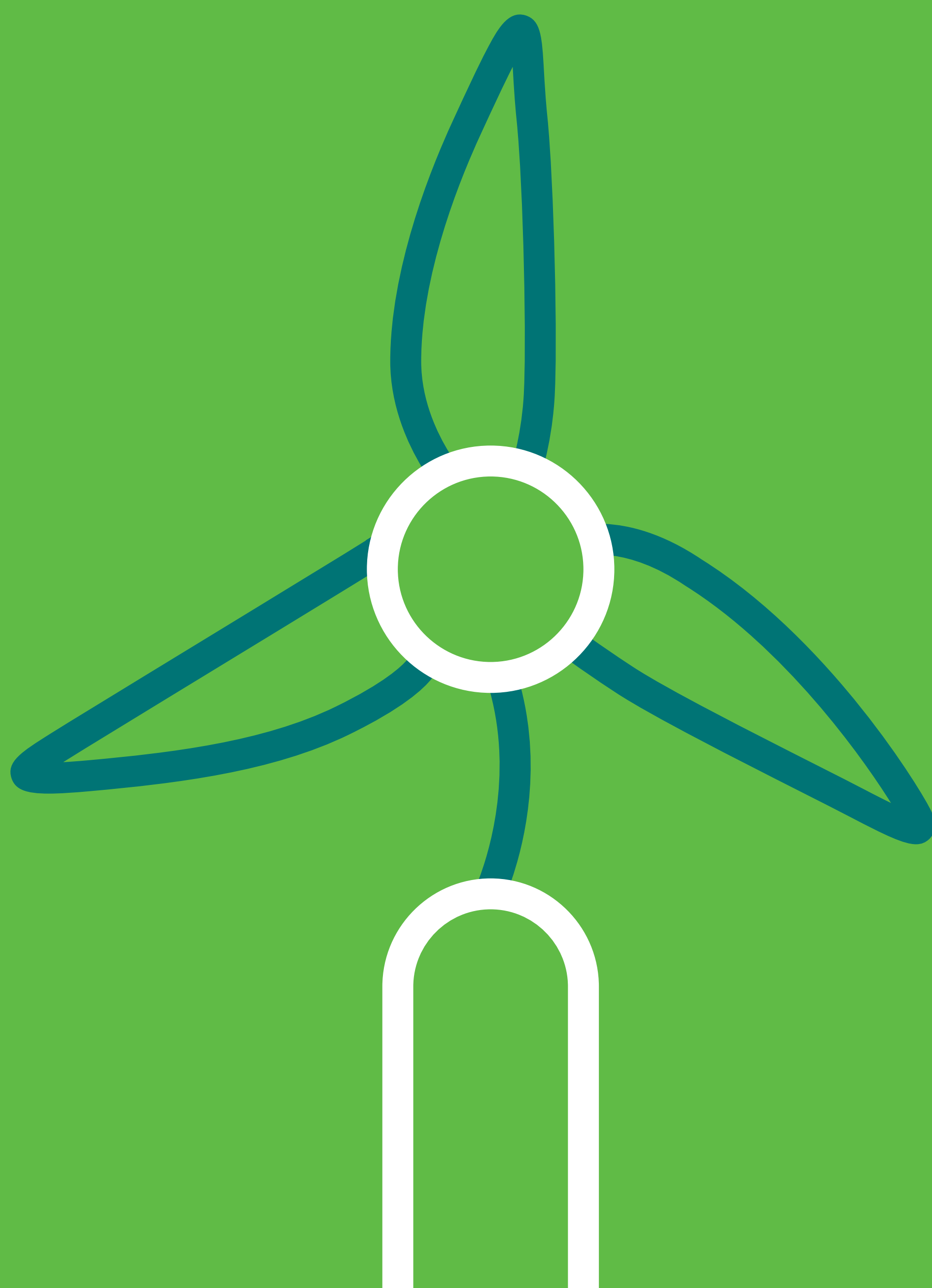
We installed a temporary anemometry (met) mast near Knockanore townland in Co. Waterford in March 2018. The met mast will monitor and collect wind speed data and wind characteristics to inform our feasibility assessment of development potential.

**The purpose of today's public information event is to:**

- Explain why this site has been selected;
- Describe the technical and environmental studies which will be undertaken;
- Enable members of the community to view the proposed site location map and the viable area for the wind turbines;
- Describe the potential benefits the proposed Lyrenacarriga Wind Farm could bring to the community;
- Provide you with the opportunity to ask the wind farm development team any questions you might have about the potential development and to give us feedback on the proposal.

All information presented here today can be viewed on line at [www.lyrewindfarm.com](http://www.lyrewindfarm.com)

If you have any questions about the information presented here today, please speak to a member of the development team who will be happy to help you.



# Who we are

Lyrenacarriga Wind Farm is a joint project between Innogy Renewables Ireland and Highfield Energy, with innogy taking the lead in the development.

## Innogy Renewables Ireland

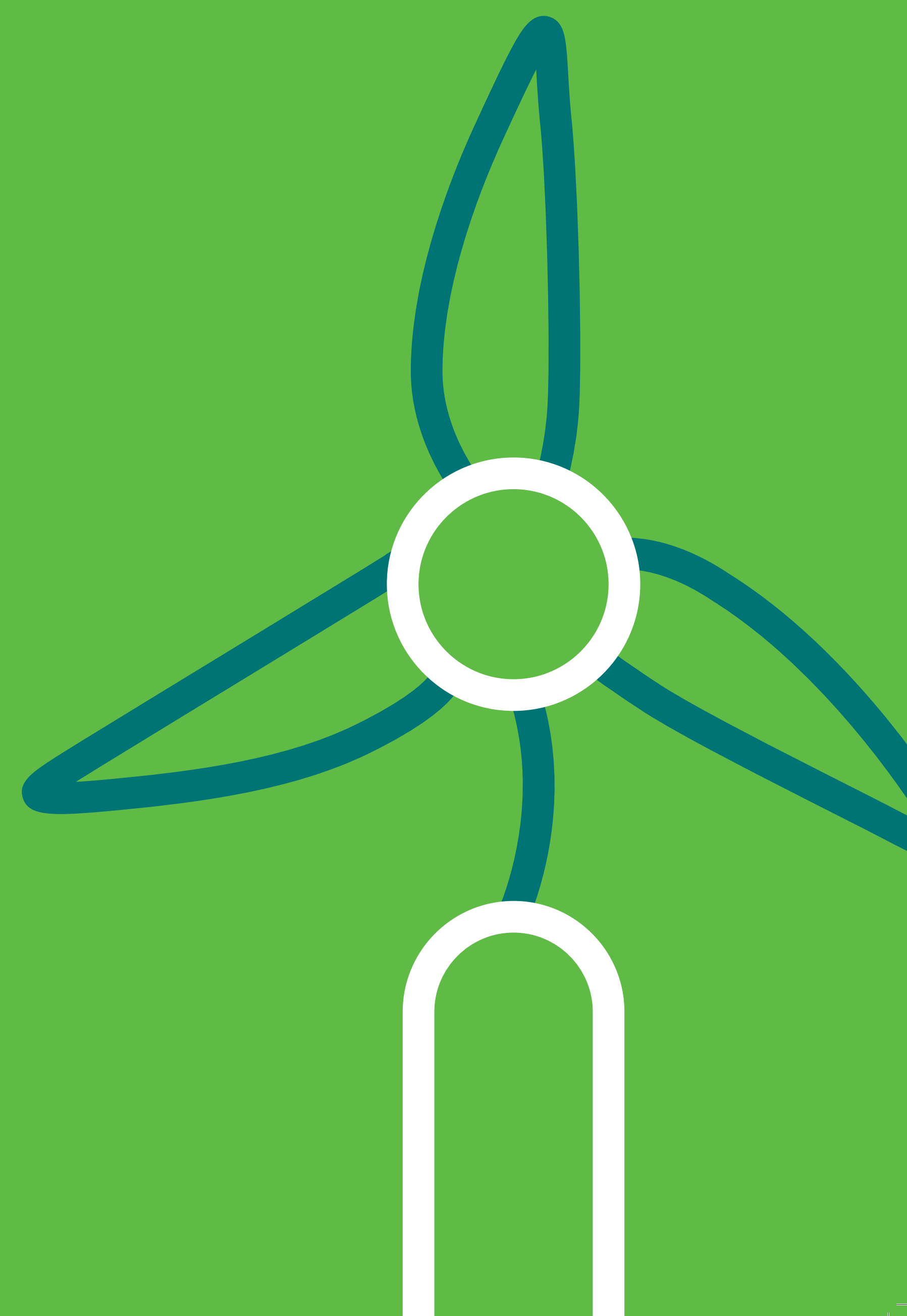
Innogy Renewables Ireland is a subsidiary of innogy SE, a leading German energy company, with revenue of around €43 billion (2017), more than 42,000 employees and activities in 16 countries across Europe.

The renewables part of our business plans, builds and operates plants to generate power and extract energy from renewable sources. Part of our portfolio are wind and hydro power plants as well as solar and biomass plants. Currently, we are particularly strongly represented in our home market, Germany, followed by the United Kingdom, Spain, the Netherlands, Poland and Italy. Our aim is to expand renewables in Europe further, both on our own and working with partners. With an installed capacity of more than 925 megawatts in offshore wind and with over 2100 megawatts in onshore wind, innogy is one of the major operators in Europe. At the moment we are focusing on continuing to expand our activities in wind power. That's why, in addition to our core markets, we are already active in new markets such as the USA and Ireland.

Innogy Renewables Ireland (innogy) now employs 8 full time people in our office in Kilkenny City. With our extensive experience delivering onshore wind projects, innogy will help the Irish Government to meet its 2020-2030 EU energy targets, and, in addition, will contribute to increasing diversity of renewable energy supply in Ireland. For further information visit: [www.innogy.com](http://www.innogy.com)

## Highfield Energy

Based in Dublin, Highfield Energy (an Irish formed renewable energy company) develops electricity generation projects with a particular focus on renewables and has a proven track record of working in partnership with developers, landowners and wider project stakeholders to promote sustainable energy sources. For further information visit: [www.highfieldenergy.com](http://www.highfieldenergy.com)



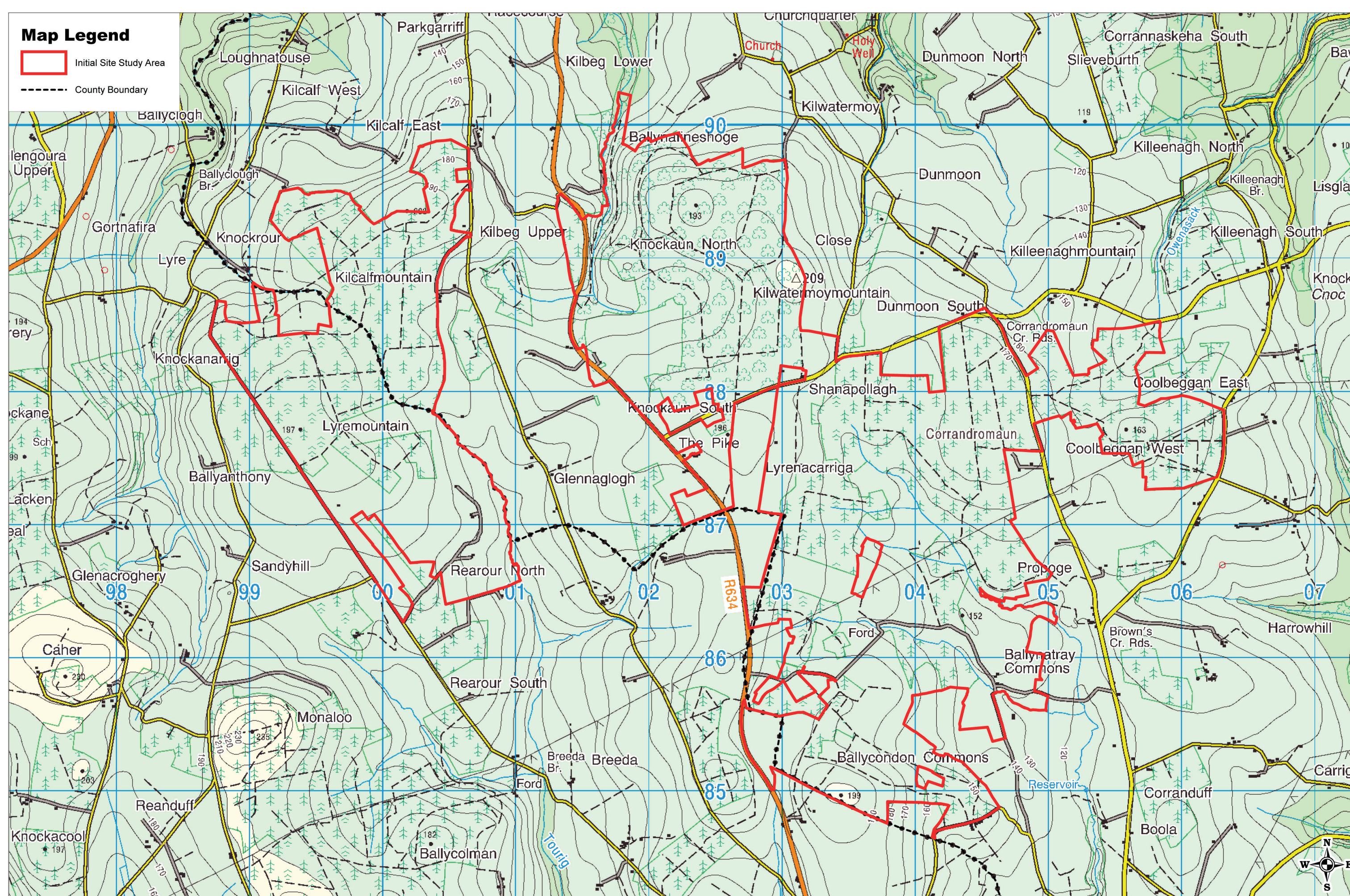


# About Lyrenacarriga Wind Farm

## Location and description

The wind farm site is located approximately 5 kilometres southeast of Tallow, Co. Waterford and approximately 15 kilometres northwest of Youghal, Co. Cork. The total site area measures approximately 1,400 hectares. The site elevation ranges between approximately 140 metres and 210 metres above sea level.

The site, which straddles the county boundary between Co. Waterford and Co. Cork, comprises lands at Knockaun North, Lyrenacarriga, Ballycondon Commons, Kilcalf Mountain, Ballycolman, Kilnafurrery, Kilcronat Mountain and Knockakeo.



Site boundary

The majority of the proposed wind farm site is currently commercial forestry, with other areas used for agriculture. These land uses will be able to continue in conjunction with a wind farm development at the site.

## Why choose this site?

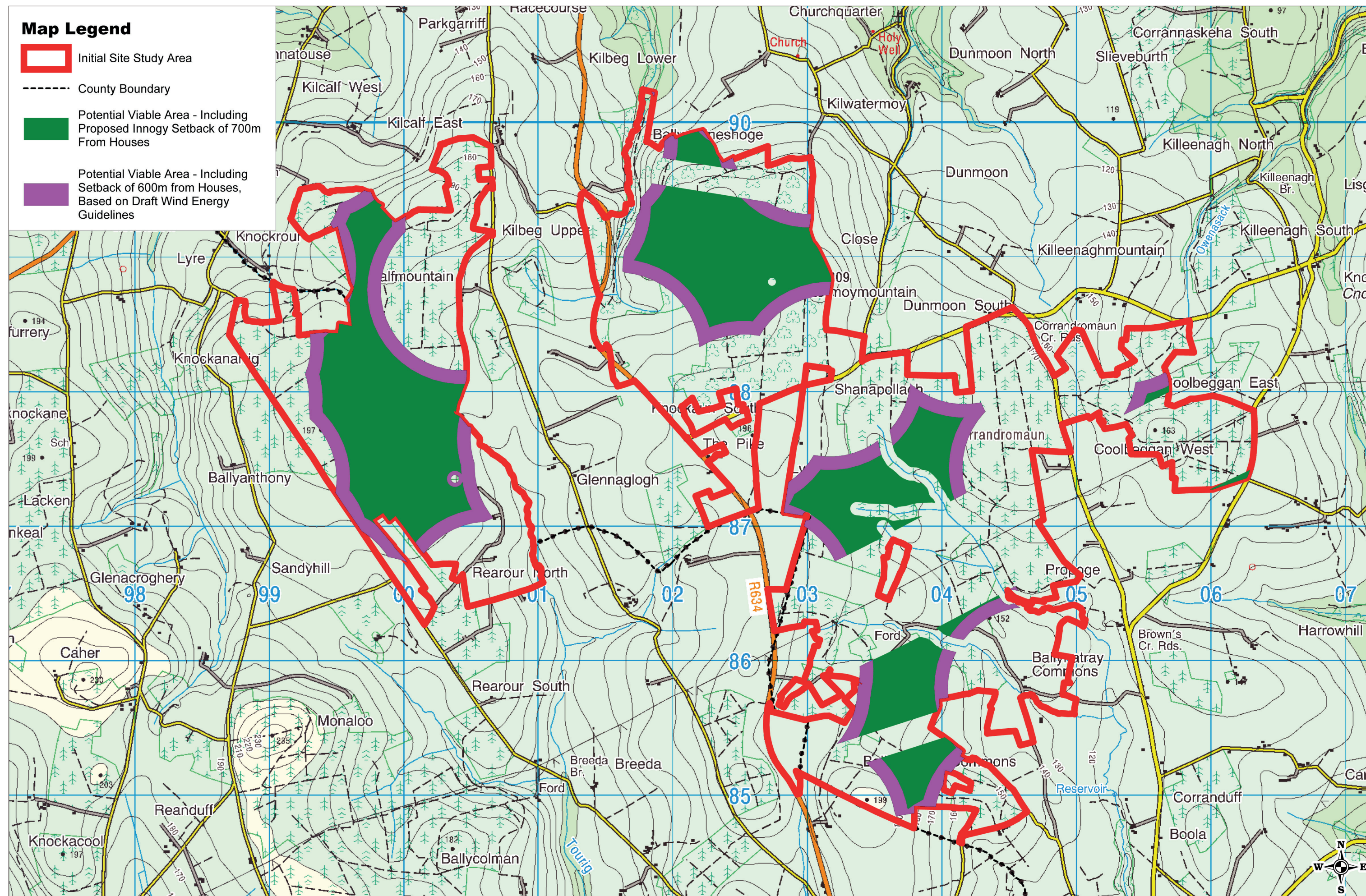
- The section of the site in Co. Waterford is located within a '**Preferred**' area for wind energy development, as designated by the Wind Energy Strategy as part of Waterford County Development Plan 2011-2017 (as extended).
- The section of the site located in Co. Cork is located within an area '**Open to Consideration**' for wind energy development, as designated by the Wind Energy Strategy as part of Cork County Development Plan 2014.
- The site has good annual average wind speeds.
- The site is not designated as a Natura 2000 site, meaning that it is not a Special Area of Conservation (SAC) nor a Special Protection Area (SPA).
- Existing onsite roads/tracks will be used where possible. The onsite road access can be readily improved to make turbine transport straightforward; and locally the road network can be improved as required.
- A setback distance of 700 metres from houses can be achieved.





# The proposed development

The design process for the proposed wind farm development is underway. A desk-based constraints study has been carried out to identify a 'Viable Area' within the site; this is the area in which it is considered suitable to locate the proposed wind turbines.

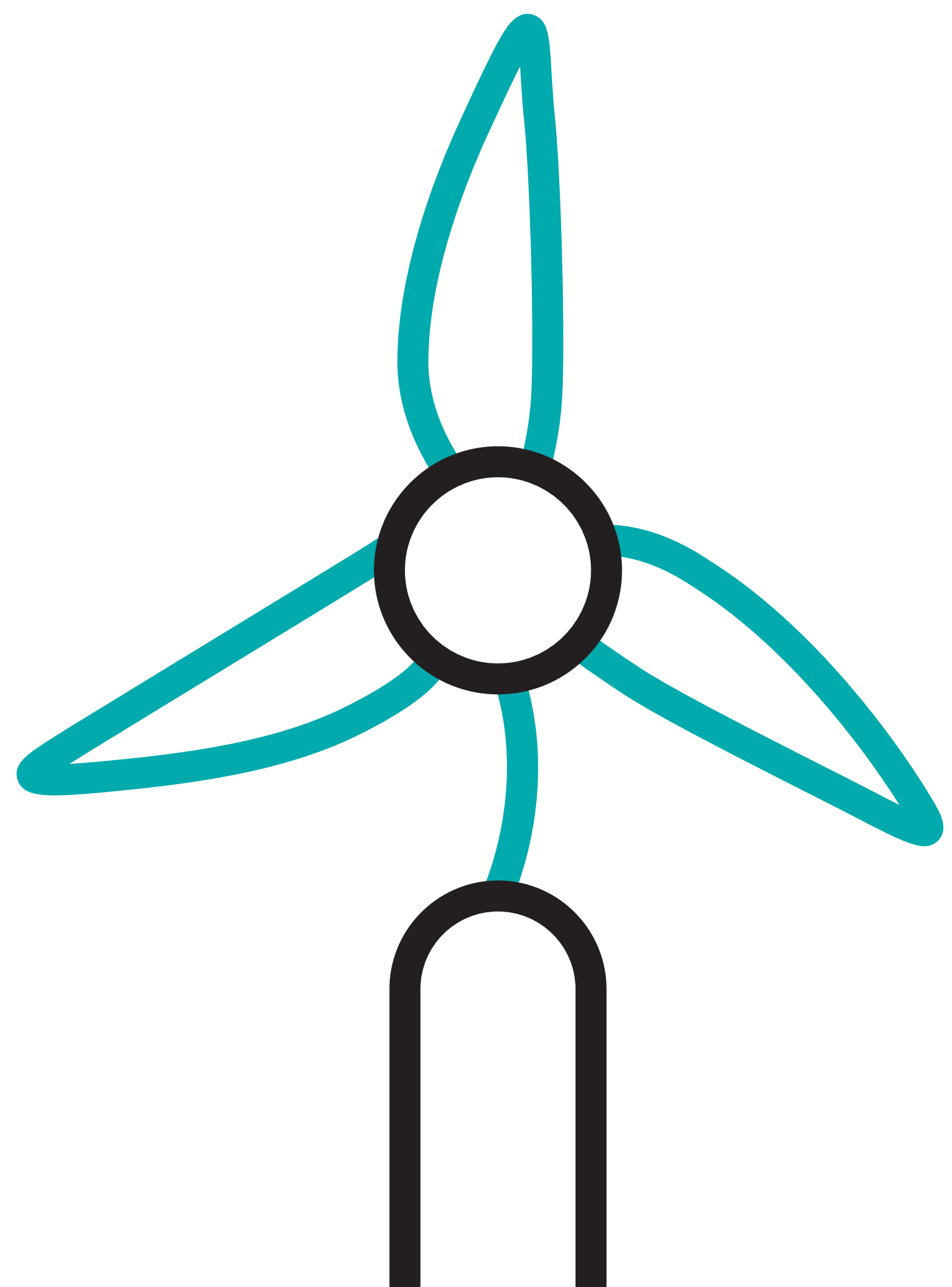


Viable area showing 600m and 700m setback from houses in addition to setback from other project constraints

The locations of the proposed wind turbines will be informed by site investigations to be carried out over the coming months.

Based on evidence and assumptions from other wind farm developments, it is considered that:

- The Viable Area could accommodate 20-25 wind turbines;
- Each wind turbine could be up to 150 metres tall (from the turbine base to the top of the turbine blade, when blades are in an upright position);
- A minimum setback distance of 700 metres can be achieved from properties;
- In addition to the construction of the wind turbines, the development would also encompass the following infrastructure and ancillary works:
  - Upgrade of existing roads on the site and construction of proposed new access roads;
  - Upgrade of existing site entrance(s) or construction of new site entrance(s);
  - 'Borrow pits' for the sourcing rock on-site;
  - Energy substation, wind farm control buildings and electricity storage facility;
  - Temporary construction compounds;
  - Permanent met mast;
  - Detailed drainage design;
  - Connection to the national electricity grid;
  - Potential recreation or amenity facilities.





# The planning process

## Scoping and Consultation

Scoping is the process of identifying the significant issues that should be addressed by the Environmental Impact Assessment Report (EIAR). A Scoping Document is currently being prepared, and will be circulated to statutory and non-statutory consultees, to provide them with an opportunity to comment.

The feedback received from those consultees, and throughout the public consultation process will inform the proposed development design and assessments undertaken during the EIAR preparation.

## Planning Application

The Strategic Infrastructure Development (SID) thresholds for wind energy, as set out in the 7th Schedule of the Planning and Development Act 2000 (Amended 2010), are 25 turbines or 50 Megawatts (MW). The current intention is that innogy will submit the planning application directly to An Bord Pleanála, under the requirements of Planning and Development (Strategic Infrastructure) Act 2006. Engagement with An Bord Pleanála will determine if the proposed development will be considered as Strategic Infrastructure Development.

## Environmental Impact Assessment Report (EIAR)

An Environmental Impact Assessment Report (EIAR), which outlines the results of all the surveys undertaken in respect of the development, will accompany the planning application. Surveys will be carried out under the following headings:

1. Introduction
2. Background to the Proposed Development
3. Description of the Proposed Development
4. Population & Human Health
5. Shadow Flicker
6. Biodiversity: Flora & Fauna
7. Biodiversity: Birds
8. Land, Soils and Geology
9. Hydrology and Hydrogeology
10. Air and Climate
11. Noise and Vibration
12. Landscape and Visual
13. Archaeological, Architectural and Cultural Heritage
14. Material Assets (includes Traffic and Transportation, Telecommunications, Aviation and Electromagnetic Interference)
15. Interaction of the foregoing.

The results of these surveys, along with feedback from statutory consultees and members of the public, will help inform the design of the wind farm. When the final wind farm design has been finalised, further surveys will again be undertaken to establish more precisely, what the impacts and effects of the wind farm will be.



## Access, Traffic and Transport

The proposed wind farm site is accessed via local roads from the R634 Regional Road, which travels between Tallow and Youghal, and the R627 Regional Road, which travels between Tallow and Midleton. The site itself is served by a number of existing forestry roads. New access routes may also be required; the siting of which will have regard to the constraints identified onsite.

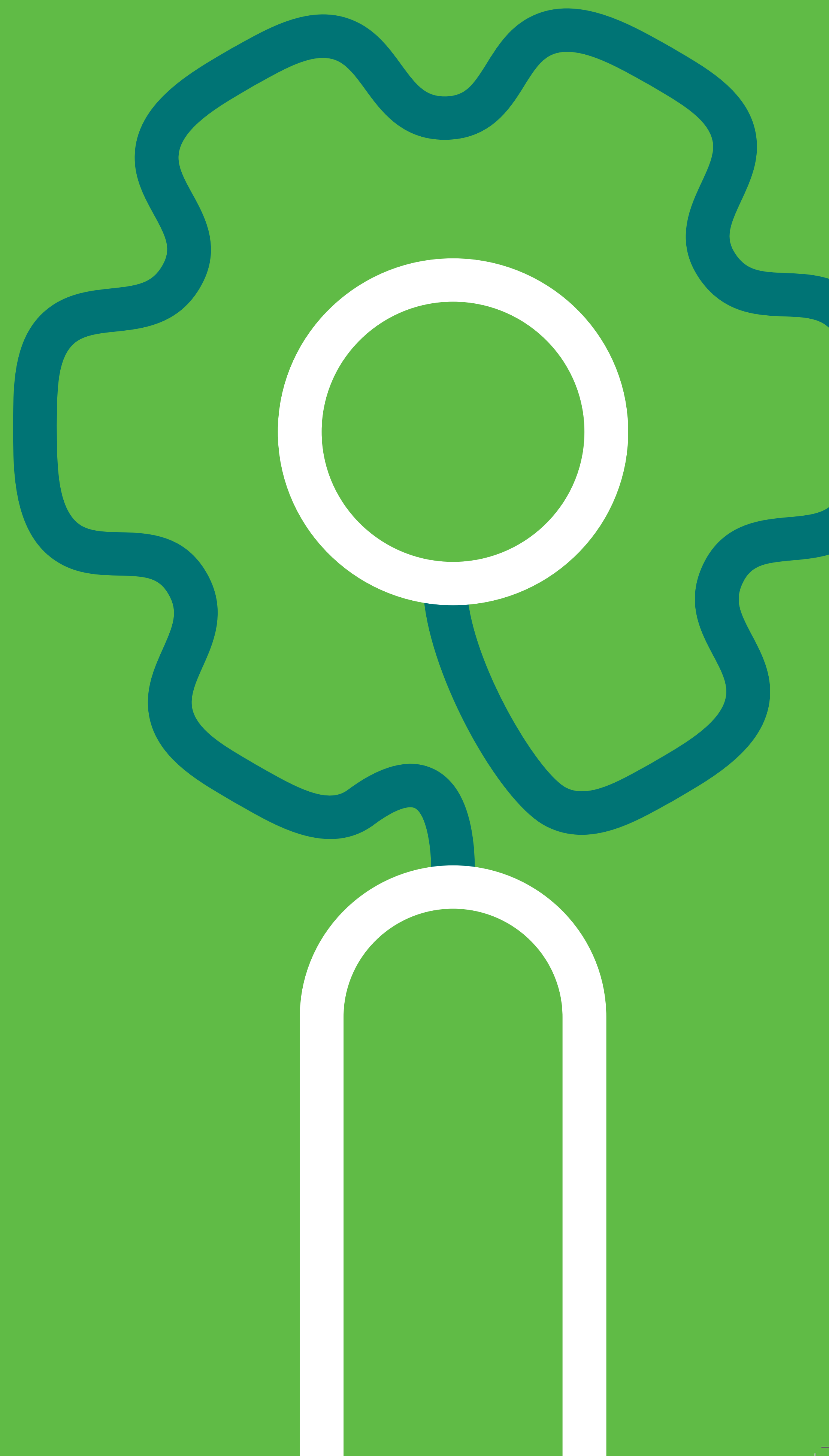
The delivery of the wind turbine components and all other construction materials to the proposed development site will be assessed as part of the Traffic and Transport section of the EIA.

## Grid connection

The options for connecting the proposed wind farm to the National Grid are:

- Via a loop-in connection to the existing 110kV network which runs through the site;
- Via connection to the existing Dungarvan 110kV Substation; or
- Via connection to the existing Woodhouse 110kV substation.

The grid connection will be assessed as part of the EIA, which will also provide a detailed description of the final proposed connection route.





# Community and business benefits

## Community Ownership

The Irish Government has defined Community Ownership as offering the opportunity for a local community to invest in a portion of a renewable energy scheme.

Should Lyrenacarriga Wind Farm be developed, innogy intends to offer a community ownership scheme. This will be in line with the final requirements of the Irish Government's Renewable Energy Support Scheme which is expected to be published later this year.

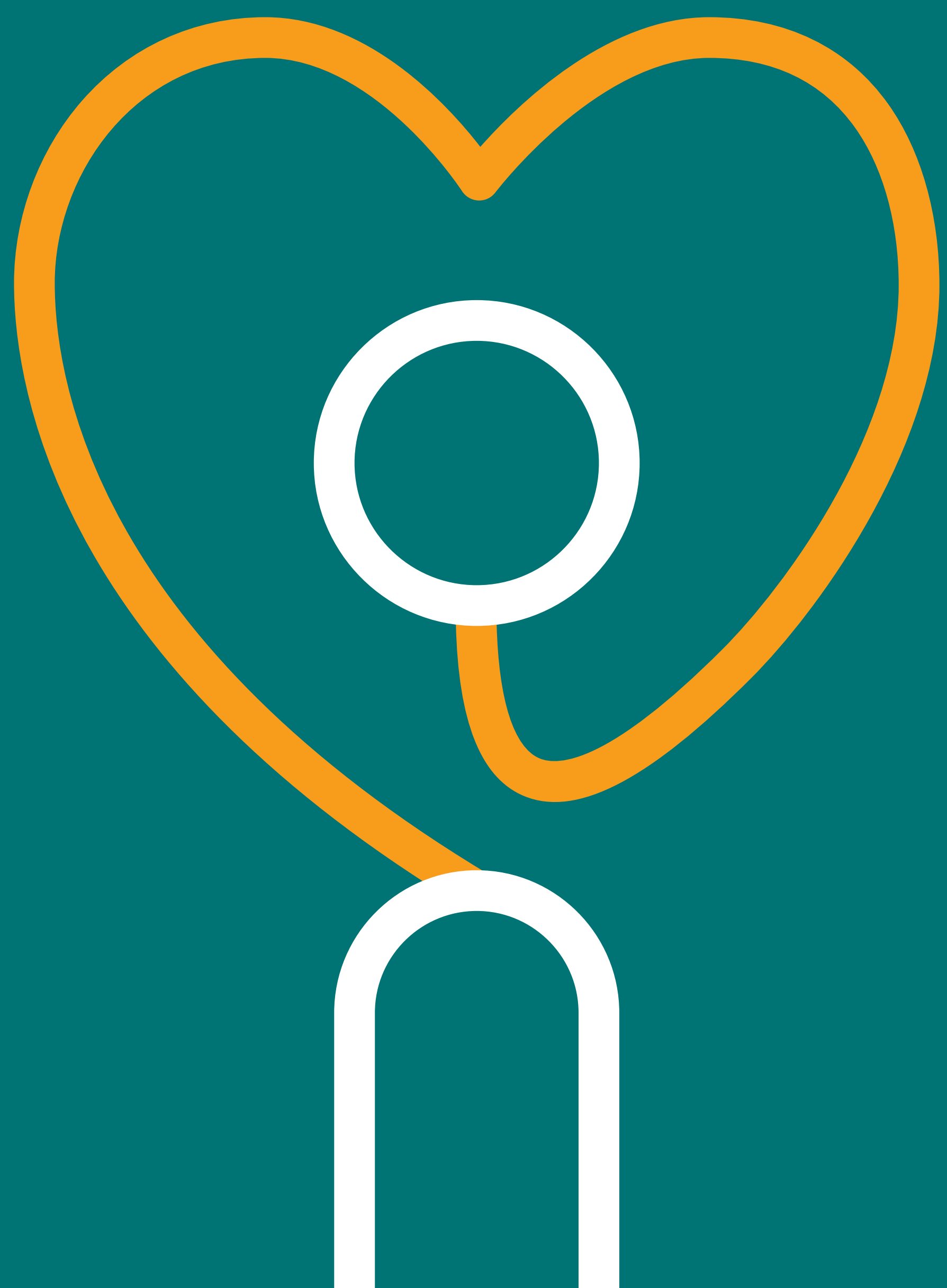
## Community Funding

Should Lyrenacarriga Wind Farm be granted planning consent, the final fund value will be calculated in line with new industry best practice guidelines at a level of €2 per megawatt hour. This could deliver a fund of between €4,000 to €6,000 per MW installed capacity for each of the first 15 years of the projects operation. The viable area could host between 20 to 25 turbines. The final amount of funding will be depend on the final installed capacity of the site as well as the actual electricity generated.

### **innogy's approach**

innogy is keen to support communities to use funding from our wind farms to realise some of their ambitions and make life-enhancing improvements to their local area. Whilst following relevant best practise guidance, innogy takes a bespoke approach to setting up these funds, because we understand that every community is different. Fund setup is supported to ensure that appropriate, accountable and transparent governance is in place with simple, straightforward and fair processes. Where possible innogy aims to develop administrative structures that directly involve local people in making decisions about funding applications, so local people can have a real say in how their community is supported.

The funding is really flexible and can be used to support a wide range of projects and initiatives such as playgrounds, sports clubs, building, maintenance and running costs for community centres, walks and trails, training and education grants, schemes that address fuel poverty, energy efficiency projects and even schemes to reduce domestic electricity costs for immediate neighbours. It also has the potential draw down additional match funding from other sources such as the European Leader Funding to make even bigger projects possible.





## Opportunities for Regional Businesses

The principle construction contracts awarded during the construction of a wind farm are civil work, electrical works and turbine supply. The development, construction and operation of the proposed wind farm could bring significant economic benefits to the region through the contracts that are awarded.

innogy will follow a competitive tender process for the principle contractor who will in turn award sub contracts for works including: civil works, fencing, haulage, fuel, aggregate, concrete, plant hire, hoteliers and security to name but a few. Regional suppliers with the appropriate skills and experience will be well placed to tender for these contracts.

innogy has an excellent track record for ensuring that the local supply chain benefits as much as possible from such projects. It is standard practice to insert a 'localism' clause into contracts with Tier 1 Contractors which obliges them to evidence their spend with local businesses. innogy expects that, for the proposed development, local civils contract spend (within 30km) could be approximately 43% of the total construction investment.

We would like local businesses to register as potential suppliers so that this information can be shared with Tier 1 contractors. The types of businesses that could benefit from this expenditure is wide ranging, and is likely to include: traffic management; materials supply; plant hire; fencing, fuel, security, waste management, signing and lighting, telecommunications, drainage, plant and seeding, **hospitality**, catering and accommodation. For further information email: [lyre@innogy.com](mailto:lyre@innogy.com)

## Other local benefits

Business rates paid to Waterford/Cork County Councils could have a positive impact on local infrastructure and amenities such as roads, public lighting, street cleaning, libraries, fire services and public amenities.

The upgrading of the road infrastructure in the vicinity of the wind farm will also be carried out should it be required.





# Project developments: next steps

The Scoping Report will be circulated to statutory and non-statutory consultees in the coming weeks. Detailed modelling, site investigations and surveys will be carried out at the site and within the surrounding area over the coming months. The results of these studies and the feedback received during scoping and local consultation will inform the proposed layout for the proposed development.

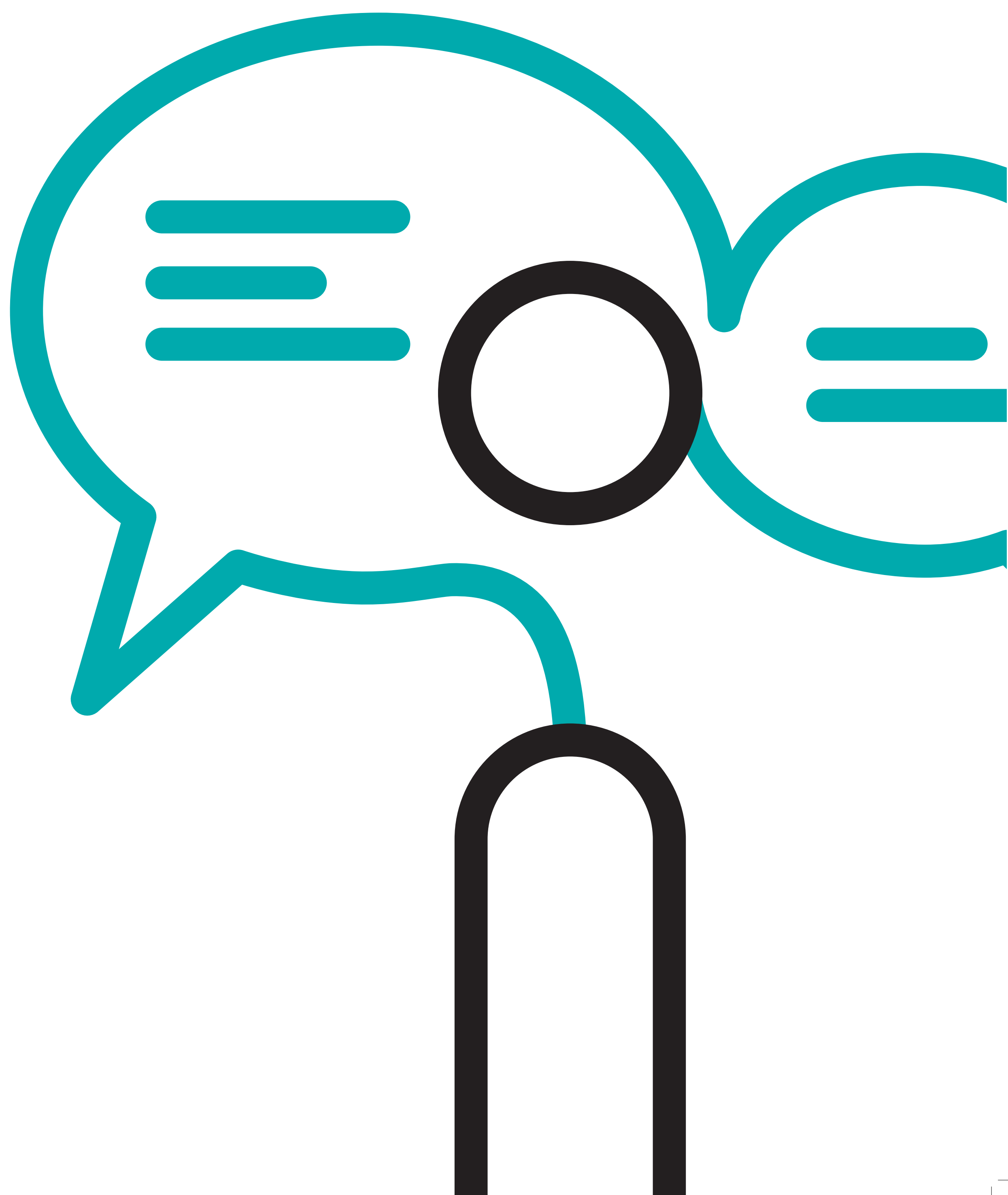
A second public exhibition will be held in Autumn 2018 to present the detailed site layout and the results of the site surveys and investigations. This meeting will be advertised locally and all interested parties will be invited to attend.

Innogy Renewables Ireland Limited (innogy) intends to submit the planning application to An Bord Pleanála (pending determination of the proposal as Strategic Infrastructure Development) in late 2018. The planning application will include:

- Application Forms and Public Notices
- Planning Drawings
- Environmental Impact Assessment Report
- Appropriate Assessment Screening Report / Natura Impact Statement

Notification of the intention to lodge the application will be placed in a local newspaper. innogy will also send out a newsletter to notify all residents within the area of the intended lodgement date. Once submitted, all planning application documents and drawings will be available for viewing in the offices of Waterford County Council, Cork County Council and An Bord Pleanála, and on a dedicated project website.

Following lodgement of the application, members of the community can make submissions to An Bord Pleanála during the public consultation period (duration to be specified by An Bord Pleanála; minimum 7 weeks) and innogy will need to respond to these submissions.





# Please let us know what you think

We value your feedback during the design process. Consultation is ongoing and we continue to seek your views in the following ways:

- At this exhibition by providing comments to project staff;
- By completing a comment card, available at the exhibition today;
- By email to [owen@mccarthykos.ie](mailto:owen@mccarthykos.ie) / [lyre@innogy.com](mailto:lyre@innogy.com);
- By post

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Galway  
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McCarthy Keville O'Sullivan Ltd. (MKO) is a Galway-based Planning and Environmental consultancy that is preparing the planning permission application and Environmental Impact Assessment Report (EIAR) on behalf of Innogy Renewables Ireland Ltd.

The information boards presented today will also be available to view on the Lyrenacarriga Wind Farm website: [www.lyrewindfarm.com](http://www.lyrewindfarm.com)

**Please note:** A planning application has not yet been submitted in relation to this proposal. Any comments made to innogy at this time are not considered formal representations on the proposed wind farm development. However, your comments will be considered during the design process and taken into account in the EIAR to be submitted with the planning application.

Thank you for attending  
the Lyrenacarriga Wind  
Farm Public Exhibition

