

The Orsted logo, featuring a white circle with a vertical line through it, followed by the word "Orsted" in a bold, white, sans-serif font.

Orsted

A photograph of a wind farm repowering project. In the foreground, a paved road curves through a field of dry, yellowish-brown grass and rocks. A large white wind turbine stands prominently in the middle ground. In the background, several other wind turbines are visible on a hillside, with rolling hills and mountains under a blue sky with scattered white clouds.

**Kilgarvan Wind Farm
Repowering**

Introduction

Welcome to our final pre-planning leaflet for the Kilgarvan repower project. The purpose of this leaflet is to present the final design proposed to be submitted for assessment to the planning authority, outline the many ways in which this project could bring positive benefit to the local area, and to give an overview of the timelines involved in the planning process.

In putting together this design we have considered your feedback from the previous community consultation events, and that of the planning and statutory consultees such as Kerry Co. Co., Cork Co. Co., NPWS, Dept. of Agriculture, Dept. of Defence, Transport Infrastructure Ireland, HSE, Geological Survey Ireland, Inland Fisheries Ireland and more.

If you have questions on the design, you can contact the project team; details can be found at the back of this leaflet.

About Ørsted

The Ørsted vision is a world that runs entirely on green energy. Ørsted is recognised on the CDP Climate Change A List as a global leader on climate action and was the first energy company in the world to have its science-based net-zero emissions target validated by the Science Based Targets initiative (SBTi). Headquartered in Denmark, Ørsted employs more than 7,000 people in 14 countries around the world with over 4.7GW of operating wind, solar and storage assets. Ørsted's Ireland and UK Onshore business is headquartered in Cork City, where a skilled and experienced team plan, develop and operate a range of renewable energy developments, with over 327MW currently operating on the island of Ireland, including the existing Kilgarvan I and II wind farms.

Meet the team



Patrick McMorrough

Patrick is Ørsted's project manager responsible for the development throughout the planning process, managing and liaising with a wide range of skilled professional consultants and contractors. Additionally, Patrick is responsible for designing the wind farm layout.



Aidan Stakelum and Alan Barry

Aidan and Alan are responsible for developing community engagement strategies and stakeholder management plans to engage with new communities on Greenfield projects, as well as drafting communications material with the project development teams including drafting of leaflets, booklets, websites, social media and communications updates on project progress.

Climate Change

The world needs to reduce global carbon emissions by 50% towards 2030 to have a chance to stay within a 1.5°C increase in global warming. Currently, we are not on track. At Ørsted, we want to be a global catalyst for systemic change through helping countries and companies speed up their green transformations, meet science-based emissions reduction targets, and keep average global temperature increase within 1.5°C. Reducing carbon emissions helps mitigate the impacts of a warming climate on species and ecosystems, and an accelerated build-out of global green energy is among the most powerful ways to halve carbon emissions by 2030.

Kilgarvan wind farm has made an important contribution to Ireland's renewable energy targets and low carbon objectives to date, and through this project we are seeking to secure and build on this contribution. We will be reusing an existing site, and reutilising its existing infrastructure, such as access roads, wherever possible. Repowering the existing operational wind farms in this way will not only help maintain the level of renewables generation in Ireland but will add to the further decarbonization of the power sector and help realize the Net Zero targets.

Energy Security

The recent energy crisis has highlighted our over-reliance on fossil fuels from overseas. Installing wind farms such as this one, will help to secure Ireland's energy independence and help to shield us from the high energy costs driven by volatile fossil fuel prices. Taking advantage of Ireland's abundant wind resource by developing indigenous renewable energy generators is an important step in securing Ireland's future as a secure and independent country.



Benefits to the Community

Kilgarvan repower project will offer a number of benefits to the local community.

Community benefit fund

The current existing fund of €85,000 will continue to be available into the future. If the project gets consented and qualifies for RESS, Ørsted will be in a position to in place a community benefit fund valued at €2/MWH per year from the first year of operation of the new wind farm, which would result in a larger community benefit fund being available.

When qualifying for RESS, a projects community benefit fund is usually managed by an independent organisation, who set up a local committee which decides on how and to whom the funds are distributed.

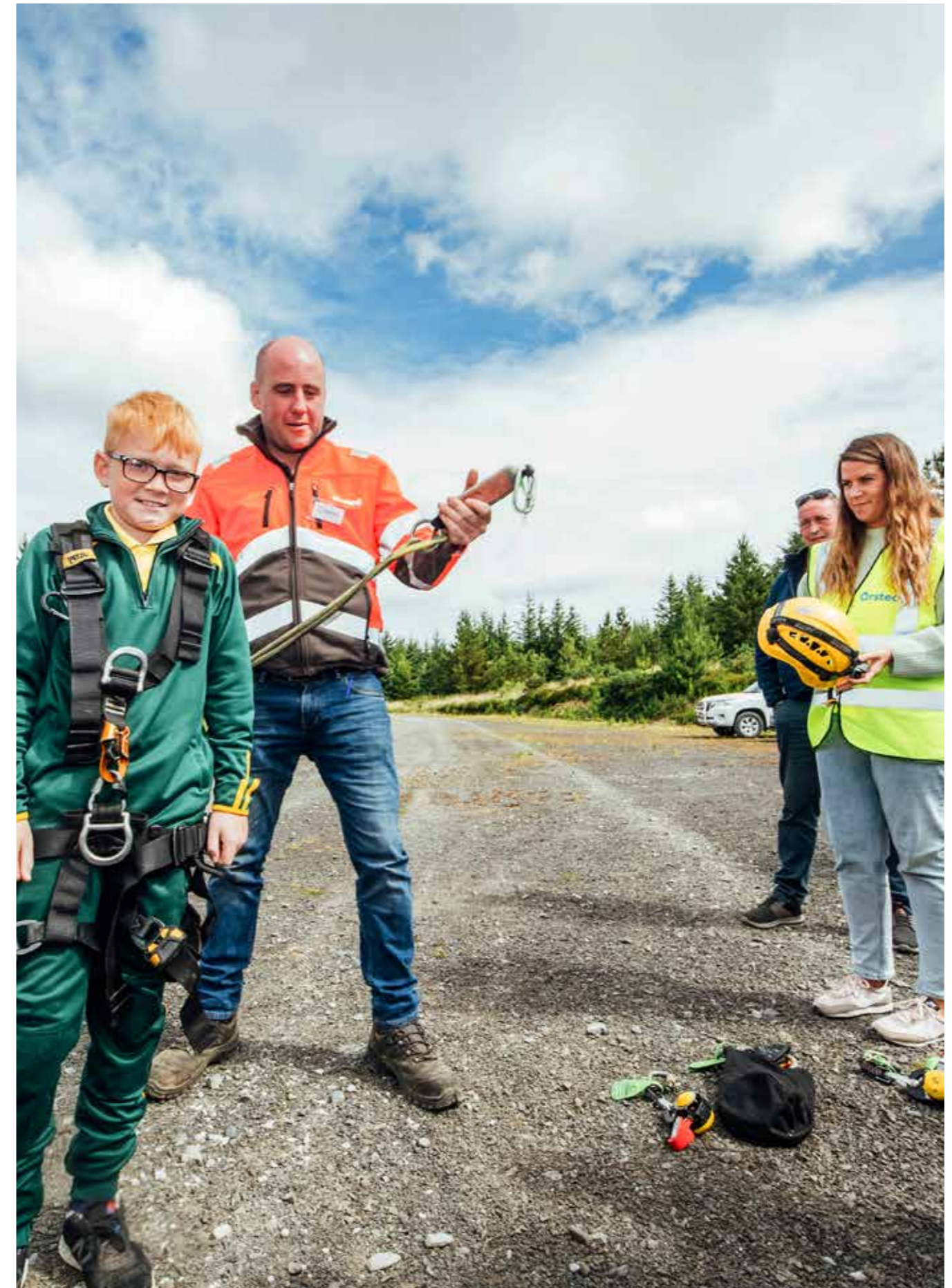
The existing Kilgarvan wind farms' Community Benefit Fund has supported a number of local initiatives including Kilgarvan Community Council, Kilgarvan GAA, Top of the Coom Sheep Shearing, Macroom Community Hospital, Glenflesk GAA and Scoil Chuil Aodha.

Job and contracting/supply chain opportunities

The construction and operation of the wind farm will create jobs and contracting opportunities. As part of the tender for the wind farm construction, successful bidders will have to commit to holding a "Meet the Suppliers" event for local businesses and contractors, informing them of how they can bid to provide goods and services for the construction and operation of the wind farm.

Habitat conservation and management

As part of the planning application, Ørsted will submit information outlining our plans to protect and restore important habitats around the wind farm and our measures to enhance biodiversity. This includes plans to restore some areas of degraded peat habitat, helping to protect biodiversity and enhance the carbon sequestration services provided by the bog. At Ørsted, we avoid, mitigate and address our impact on biodiversity to build and operate in harmony with nature. Our ambition is to deliver a net positive biodiversity impact from new projects commissioned from 2030.

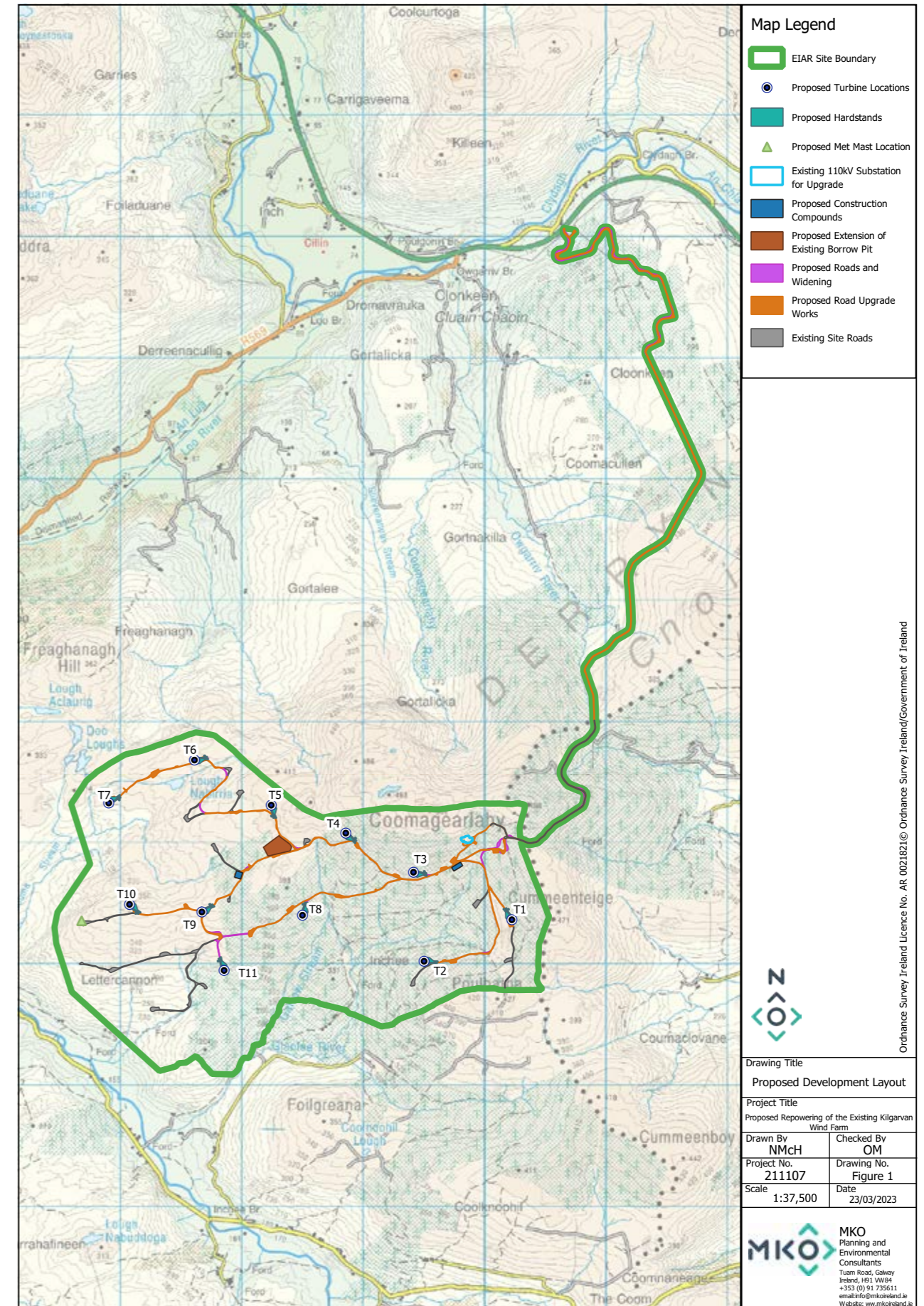


Development layout & details

The proposed development consists of 11 new turbines with tip height of 200m and a rotor diameter of between 149m and 163m, depending on the model of turbine selected. This turbine selection is decided upon by extensive modelling of wind conditions, energy yields and efficiencies, noise outputs and then finally by a competitive tendering process with turbine manufacturers. These 11 new turbines will replace the existing 28 turbines. The final turbine locations and infrastructure design was informed by a number of different constraints with visual impacts as well as setbacks from houses, watercourses and areas of active peat forming a major part of that. Additionally, the layout was designed so as to maximise the use of the existing on-site infrastructure, helping to significantly reduce the overall impacts of the development.

Turbine delivery and site access

The site is accessed from the existing entrance off the N22 at Clonkeen. The repower proposal will continue to utilise this entrance, as will any construction and turbine delivery traffic, helping to significantly reduce any disruption or impacts on local traffic and roads.



Wind Farm Design Considerations

Landscape and visual

Landscape and visual impacts have been considered throughout the design process. Initial layout designs were modelled by the landscape consultants at MKO, which indicated that through careful turbine siting, we could increase our proposed tip height up to 200m with only minor changes in the overall theoretical visibility of the proposed wind farm versus the current existing turbines. This allows us to increase the efficiency of the turbines as they can reach the more consistent and less turbulent winds up higher, which in turn maximises the benefits provided by renewable energies. A landscape and visual assessment of the final design layout will be included in the planning application, accompanied by a series of visualisations known as photomontages. These will present the wind farm against the existing landscape, allowing the reader and decision makers to fully understand how the wind farm will look within the landscape.

Ecology

Ecological data has been collected through a variety of surveys, including:

- Terrestrial and aquatic habitat surveys
- Bat surveys
- Bird surveys
- Mammal surveys

Data collected from these surveys strongly influenced the wind farm design. Some areas of sensitive bog habitat were detected within the site boundary.

Careful consideration has been taken to limit or avoid any impacts on these areas, and instead improving the overall quality of habitats within the area as part of the Habitat Management Plan. Care was taken with the siting of the infrastructure to protect the flora and fauna on site.

Other design considerations

There were many other topics considered during the design of the wind farm including:

- Noise
- Shadow Flicker
- Archaeology and Cultural Heritage
- Hydrology
- Geology and Soils
- Air and Climate
- Traffic & Transport
- Telecommunications
- Human Health



The Planning Process

We are currently on schedule to submit the planning application in Q2 of this year, provided we don't encounter any delays outside of our control. This application will be submitted to An Bord Pleanála as a Strategic Infrastructure Development (SID) application. An Bord Pleanála is the national body that makes a decision to grant permission or refuse permission for major infrastructure projects that are important to either Ireland, the region or the local area. Examples include motorways, hospitals and wind farms with an output greater than 50MW. SID applications are made for developments which would:

- contribute significantly to meeting any of the objectives of the National Planning Framework, or
- contribute significantly to meeting any regional spatial and economic strategy for an area, or
- have a significant effect on the area of more than one planning authority.

A copy of the application documents will be available on An Bord Pleanála's website and on our planning website, which will go live when the planning application is lodged. This will be available at: <http://kilgarvanplanning.ie>.

Once the application is lodged, members of the public will be free to submit observations on it to the planning authority, which will be considered as a part of the decision-making process.

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Project Programme





CONTACT US

Telephone: 086 1037437 to speak with our
Community Liaison Officer, Aidan Stakelum
or

Email: kilgarvaninfo@orsted.com

Post: Kilgarvan Repower, Orsted, Floor 5,
City Quarter, Lapps Quay, Cork, Ireland.

For copies of all community consultation
materials presented to date, visit:

<https://orsted.ie/renewable-energy-solutions/kilgarvan-repower>