



## Contact Us

We welcome conversation, engagement and interaction with you on any aspect of how we propose to progress the Coumnagappul Wind Farm project and particularly on how we communicate project information to you. If you would like to chat about this proposed project further please contact us via any of the below means.

Website : [www.coumnagappulwindfarm.ie](http://www.coumnagappulwindfarm.ie)

Email : [coumnagappul@emp.group](mailto:coumnagappul@emp.group)

Phone : 01 588 0178

Write : EMPower, 2 Dublin Landings, North Wall Quay, North Dock, Dublin 1

## Community Consultation Exhibition:

To supplement the proposed project's design process, we have also compiled a dedicated Online Community Consultation Exhibition. This is available at [www.innovision.ie/coumnagappul](http://www.innovision.ie/coumnagappul) and includes added design detail on topics such as landscape and visuals, transport and delivery routes and layout maps with added functionality. There is also an interactive 360° photomontage viewer which shows the project as it would look if built out from numerous vantage points around the projects Study Area. This can also be accessed from the home page of the project website [www.coumnagappulwindfarm.ie](http://www.coumnagappulwindfarm.ie).

All project engagement events will be advertised in local newspapers, project newsletters and on the project website. Members of the project design team are available, at the contact details listed on this page, to converse on any aspect of the Coumnagappul wind farm project design process which you would like to discuss further.

# Proposed Coumnagappul Wind Farm Project

Project Newsletter – December 2022



Looking south from the north side of the Coumnagappul Project Study Area

# Introduction

The proposed Coumnaagappul wind farm project is now at a stage where most of the environmental assessment survey data has been collated in order to inform the Environmental Impact Assessment Report (EIAR). The project's EIAR will accompany the planning application to the consenting authority. This Newsletter gives an overview of the proposed project at the Design Iteration 3 stage.

Our project's community engagement to date has highlighted different opinions and generated conversation which has helped to inform this project newsletter and the projects design. This process of engagement is designed to ensure that accurate project information is circulated and that local residents and interested stakeholders have an opportunity to address queries directly with the project design team as the project design develops.

All the previous community project newsletters, including design webinar recordings and questions posed, are available to view and download from the dedicated project website [www.coumnaagappulwindfarm.ie](http://www.coumnaagappulwindfarm.ie)

Please contact the project team by phone, post or email via any of the contact details on the back page of this newsletter. if you would prefer to schedule a house call in order to converse on any aspect of this proposed project, we will arrange for members of the design team to visit you at a time that suits you best.



Photomontage of the proposed Coumnaagappul project from the local road at Sillaheens. Viewing distance is approximately 9 kilometres

# The Proposed Project

The Coumnaagappul wind farm project proposal comprises of the following at this the Design Iteration 3 stage:

- 10 individual wind turbines with a blade tip height of 185 meters, a hub height of 104 meters and a rotor diameter of 162 meters as well as all associated foundations and hard standing areas;
- An onsite 110kV substation as well as all associated works connecting the proposed wind farm to the national electricity grid network at the existing 110kV substation near Kiladangan, just north of Dungarvan;
- All underground cabling required to connect the on-site substation to each wind turbine;
- Upgrading of existing site access tracks and construction of new site access tracks and entrance as required;
- Habitat and Biodiversity Enhancement measures;
- On site borrow pits;
- 1 onsite permanent met mast;
- A temporary construction compound;
- Component delivery route assessment from Waterford Port via the N29, N25, N72, R672 and L5119.

# Why This Project?

The suitability of the proposed Coumnaagappul project study area can be attributed in part to the following characteristics:

- The proposed projects main area is not located within a Natura 2000 site i.e. Special Area of Conservation (SAC) or a Special Protection Area (SPA) nor a Natural Heritage Area (NHA). These areas are present nearby;
- Landscape and visual impact assessment indicates the proposed location is suitable for this project;
- Ecological and Ornithological assessment indicate the proposed Study Area is suitable for this project;
- The project has excellent annual average wind speeds and a significant setback from houses can be achieved;
- There is suitable grid connection capacity and grid connection options in the wider area;
- There is suitable turbine component delivery options via national and regional road networks in the wider area.;

# Proposed Project Schedule

Proposed Coumnaagappul Project Schedule	2019				2020				2021				2022				2023				2024				2025				2026				2027				2028											
	Q1	Q2	Q3	Q4																																												
Ornithology Studies	█				█				█				█				█				█				█				█				█				█				█							
Planning Consultant (EIAR)	█				█				█				█				█				█				█				█				█				█				█				█			
Stakeholder Consultation	█				█				█				█				█				█				█				█				█				█				█				█			
Wind Measurement (Met Mast)	█				█				█				█				█				█				█				█				█				█				█				█			
Planning Judgement	█				█				█				█				█				█				█				█				█				█				█				█			
Grid Connection Application	█				█				█				█				█				█				█				█				█				█				█				█			
Detailed Project Design	█				█				█				█				█				█				█				█				█				█				█				█			
Project Construction	█				█				█				█				█				█				█				█				█				█				█				█			
Project Operational	█				█				█				█				█				█				█				█				█				█				█				█			

Note: Q1, Q2, Q3 and Q4 in the above schedule represent yearly quarters. For example, Q1 represent the first quarter of that year

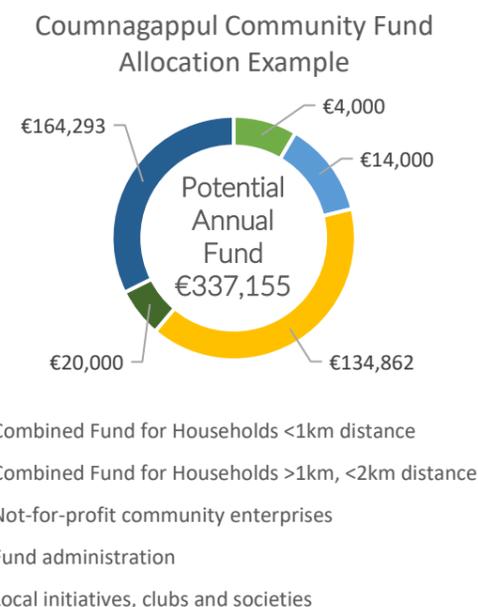
# Community Benefit

At this stage of project progression, the proposed Coumnaagappul project contains 10 individual wind turbines and represents a combined electricity generating capacity of 68 Mega Watts. The proposed project would require an investment of c.€88 million euro and provide sustainable, low carbon energy generation infrastructure to meet Ireland's growing demand. The development benefits to the local community which could be realised include significant investment in local infrastructure and electrical systems, local job creation, and a contribution of approximately €21 million<sup>2</sup> in Waterford City & County Council rates over the project's lifetime. The Coumnaagappul project would also produce enough renewable electricity to power over 40,137 average Irish homes (SEAI 2018)

A community fund calculated in accordance with the Renewable Electricity Support Scheme (RESS) Terms and Conditions, €2 per Mega Watt hour of electricity produced by the project, would also be put in place. This would be made available to the local community for the duration of the RESS (15 years). The average capacity factor of wind energy projects in Ireland is 28.3% (SEAI, 2019). Assuming this efficiency, and an estimated project capacity of 68 Mega Watts, a community benefit fund would amount to an average of €337,155 per annum. The actual fund will vary around this average from year to year, depending on each year's wind conditions. Wind measurements at the Study Area suggest that the proposed Coumnaagappul project could be capable of achieving an above average capacity factor, and therefore a larger community fund.

*"EMPower strongly believe that the local communities in which we propose our projects should benefit most from any associated project community fund and govern where the community fund should be allocated"*

The project's potential fund could be divided as per the illustration below. An annual minimum payment of €1,000 will be provided to each household within 1 kilometer of any proposed Coumnaagappul wind turbine. An annual minimum payment of €500 will be provided to each household located between 1 kilometer and 2 kilometers of any final turbine position. 40% of the fund, amounting to approximately €134,862 per year would be allocated to not-for-profit community enterprises, with an emphasis on low-carbon initiatives. The remainder of the fund would be directed towards local clubs, societies, admin and other initiatives. We welcome any suggestions from the community on how a community fund could best be allocated or ideas for suitable local projects that could be supported under this initiative.



€ 88 million

Investment in Irish infrastructure

€ 5 million<sup>1</sup>

Total Community Fund Contribution

€ 21 million<sup>2</sup>

Project Lifetime Approximate Contribution In County Council Rates

<sup>1</sup> – Example for 10 Turbine project with a capacity factor of 68 MW  
<sup>2</sup> – Estimated €8,000 per mega watt installed for 40 year project lifespan

# Project Design Process

Before we reach a final design proposal on any EMPower project, we choose to undertake several separate, individual design iterations. The design process for the proposed Coumnaappul wind farm project started with a review of existing available baseline information. This enabled us to avoid or minimise potential impacts and included a design process that limits the angle of slope of the ground where development could conceivably occur. This also included a setback distance from watercourses and residences, as well as a setback distance from any nearby European designated environmentally sensitive habitat sites. Following some ground truthing exercises this initial design step produces a potential "Buildable Area" as detailed in previous project Newsletters.

Following establishment of the project's "Buildable Area" an initial turbine layout is then progressed which considers the separation distance required between each turbine position as well as the results of more detailed ground and habitat investigation surveys. The resulting layout is called Design Iteration 1 as discussed in previous newsletters, at the project consultation evenings and on the dedicated project design webinars.

As further project studies evolve the location and alignment of the associated project's details, such as access roads and electrical infrastructure is developed to produce Design Iteration 2. On completion of all the projects associated site investigations and surveys, Design Iteration 3 is produced before a final design proposal is submitted to the consenting authority. The project detail discussed in this newsletter is Design Iteration 3 and final Study Area ground investigations are currently underway in order to reach a final project design layout.



After each stage of the above-mentioned iterative design process the project proposal is reassessed by all our project specialists which leads to a robust final design. This evolving iterative design process establishes the most suitable location for the proposed project infrastructure and is informed by rigorous Study Area assessments carried out over an extended period such as:

- Ecological and Aquatic Surveys
- Ornithological Surveys
- Geotechnical and Hydrological Ground Investigations
- Shadow Flicker Modelling
- Noise Modelling
- Archaeological Surveys
- Landscape and Visual Assessment



Also, in order to ensure that the Coumnaappul projects Environmental Impact Assessment process is appropriately carried out, an information document detailing project particulars is prepared and circulated to a list of statutory and non-statutory consultees to ensure that the proposed project's Environmental Impact Assessment is addressing all relevant topics specific to the local area for the proposed Coumnaappul project.

The list of consultees can be individual for each project. For the proposed Coumnaappul project this consultee list includes The Aviation Authority, National Parks and Wildlife, Waterford City & County Council, Fáilte Ireland, Inland Fisheries Ireland, Geological Survey Ireland, The National Monuments Service, area telecommunication providers, Transport Infrastructure Ireland, plus many more. Responses and recommendations received from these bodies are implemented by the project design team in order to reach the most suitable final design proposal for the receiving environment.

# Who Are EMPower.

EMPower is an Irish renewable energy developer with over 750 MW in development in Europe and Africa. Our senior management team comprises five Irish professionals with a combined 95 years' experience delivering projects from conception to operation across five continents. EMPower's headquarters is in Dublin. EMPower is owned by GGE Ireland Limited, Wind Power Invest A/S and EMP Holdings Limited. Our vision is to provide low carbon, ecologically non-invasive, affordable energy to facilitate Ireland's expanding economy and sustainable energy targets.



# Our Commitment

Our commitment is to engage meaningfully with our project stakeholders on decisions that concern them. We aim to do this in a timely manner, and we commit to building relationships and starting a conversation on what aspects of this proposed renewable energy project could work best for this local area. We feel that designing any proposed project in this manner makes better social and business sense.

**95 Years**  
Combined Experience of EMPower Management Team in Renewable Energy

**750 MW+**  
Wind Energy Capacity Currently Under Development by EMPower

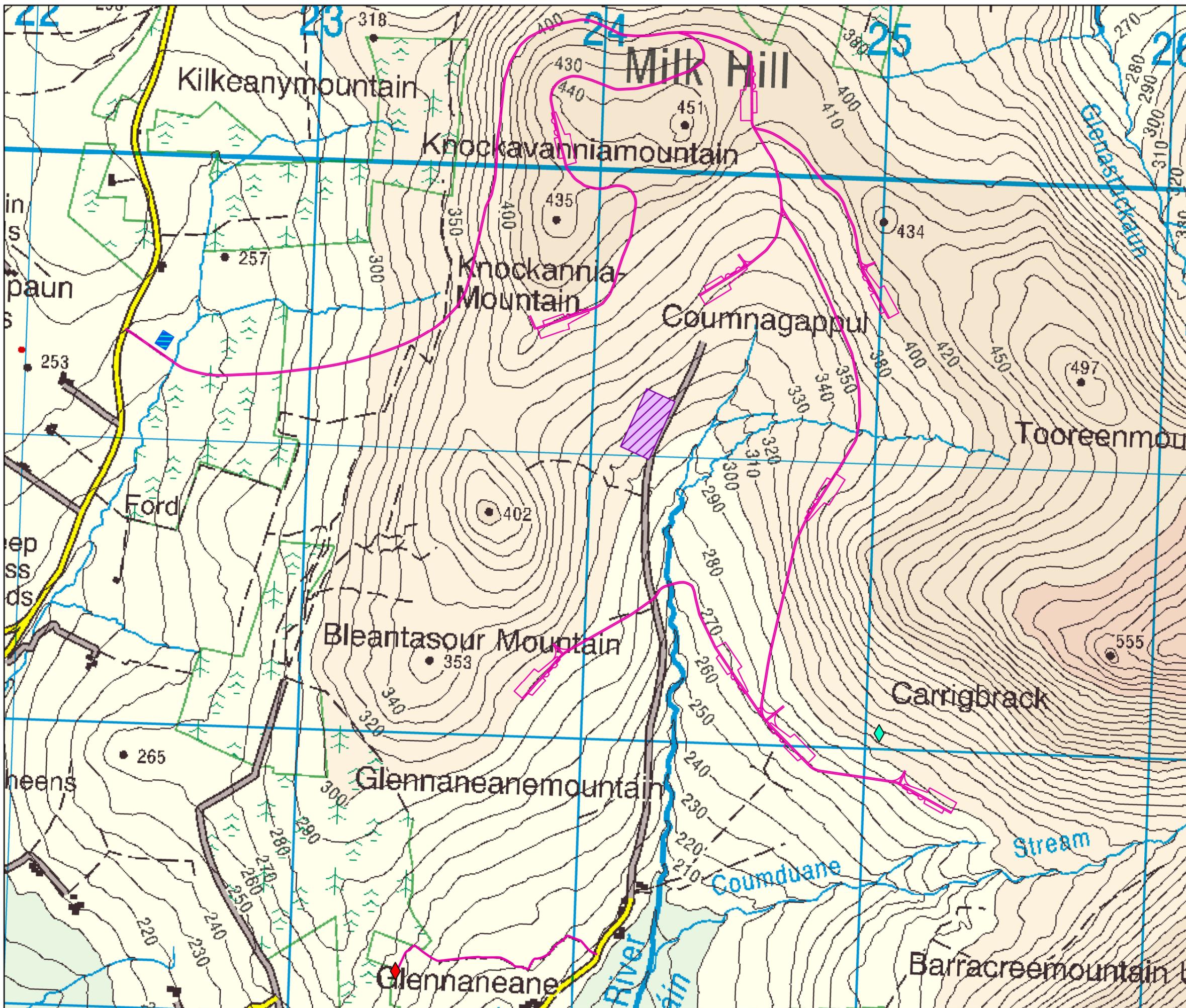
**5 Continents**  
Combined Geographical Experience of EMPower Team in Renewable Energy



Project:  
**Proposed Coumnagappul  
Wind Farm  
Co. Waterford**

Title:  
**Design Iteration 3a**

- Key:
- Indicative Substation Location
  - Indicative Turbine Infrastructure
  - Proposed Temporary Compound
  - Temporary Met Mast
  - Proposed Permanent Met Mast



Scale: 1:12,500

0 0.25 0.5 km

Date: 02/12/2022 Prepared By: RRK Checked By: MOC

