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Mr. Eoin O'Sullivan
Senior Environmental Scientist
McCarthy Keville O'Sullivan Ltd.
Block 1, G.F.S.C.
Moneenageisha Road
Galway

Our Ref: 351-2018

Your Ref: 170749

Re: EIA Scoping Document for the proposed Lyrenacarriga Wind Farm in the townland of Lyrenacarriga and adjacent townlands in Counties Waterford and Cork

Dear Mr. O'Sullivan,

I refer to your correspondence dated 25th May 2018 regarding the above which was sent to the Regional Engineer for consideration.

The recommendation is that you refer to:

- (1) Section 47 and 50 of the Arterial Drainage Act 1945 and
- (2) The Flood Risk Management Guidelines for Planning Authorities, November 2009.

Yours sincerely,



Elaine Carolan
Engineering Services Administration

3rd July 2018



Mr. Eoin O'Sullivan
McCarthy Keville O'Sullivan
Block 1, G.F.S.C.
Moneenageisha Road
Galway

Dáta | Date: 07 June 2018

Ár dTag | Our Ref.: TII18-101942

RE: EIA Scoping Request for proposed Lyrenacarriga Wind Farm in the townland of Lyrenacarriga and adjacent townlands in Counties Waterford and Cork for Innogy Renewables Ireland Ltd.

Project Description: Proposed Strategic Infrastructure Development application over a site of 1,400 ha. located approx. 5km southeast of Tallow, Co. Waterford and 15km northwest of Youghal, Co. Cork to hold approx. 25 no. turbines (ground to blade tip height of up to 150m), access roads, substation, control buildings, battery storage, borrow pits, underground cabling, temporary construction and permanent anemometry mast.

Dear Mr. O'Sullivan,

Transport Infrastructure Ireland (TII) acknowledges receipt of your EIA Scoping request in respect of the above proposed project.

National Strategic Outcome 2 of the National Planning Framework includes the objective to maintain the strategic capacity and safety of the national roads network. It is also an investment priority of the National Development Plan, 2018 – 2027, to ensure that the extensive transport networks which have been greatly enhanced over the last two decades, are maintained to a high level to ensure quality levels of service, accessibility and connectivity to transport users.

The issuing of this correspondence is provided as best practice guidance only and does not prejudice TII's statutory right to make any observations, requests for further information, objections or appeals following the examination of any valid application referred.

The approach to be adopted by TII in making such submissions or comments will seek to uphold official policy and guidance as outlined in the Spatial Planning and National Roads Guidelines for Planning Authorities (2012). Regard should also be had to other relevant guidance and circulars available at www.tii.ie.

In this instance the proposed emergent development is a windfarm scheme over 9 no. townlands in two irregularly shaped application areas over the counties of Cork and Waterford. The Scoping Document notes at 2.1 that access to the land is to be from the R634 and R627 and at 4.3 that the preferred turbine delivery route is to be from the port in Youghal via the R634.

TII have noted that the proposed EIA is to consider traffic and transportation as part of Material Assets (section 6.2.4.14 of Scoping Document) and will consider both construction and operational traffic impacts including volume, typology and routes.

With respect to EIA Scoping issues, the recommendations indicated below provide only general guidance for the preparation of EIA, which may affect the National Roads Network. The developer should have regard, *inter alia*, to the following;

Próiseálann BIÉ sonraí pearsanta a sholáthraítear dó i gcomhréir lena Fhógra ar Chosaint Sonraí atá ar fáil ag www.tii.ie.
TII processes personal data in accordance with its Data Protection Notice available at www.tii.ie.

1. As set down in the Spatial Planning and National Roads Guidelines it is in the public interest that, in so far as is reasonably practicable, that the national road network continues to serve its intended strategic purpose. The EIAR should identify the methods/techniques proposed for any works traversing/in proximity to the national road network in order to demonstrate that the development can proceed complementary to safeguarding the capacity, safety and operational efficiency of that network.
2. Consultations should be had with the relevant Local Authority/National Roads Design Office with regard to locations of existing and future national road schemes.
3. In relation to cabling and potential connection routing, the scheme promoter should note locations of existing and future national road schemes and develop proposals to safeguard proposed road schemes. In the context of existing national roads, alternatives to the provision of cabling along the national road network, such as alternative routing or the laying of cabling in private lands adjoining the national road, should be considered in the interests of safeguarding the investment in and the potential for future upgrade works to the national road network. The cable routing should avoid all impacts to existing TII infrastructure such as traffic counters, weather stations, etc. and works required to such infrastructure shall only be undertaken in consultation with and subject to the agreement of TII, any costs attributable shall be borne by the applicant/developer. The developer should also be aware that separate approvals may be required for works traversing the national road network,
4. Clearly identify haul routes proposed and fully assess the network to be traversed. Separate structure approvals/permits and other licences may be required in connection with the proposed haul route and all structures on the haul route should be checked by the applicant/developer to confirm their capacity to accommodate any abnormal load proposed.
5. TII Traffic and Transport Assessment Guidelines (2014) including the requirement for Road Safety Audit (RSA) and Road Safety Impact Assessment (RSIA).
6. Assessments and design and construction and maintenance standards and guidance are available at [TII Publications](#) that replaced the NRA Design Manual for Roads and Bridges (DMRB) and the NRA Manual of Contract Documents for Road Works (MCDRW).
7. The scheme designers should have regard to TII Environment Guidelines that deal with assessment and mitigation measures for varied environmental factors and occurrences.

Having regard to the foregoing, should you require clarification of any elements of the foregoing, contact should be made to TII, Land Use Planning Unit.

Yours sincerely,



Tara Spain
Head of Land Use Planning



Mr Eoin O'Sullivan,
Senior Environmental Scientist,
McCarthy Keville O'Sullivan Ltd.,
Block 1 GFSC,
Moneenageisha Road,
Galway



June 26th, 2018,

EIA Scoping Document for proposed Lyrencarriga Windfarm

Dear Mr O'Sullivan,

Thank you for requesting comment from Inland Fisheries Ireland on the above document.

The footprint of the site for the proposed development straddles the Cork/Waterford border and includes catchment areas of the Glenaboy River, River Bride, River Tourig and other minor tributaries discharging eastwards directly to the main channel of the Munster Blackwater. Given the significant recreational and commercial fisheries resource associated with the Munster Blackwater, IFI considers the following issues to be most relevant to the preparation of any development plans including method statements and general mitigations contained within.

Basic fish population data may be available for some of the watercourses lying within the development but survey work may be required in the case of minor tributaries or in upper catchment locations to ascertain fish species present in particular when it is likely that direct interference with the watercourses will occur as part of the proposed development.

Physical interference with stream channels. There should be no interference or alterations (drainage or otherwise) of watercourses without prior consultation with the appropriate Inland Fisheries Ireland. Instream works if required should only take place during the period July to September inclusive following consultation and agreement with IFI. It is therefore crucial to plan a schedule for any necessary in-stream works well in advance, eg crossing structures, in order to avoid calendar pinch points in the progression of the project.

Prevention of discharges of polluting matter such as cement. Uncured concrete can kill fish by altering the pH of the water. Pre-cast concrete should be used



whenever possible when within the environs of watercourses, to eliminate the risk to fish. When cast-in-place concrete is required, all work must be done in the dry and effectively isolated from any water that may enter watercourses for a period sufficient to cure the concrete.

Prevention of silt deposition in streams. One of the potential impacts from the development is the discharge of silt-laden waters to streams. The silt can clog salmonid spawning beds and can also precipitate further riverbank erosion downstream. Inevitably this can lead to loss or degradation of valuable habitat. It is important to incorporate best practices into construction methods and strategies to minimise discharges of silt/suspended solids to waters.

Silt traps should be constructed at locations that will intercept run-off to streams. The silt traps should not be constructed immediately adjacent to natural watercourses. A buffer zone should remain between the silt trap and the watercourse with natural vegetation left intact so as to assist silt interception.

Hardcore areas and roads The increased volumes of surface water runoff from hardcore areas and roads must not impact on the river habitat by giving rise to erosion. The drainage plan for all construction sites and the routes of access road networks should be cognisant of likely pressure points and vulnerable receptors with due extra emphasis on mitigation measures at such locations. Eg steep inclines close to watercourses.

All natural watercourses which have to be traversed during site development work should be effectively bridged prior to commencement of the main phase of works. The crossing of watercourses at fords is unacceptable because of the amount of uncontrolled sedimentation that can be generated by their use. Measures must be put in place to prevent silt run-off during road construction phase. Ie drainage networks should be developed in tandem as active road construction progresses not afterwards.

Stream crossings. Migration of fish must be unimpeded. Bridging should be of a nature that will not interfere with the natural streambed, stream width or its gradient. Clear span designs maintain the stream channel profile, do not alter stream gradients, readily pass sediment and debris, and retain the natural stream bed and gradient. Water velocity is not significantly changed, and they can be designed to maintain the normal stream width. As stated above the crossing of watercourses at fords is unacceptable ***Culvert pipes are not recommended.***



Storage of fuels/oils etc. All storage areas should be adequately bunded and hydrocarbon interceptors placed in locations to contain potential spillages on loading/working areas.

Having particular regard to the general topography and geology of the development site, ground stability should be kept under constant review, and that site development works should be carried out in such a manner as not to result in creation of unstable ground conditions, or subsequently lead to ground instability.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'A.T. Gillespie', is positioned below the closing 'Yours sincerely,'.

Andrew Gillespie,
Senior Fisheries Environmental Officer.

Ecological Comments

The applicants appear to be intending to address issues relating to ecology and ecological impacts in a thorough manner. The County Ecologist has no site specific information to add. As always with applications of this type, she recommends the following:

Applicants should provide the following:

- a detailed description of the habitats occurring at the site, including at the locations of each proposed turbine, along proposed new roads and roads to be widened, at substations and in any other areas where development is proposed to be informed by habitats survey;
- detailed descriptions of site conditions at all proposed water crossings;
- detailed contemporary bird usage data, collected by a competent ornithologist. It is recommended that data from a minimum of 2 breeding seasons and 2 wintering seasons would be presented. Survey for birds should be completed in accordance with recommended best practise as advised by SNH (Recommended bird survey methods to inform impact assessment of onshore windfarms);
- surveys for other flora and faunal species may be deemed to be necessary, depending on preliminary site appraisal and desk top data searches;
- soil and slope stability calculations;
- details of soil management proposals.

It is advised that final site layout would be designed to

- avoid intact peat habitats and any other habitats identified to be of high natural value;
- ensure undeveloped buffers will be maintained on all watercourses within the site boundary;
- ensure that turbines are located sufficiently distant (based on best scientific knowledge) from known nest sites and foraging areas of protected bird species, in particular red and amber listed species to ensure that disturbance related impacts on any species identified to be of relevance are avoided;
- provide for appropriate attenuation and control of surface water generating from the site.

Impact assessment should be carried out in accordance with best practise guidance as cited in the scoping report. Particular focus should be given to avoiding impacts on peatland habitats, freshwater habitats and on upland bird species that may be breeding within or near the site, and / or may hunting within or near the site.

In respect of AA issues, the applicants are advised to have particular regard to possible risk of impact to Natura 2000 sites linked to the Blackwater River. There may be other sites in Co. Waterford which also need to be considered depending on outcomes of screening.

It is advised that all survey work and ecological impact assessment and reporting be carried out by ecologists with appropriate competencies, and that the names and experience of the ecology team be cited in submitted reports.

Environmental Comments

The main potential impacts are:

- surface water sediment controls
- management/control of ground water infiltration to excavations/borrow pits
- cement waste control
- stream crossings - detailed design of any proposed bridges.
- stream fisheries value – how important are these streams
- culverting of streams - ideally no culverting other than crossings.
- refuelling arrangements/hydrocarbon storage
- chemical storage
- post operational phase site restoration/ removal of cables etc.
- compound welfare facilities for staff (temp toilets?)

A lot of the controls would be covered under a *site specific* CEMP, rather than a general CEMP based on contractor's procedures and policies.

Noise

The Environment noise impact assessment should fully assess the impact of the proposed development on the receiving noise environment and noise sensitive receptors during both the construction and operational phase. Any claims for methods of mitigation should be sufficiently detailed to allow audit of the claims. Any calculations should also be included along with details of any assumptions. It should be noted, however, that no liability can be accepted for any omission in the information submitted regardless of any advice given and a full assessment of the application can only be carried out when it is submitted to the relevant Planning Authority for approval.

Engineering Comments

The main concern from a Roads perspective is the impact to roads during the construction phase. This would include construction delivery routes and any requirements for excavations on the public road (for possible underground connections to the grid).

The EIA would need to clearly determine the most appropriate haul routes, having assessed impact, and propose mitigating measures – e.g. strengthening and replacement of culverts / bridges / roads as required; widening of junctions etc. to accommodate turning movements from oversized loads.*

Cork County Council local roads in the vicinity are generally 'legacy' roads that have not been strengthened to cater for HGVs and have low PSCI (Pavement Surface Condition Index) ratings. Some of these upland roads are particularly weak during winter months when water tables are high and road substructure saturated. The EIA would need to assess these legacy roads where proposed as haul routes with proposals to strengthen by the developer (or possibly by the Roads Authority by way of a development contribution) as required.

*Delivery of turbines / blades etc. would require the separate application for abnormal loads.

The impact to driver safety (at a minimum on the R634) from the wind farm during the operation phase would also need to be assessed.

on which the decision to grant or refuse the licence was based, and where conditions are attached to any licence, the reasons for the conditions. Both third parties and applicants will be also informed of their right to appeal any decision within 28 days to the Forestry Appeals Committee. Felling Licence decisions for 2018 are published online at:

<https://www.agriculture.gov.ie/forests-service/public-consultation/environmental-impact-assessment-2018-register-of-decisions/>

Yours sincerely

Liz McDonnell

Liz McDonnell | Executive Officer, **An tAonad um Chomhordú Timpeallachta, An Rannóg um Athrú Aeráide agus Beartas Bithfhuinnimh,**

Environmental Co-ordination Unit | Climate Change & Bioenergy Policy Division | environmentalco-ordination@agriculture.gov.ie

An Roinn Talmhaíochta, Bia agus Mara

Department of Agriculture, Food and the Marine

Lárionad Gnó Grattan, Bóthar Bhaile Átha Cliath, Port Laoise, Co Laoise, R32 K857

Grattan Business Centre, Dublin Road, Portlaoise, Co. Laoise, R32 K857

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www.agriculture.gov.ie

From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]

Sent: 25 May 2018 11:18

To: McDonnell, Liz

Subject: Re: 170749 - Lyrenacarriga Wind Farm - Scoping Document

Dear Ms McDonnell,

Innogy Renewables Ireland Ltd. is investigating the potential for a proposed wind energy development at Lyrenacarriga and adjacent townlands, located in Counties Waterford and Cork. McCarthy Keville O'Sullivan Ltd. has been appointed as Environmental Consultants on this project and will be preparing an Environmental Impact Assessment Report Statement (EIAR) for the proposed Lyrenacarriga Wind Farm.

We have attached a cover letter and Scoping Document which provides details of the proposed project. As part of the EIA process for the proposed development, we would welcome any comments in relation to the proposed project.

Please note we have had to reduce the size of this file for email - if you have any queries, please do not hesitate to contact me.

Kind regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv

Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.

Planning & Environmental Consultants

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Department of Agriculture, Food and the Marine

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An Roinn Talmhaíochta, Bia agus Mara

Tá an t-eolais san ríomhphost seo, agus in aon ceanglán leis, faoi phribhléid agus faoi rún agus le h-agmaigh an seolaí amháin. D'fhéadfadh ábhar an seoladh seo bheith faoi phribhléid profisiúnta nó dlíthiúil. Mura tusa an seolaí a bhí beartaithe leis an ríomhphost seo a fháil, tá cosc air, nó aon chuid de, a úsáid, a chóipeál, nó a scaoileadh. Má tháinig sé chugat de bharr dearmad, téigh i dteagmháil leis an seoltóir agus scríos an t-ábhar ó do ríomhaire le do thoil.



**An Roinn Cultúir,
Oidhreacht agus Gaeltachta**
Department of Culture,
Heritage and the Gaeltacht

Our Ref: **G Pre00135/2018** *(Please quote in all related correspondence)*
Your Ref: 170749

10 July 2018

Mr. Eoin O' Sullivan,
Senior Environmental Scientist,
McCarthy Keville O'Sullivan Ltd. Planning & Environmental Consultants,
Block 1,
G.F.S.C.
Moneenageisha Road,
Galway
H91 N8KK

Via email: eosullivan@mccarthykos.ie

**Re: Environmental Impact Assessment (EIA) Scoping Document for the Proposed
Lyrenacarriga Wind Farm in the townland of Lyrenacarriga and adjacent townlands
in Counties Waterford and Cork.**

A chara,

On behalf of the Department of Culture, Heritage and the Gaeltacht, I refer to correspondence received in connection with the above.

Outlined below are heritage-related observations/recommendations of the Department under the stated heading.

Underwater Archaeology:

Please submit the detailed Cultural Heritage Section as listed (6.2.4.13) so that this Department can consider the results and respond accordingly and formally.

It shall be noted that the Archaeological Impact Assessment should include an Underwater Archaeological Impact Assessment (UAIA) of any watercourses within the footprint of the proposed wind farms, including any areas for site compounds, haul roads, etc. and that might be impacted (either directly or indirectly) by the proposed works.

The UAIA shall be carried out by a suitably qualified and suitably experienced archaeologist and shall include hand held metal detection survey. The UAIA shall be licensed by the Department of Culture, Heritage and the Gaeltacht. If any watercourse proves too deep to facilitate wading survey (i.e.as recommended to max. depth of 0.75m), then an underwater archaeological dive assessment will be required.

Architectural heritage observations, should there be any, will follow in due course.

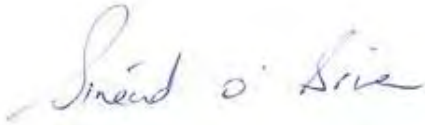
The above observations/recommendations are based on the papers submitted to this Department on a pre-planning basis and are made without prejudice to any observations that the Minister may

make in the context of any consultation arising on foot of any development application referred to the Minister, by the planning authority, in her role as statutory consultee under the Planning and Development Act, 2000, as amended.

You are requested to send further communications to this Department's Development Applications Unit (DAU) at manager.dau@ahg.gov.ie (team monitored); if this is not possible, correspondence may alternatively be sent to

The Manager,
Development Applications Unit (DAU),
Department of Culture, Heritage and the Gaeltacht,
Newtown Road,
Wexford,
Y35 AP90

Is mise, le meas



Sinéad O' Brien
Development Applications Unit



Your Ref: 170749

Our Ref: **G Pre00135/2018**

(Please quote in all related correspondence)

11 July 2018

Mr. Eoin O' Sullivan,
Senior Environmental Scientist,
McCarthy Keville O'Sullivan Ltd. Planning & Environmental Consultants,
Block 1,
G.F.S.C.
Moneenageisha Road,
Galway
H91 N8KK

Via email: eosullivan@mccarthykos.ie

Re: Environmental Impact Assessment (EIA) Scoping Document for the Proposed Lyrenacarriga Wind Farm in the townland of Lyrenacarriga and adjacent townlands in Counties Waterford and Cork.

A chara

On behalf of the Department of Culture, Heritage and the Gaeltacht, I refer to correspondence received in connection with the above.

Further to the Underwater Archaeology observations that this Department issued to you yesterday, 10th July, please find outlined below Architectural Heritage observations/recommendations of the Department.

Architectural Heritage

Please submit the draft report of the Archaeological, Architectural and Cultural Heritage Assessment (as listed in Section 6.2.4.13 of the EIAR Report) on foot of executing your proposed methodology so that this Department can consider the results and respond accordingly and formally.

The above observations/recommendations are based on the papers submitted to this Department on a pre-planning basis and are made without prejudice to any observations that the Minister may make in the context of any consultation arising on foot of any development application referred to the Minister, by the planning authority/ies, in her role as statutory consultee under the Planning and Development Act, 2000, as amended.



You are requested to send further communications to this Department's Development Applications Unit (DAU) at manager.dau@chg.gov.ie (team monitored); if this is not possible, correspondence may alternatively be sent to:

The Manager
Development Applications Unit (DAU)
Department of Culture, Heritage and the Gaeltacht
Newtown Road
Wexford
Y35 AP90

Is mise, le meas

A handwritten signature in blue ink, reading "Sinéad O'Brien", enclosed in a thin black rectangular border.

Sinéad O' Brien
Development Applications Unit



Your Ref: 170749

Our Ref: **G Pre00135/2018**

(Please quote in all related correspondence)

18 July 2018

Mr. Eoin O' Sullivan,
Senior Environmental Scientist,
McCarthy Keville O'Sullivan Ltd. Planning & Environmental Consultants,
Block 1,
G.F.S.C.,
Moneenageisha Road,
Galway
H91 N8KK

Via email: eosullivan@mccarthykos.ie

Re: Environmental Impact Assessment (EIA) Scoping Document for the Proposed Lyrenacarriga Wind Farm in the townland of Lyrenacarriga and adjacent townlands in Counties Waterford and Cork.

A chara

On behalf of the Department of Culture, Heritage and the Gaeltacht, I refer to correspondence received in connection with the above.

Further to the Underwater Archaeology observations that this Department issued to you on the 10th July and the Architectural Heritage observations on the 11th July, please find outlined below Nature Conservation observations/recommendations of the Department.

Nature Conservation

The proposed wind farm is upstream of the Moorhill Stream and Glenaboy River, which form part of the Blackwater River (Cork/Waterford) candidate Special Area of Conservation (cSAC) (2170). It is assumed that all necessary best-practice water quality mitigation measures will be carried out in the catchment of the cSAC during construction, but it is nevertheless recommended that an ecological clerk-of-works is employed during construction with powers to stop works in the event of a siltation or pollution event likely to occur.

This Department recommends that the following are assessed:

- Effects of any overhead powerlines or electricity cables crossing the Blackwater River or its tributaries, or the Blackwater Estuary, which has both cSAC and Special Protection Area (SPA) designations at various locations;



- A full geotechnical risk assessment where deep peat soils are to be excavated;
- How the performances of the mitigation measures to avoid siltation and/or pollution in the above tributaries of the Bride River part of the cSAC are to be monitored;
- A survey for the occurrence of otter and kingfisher in the above two tributaries of the Bride River part of the cSAC, and near any bridges which will require repair works to facilitate the transport of turbine components to the wind farm;
- A thorough baseline survey of bats using the wind farm area;
- A vegetation description and ecological survey of the broadleaf parts of the woodlands (especially at Knockaun townlands);
- A survey, preferably for two years, for breeding and wintering bird use of the affected areas.

The above observations/recommendations are based on the papers submitted to this Department on a pre-planning basis and are made without prejudice to any observations that the Minister may make in the context of any consultation arising on foot of any development application referred to the Minister, by the planning authority/ies, in her role as statutory consultee under the Planning and Development Act, 2000, as amended.

You are requested to send further communications to this Department's Development Applications Unit (DAU) at manager.dau@chg.gov.ie (team monitored); if this is not possible, correspondence may alternatively be sent to:

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Is mise, le meas

Sinéad O' Brien
Development Applications Unit

Guidelines on the treatment of tourism in an Environmental Impact Statement

1. Introduction

Tourism is a significant component of the Irish Economy – estimated to employ approximately 205,000 people – and contributing €6.6 billion in spending to the economy in 2014. The environment is one of the main resources upon which this activity depends – so it is important that the EIS evaluates whether and how the interacting impacts of a project are likely to affect tourism resources.

The purpose of this short note is to provide guidance on how these impacts can be assessed through the existing EIA process. Undertaking an EIA is governed by the EIA Advice Notes published by the EPA. These Advice Notes contain detailed guidance on how to describe and evaluate the effects arising from a range of projects, including tourism projects.

These guidelines were written with the assistance of Conor Skehan, Head of Department of Environment and Planning, Dublin Institute of Technology.

2. Tourism and the Environment

There are two interactions between tourism and the environment.

1. Impacts caused by Tourism Projects
2. Impacts affecting Tourism (e.g. the quality of a destination or a tourism activity)

Impacts caused by Tourism Projects

Tourism projects can give rise to effects on the environment. These are specifically dealt with under a number of Project Types in the Advice Notes, specifically:

12 TOURISM AND LEISURE

- a. Ski-runs, ski-lifts and cable-cars where the length would exceed 500 metres and associated developments. Project Type 20
- b. Sea water marinas where the number of berths would exceed 300 and fresh water marinas where the number of berths would exceed 100. Project Type 10

c. Holiday villages which would consist of more than 100 holiday homes outside built-up areas; hotel complexes outside built-up areas which would have an area of 20 hectares or more or an accommodation capacity exceeding 300 bedrooms. Project Type 28

d. Permanent camp sites and caravan sites where the number of pitches would be greater than 100. Project Type 28

e. Theme parks occupying an area greater than 5 hectares. Project Type 29

Figure 1 The Advice Notes contain detailed descriptions on how to describe and evaluate the effects arising from a range of tourism projects.

Impacts affecting Tourism

Environmental effects of other projects on tourism are not specifically addressed in the Advice Notes. Taking account of the significance of tourism to the Irish economy a specialist topic of 'Tourism' has been prepared to facilitate a systematic evaluation of effects on this sector within the format laid down for other parts of the Environmental Impact Statement.

It is not intended that the assessment of effects on tourism should become a separate section of the Impact Statement, instead it is intended to become a specialist sub-section of the topic 'Human Beings' which is currently described in Section 2 of the Advice Notes

3. Tourism in the Existing Environment

Introduction

Visitor attitude surveys reveal that the following factors – in order of priority – are the reasons that tourists visit and enjoy Ireland:

- Beautiful scenery
- Friendly & hospitable people
- Safe & Secure
- Easy, relaxed pace of life
- Unspoilt environment
- Nature, wildlife, flora
- Interesting history & culture
- Plenty of things to see and do
- Good range of natural attractions

It is noteworthy that over half of the factors listed are environmental and that all others are related to the way of life of the people. The following describes how these factors are considered within an EIS, set out under EIA topic headings, and how they interact with tourism.

Beautiful scenery

This is covered in the '*Landscape*' Section. Particular attention needs to be paid to effects on views from existing purpose-built tourism facilities, especially hotels, as well as views from touring routes and walking trails. It is important to note that there appears to be evidence that the visitor's expectations of 'beautiful' scenery does not exclude an admiration of new modern developments – such as windfarms – which appear to be seen as indicative of an modern, informed and responsible attitude to the environment.

Friendly & hospitable people

This is not an environmental factor though it is indirectly covered under the '*Human Beings*' section of the EIS. The principal factor is the ratio of visitors to residents. This is of less significance in areas with long-established patterns of tourism.

Safe & Secure

This is not an environmental issue – though some of the factors that are sometimes covered under the heading of '*Human Beings*' – such as social inclusion or poverty – can point to likely effects and interactions.

Easy, relaxed pace of life

This is not an environmental issue though it is partially covered under '*Human Beings*' – see comments above.

Unspoilt environment

This is covered under the sections dealing with '*Landscape*', '*Flora*' and '*Fauna*' and to a lesser extent under emissions to '*Water*' and '*Air*'. In some instances traffic congestion, especially in rural areas, can be an issue, this is usually covered within '*Material Assets*'.

Nature, wildlife, flora

This is principally covered under the headings of '*Flora*' and '*Fauna*' and to a lesser extent by '*Landscape*', '*Water*' and '*Air*'. The principal issues being to avoid any effects that might reduce the health or extent of the habitats. This can occur either directly, by impinging on the site, or indirectly, through emission, that can affect the natural resources, like clean water, which the habitat depends on. It also considers effect on physical access to and visibility of these sites. Occasionally there are concerns about the disturbance or wear and tear of visitor numbers to such sites.

Interesting history & culture

This is principally covered under '*Cultural Heritage*' and, to a lesser extent, under '*Human Beings*'. The principal issues being to avoid damage to sites and structures of cultural, historical, archaeological or architectural significance – and to their contexts or settings. It also considers effect on physical access to and visibility of these sites. Occasionally there are concerns about the wear and tear of visitor numbers to such sites.

Plenty of things to see and do.

This is not an environmental issue though it is partially covered by the '*Human Beings*' section, where the tourism resources of an area are described and assessed.

Good range of natural attractions

This is covered by the '*Landscape*', '*Flora*', '*Fauna*', and '*Cultural Heritage*' sections of the EIS.

4. Project factors affecting Tourism

Introduction

Tourism can be affected both by the structures or emissions of new developments as well as by interactions between new activities and tourism activities – for example the effects of high volumes of heavy goods vehicles passing through hitherto quiet, scenic, rural areas. Tourism can be affected by a number of the characteristics of the new project such as:

- New Developments
 - Social Considerations
 - Land-uses and Activities
-
- ***New Developments*** - will the development stimulate or suppress demand for additional tourism development in the area? If so, what type, how much and where? Marinas, golf courses, other major sporting facilities as well as theme parks and larger conference facilities can all stimulate the emergence of new accommodation, catering and leisure facilities often within an extensive area around a new primary visitor facility. Extensive urbanisation and large scale infrastructure as well as certain processing and extractive industries all have the potential to suppress demand for additional tourism – but usually only in the immediate locality of the new development. It should be noted however, that some types of new or improved large scale infrastructure – such as roads – can improve the visitor experience – by increasing safety and comfort or can convey a sense of environmental responsibility – such as wind turbines.
 - ***Social Consideration*** - will the development change patterns and types of activity and land use? Will it affect the demographics, economy or social dynamics of the locality?
 - ***Land-use*** - will there be severance, loss of rights of way or amenities, conflicts, or other changes likely to ultimately alter the character and use of the tourism resources in the surrounding area?

Existing Tourism

In the area likely to be affected by the proposed development, the following attributes of tourism, or the resources that sustain tourism, should be described under the following headings.

Note that the detailed description and analysis will usually be covered in the section dealing with the relevant environmental topic – **such as 'Landscape'**. Only the relevant finding as to the likely significance to, or effect on, tourism needs to be summarised in this section.

Context

Indicate the location of sensitive neighbouring tourism resources that are likely to be directly affected, and other premises which although located elsewhere, may be the subject of secondary impacts such as alteration of traffic flows or increased urban development. The following should be noted in particular:

- Hotels, conference centres, holiday accommodation – including holiday villages, holiday homes, and caravan parks.
- Visitor centres, Interpretive centres and theme parks
- Golf courses, adventure sport centres and other visitor sporting facilities
- Marinas and boating facilities
- Angling facilities
- Equestrian facilities
- Tourism-related specialist retailers and visitor facilities
- Historic and Cultural Sites
- Pedestrian, cycling, equestrian, vehicular and coach touring routes

Indicate the numbers of premises and visitors likely to be directly affected directly and indirectly.

Identify and quantify, where possible, their potential receptors of impacts, noting in particular transient populations, such as drivers, walkers, seasonal and other non-resident groups.

Describe any significant trends evident in the overall growth or decline of these numbers, or of any changes in the proportion of one type of activity relative to any other.

Indicate any commercial tourism activity which likely to be directly affected, with resultant environmental impacts.

Character

Indicate the occupations, activities or interests of principal types of tourism in the area. – Where relevant, describe the specific environmental resources or attributes in the existing environment which each group uses or values; where relevant, indicate the time, duration or seasonality of any of those activities. For example describe the number of guides, boats and anglers who use a salmon fishery and the duration of the salmon season as well as the quantity and type of local accommodation that is believed to be used by the anglers.

Significance

Indicate the significance of the principal tourism assets or activities likely to be affected. Refer to any existing formal or published designation or recognition of such significance. Where possible provide an estimate of the contribution of such

tourism activities to the local economy. For instance refer to the number of annual visitors to a tourism attraction or to the grading of a hotel.

Sensitivity

Describe any significant concerns, fears or opposition to the development known to exist among tourism interests. Identify, where possible, the particular aspect of the development which is of concern, together with the part of the existing tourism resource which may be threatened. For instance describe the extent of a potential visual intrusion onto a site of historic significance which is the main local tourist attraction.

5. Impacts on Tourism

"Do Nothing" Impact;

Describe how trends evident in the existing environment will continue and how these trends will affect tourism.

Predicted impact;

- Describe the location, type, significance, magnitude/extent of the tourism activities or assets that are likely to be affected.

- Describe how the new development will affect the balance between long-established and new dwellers in an area and it's affect on the cultural or linguistic distinctiveness of an area. For example describe the effect of a new multi-national population required for an international call-centre located in a Gaeltacht area.

- Describe how changes in patterns of employment, land use and economic activity arising from the proposed development will affect tourism, for example, illustrating how a new industrial development will diversify local employment opportunities thereby reducing the **area's unsustainable over-reliance** on seasonal tourism.

- Describe the consequences of change, referring to indirect, secondary and cumulative impacts on tourism; Examples can include describing how the new development may lead to a reduced assimilative capacity for traffic or water during the peak of the tourism season or how new urbanism combined with existing patterns of tourism may lead to unsustainable levels of pedestrian traffic through a sensitive habitat.

- Describe the potential for interaction between changes induced in tourism and other uses that may affect the environment – for instance increasing new tourism-related housing affecting water resources or structures

- Describe the worst case for tourism if all mitigation measures fail.

6. Mitigating adverse impact on Tourism

Describe the mitigation measures proposed to:

- **avoid** sensitive tourism resources – such as views, access, and amenity areas including habitats as well as historical or cultural sites and structures.
- **reduce** the exposure of sensitive resources to excessive environmental **burdens arising from the development's emissions or volumes of traffic** [pedestrian and vehicular], and/or losses of amenity arising from visually conspicuous elements of the development – for example by prioritizing visual screening of views from a hotel towards a quarry.
- **reduce** the adverse effects to tourism land uses and patterns of activities – especially through interactions arising from significant changes in the intensity of use or contrasts of character or appearance – for example by separating traffic routes for industrial and tourism traffic.
- **remedy** any unavoidable significant residual adverse effects on tourism resources or activities, for example by providing alternative access to tourism amenities – such as waterways or monuments.

Eoin O'Sullivan

To: McCarthy Keville O'Sullivan Ltd.
Subject: FW: EIA Scoping for proposed Lyrenacarriga Wind Farm

Dear Eoin,

Thank you for notification of EIA Scoping for proposed Lyrenacarriga Wind Farm in Counties Waterford and Cork. I have reviewed proposed scope of EIAR Content and consider it comprehensive. The key issues to be addressed are visual impacts on landscape including landscape demesnes along the Blackwater Valley and Waterford Garden Trail, impacts from Forestry clearance to River Blackwater Catchment on both hydrology and qualifying habitats and species of the SAC. Impacts on qualifying species of the Blackwater Callows SPA in terms of potential risk of bird strike. Impacts on archaeological sites and monuments. Cumulative impacts with other wind farm developments in both Cork and Waterford and other proposed developments in the catchment such as the Waterford Blueway on the River Blackwater. Potential for Hen Harrier within the forested area should also be surveyed for and recorded in the EIA.

Regards,

Bernadette

Bernadette Guest
Heritage Officer
Waterford City and County Council

bguest@waterfordcouncil.ie

0761 10 2668 / 086 8590341



www.waterfordcouncil.ie

Irish Aviation Authority
The Times Building
11-12 D'Olier Street
Dublin 2, Ireland

Údarás Eitlíochta na hÉireann
Foirgneamh na hAmanna
11-12 Sráid D'Olier
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T: +353 1 603 1546
F: +353 1 679 2935
www.iaa.ie



Directors' Office

Oifig Stiúirthóirí

13th June 2018

Mr Eoin O Sullivan
McCarthy Keville O Sullivan
Planning & Environmental Consultants
Block 1, G.F.S.C.
Moneenageisha Road,
Co Galway



Development: It is envisaged that the proposed wind farm will comprise up to a p proximately 25 wind turbines with a ground to blade tip height of up to 150 met res, access roads, electricity substation and wind farm control buildings, battery storage facility, borrow pits, electrical underground cabling for grid connection, temporary construct lon compound and a permanent anemometry mast at town land of Lyrenacarriga and adjacent townlands in Counties Waterford and Cork. Ref: 170749.

Dear Eoin

I refer to the request for planning permission for the above development, details of which were received by the Irish Aviation Authority from your company.

It is the observation of the Irish Aviation Authority that in the event of planning consent being granted, the applicant should be conditioned to contacting the Irish Aviation Authority to

- (1) Agree an aeronautical obstacle warning light scheme for the wind farm development,
- (2) Provide as-constructed coordinates in WGS84 format together with ground and tip height elevations at each wind turbine location and
- (3) Notify the Authority of intention to commence crane operations with a minimum of 30 days prior notification of their erection

Yours sincerely

Deirdre Forrest
Corporate Affairs

Bord Stiúirthóirí/Board of Directors
Anne Nolan (Cathaoirleach/Chairman),
Marie Bradley, Ernie Donnelly, Pascal Fitzgerald,
Basil Geoghegan, Michael Norton,
Geoffrey O'Byrne-White

Oifig Chláraithe:
Foirgneamh na hAmanna, 11-12 Sráid D'Olier
Baile Átha Cliath 2, Éire
Uimhir Chláraithe: 211082. Áit Chláraithe: Éire
Cuideachta Dlíteanais Theoranta

Registered Office:
The Times Building, 11-12 D'Olier Street
Dublin 2, Ireland
Registered No. 211082. Registered in Ireland
A Limited Liability Company



Eoin O'Sullivan

From: Roger Woods <rwoods@bai.ie>
Sent: 25 May 2018 16:56
To: Eoin O'Sullivan
Subject: RE: 170749 - Lyrenacarriga Wind Farm - Scoping Document

Hi Eoin

The BAI does not perform an in-depth analysis of the effect of wind turbines on FM networks. However, we are not aware of any issues from existing windfarms into existing FM networks. Also, the proposed windfarms are not located close to any existing or planned FM transmission sites.

Regards

Roger

Senior Executive Engineer
Broadcasting Authority of Ireland
2-5 Warrington Place
Dublin D02 XP29

Tel: 01 6441200
Fax: 01 6441299

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From: Eoin O'Sullivan [mailto:eosullivan@mccarthykos.ie]
Sent: Friday 25 May 2018 11:19
To: Roger Woods <rwoods@bai.ie>
Subject: Re: 170749 - Lyrenacarriga Wind Farm - Scoping Document

Dear Mr. Woods,

Innogy Renewables Ireland Ltd. is investigating the potential for a proposed wind energy development at Lyrenacarriga and adjacent townlands, located in Counties Waterford and Cork. McCarthy Keville O'Sullivan Ltd. has been appointed as Environmental Consultants on this project and will be preparing an Environmental Impact Assessment Report Statement (EIAR) for the proposed Lyrenacarriga Wind Farm.

We have attached a cover letter and Scoping Document which provides details of the proposed project. As part of the EIA process for the proposed development, we would welcome any comments in relation to the proposed project.

Please note we have had to reduce the size of this file for email - if you have any queries, please do not hesitate to contact me.

Kind regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

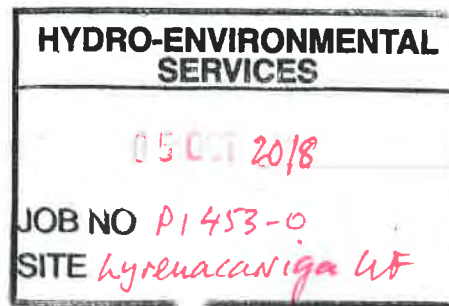
McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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Michael Gill,
Hydroenvironmental Services Ltd.,
22 Lower Main St.,
Dungarvan,
Co. Waterford

02/10/2018

Uisce Éireann
Bosca OP 6000
Baile Átha Cliath 1
Éire

Irish Water
PO Box 6000
Dublin 1
Ireland

T: +353 1 89 25000
F: +353 1 89 25001
www.water.ie

Re: Scoping for Lyrenacarriga Windfarm EIA Scoping Document

Dear Mr. Gill,

Irish Water (IW) acknowledges receipt of your email dated 21st September regarding the Environmental Impact Assessment Report (EIA) scoping for the above development.

Irish Water wishes to advise that the study area provided in the Scoping Document is in close proximity to two source intakes, one of which is located on the Glendine River, and a second source is potentially located on a nearby river/stream. These intakes supply water to the Glendine WTP and Boola WTP further downstream. The attached map shows the indicative location of one of the sources and both WTPs, but further assessment will be required to determine the location of the sources in relation to the proposed 'Potential viable areas' for the windfarm development. This would include determining the location of the second source (IW does not yet have a location for this source on our GIS mapping system). An assessment of the impact of the proposed development on these assets, as well as the complete upstream waterbody feeding into these assets, is required. It is noted that in Section 6.2.4.9 of the EIA scoping document there is an undertaking to identify potential downstream receptors such as water supplies, and this is welcomed.

Please see attached our suggested scope in relation to water services, and note in particular the requirements of item (g) as follows:

- g) Any potential impact on the contributing catchment of water sources either in terms of water abstraction for the development (and resultant potential impact on the capacity of the source) or the potential of the development to influence/ present a risk to the quality of the water abstracted by IW for public supply.*

We also suggest a site investigation be carried out prior to the beginning of construction and proposals outlined for dealing with situations where works would interfere with existing water services infrastructure (watermains, service connections, rising mains, foul and surface water sewers, culverts, etc.).

Yours Sincerely,

S.P. lllh lllh

Suzanne Dempsey
Spatial Planning Strategy Specialist

Response to EIAR Scoping Report Requests

IW currently does not have the capacity to advise on scoping of individual projects. However, in general we would like the following aspects of Water Services to be considered in the scope of an EIAR where relevant;

- h) Impacts of the development on the capacity of water services (do existing water services have the capacity to cater for the new development if required).
- i) Any up-grading of water services infrastructure that would be required to accommodate the development.
- j) In relation to a development that would discharge trade effluent – any upstream treatment or attenuation of discharges required prior to discharging to an IW collection network
- k) In relation to the management of surface water; the potential impact of surface water discharges to combined sewer networks & potential measures to minimise/stop surface waters from combined sewers
- l) Any physical impact on IW assets – reservoir, treatment works, pipes, pumping stations, discharges outfalls etc. including any relocation of assets
- m) Any potential impacts on the assimilative capacity of receiving waters in relation to IW discharge outfalls including changes in dispersion /circulation characterises
- n) Any potential impact on the contributing catchment of water sources either in terms of water abstraction for the development (and resultant potential impact on the capacity of the source) or the potential of the development to influence/ present a risk to the quality of the water abstracted by IW for public supply.
- o) Where a development proposes to connect to an IW network and that network either abstracts water from or discharges waste water to a “protected”/sensitive area, consideration as to whether the integrity of the site/conservation objectives of the site would be compromised.
- p) Mitigation measures in relation to any of the above

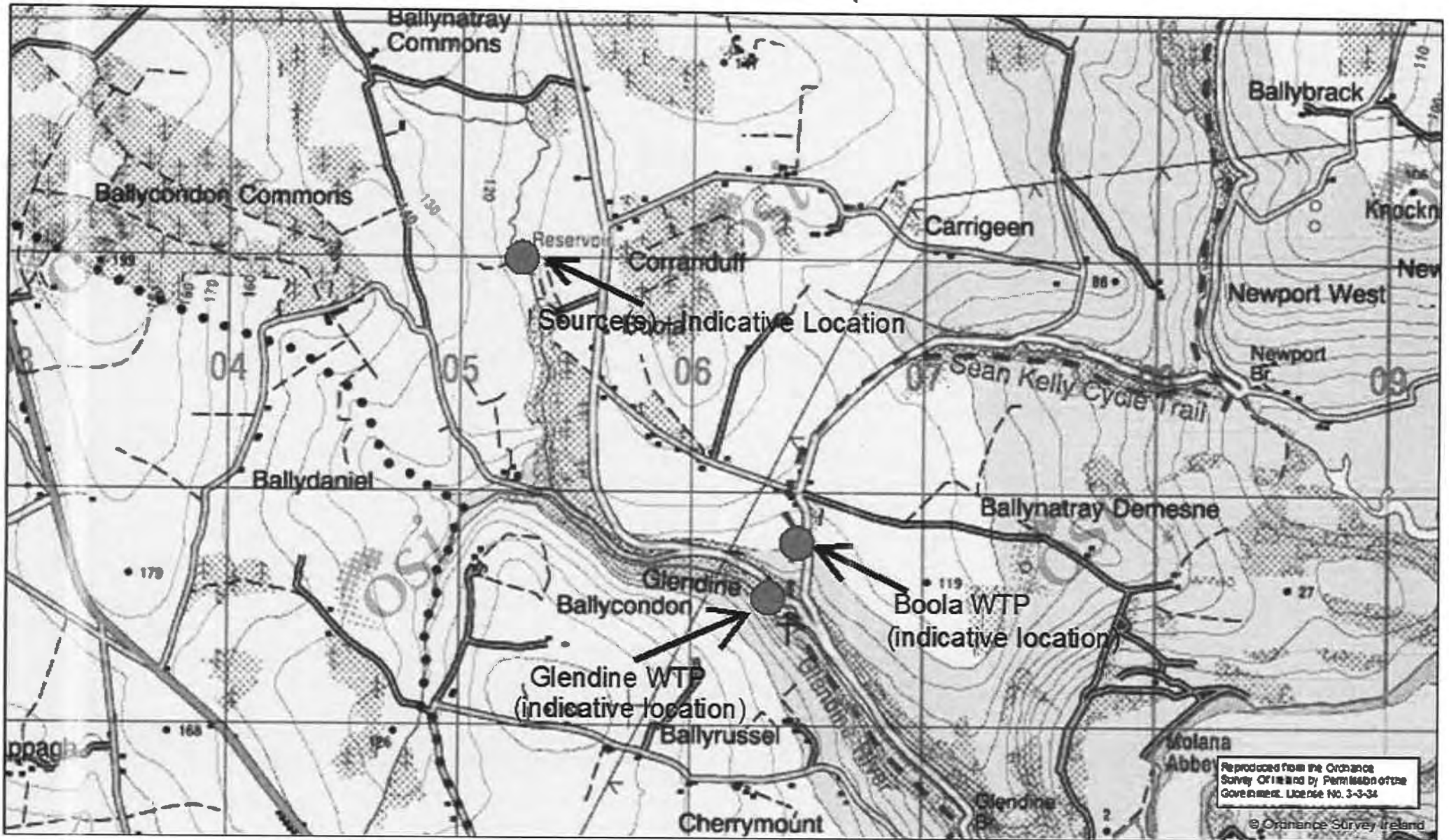
This is not an exhaustive list.

Please note

- If a development will require a connection to either a public water supply or sewage collection system the developer is advised to contact Irish Water’s Connections and Developer Services Team prior to applying for planning permission. The contact in the Southern region is Tadhg Coffey; tadcoffey@water.ie
- For information on Irish Water assets please send a query to DataRequests@water.ie

Irish Water will not normally accept new surface water discharges to combined sewer networks.

Irish Water Web Map









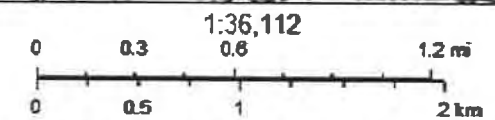
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October 1, 2018

Legend

- | | | |
|--|---|---|
|  Treatment plant |  Reservoir |  Pump Stations |
|  Treatment Plant |  Potable | |
| |  Raw Water | |



While every care has been taken in the compilation of this map, the information is the property of the Irish Water and is provided as a general guide only. The user understands that it is based on the best available information provided by each local authority in relation to Irish Water. Irish Water can assume no responsibility for and give no guarantee, indemnity or warranty concerning the accuracy, completeness or up-to-date nature of the information provided. Irish Water does not accept any liability whatsoever arising from any errors or omissions. This information should not be relied upon in the event of excavations or any other work being carried out in the vicinity of the Irish Water underground network. The user is on the same footing as any other work to ensure the most accurate location of the Irish Water underground network is identified prior to excavations or any other work being carried out. Service connection pipes are not generally shown but their presence should be anticipated.

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OPW

Oifig na nOibreacha Poiblí
The Office of Public Works



Ceann Oifig
Sráid Jonathan Swift
Baile Átha Troim
Co. na Mí
C15 NX36

Head Office
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Trim
Co Meath
C15 NX36

Fón/Phone: (0761) 10 6000
(046) 942 6000
Facs/Fax: (046) 948 1793
Íosghlao/LoCall 1890 213414
Suíomh gréasáin/website: www.opw.ie



Mr. Eoin O’Sullivan
Senior Environmental Scientist
McCarthy Keville O’Sullivan Ltd.
Block 1, G.F.S.C.
Moneenageisha Road
Galway

Our Ref: 351-2018

Your Ref: 170749

Re: EIA Scoping Document for the proposed Lyrenacarriga Wind Farm in the townland of Lyrenacarriga and adjacent townlands in Counties Waterford and Cork

Dear Mr. O’Sullivan,

I refer to your correspondence dated 25th May 2018 regarding the above which was sent to the Regional Engineer for consideration.

The recommendation is that you refer to:

- (1) Section 47 and 50 of the Arterial Drainage Act 1945 and
- (2) The Flood Risk Management Guidelines for Planning Authorities, November 2009.

Yours sincerely,

Elaine Carolan
Engineering Services Administration

3rd July 2018

Eoin O'Sullivan

From: Eamonn Horgan <eamonn.horgan@waterwaysireland.org>
Sent: 01 June 2018 13:21
To: Eoin O'Sullivan
Subject: FW: 170749 Ref scoping doc EIA Lyrenacarriga wind farm

Dear Eoin O'Sullivan

Waterways Ireland will not be commenting on the scoping document for the above wind farm as it is not located within any zone of influence of any of our navigations.

Kind Regards
Eamonn

*Eamonn Horgan
Environment and Heritage Officer
Waterways Ireland
Dock Road, Drewsborough,
Scarriff, Co. Clare
V94 H7N1*

mobile: +353-86-8548696

Direct Line +353-(0)61-922146

eamonn.horgan@waterwaysireland.org

Please forward all non professional related communications to eamonnhorgantri@gmail.com

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MKO-Admin

From: ECBB Info <info@eastcork.net>
Sent: Friday 9 February 2018 10:10
To: Eoin O'Sullivan
Subject: Re: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Importance: High

Hi there Eoin,

My apologies - I thought someone in the office had dealt with this. I can confirm that we have no links inside that red box on your map.

Kind regards,

Malcolm Stead
East Cork Broadband

----- **Original Message** -----

From: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
To: 'info@eastcork.net' <info@eastcork.net>
Sent: 09/02/2018 09:13:47
Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Malcolm,

Can you please confirm if East Cork Broadband has links in the area outlined on the attached site location map?

Thank you

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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From: Eoin O'Sullivan
Sent: 24 January 2018 13:06

To: 'info@eastcork.net' <info@eastcork.net>

Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Malcolm,

Further to my email below of the 17 January 2018, can you please let me know if East Cork Broadband has links in the area outlined on the attached site location map?

Thank you for your time in this matter.

Kind Regards

Eoin

Eoin O'Sullivan MSc. CWEM CEnv

Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.

Planning & Environmental Consultants

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From: Eoin O'Sullivan

Sent: 17 January 2018 10:55

To: info@eastcork.net

Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Malcolm,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if East Cork Broadband has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv

Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.

Planning & Environmental Consultants

Block 1, G.F.S.C. Moneenageisha Road, Galway. H91 N8KK

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MKO-Admin

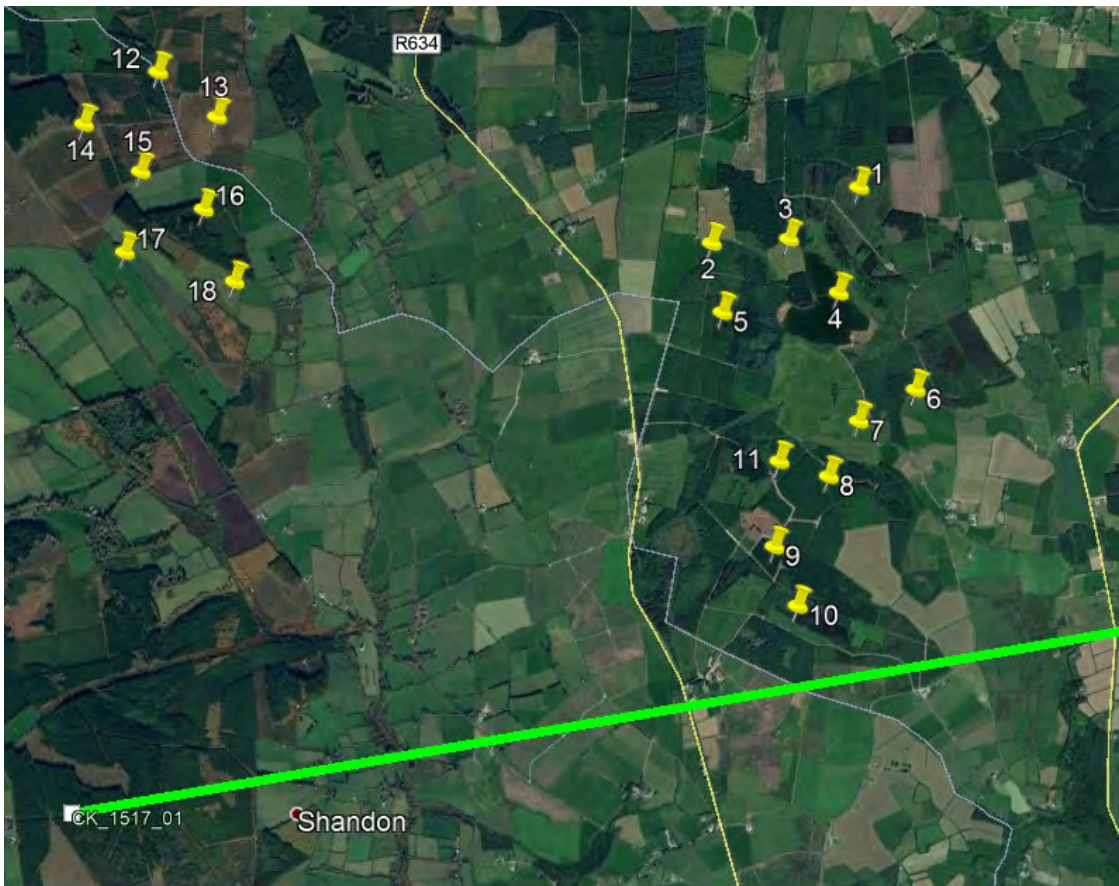
From: John Bagnall <john.bagnall@eir.ie>
Sent: Monday 19 August 2019 11:51
To: Eoin O'Sullivan
Cc: Mobile Networks TXN
Subject: Re: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Eoin,

Those new turbine location are fine, we are over 300m from the nearest location. Best of luck with you application.

Please keep sending new development analysis request to MobileNetworksTXN@eir.ie for Eir Mobile (formerly Meteor) network analysis.



Kind regards,



John Bagnall
Transmission Design & Engineering

M: +353 85 1053746
E: john.bagnall@eir.ie
Address: EirCode - D24 HX03

On Fri, 16 Aug 2019 at 12:29, Eoin O'Sullivan <eosullivan@mkoireland.ie> wrote:

Hi John,

Further to our correspondence below, we now have coordinates for the proposed turbine locations at the Lyrenacarriga Wind Farm site as set out below. Can you please let me know if Eir has any further links in the vicinity of the turbine locations? The link coordinates in your email below of the 20th February 2018 have been noted.

ID	Easting	Northing
1	603992	587718
2	603109	587386
3	603575	587412
4	603,876	587,091
5	603176	586974
6	604338	586514
7	603996	586326
8	603,813	585,998
9	603486	585581
10	603622	585230
11	603516	586088
12	599804	588402
13	600156	588135
14	599365	588089
15	599702	587808
16	600078	587585
17	599608	587329
18	600260	587156

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

MKO

Tuam Road, Galway

Ireland, H91 VW84

+353 (0) 91 735611

www.mkoireland.ie



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From: John.Bagnall@eir.ie <John.Bagnall@eir.ie>
Sent: 20 February 2018 12:20
To: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Cc: Brendan.OFlaherty@eir.ie
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

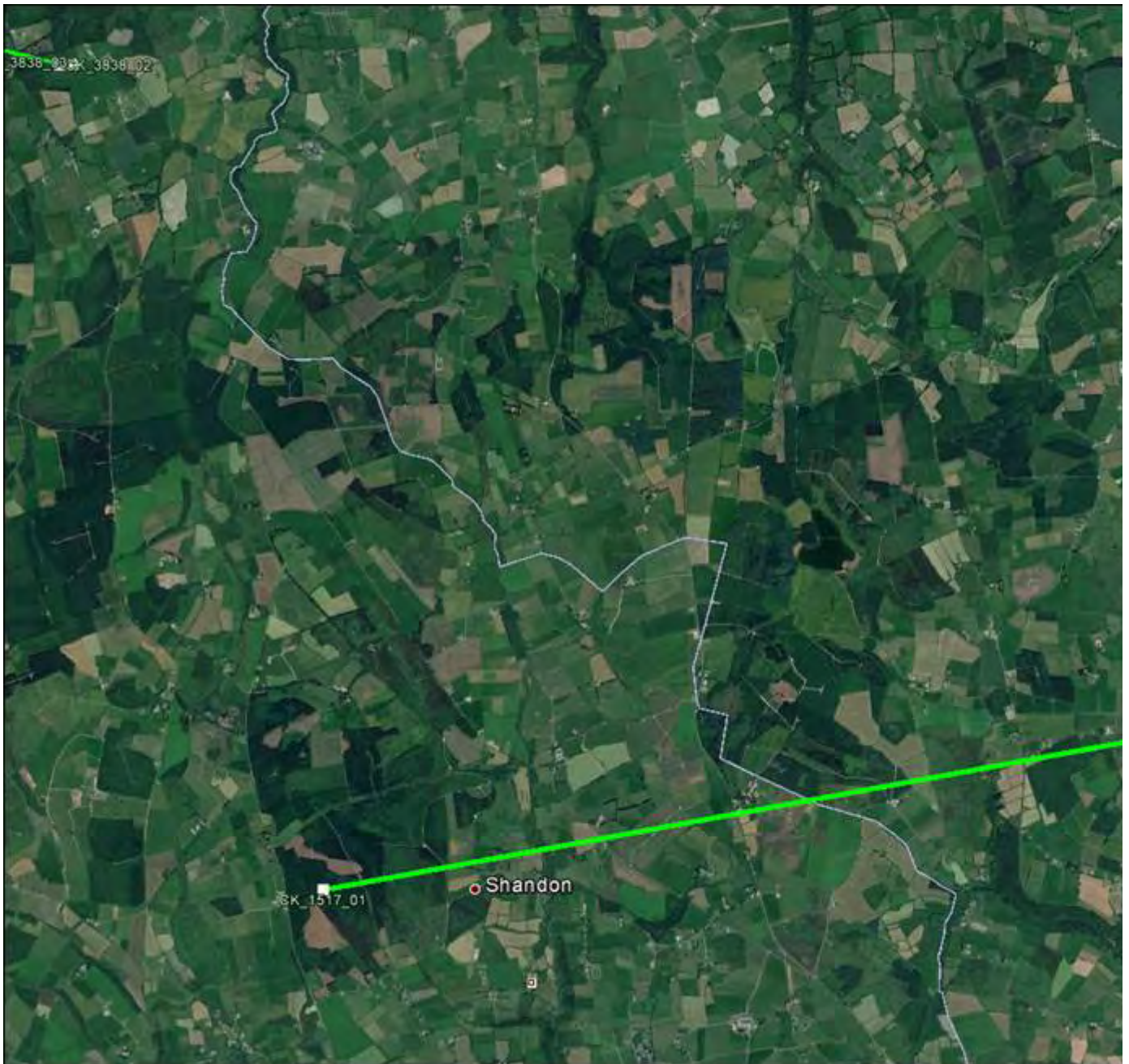
Eoin,

We have on site and transmission link within the proposed areas, that could be at risk, the end points of the transmission link are below, if you could keep a buffer of 100meters away from this transmission path when placing you turbines and send on for further analysis.

End point 1 – CK_1517 - 52° 0'32.07"N 8° 0'34.12"W

End point 2 – WD_3081 - 52° 2'7.33"N 7°44'48.56"W

Please keep send all windfarm analysis to myself for Eir Mobile previously Meteor.



Kind Regards,

John Bagnall 
Transmission Design & Engineering

0851053746
John.bagnall@eir.ie

4030 Kingswood Ave, Citywest, Dublin 24.



From: O'Flaherty, Brendan
Sent: 05 February 2018 12:13
To: Bagnall, John
Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Another.

From: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Sent: 17 January 2018 10:04
To: WindFarmsDG
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Sir/Madam,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if Eir and Meteor has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

MKO-Admin

From: Paul McDonagh <paul.mcdonagh@esb.ie>
Sent: Friday 16 February 2018 12:36
To: Wilson Dalikeni; Eoin O'Sullivan
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm
Attachments: ATT00001.txt; ATT00002.htm

Hi Eoin

I have analysed the proposed location of the windfarm and it will have an impact on ESB Networks Point to multi point telemetry system.

ESB networks has a number of 38kV HV Stations that utilize Carrondavderg as their transmission station. The proposed location would have an impact on the following stations.

- Castlelyons 38kV Station
- Curraghglass 38kV Station
- Lismore 38kV Station

Regards

Paul

From: Dalikeni. Wilson (Telecom Services)
Sent: 26 January 2018 11:59
To: McDonagh. Paul (ESB Networks) <paul.mcdonagh@esb.ie>
Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Paul,

Not sure if I forwarded this request to you already.

Regards,

Wilson Dalikeni | WAN Team Manager, Telecom Services | ESB Networks | T: +353 1 702 6814 / +353 87 257 9770 | www.esbnetworks.ie

From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: 24 January 2018 13:06
To: Dalikeni. Wilson (Telecom Services) <Wilson.Dalikeni@esb.ie>
Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

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Where you do know the sender, you still should be vigilant, in case the senders account was compromised.

If in doubt over an attachments legitimacy check with the sender or contact IT Security at spammonitor@esb.ie

Dear Wilson,

Further to my email below of the 17 January 2018, can you please let me know if ESB Telecoms has links in the area outlined on the attached site location map?

Thank you for your time in this matter.

Kind Regards

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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From: Eoin O'Sullivan
Sent: 17 January 2018 10:05
To: Wilson.Daliken@esb.ie
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Wilson,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if ESB Telecoms has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

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Senior Environmental Scientist

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MKO-Admin

From: Paul McDonagh <paul.mcdonagh@esb.ie>
Sent: Friday 4 May 2018 16:08
To: Eoin O'Sullivan
Cc: Wilson Dalikeni
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin

JRC have come back with their analysis of the turbines and their impact on our UHF SCADA link to Castlelyons 38kV station.

The analysis concluded that the diffraction on the UHF link failed in two planes but when the third plane is taken into account, the proposed heights of the turbines relative to the link will allow sufficient clearance.

The effects of reflection and scattering on the link from the turbines in the surrounding area will reduce the receive levels of the link by 4dB.

Provided there are no changes to the information provided there is sufficient head room for the link to function within the proposed development.

I must stress that any changes to the turbine locations or physical dimensions would have potential for further impact and would require a reinvestigation.

Regards

Paul

From: Eoin O'Sullivan [mailto:eosullivan@mccarthykos.ie]
Sent: 19 April 2018 10:40
To: McDonagh. Paul (ESB Networks) <paul.mcdonagh@esb.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

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Where you do know the sender, you still should be vigilant, in case the senders account was compromised.

If in doubt over an attachments legitimacy check with the sender or contact IT Security at spammonitor@esb.ie

Hi Paul,

Sorry to be head wrecker but is there any updates on the JRC assessment?

Thank you

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

MKO-Admin

From: John.Bagnall@eir.ie
Sent: Tuesday 20 February 2018 12:20
To: Eoin O'Sullivan
Cc: Brendan.OFlaherty@eir.ie
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm
Attachments: ATT00001.txt; ATT00002.htm

Eoin,

We have on site and transmission link within the proposed areas, that could be at risk, the end points of the transmission link are below, if you could keep a buffer of 100meters away from this transmission path when placing you turbines and send on for further analysis.

End point 1 – CK_1517 - 52° 0'32.07"N 8° 0'34.12"W
End point 2 – WD_3081 - 52° 2'7.33"N 7°44'48.56"W

Please keep send all windfarm analysis to myself for Eir Mobile previously Meteor.



Kind Regards,

John Bagnall 
Transmission Design & Engineering

0851053746
John.bagnall@eir.ie
4030 Kingswood Ave, Citywest, Dublin 24.
Eir Code; D24 YK12



From: O'Flaherty, Brendan
Sent: 05 February 2018 12:13
To: Bagnall, John
Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Another.

From: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Sent: 17 January 2018 10:04
To: WindFarmsDG
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Sir/Madam,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if Eir and Meteor has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

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Senior Environmental Scientist

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MKO-Admin

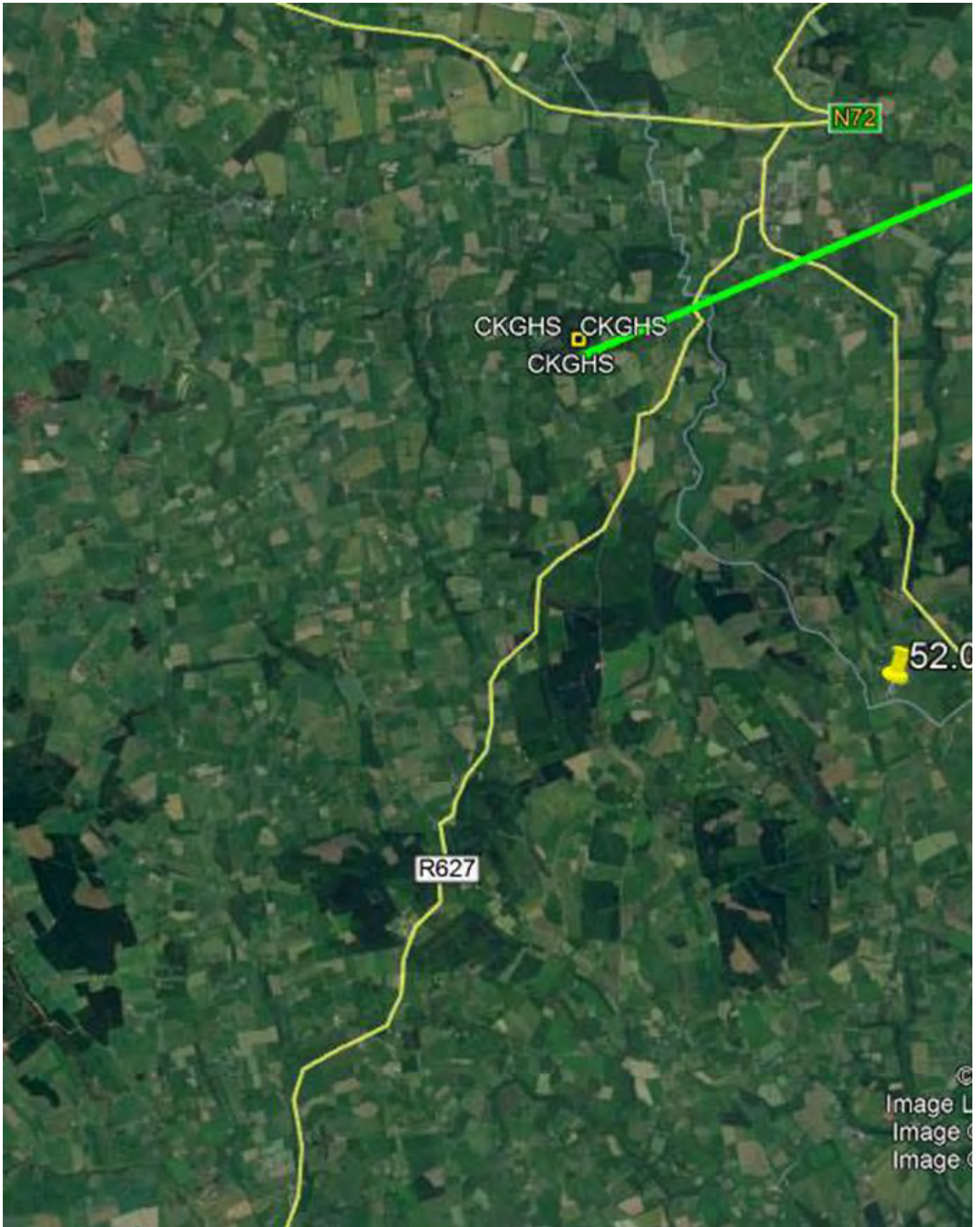
From: Gavin Byrne <gavin.byrne@netshare.ie>
Sent: Wednesday 17 January 2018 12:06
To: Eoin O'Sullivan
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,

The closest link appears to be from Glasshouse just north of the proposed area.

LinkID	Radio Config Status	BW + Ref Mod	Freq Band	Max Ethernet Capacity (Mbps)	Configured E1's (Mbps)	Current Capacity Dimensioning (VF Global Calaculation Method)	B-End IDU	B-End HW IDU Type	B-End Latitud
WD012CKGHS_S0	radio 1+0	bw28MHz-16QAM	26 GHz	170	0	28	CKGHS700	ALCplus2e	52.075

I don't believe this will be an issue, but please avoid this link. If you need anything further, let me know.



Regards,

Gavin Byrne BE, MSc, MIEI
Transmission Planning & Strategy Engineer
Netshare Ireland
Iveagh Building, The Park, Carrickmines, Dublin 18

mobile: +353 87 6448159
email: gavin.byrne@netshare.ie



From: Eoin O’Sullivan [mailto:eosullivan@mccarthykos.ie]
Sent: 17 January 2018 10:04
To: Gavin Byrne <gavin.byrne@netshare.ie>
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Gavin,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if Vodafone has any links in this area, and we will incorporate these into our constraint map? We don’t have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O’Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O’Sullivan Ltd.
Planning & Environmental Consultants

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MKO-Admin

From: Colin Kennedy <Colin.Kennedy@2rn.ie>
Sent: Wednesday 17 January 2018 10:29
To: Eoin O'Sullivan
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,

I've had a look at your constraints map and can confirm that we do not have any microwave links within the boundaries of the associated shape file.

Best regards,

Colin

Colin Kennedy
Frequency Planning Section



2rn, Block 'B', Cookstown Court, Old Belgard Road, Tallaght, Dublin D24 WK28, Ireland
Tel: ++353 (0)1 208 2261
RTÉ Transmission Network DAC trading as "2rn"
www.2rn.ie

From: Eoin O'Sullivan [mailto:eosullivan@mccarthykos.ie]
Sent: 17 January 2018 10:04
To: Colin Kennedy <Colin.Kennedy@2rn.ie>
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Colin,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if RTE has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv

Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.

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MKO-Admin

From: Matthew Craig <matthew.craig@2rn.ie>
Sent: Monday 19 August 2019 12:05
To: Eoin O'Sullivan
Cc: Johnny Evans; windfarms@rte.ie
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,

We have no microwave links in the vicinity of the proposed windfarm site. However, T12 is within 520m of the DTT path between our sites at Mullaganish and Dungarvan. I would also recommend that a protocol be put in place should the site go ahead as it may cause interference to viewers in the area receiving from our sites Dungarvan, Mullaganish and Ferrypoint (Youghal)

Regards

Matthew Craig

Project Engineer
Projects and Coverage Planning
2RN
Block B, Cookstown Court, Old Belgard Road, Tallaght, Dublin 24, Ireland
D24 WK28
Phone: + 353 (0) 1 2082261
Mobile: + 353 (0) 87 7509955

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From: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Sent: 16 August 2019 12:35
To: Matthew Craig <matthew.craig@2rn.ie>
Cc: Johnny Evans <Johnny.Evans@2rn.ie>
Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Matthew

Further to our correspondence below, we now have coordinates for the proposed turbine locations at the Lyrenacarriga Wind Farm site as set out below. Can you please let me know if RTE has links in the vicinity of the turbine locations?

ID	Easting	Northing
1	603992	587718
2	603109	587386
3	603575	587412
4	603,876	587,091
5	603176	586974
6	604338	586514

7	603996	586326
8	603,813	585,998
9	603486	585581
10	603622	585230
11	603516	586088
12	599804	588402
13	600156	588135
14	599365	588089
15	599702	587808
16	600078	587585
17	599608	587329
18	600260	587156

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Colin Kennedy <Colin.Kennedy@2rn.ie>
Sent: 17 January 2018 10:29
To: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,

I've had a look at your constraints map and can confirm that we do not have any microwave links within the boundaries of the associated shape file.

Best regards,

Colin

Colin Kennedy
Frequency Planning Section



2rn, Block 'B', Cookstown Court, Old Belgard Road, Tallaght, Dublin D24 WK28, Ireland
Tel: ++353 (0)1 208 2261
RTÉ Transmission Network DAC trading as "2rn"
www.2rn.ie

From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: 17 January 2018 10:04
To: Colin Kennedy <Colin.Kennedy@2rn.ie>
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Colin,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if RTE has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

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Senior Environmental Scientist

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MKO-Admin

From: Martin O Donoghue <Martin.ODonoghue@comreg.ie>
Sent: Wednesday 17 January 2018 10:38
To: Eoin O'Sullivan
Subject: RE: [Confidential] 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm
Attachments: List of operators.csv

Hi Eoin,

Please find attached the list of operators within 15Km.

Kind Regards,

Martin O'Donoghue

Innealtóir Speictrim Raidió

Radio Spectrum Engineer

An Coimisiún um Rialáil Cumarsáide
Commission for Communications Regulation

1 Lárcheantar na nDugaí, Sráid na nGildeanna, BÁC 1, Éire, D01 E4X0.

One Dockland Central, Guild Street, Dublin 1, Ireland, D01 E4X0.

Teil | Tel +353 1 8049670

Rphost | Email martin.odonoghue@comreg.ie

Suíomh | Website www.comreg.ie

From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: 17 January 2018 10:08
To: Sinead French <sinead.french@comreg.ie>
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Sinead,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

We are consulting with all of the main telecoms operators, but would like to check if there are any other operators in the area – would it be possible to send this information on to me please?

Many thanks,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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Tá an ríomhphost seo, chomh maith le haon iatáin a bhaineann leis faoi rún agus d'fhéadfadh leis a bheith faoi phribhléid nó cosanta ó aon nochtadh. Is don seolaí(aithe) ainmnithe thuas amháin é. Níl sé ceadaithe go mbeidh rochtain ag éinne eile ar an ríomhphost seo. Más rud é nach tusa an faighteoir ainmnithe, ná cló amach, léigh, cóipeáil, nocht d'éinne nó bain úsáid as an eolas sa ríomhphost seo in aon tslí eile, le do thoil. Más rud é go bhfuair tú an ríomhphost seo trí earráid, dean teagmháil leis an seoltóir láithreach agus scríos an t-ábhar ina iomlán, bíodh sé i gcóip leictreonach nó chrua.

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MKO-Admin

From: Martin O Donoghue <Martin.ODonoghue@comreg.ie>
Sent: Wednesday 21 August 2019 14:40
To: Eoin O'Sullivan
Subject: RE: [Confidential] 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm
Attachments: List of Operators.xlsx

Thanks Eoin,

Please find attached the list of operators within 20Km.

Kind Regards,

Martin O'Donoghue

Innealtóir Speictrim Raidió

Radio Spectrum Engineer

An Coimisiún um Rialáil Cumarsáide
Commission for Communications Regulation

1 Lárcheantar na nDugaí, Sráid na nGildeanna, BÁC 1, Éire, D01 E4X0.
One Dockland Central, Guild Street, Dublin 1, Ireland, D01 E4X0.
Teil | Tel +353 1 8049670
Rphost | Email martin.odonoghue@comreg.ie
Suíomh | Website www.comreg.ie

From: Eoin O'Sullivan [mailto:eosullivan@mkoireland.ie]
Sent: 21 August 2019 14:13
To: Martin O Donoghue <Martin.ODonoghue@comreg.ie>
Subject: RE: [Confidential] 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Martin,

You can use the same coordinates as below.

Thank you

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

MKO
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
www.mkoireland.ie

MKO-Admin

From: padraig.condon@bt.com
Sent: Wednesday 17 January 2018 12:57
To: Eoin O'Sullivan
Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm
Attachments: Site Location Lyrenacarriga_Telecoms - 2018.01.16.pdf; Site Telecoms V2 - 170749 - 2018_01_16_rectangle.zip

Hi Eoin,

I can confirm that the proposed development will have no impact on the BT microwave network.

Regards

Padraig Condon

Microwave Transmission Planner

[Transmission Planning Support Request](#)

Tel: +35314326819

Mobile number: +353 86 604 0636

BT Meetme: 0800 012 1176

E-mail padraig.condon@bt.com

<https://www.webjoin.com/>

Participant: 40342233#

Web: www.btireland.com



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From: Eoin O'Sullivan [mailto:eosullivan@mccarthykos.ie]
Sent: 17 January 2018 10:05
To: Condon,PG,Padraig,HQE32E R
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Padraig,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if BT Communications has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

MKO-Admin

From: padraig.condon@bt.com
Sent: Friday 16 August 2019 12:54
To: Eoin O'Sullivan
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,
I can confirm the planned development will have no impact on the BT Ireland microwave radio network.

Regards

Padraig Condon
Core Networks

Tel: +35314326819
Mobile number: +353 86 604 0636
BT Meetme: 01-6569053
E-mail padraig.condon@bt.com
<https://www.webjoin.com/>
Participant: 40342233#
Web: www.btireland.com



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From: Eoin O'Sullivan [mailto:eosullivan@mkoireland.ie]
Sent: 16 August 2019 12:30
To: Condon,PG,Padraig,NQE32E R
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Padraig,

Further to our correspondence below, we now have coordinates for the proposed turbine locations at the Lyrenacarriga Wind Farm site as set out below. Can you please let me know if BT has links in the vicinity of the turbine locations?

ID	Easting	Northing
1	603992	587718
2	603109	587386
3	603575	587412
4	603,876	587,091
5	603176	586974
6	604338	586514
7	603996	586326

8	603,813	585,998
9	603486	585581
10	603622	585230
11	603516	586088
12	599804	588402
13	600156	588135
14	599365	588089
15	599702	587808
16	600078	587585
17	599608	587329
18	600260	587156

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

MKO
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Ireland, H91 VW84
+353 (0) 91 735611
www.mkoireland.ie



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From: padraig.condon@bt.com <padraig.condon@bt.com>
Sent: 17 January 2018 12:57
To: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,
I can confirm that the proposed development will have no impact on the BT microwave network.

Regards

Padraig Condon
Microwave Transmission Planner
[Transmission Planning Support Request](#)

Tel: +35314326819
Mobile number: +353 86 604 0636

BT Meetme: 0800 012 1176
E-mail padraig.condon@bt.com
<https://www.webjoin.com/>
Participant: 40342233#
Web: www.btireland.com



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From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: 17 January 2018 10:05
To: Condon,PG,Padraig,HQE32E R
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Padraig,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if BT Communications has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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MKO-Admin

From: John Walshe <john.ccbisp@gmail.com>
Sent: Saturday 17 August 2019 14:24
To: Eoin O'Sullivan
Subject: Re: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm
Attachments: image001.png

Hi Eoin,

Cork Community Broadband is no longer providing a service and thus has no links in the Tallow area or any other area where you might be installing a wind farm.

You may use this letter to cover this instance and any other instances where we may have overlapped.

I wish you the best in this endeavour.

Yours sincerely,

John Walshe

Cork Community Broadband Ltd

On Fri 16 Aug 2019, 12:30 Eoin O'Sullivan, <eosullivan@mkoireland.ie> wrote:

Dear John,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the proposed turbine locations are set out below.

ID	Easting	Northing
1	603992	587718
2	603109	587386
3	603575	587412
4	603,876	587,091
5	603176	586974
6	604338	586514
7	603996	586326
8	603,813	585,998
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13	600156	588135
14	599365	588089
15	599702	587808
16	600078	587585
17	599608	587329
18	600260	587156

Could you let me know please if Cork Community Broadband has any links in this area, and we will incorporate these into our constraint map?

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

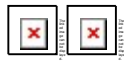
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MKO-Admin

From: Donncha O'Sullivan <Donncha.OSullivan@gasnetworks.ie>
Sent: Wednesday 21 August 2019 15:38
To: Eoin O'Sullivan
Cc: Kevin Quaid
Subject: 170749 - Lyre WF - Constraints

Eoin,

We have reviewed the above referenced Constraints Study. We are pleased to advise we have no infrastructure in the vicinity of the proposed Windfarm. As such we have comment to make in regard to it.

It is likely Cork Co Co will refer any related Planning Application to GNI for comment. Our reply will mirror the above.

Regards,

Donncha

Donncha Ó Sullivan BE CEng MIEI MIGEM
Development Liaison Engineer

Gas Networks Ireland
P.O. Box 51, Gasworks Road, Cork, Ireland

T +353 21 453 4613 | **M** +353 87 982 2437
E donncha.osullivan@gasnetworks.ie

gasnetworks.ie | Find us on [Twitter](#)

You are reminded that all work in the vicinity of Gas Networks Ireland Pipelines and Installations must be completed to comply fully with the relevant guidelines to be found in the current editions of the Health & Safety Authority publications, 'Code Of Practice For Avoiding Danger From Underground Services' and 'Guide To Safety In Excavations'. Both documents are available free of charge from The Health And Safety Authority. www.hsa.ie, 1890-28 93 89.

Tá an fhaisnéis á seachadadh dírithe ar an duine nó ar an eintiteas chuig a bhfuil sí seolta amháin agus féadfar ábhar faoi rún, faoi phribhléid nó ábhar atá íogair ó thaobh tráchtála de a bheith mar chuid de. Tá aon athsheachadadh nó scaipeadh den fhaisnéis, aon athbhreithniú ar nó aon úsáid eile a bhaint as, nó aon ghníomh a dhéantar ag brath ar an bhfaisnéis seo ag daoine nó ag eintitis nach dóibh siúd an fhaisnéis seo, toirimisce agus féadfar é a bheith neamhdhleathach. Níl Líonraí Gáis Éireann faoi dhliteanas maidir le seachadadh iomlán agus ceart na faisnéise sa chumarsáid seo nó maidir le haon mhoill a bhaineann léi. Ní ghlacann Líonraí Gáis Éireann le haon dliteanas faoi ghnímh nó faoi iarmhairtí bunaithe ar úsáid thoirmisce na faisnéise seo. Níl Líonraí Gáis Éireann faoi dhliteanas maidir le seachadadh ceart agus iomlán na faisnéise sa chumarsáid seo nó maidir le haon mhoill a bhaineann léi. Má fuair tú an teachtaireacht seo in earráid, más é do thoil é, déan teagmháil leis an seoltóir agus scríos an t-ábhar ó gach aon ríomhaire.

Féadfar ríomhphost a bheith soghabhálach i leith truailithe, idircheaptha agus i leith leasaithe neamhúdaraíthe. Ní ghlacann Líonraí Gáis Éireann le haon fhreagracht as athruithe nó as idircheapadh a rinneadh ar an ríomhphost seo i

MKO-Admin

From: Ronnie O'Neill <Ronnie.ONeill@imaginegroup.ie>
Sent: Thursday 18 January 2018 13:45
To: Eoin O'Sullivan
Cc: Miriam Casey
Subject: Re: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin ,

Imagine have no network in the area .

Rgds,
Ronnie .

----- Original Message -----

From: "Eoin O'Sullivan" <eosullivan@mccarthykos.ie>
To: "Ronnie O'Neill" <Ronnie.ONeill@imaginegroup.ie>
Sent: 1/17/2018 10:04:44 AM
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Ronnie,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if Imagine Group has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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MKO-Admin

From: William Morgan <william.morgan@imaginegroup.ie>
Sent: Friday 16 August 2019 16:01
To: Eoin O'Sullivan
Cc: Ronnie O'Neill; Miriam Casey; Tiago Almeida
Subject: Re: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm
Attachments: Lyrenacarriga Wind Farm Development - Imagine analysis.PNG

Hi Eoin,

Thanks for that, I can confirm that the proposed wind farm development won't interfere with any Imagine microwave links in the area.

Please see the photograph attached which shows our links in green and each of the proposed turbines.

If you have any further queries please don't hesitate to get in touch.

Kind Regards,
Will.

From: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Sent: 16 August 2019 14:10
To: William Morgan <william.morgan@imaginegroup.ie>
Cc: Ronnie O'Neill <Ronnie.ONeill@imaginegroup.ie>; Miriam Casey <Miriam.Casey@imaginegroup.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi William,

Please see below.

ID	Easting	Northing
1	204042.4106	87659.3666
2	203159.2220	87327.2915
3	203625.3214	87353.2986
4	203926.3854	87032.2293
5	203226.2360	86915.2017
6	204388.4834	86455.1045
7	204046.4103	86267.0624
8	203863.3710	85938.9902
9	203536.3009	85521.8981
10	203672.3296	85170.8218
11	203566.3078	86029.0090
12	199853.5178	88343.5037
13	200205.5927	88076.4464
14	199414.4240	88030.4339
15	199751.4958	87749.3736
16	200127.5758	87526.3260
17	199657.4755	87270.2686
18	200309.6144	87097.2328

Thank you

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

MKO
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Ireland, H91 VW84
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From: William Morgan <william.morgan@imgroup.ie>
Sent: 16 August 2019 13:13
To: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Cc: Ronnie O'Neill <Ronnie.ONeill@imgroup.ie>; Miriam Casey <Miriam.Casey@imgroup.ie>
Subject: Re: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,

Can you please provide the Easting/Northing coordinates for each turbine in the Irish format please?

As soon as I receive the correct coordinates I will review the proposed area for existing/planned Imagine microwave links.

Kind Regards,
Will.

From: Ronnie O'Neill <Ronnie.ONeill@imgroup.ie>
Sent: 16 August 2019 13:09
To: William Morgan <william.morgan@imgroup.ie>
Subject: Fwd: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Fyi

Rgds,

Ronnie O'Neill
Network Deployment Manager
Network Deployment
imagine

t.+353 1 437 5000

m.+353 86 8277 022

w.imagine.ie

imagine
Sandyford Business Centre
Blackthorn Road, Sandyford, D18 AW89

From: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Sent: Friday, August 16, 2019 12:29:57 PM
To: Ronnie O'Neill <Ronnie.ONeill@imaginegroup.ie>
Cc: Miriam Casey <Miriam.Casey@imaginegroup.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Ronnie,

Further to our correspondence below, we now have coordinates for the proposed turbine locations at the Lyrenacarriga Wind Farm site as set out below. Can you please let me know if Imagine has links in the vicinity of the turbine locations?

ID	Easting	Northing
1	603992	587718
2	603109	587386
3	603575	587412
4	603,876	587,091
5	603176	586974
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13	600156	588135
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15	599702	587808
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17	599608	587329
18	600260	587156

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Ronnie O'Neill <Ronnie.ONeill@imagegroup.ie>
Sent: 18 January 2018 13:45
To: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Cc: Miriam Casey <Miriam.Casey@imagegroup.ie>
Subject: Re: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin ,

Imagine have no network in the area .

Rgds,
Ronnie .

----- Original Message -----

From: "Eoin O'Sullivan" <eosullivan@mccarthykos.ie>
To: "Ronnie O'Neill" <Ronnie.ONeill@imagegroup.ie>
Sent: 1/17/2018 10:04:44 AM
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Ronnie,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if Imagine Group has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

MKO-Admin

From: Rachel Hennessy <rachel.hennessy@towercom.ie>
Sent: Thursday 18 January 2018 16:29
To: Eoin O'Sullivan
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,

Thank you for your email.

From initial review, the proposed location of the windfarm at Lyrenacarriga would not appear have a significant impact on Towercom's sites.

However, in order to fully assess any impact it may have, we would require plans and coordinates showing the proposed turbines finalised locations.

Until such time as you can confirm the coordinates of the locations, we cannot conclusively say if there will be an impact on Towercom's assets.

Kind regards,
Rachel

Rachel Hennessy
Towercom
M: +353 (0)86 843 9587
E: rachel.hennessy@towercom.ie

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From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: Wednesday 17 January 2018 10:04
To: Requests <requests@towercom.ie>
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Sir/Madam,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if Towercom has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv

Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.

Planning & Environmental Consultants

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MKO-Admin

From: Peter O'Brien <peter.obrien@enet.ie>
Sent: Wednesday 21 August 2019 15:50
To: Eoin O'Sullivan
Subject: RE: 170749 - Lyre WF - Constraints

Thanks Eoin,

This proposed development won't affect any of our existing links,

Regards,
Peter

From: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Sent: Wednesday, August 21, 2019 3:46 PM
To: Peter O'Brien <peter.obrien@enet.ie>
Subject: RE: 170749 - Lyre WF - Constraints

Hi Peter,

Please see attached Google Earth kml.

Regards

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

MKO
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
www.mkoireland.ie



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From: Eoin O'Sullivan
Sent: 21 August 2019 15:19
To: Peter O'Brien <peter.obrien@enet.ie>
Subject: RE: 170749 - Lyre WF - Constraints

Hi Peter,

Leave it with me.

Regards

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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Ireland, H91 VW84
+353 (0) 91 735611
www.mkoireland.ie



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From: Peter O'Brien <peter.obrien@enet.ie>
Sent: 21 August 2019 15:12
To: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Subject: RE: 170749 - Lyre WF - Constraints

Hi Eoin,

Would you have these locations in a Google Earth kml?

Regards,
Peter

From: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Sent: Wednesday, August 21, 2019 2:54 PM
To: Peter O'Brien <peter.obrien@enet.ie>
Subject: Re: 170749 - Lyre WF - Constraints

Hi Peter,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the proposed turbine locations are set out below.

ID	Easting	Northing	Easting	Northing
1	603992	587718	204042.4106	87659.3666
2	603109	587386	203159.2220	87327.2915
3	603575	587412	203625.3214	87353.2986
4	603,876	587,091	203926.3854	87032.2293
5	603176	586974	203226.2360	86915.2017

6	604338	586514	204388.4834	86455.1045
7	603996	586326	204046.4103	86267.0624
8	603,813	585,998	203863.3710	85938.9902
9	603486	585581	203536.3009	85521.8981
10	603622	585230	203672.3296	85170.8218
11	603516	586088	203566.3078	86029.0090
12	599804	588402	199853.5178	88343.5037
13	600156	588135	200205.5927	88076.4464
14	599365	588089	199414.4240	88030.4339
15	599702	587808	199751.4958	87749.3736
16	600078	587585	200127.5758	87526.3260
17	599608	587329	199657.4755	87270.2686
18	600260	587156	200309.6144	87097.2328

Could you let me know please if Enet has any links in this area, and we will incorporate these into our constraint map?

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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MKO-Admin

From: Donal McEneaney <Donal.McEneaney@viatel.com>
Sent: Monday 22 January 2018 11:58
To: Eoin O'Sullivan
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin.

We don't have any wireless links crossing that highlighted area.

We won't be effected, but do let me know when you have the turbine locations, as it may help down the line.

Best Regards

Donal McEneaney | Field Operations Manager | **Viatal**

T: +353 14699311 – **Ext:** 584 **M:** +353 86 1722233 | **E:** Donal.McEneaney@viatel.com



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From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: 17 January 2018 10:55
To: Donna Fairbrother <Donna.Fairbrother@viatal.com>
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Donna,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if Viatal Ireland Ltd has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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T: (091) 73 56 11 || E: info@mccarthykos.ie || W: www.mccarthykos.ie

MKO-Admin

From: Gerry Callan <Gerry.Callan@three.ie>
Sent: Wednesday 17 January 2018 11:13
To: Eoin O'Sullivan
Cc: Alan Hutchinson
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

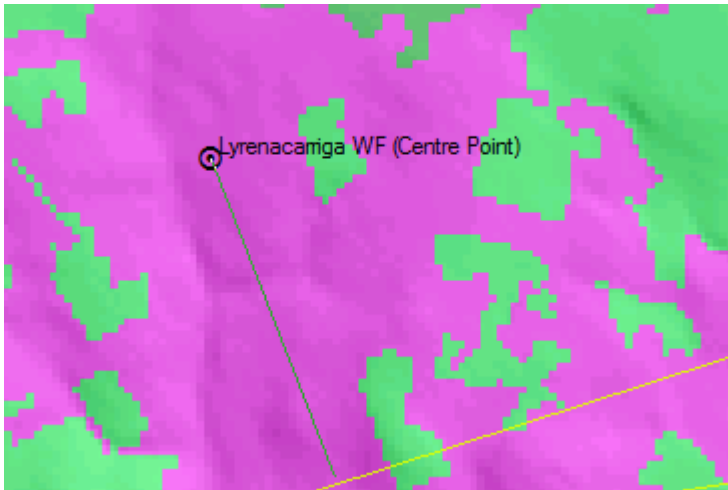
Hi Eoin,

From an initial assessment, I doubt this development will have any impact on the existing 3 transmission network (including the legacy O2 network).

Our closest link is 2.3km South by South East of the centre point of the development:

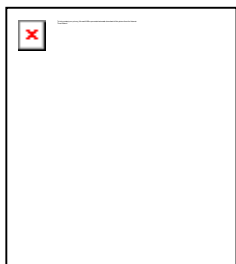
15GHz link from Sandyhill (199396,84043) to Coillte Carnglass (209309,87240).

The next closest is 3.4km North by North East.



When you have proposed coordinates for all the turbines do please let us know and we can evaluate more thoroughly but for now this would not pose a problem for our network.

Good luck with the development,



Gerry Callan
Transmission Engineer

086 3884246
gerry.callan@three.ie



Make it count.

From: Eoin O'Sullivan [mailto:eosullivan@mccarthykos.ie]
Sent: 17 January 2018 10:04
To: Gerry Callan
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Gerry,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if Three has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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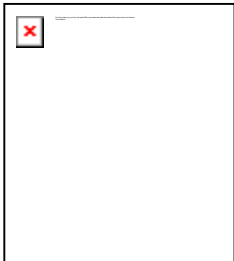
From: Gerry Callan <Gerry.Callan@three.ie>
Sent: Tuesday 23 January 2018 14:10
To: Eoin O'Sullivan
Cc: Alan Hutchinson
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,

We would typically seek 100m clearance from the link.

Hope this helps,

Best wishes,



Gerry Callan
Transmission Engineer

086 3884246
gerry.callan@three.ie



Make it count.

From: Eoin O'Sullivan [mailto:eosullivan@mccarthykos.ie]
Sent: 22 January 2018 16:45
To: Gerry Callan
Cc: Alan Hutchinson
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Gerry,

Thank you for your email below. We have mapped the coordinates for the 3 transmission network from Sandyhill to Coillte Carnglass and it appears that the transmission line is close to the southern boundary of site. With this in mind, can you please confirm the required buffer zone for the transmission line?

Thank you for your time.

Kind Regards

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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From: Gerry Callan [<mailto:Gerry.Callan@three.ie>]
Sent: 17 January 2018 11:13
To: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Cc: Alan Hutchinson <alan.hutchinson@three.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

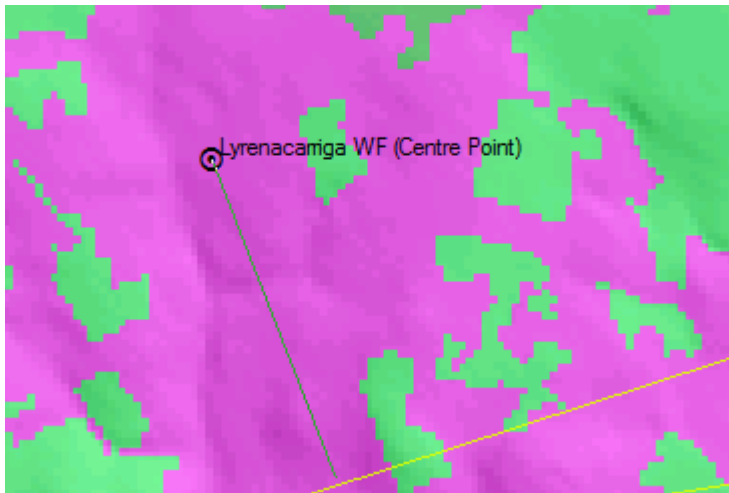
Hi Eoin,

From an initial assessment, I doubt this development will have any impact on the existing 3 transmission network (including the legacy O2 network).

Our closest link is 2.3km South by South East of the centre point of the development:

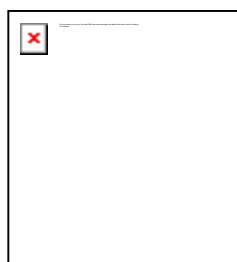
15GHz link from Sandyhill (199396,84043) to Coillte Carnglass (209309,87240).

The next closest is 3.4km North by North East.



When you have proposed coordinates for all the turbines do please let us know and we can evaluate more thoroughly but for now this would not pose a problem for our network.

Good luck with the development,



Gerry Callan
Transmission Engineer

086 3884246
gerry.callan@three.ie



Make it count.

From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: 17 January 2018 10:04
To: Gerry Callan
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Gerry,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if Three has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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MKO-Admin

From: Gerry Callan <Gerry.Callan@three.ie>
Sent: Wednesday 21 August 2019 15:17
To: Eoin O'Sullivan
Cc: DL Tx Access; Alan Hutchinson
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

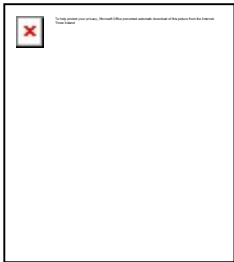
Hi Eoin,

Thanks for the turbine layout in Irish Grid format. I've uploaded the details to our planning tool and am happy to confirm that this layout meets our requirements for sufficient clearance for the one potentially affected link in the area.

Our regional engineers have confirmed that there are no additional links planned in the area, so this development should have no impact upon our transmission network. We appreciate you taking our concerns from previous correspondence into account when finalising the layout.

Good luck with the development,

Best wishes,



Gerry Callan
Transmission Engineer

086 3884246
gerry.callan@three.ie



Make it count.

From: Eoin O'Sullivan <eosullivan@mkoireland.ie>
Sent: 21 August 2019 14:05
To: Gerry Callan <Gerry.Callan@three.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Gerry,

Please see below.

ID	Easting	Northing
1	204042.4106	87659.3666
2	203159.2220	87327.2915
3	203625.3214	87353.2986
4	203926.3854	87032.2293
5	203226.2360	86915.2017
6	204388.4834	86455.1045
7	204046.4103	86267.0624
8	203863.3710	85938.9902
9	203536.3009	85521.8981

10	203672.3296	85170.8218
11	203566.3078	86029.0090
12	199853.5178	88343.5037
13	200205.5927	88076.4464
14	199414.4240	88030.4339
15	199751.4958	87749.3736
16	200127.5758	87526.3260
17	199657.4755	87270.2686
18	200309.6144	87097.2328

Regards

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Gerry Callan <Gerry.Callan@three.ie>

Sent: 21 August 2019 14:03

To: Eoin O'Sullivan <eosullivan@mkoireland.ie>

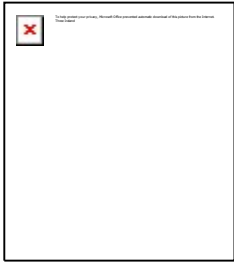
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,

Would you have the turbine layout in Irish Grid?

That would speed up our analysis as our entire range of planning tools are configured for IG.

Thanks and best wishes,



Gerry Callan
Transmission Engineer

086 3884246
gerry.callan@three.ie



Make it count.

From: Eoin O’Sullivan <eosullivan@mkoireland.ie>
Sent: 16 August 2019 12:30
To: Gerry Callan <Gerry.Callan@three.ie>
Cc: Alan Hutchinson <alan.hutchinson@three.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Gerry,

Further to our correspondence below, we now have coordinates for the proposed turbine locations at the Lyrenacarriga Wind Farm site as set out below. Can you please let me know if Three has any further links in the vicinity of the turbine locations? The 3 transmission line between Sandyhill and Coillte Carnglass has been noted.

ID	Easting	Northing
1	603992	587718
2	603109	587386
3	603575	587412
4	603,876	587,091
5	603176	586974
6	604338	586514
7	603996	586326
8	603,813	585,998
9	603486	585581
10	603622	585230
11	603516	586088
12	599804	588402
13	600156	588135
14	599365	588089
15	599702	587808
16	600078	587585
17	599608	587329
18	600260	587156

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Gerry Callan <Gerry.Callan@three.ie>
Sent: 23 January 2018 14:10
To: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Cc: Alan Hutchinson <alan.hutchinson@three.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,

We would typically seek 100m clearance from the link.

Hope this helps,

Best wishes,



Gerry Callan
Transmission Engineer

086 3884246
gerry.callan@three.ie



Make it count.

From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: 22 January 2018 16:45
To: Gerry Callan
Cc: Alan Hutchinson
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Gerry,

Thank you for your email below. We have mapped the coordinates for the 3 transmission network from Sandyhill to Coillte Carnglass and it appears that the transmission line is close to the southern boundary of site. With this in mind, can you please confirm the required buffer zone for the transmission line?

Thank you for your time.

Kind Regards

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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From: Gerry Callan [<mailto:Gerry.Callan@three.ie>]
Sent: 17 January 2018 11:13
To: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Cc: Alan Hutchinson <alan.hutchinson@three.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

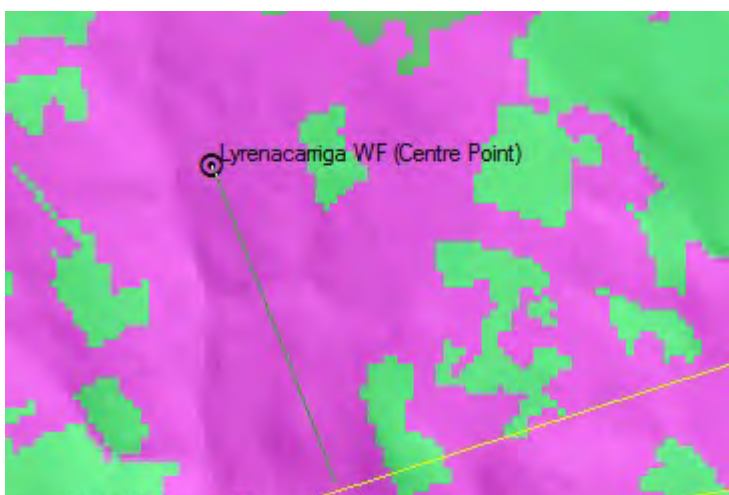
Hi Eoin,

From an initial assessment, I doubt this development will have any impact on the existing 3 transmission network (including the legacy O2 network).

Our closest link is 2.3km South by South East of the centre point of the development:

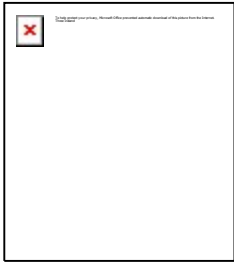
15GHz link from Sandyhill (199396,84043) to Coillte Carnglass (209309,87240).

The next closest is 3.4km North by North East.



When you have proposed coordinates for all the turbines do please let us know and we can evaluate more thoroughly but for now this would not pose a problem for our network.

Good luck with the development,



Gerry Callan
Transmission Engineer

086 3884246
gerry.callan@three.ie



Make it count.

From: Eoin O’Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: 17 January 2018 10:04
To: Gerry Callan
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Gerry,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if Three has any links in this area, and we will incorporate these into our constraint map? We don’t have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O’Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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MKO-Admin

From: Thomas Barry <Tom.Barry@TETRAIRELAND.IE>
Sent: Friday 23 August 2019 07:38
To: Eoin O'Sullivan
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Eoin,

We anticipate no impact from development at the proposed location. Can you ensure the proposal is also reviewed by eir.

Regards,
Tom

From: Eoin O'Sullivan [mailto:eosullivan@mkoireland.ie]
Sent: Friday 16 August 2019 12:29
To: Thomas Barry
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Tom,

Further to our correspondence below, we now have coordinates for the proposed turbine locations at the Lyrenacarriga Wind Farm site as set out below. Can you please let me know if Tetra has links in the vicinity of the turbine locations?

ID	Easting	Northing
1	603992	587718
2	603109	587386
3	603575	587412
4	603,876	587,091
5	603176	586974
6	604338	586514
7	603996	586326
8	603,813	585,998
9	603486	585581
10	603622	585230
11	603516	586088
12	599804	588402
13	600156	588135
14	599365	588089
15	599702	587808
16	600078	587585
17	599608	587329
18	600260	587156

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

MKO
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Ireland, H91 VW84
+353 (0) 91 735611
www.mkoireland.ie



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From: Thomas Barry <Tom.Barry@TETRAIRELAND.IE>
Sent: 24 January 2018 13:48
To: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Eoin,

We anticipate no impact to Tetra services, can you ensure the proposal is reviewed by eir please.

Regards,
Tom

From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: 24 January 2018 13:06
To: Thomas Barry
Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Tom,

Further to my email below of the 17 January 2018, can you please let me know if Tetra has links in the area outlined on the attached site location map?

Thank you for your time in this matter.

Kind Regards

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Eoin O'Sullivan
Sent: 17 January 2018 10:04
To: Tom.Barry@TETRAIRELAND.IE
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Tom,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if Tetra has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

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MKO-Admin

From: Thomas Barry <Tom.Barry@TETRAIRELAND.IE>
Sent: Wednesday 24 January 2018 13:48
To: Eoin O'Sullivan
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Eoin,

We anticipate no impact to Tetra services, can you ensure the proposal is reviewed by eir please.

Regards,
Tom

From: Eoin O'Sullivan [mailto:eosullivan@mccarthykos.ie]
Sent: 24 January 2018 13:06
To: Thomas Barry
Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Tom,

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Thank you for your time in this matter.

Kind Regards

Eoin

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Senior Environmental Scientist

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Sent: 17 January 2018 10:04
To: Tom.Barry@TETRAIRELAND.IE
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

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MKO-Admin

From: Cathal O'Donnell <Cathal.O'Donnell@virginmedia.ie>
Sent: Thursday 25 January 2018 11:01
To: Eoin O'Sullivan
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin

Liam Allister is our Engineer who plots the interference tests on our radio planning tool. Liam is currently on sick leave but will get back to you on his return

Rgds

Cathal

From: Eoin O'Sullivan [mailto:eosullivan@mccarthykos.ie]
Sent: 24 January 2018 13:06
To: Cathal O'Donnell
Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Cathal,

Further to my email below of the 17 January 2018, can you please let me know if Virgin Media has links in the area outlined on the attached site location map?

Thank you for your time in this matter.

Kind Regards

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Eoin O'Sullivan
Sent: 17 January 2018 10:04
To: Cathal.O'Donnell@virginmedia.ie
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Cathal,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

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Many thanks. If you have any queries please do not hesitate to contact me,

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MKO-Admin

From: Liam Allister <Liam.Allister@virginmedia.ie>
Sent: Tuesday 17 April 2018 13:26
To: Eoin O'Sullivan
Cc: Cathal O'Donnell
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm
Attachments: Lyrenacarriga WF 1.jpg; Lyrenacarriga WF.jpg

Hi Eoin,

Virgin Media have a link between Cork and Clashmore which is within 1 Km of the area you have indicated as being assessed for wind farm. In the attached screen shot I have shown the path of our link (in Green) and the area being assessed (in Red) roughly outlined. Our link path is approximately 700m from the area being assessed.

We would ideally like to keep this distance from the wind farm area but if the area under assessment changes can you please notify us. We would require at least 150 m separation from Turbine blade tip to the signal path of our link. We will run a desktop interference profile on ICS ATDI Program once you can provide co-ordinates for the turbine locations.

Regards,
Liam Allister,
Transmission Engineer,
Virgin Media Ireland.
Liam.allister@virginmedia.ie

From: Cathal O'Donnell
Sent: 17 January 2018 10:07
To: Liam Allister <Liam.Allister@virginmedia.ie>
Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

[Another one for you](#)

From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: 17 January 2018 10:04
To: Cathal O'Donnell
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Cathal,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if Virgin Media has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O’Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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MKO-Admin

From: Liam Allister <Liam.Allister@virginmedia.ie>
Sent: Thursday 19 April 2018 10:18
To: Eoin O'Sullivan
Cc: Cathal O'Donnell; Lorraine Meehan
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,

Co-ordinates for end points are;

Clashmore 52° 2'9.56"N 7°44'48.07"W
Cork 51°50'54.22"N 8°27'37.85"W

Regards,
Liam Allister,
Transmission Engineer,
Virgin Media Ireland.
Liam.allister@virginmedia.ie

From: Eoin O'Sullivan [mailto:eosullivan@mccarthykos.ie]
Sent: 18 April 2018 08:56
To: Liam Allister <Liam.Allister@virginmedia.ie>
Cc: Cathal O'Donnell <Cathal.ODonnell@virginmedia.ie>; Lorraine Meehan <lmeehan@mccarthykos.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Liam,

Thank you for your email. Can you please provide us with the coordinates of the end points and we will incorporate these into our constraints map.

Kind Regards

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Liam Allister [<mailto:Liam.Allister@virginmedia.ie>]
Sent: 17 April 2018 13:26
To: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Cc: Cathal O'Donnell <Cathal.O'Donnell@virginmedia.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,

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Virgin Media Ireland.
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Sent: 17 January 2018 10:07
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Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Another one for you

From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: 17 January 2018 10:04
To: Cathal O'Donnell
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Cathal,

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Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

MKO-Admin

From: Liam Allister <Liam.Allister@virginmedia.ie>
Sent: Tuesday 20 August 2019 14:22
To: Eoin O'Sullivan
Cc: Cathal O'Donnell; Mark Nolan
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm
Attachments: Lyrenacarriga,WF.PNG

Hi Eoin,

Thank you for sending the co-ordinates of the proposed turbine locations on Lyrenacarriga Wind Farm. I have plotted the proposed locations of the turbines and would expect no interference on Virgin Media Microwave Links.

Please inform Virgin Media if there are any changes to the locations of the turbines so that I can plot them to update our database.

Kind Regards

Liam Allister | B2B Access Network Transmission Engineer,
Virgin Media | John F Connelly Road, Churchfield, Cork.
Liam.allister@virginmedia.ie

From: Eoin O'Sullivan [mailto:eosullivan@mkoireland.ie]
Sent: 16 August 2019 12:26
To: Liam Allister <Liam.Allister@virginmedia.ie>
Cc: Cathal O'Donnell <Cathal.ODonnell@virginmedia.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Liam,

Further to our correspondence below, we now have coordinates for the proposed turbine locations at the Lyrenacarriga Wind Farm site as set out below. Can you please let me know if Virgin Media has any further links in the vicinity of the turbine locations? Link between Cork and Clashmore noted.

ID	Easting	Northing
1	603992	587718
2	603109	587386
3	603575	587412
4	603,876	587,091
5	603176	586974
6	604338	586514
7	603996	586326
8	603,813	585,998
9	603486	585581
10	603622	585230
11	603516	586088
12	599804	588402
13	600156	588135
14	599365	588089
15	599702	587808
16	600078	587585

17	599608	587329
18	600260	587156

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin



Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Liam Allister <Liam.Allister@virginmedia.ie>
Sent: 19 April 2018 10:18
To: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Cc: Cathal O'Donnell <Cathal.ODonnell@virginmedia.ie>; Lorraine Meehan <lmeehan@mccarthykos.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,

Co-ordinates for end points are;

Clashmore 52° 2'9.56"N 7°44'48.07"W
Cork 51°50'54.22"N 8°27'37.85"W

Regards,
Liam Allister,
Transmission Engineer,
Virgin Media Ireland.
Liam.allister@virginmedia.ie

From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: 18 April 2018 08:56
To: Liam Allister <Liam.Allister@virginmedia.ie>
Cc: Cathal O'Donnell <Cathal.ODonnell@virginmedia.ie>; Lorraine Meehan <lmeehan@mccarthykos.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Liam,

Thank you for your email. Can you please provide us with the coordinates of the end points and we will incorporate these into our constraints map.

Kind Regards

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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From: Liam Allister [<mailto:Liam.Allister@virginmedia.ie>]
Sent: 17 April 2018 13:26
To: Eoin O'Sullivan <eosullivan@mccarthykos.ie>
Cc: Cathal O'Donnell <Cathal.ODonnell@virginmedia.ie>
Subject: RE: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Hi Eoin,

Virgin Media have a link between Cork and Clashmore which is within 1 Km of the area you have indicated as being assessed for wind farm. In the attached screen shot I have shown the path of our link (in Green) and the area being assessed (in Red) roughly outlined. Our link path is approximately 700m from the area being assessed.

We would ideally like to keep this distance from the wind farm area but if the area under assessment changes can you please notify us. We would require at least 150 m separation from Turbine blade tip to the signal path of our link. We will run a desktop interference profile on ICS ATDI Program once you can provide co-ordinates for the turbine locations.

Regards,
Liam Allister,
Transmission Engineer,
Virgin Media Ireland.
Liam.allister@virginmedia.ie

From: Cathal O'Donnell
Sent: 17 January 2018 10:07
To: Liam Allister <Liam.Allister@virginmedia.ie>
Subject: FW: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Another one for you

From: Eoin O'Sullivan [<mailto:eosullivan@mccarthykos.ie>]
Sent: 17 January 2018 10:04
To: Cathal O'Donnell
Subject: 170749 - Lyrenacarriga, Co. Cork & Co. Waterford - Proposed Wind Farm

Dear Cathal,

We are working on a constraints study for a proposed wind farm at Lyrenacarriga, which is located approximately 5km to the south east of Tallow, Co. Waterford and approximately 15km to the north west of Youghal Co. Cork. The Grid Ref coordinates for the site centre are E201220, N87053. A site location map and a shape file is also attached.

Could you let me know please if Virgin Media has any links in this area, and we will incorporate these into our constraint map? We don't have a turbine layout yet; this will be informed by the constraints study.

Many thanks. If you have any queries please do not hesitate to contact me,

Kind Regards,

Eoin

Eoin O'Sullivan MSc. CWEM CEnv
Senior Environmental Scientist

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Planning & Environmental Consultants

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