

Eoin McCarthy

From: Roger Woods <rwoods@bai.ie>
Sent: 08 November 2019 15:11
To: Eoin McCarthy
Subject: RE: 171221 - Proposed Bord na Móna Powergen Ltd. Wind Farm Development at Clongawny and Drinagh Bogs, Co. Offaly.

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 McCarthy <emccarthy@mkoireland.ie>
Sent: Friday 8 November 2019 15:04
To: Roger Woods <rwoods@bai.ie>
Subject: RE: 171221 - Proposed Bord na Móna Powergen Ltd. Wind Farm Development at Clongawny and Drinagh Bogs, Co. Offaly.

Dear Mr. Woods,

In June 2018, you received an EIA Scoping Document as part of the preparation of an Environmental Impact Assessment Report (EIAR) for a proposed Bord na Móna Powergen Ltd. wind energy development at **Derrinlough** and surrounding townlands, Co. Offaly. The proposed development will be located on two bogs within the Boora Bog Group in West Offaly, namely Clongawny and Drinagh bog units. The proposed development will be referred to as Derrinlough Wind Farm. The site is located approximately 3.0 kilometres to the east of Banagher and approximately 7.0 kilometres to the northeast of Birr, Co. Offaly.

An application has been made, to An Bord Pleanála (Board), seeking a determination in relation to the Strategic Infrastructure Development (SID) status, or otherwise, of the proposed wind energy development. The proposed project will encompass up to 24 no. turbines and have an output in excess 50 Megawatts. If the Board determine that the development is indeed SID, the planning application will be submitted directly to the Board, under the provisions of Planning and Development (Strategic Infrastructure) Act 2006.

As part of the EA scoping process, we would welcome any comments that you might have in relation to the turbine layout currently being assessed as part of the EIAR. The currently proposed turbine layout map is attached to this email.

If you could return any comments or suggestions at your earliest convenience it would be much appreciated. If you require any further information, please do not hesitate to contact me.

Kind Regards,



Eoin McCarthy B.Sc. (Env.)
Senior Environmental Scientist

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



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From: Eoin McCarthy
Sent: 08 June 2018 15:23
To: rwoods@bai.ie
Cc: McCarthy Keville O'Sullivan Ltd. <info@mccarthykos.ie>
Subject: 171221 - Proposed Bord na Móna Powergen Ltd. Wind Farm Development at Clongawny and Drinagh Bogs, Co. Offaly.

Dear Mr. Woods,

McCarthy Keville O'Sullivan Ltd. is preparing an Environmental Impact Assessment Report (EIAR) for a proposed Bord na Móna Powergen Ltd. wind energy development at **Derrinlough** and surrounding townlands, Co. Offaly. The proposed development will be located on two bogs within the Boora Bog Group in West Offaly, namely Clongawny and Drinagh bog units. The proposed development will be referred to as Derrinlough Wind Farm. The site is located approximately 3.0 kilometres to the east of Banagher and approximately 7.0 kilometres to the northeast of Birr, Co. Offaly.

The proposed project will likely encompass 20 to 25no. turbines and have an output of at least 50 Megawatts. Should the project be of this scale, an application will be made to An Bord Pleanála (Board) seeking a determination in relation to the SID status, or otherwise, of the proposed wind energy development. If the Board determine that the development is indeed SID, the planning application will be submitted directly to An Bord Pleanála, under the provisions of Planning and Development (Strategic Infrastructure) Act 2006. Should the project be of a scale lower than the SID thresholds, an application for planning permission will be made to Offaly County Council.

As part of the EIA process, we would welcome any comments that you might have in relation to the proposed project, including baseline data, survey techniques or potential impacts that should be considered as part of the assessment process and in the preparation of the EIAR. In order to facilitate this a Scoping Document providing details of the proposed project and the site of the proposed development is attached.

If you could return any comments or suggestions at your earliest convenience it would be much appreciated. If you require any further information, please do not hesitate to contact me.

Kind Regards,

Eoin McCarthy B.Sc. (Env.)
Project Environmental Scientist

McCarthy Keville O'Sullivan Ltd.

Planning & Environmental Consultants

Block 1, G.F.S.C. Moneenageisha Road, Galway, H91N8KK

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Eoin McCarthy

From: info@birdwatchireland.ie
Sent: 08 November 2019 15:37
To: Eoin McCarthy
Subject: RE: 171221 - Proposed Bord Na Mona Powergen Ltd. Wind Farm Development at Clongawny and Drinagh Bogs, Co. Offaly

Hi Eoin ,
Thank you for your email which has been forwarded to the Policy officer .

Regards,
Michelle Kavanagh,
Membership Department.
BirdWatch Ireland
Unit 20 Block D | Bullford Business Campus | Kilcoole | Greystones | A63 RW83 | Co.Wicklow | Ireland
Tel: +353 (0)1 281 9878 email: mkavanagh@birdwatchireland.ie
Website: www.birdwatchireland.ie

BirdWatch Ireland - protecting wild birds and their habitats

BirdWatch Ireland - protecting birds and biodiversity

Cairde Éanlaith Éireann - ag caomhnú éin agus bithéagsúlacht

To join as a member, make a donation, volunteer or shop online visit www.birdwatchireland.ie or call us on +353 (0)1 281 9878

From: Eoin McCarthy [mailto:emccarthy@mkoireland.ie]
Sent: Friday 8 November 2019 15:06
To: info@birdwatchireland.ie
Subject: RE: 171221 - Proposed Bord Na Mona Powergen Ltd. Wind Farm Development at Clongawny and Drinagh Bogs, Co. Offaly

Dear Mr. O'Sullivan,

In June 2018, you received an EIA Scoping Document as part of the preparation of an Environmental Impact Assessment Report (EIAR) for a proposed Bord na Móna Powergen Ltd. wind energy development at Derrinlough and surrounding townlands, Co. Offaly. The proposed development will be located on two bogs within the Boora Bog Group in West Offaly, namely Clongawny and Drinagh bog units. The proposed development will be referred to as Derrinlough Wind Farm. The site is located approximately 3.0 kilometres to the east of Banagher and approximately 7.0 kilometres to the northeast of Birr, Co. Offaly.

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As part of the EIA scoping process, we would welcome any comments that you might have in relation to the turbine layout currently being assessed as part of the EIAR. The currently proposed turbine layout map is attached to this email.

If you could return any comments or suggestions at your earliest convenience it would be much appreciated. If you require any further information, please do not hesitate to contact me.

Kind Regards,



Eoin McCarthy B.Sc. (Env.)
Senior Environmental Scientist

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Ireland, H91 VW84
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www.mkoireland.ie



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From: Eoin McCarthy
Sent: 08 June 2018 15:29
To: info@birdwatchireland.ie
Subject: 171221 - Proposed Bord Na Mona Powergen Ltd. Wind Farm Development at Clongawny and Drinagh Bogs, Co. Offaly

Dear Mr. O'Sullivan

McCarthy Keville O'Sullivan Ltd. is preparing an Environmental Impact Assessment Report (EIAR) for a proposed Bord na Móna Powergen Ltd. wind energy development at **Derrinlough** and surrounding townlands, Co. Offaly. The proposed development will be located on two bogs within the Boora Bog Group in West Offaly, namely Clongawny and Drinagh bog units. The proposed development will be referred to as Derrinlough Wind Farm. The site is located approximately 3.0 kilometres to the east of Banagher and approximately 7.0 kilometres to the northeast of Birr, Co. Offaly.

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As part of the EIA process, we would welcome any comments that you might have in relation to the proposed project, including baseline data, survey techniques or potential impacts that should be considered as part of the assessment process and in the preparation of the EIAR. In order to facilitate this a Scoping Document providing details of the proposed project and the site of the proposed development is attached.

If you could return any comments or suggestions at your earliest convenience it would be much appreciated. If you require any further information, please do not hesitate to contact me.

Kind Regards,

Eoin McCarthy B.Sc. (Env.)
Project Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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Eoin McCarthy

From: padraig.condon@bt.com
Sent: 14 June 2018 15:08
To: Eoin McCarthy
Cc: McCarthy Keville O'Sullivan Ltd.
Subject: RE: 171221 - Telecoms Scoping
Attachments: 171221 - EIA SD - 2018 06 06 - F.PDF

Hi Eoin,

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

Regards

Padraig Condon
BT Radio Ops

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 McCarthy [mailto:emccarthy@mccarthykos.ie]
Sent: 08 June 2018 15:42
To: Condon,PG,Padraig,HQE32E R
Cc: McCarthy Keville O'Sullivan Ltd.
Subject: RE: 171221 - Telecoms Scoping

Hi Padraig,

Please see attached, for your own records, the official EIA Scoping Document for the Proposed Derrinlough Wind Farm Development located in the Clongawny and Drinagh Bogs, Co. Offaly.

Kind Regards,

Eoin McCarthy B.Sc. (Env.)
Project Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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From: padraig.condon@bt.com [<mailto:padraig.condon@bt.com>]
Sent: 08 March 2018 16:55
To: Orla Murphy <omurphy@mccarthykos.ie>
Subject: RE: 171221 - Telecoms Scoping

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

Regards

Padraig Condon
BT Radio Ops

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: Orla Murphy [<mailto:omurphy@mccarthykos.ie>]
Sent: 08 March 2018 16:26
To: Condon,PG,Padraig,HQE32E R
Subject: 171221 - Telecoms Scoping

Hi Padraig

We are working on a wind energy feasibility study within Co. Offaly. The central Grid Ref coordinates of the area being assessed are IG E 209000 N 215800. A location map is attached showing the area being assessed.

Could you let me know please if BT has any links within this area and up to 5km from the area shown? Could you please also advise as to the minimum separation distance required between your link(s) and a wind turbine blade-tip. We will incorporate these links and separation buffers into our constraints mapping.

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

Regards,

Órla

Órla Murphy B.Sc M.Sc

Assistant Env. Scientist

McCarthy Keville O'Sullivan Ltd.

Planning & Environmental Consultants

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

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Eoin McCarthy

From: Environmental Co-ordination (Inbox) <Environmental_Co-ordination@agriculture.gov.ie>
Sent: 23 July 2018 12:35
To: Eoin McCarthy
Subject: RE: 171221 - Proposed Bord Na Mona Powergen Ltd. Wind Farm Development at Clongawny and Drinagh Bogs, Co. Offaly

Dear Mr McCarthy,

I refer to your recent correspondence concerning the above.

If the proposed development will involve the felling or removal of any trees, the developer must obtain a Felling Licence from this Department before trees are felled or removed. A Felling Licence application form can be obtained from **Felling Section, Department of Agriculture, Food and the Marine, Johnstown Castle Estate, Co. Wexford**. Tel: 076-1064459, Web <https://www.agriculture.gov.ie/forests-service/tree-felling/tree-felling/>

A Felling Licence granted by the Minister for Agriculture, Food and the Marine provides authority under the Forestry Act 2014 to fell or otherwise remove a tree or trees and/or to thin a forest for silvicultural reasons. The Act prescribes the functions of the Minister and details the requirements, rights and obligations in relation to felling licences. The principal set of regulations giving further effect to the Forestry Act 2014 are the Forestry Regulations 2017 (S.I. No. 191 of 2017).

The developer should take note of the contents of the **Felling and Reforestation Policy** document, which provide a consolidated source of information on the legal and regulatory framework relating to tree felling; <https://www.agriculture.gov.ie/media/migration/forestry/tree-felling/FellingReforestationPolicy240517.pdf> .

In order to ensure regulated forestry operations in Ireland accord with the principles of sustainable forest management (SFM) , as well fulfilling the requirements of other relevant environmental protection laws, the Department (acting through its Forest Service division) must undertake particular consultations and give certain matters full consideration during the assessment of individual Felling Licence applications. This includes consultation with relevant bodies, the application of various protocols and procedures (e.g. Forest Service Appropriate Assessment Procedure), and the requirement for applicants on occasion to provide further information (e.g. a Natura Impact Statement).

Consequently, when the Forest Service is considering an application to fell trees, the following applies:

1. The interaction of these proposed works with the environment locally and more widely, in addition to potential direct and indirect impacts on designated sites and water, is assessed. Consultation with relevant environmental and planning authorities may be required where specific sensitivities arise (e.g. local authorities, National Parks & Wildlife Service, Inland Fisheries Ireland, and the National Monuments Service);
2. Where a tree Felling Licence application is received, the Department will publish a notice of the application before making a decision on the matter. The notice shall state that any person may make a submission to the Department within 30 days from the date of the notice. The notices for 2018 are published online at: <https://www.agriculture.gov.ie/forests-service/public-consultation/environmental-impact-assessment/environmental-impact-assessment-for-afforestation-forest-road-construction-and-felling-licences-2018/>
3. Third parties that make a submission or observation will be informed of the decision to grant or refuse the licence, and on request, details of the conditions attached to the licence, the main reasons

and considerations 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/publicconsultation/environmentalimpactassessment-2018registerofdecisions/>

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

T +353 (0)57 868 9915

www.agriculture.gov.ie

From: Eoin McCarthy [<mailto:emccarthy@mccarthykos.ie>]

Sent: 08 June 2018 15:52

To: McDonnell, Liz

Cc: McCarthy Keville O'Sullivan Ltd.

Subject: 171221 - Proposed Bord Na Mona Powergen Ltd. Wind Farm Development at Clongawny and Drinagh Bogs, Co. Offaly

Dear Ms. McDonnell,

McCarthy Keville O'Sullivan Ltd. is preparing an Environmental Impact Assessment Report (EIAR) for a proposed Bord na Móna Powergen Ltd. wind energy development at **Derrinlough** and surrounding townlands, Co. Offaly. The proposed development will be located on two bogs within the Boora Bog Group in West Offaly, namely Clongawny and Drinagh bog units. The proposed development will be referred to as Derrinlough Wind Farm. The site is located approximately 3.0 kilometres to the east of Banagher and approximately 7.0 kilometres to the northeast of Birr, Co. Offaly.

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If you could return any comments or suggestions at your earliest convenience it would be much appreciated. If you require any further information, please do not hesitate to contact me.

Kind Regards,

Eoin McCarthy B.Sc. (Env.)

Project 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 ceanglái 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.

Eoin McCarthy

From: PropertyManagementPlanning <PropertyManagementPlanning@defence.ie>
Sent: 17 December 2019 16:34
To: Eoin McCarthy
Subject: 171221 - Proposed Bord na Móna Powergen Ltd Wind Farm at Clongawny and Drinagh Bogs, Co. Offaly
Attachments: Corr to MKO re 171221 Windfarm at Clongawny and Drinagh Bogs.pdf

Dear Eoin,

Please find the attached observations from the Air Corps with regard to the proposed Bord na Móna Powergen Wind Farm Development at Clongawny and Drinagh Bogs, Co. Offaly.

I have also sent a hard copy in the post.

Please contact me if you have any queries in this regard.

*Kind Regards,
Geraldine*

Geraldine Cunningham

Property Management Branch

An Roinn Cosanta

Department of Defence

Bóthar an Staisiúin, An Droichead Nua, Contae Chill Dara, W12 AD93.

Station Road, Newbridge, Co.Kildare, W12 AD93.

T +353 (0)45 492036

geraldine.cunningham@defence.ie



Fógra faoi Rúndacht: Tá an ríomhphost seo agus aon iatán a ghabhann leis rúnda. Is leis an duine / nó daoine sin amháin a bhfuil siad seolta chucu a bhaineann siad agus ní ceart iad a léamh ná a scaoileadh chuig aon tríú páirtí gan cead roimh ré ón Roinn Cosanta. Chun amharc ar an Chairt do Chustaiméirí, clliceáil ar www.defence.ie/system/files/media/file-uploads/2018-06/customer-charter-2017-irish.pdf

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To view our Customer Charter, please click on

www.defence.ie/system/files/media/file-uploads/2018-06/customer-charter-2017.pdf



Your Ref: 171221

Our Ref: **G Pre00165/2018**

(Please quote in all related correspondence)

19 July 2018

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

Via email: emccarthy@mccarthykos.ie

**Re: Environmental Impact Assessment (EIA) Scoping Document for the proposed
Bord Na Mona Powergen Ltd. Wind Farm Development at Derrinlough,
Clongawny and Drinagh Bogs, Co. Offaly.**

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.

Archaeology

An Archaeological assessment should be carried out by a suitably qualified archaeologist.

The following should be included in the Archaeological survey methodology and guidelines outlined in the EIA scoping document.

Archaeological assessment should be carried out as follows:

- All previous surveys of the bog should be examined.
- A new survey of the bog should be carried out. This survey should include cleaning the drains and walking the bog. It might be necessary to have drains re-cut to facilitate examination.



- Survey work should be carried out by an archaeologist working under the terms of an excavation licence granted by this Department. This will facilitate sampling for species identification and dating.
- The proposed site layout should be considered in the light of the surveys.
- Having identified areas of archaeological importance, buffer areas where no ground disturbance will take place should be established, in order to facilitate preservation *in situ* of archaeological features.
- Archaeological mitigation should be suggested, to take place in advance of and/or during groundworks.
- It is likely, that where material is to be preserved in situ, empirical measurement into the future of hydrology of the site will be required e.g. by means of the use of dipwells (piezometers).

Architectural heritage and/or Nature Conservation observations/recommendations, 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/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@chq.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

Eoin McCarthy

From: Orla Murphy
Sent: 02 July 2018 11:07
To: Thomas.Sheridan@eir.ie
Subject: RE: 171221 - Telecoms Scoping

Hi Thomas,

Many thanks for your email. We will consider the 4 links you have provided below within our assessment.

Many thanks

Órla

Órla Murphy B.Sc M.Sc
Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

Block 1, G.F.S.C. Moneenageisha Road, Galway, H91 N8KK
T: (091) 73 56 11 || E: info@mccarthykos.ie || W: www.mccarthykos.ie

From: Thomas.Sheridan@eir.ie [mailto:Thomas.Sheridan@eir.ie]
Sent: 25 June 2018 13:29
To: Orla Murphy <omurphy@mccarthykos.ie>
Cc: Eoin McCarthy <emccarthy@mccarthykos.ie>
Subject: RE: 171221 - Telecoms Scoping

Orla,

Four microwave links shown below need to be considered.

Any wind turbine located less than 100m from a radio path needs to be examined in greater detail. End co-ordinates for the link needs to be verified as well as determining the closest possible location of the wind turbine, taking micro site-ing into account.

Absolute minimum separation is normally > 30m horizontal separation.

Hi Thomas,

Many thanks for clarification, please see attached wind feasibility area in KMZ format and pdf map which we sent to John previously. The central Grid Ref coordinates of the area being assessed are IG E 209000 N 215800. A location map is attached showing the area being assessed.

If you could let me know of any links within this area and up to 5km from the area shown? Could you please also advise as to the minimum separation distance required between your link(s) and a wind turbine blade-tip. We will incorporate these links and separation buffers into our constraints mapping.

Regards

Órla

Órla Murphy B.Sc M.Sc
Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

Block 1, G.F.S.C. Moneenageisha Road, Galway, H91 N8KK
T: (091) 73 56 11 || E: info@mccarthykos.ie || W: www.mccarthykos.ie

From: Thomas.Sheridan@eir.ie [<mailto:Thomas.Sheridan@eir.ie>]

Sent: 11 June 2018 12:51

To: Orla Murphy <omurphy@mccarthykos.ie>

Cc: Eoin McCarthy <emccarthy@mccarthykos.ie>

Subject: RE: 171221 - Telecoms Scoping

Hi Orla,

Information below relates only to mobile phone microwave radio network & doesn't take account of eir fixed network microwave radio.

Best Regards

Thomas Sheridan 
Network Design Radio Engineer

T: 091 773615 M: 0851742191

thomas.sheridan@eir.ie 

open eir, Mervue, Galway.

From: Orla Murphy [<mailto:omurphy@mccarthykos.ie>]

Sent: 11 June 2018 12:33

To: Sheridan, Thomas

Cc: Eoin McCarthy

Subject: RE: 171221 - Telecoms Scoping

Hi Thomas,

From previous correspondence with John, we were provided with information about Eir microwave links within the area and within 5km of the proposed development. See his emails below from 13th March and 11th April. We had discussed buffer sizes and applied these within our constraints.

I think John will have probably provided us with all the information we need in regards to links within and surrounding the proposed site, but if you think there is any updated links information, I would appreciate you letting us know.

Regards

Órla

Órla Murphy B.Sc M.Sc
Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

Block 1, G.F.S.C. Moneenageisha Road, Galway, H91 N8KK
T: (091) 73 56 11 || E: info@mccarthykos.ie || W: www.mccarthykos.ie

From: Thomas.Sheridan@eir.ie [<mailto:Thomas.Sheridan@eir.ie>]
Sent: 11 June 2018 12:14
To: McCarthy Keville O'Sullivan Ltd. <info@mccarthykos.ie>
Cc: Orla Murphy <omurphy@mccarthykos.ie>
Subject: FW: 171221 - Telecoms Scoping


Hi,

Could you please send future Windfarm related correspondence for eir to me at email address below.

Could you please send me a kmz file showing the area in scope for this development & I will advise on any microwave eir links in the area

Best Regards

Thomas Sheridan 
Network Design Radio Engineer

T: 091 773615 M: 0851742191
thomas.sheridan@eir.ie 

open eir, Mervue, Galway.

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From: O'Flaherty, Brendan
Sent: 08 June 2018 16:29
To: Sheridan, Thomas; Eivers, James
Subject: FW: 171221 - Telecoms Scoping

Tom / James

FYI - I noticed Seamus was cc'd on this email.

Regards
Brendan

From: Eoin McCarthy [<mailto:emccarthy@mccarthykos.ie>]
Sent: 08 June 2018 15:58
To: Bagnall, John
Cc: O'Keeffe, Seamus; O'Flaherty, Brendan; McCarthy Keville O'Sullivan Ltd.
Subject: RE: 171221 - Telecoms Scoping

Hi John,

Please see attached, for your own records, the formal EIA Scoping Document for the Proposed Derrinlough Wind Farm Development located in the Clongawny and Drinagh Bogs, Co. Offaly.

Kind Regards,

Eoin McCarthy B.Sc. (Env.)
Project Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

Block 1, G.F.S.C. Moneenageisha Road, Galway, H91N8KK
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From: Orla Murphy
Sent: 17 April 2018 09:18
To: John.Bagnall@eir.ie
Cc: Seamus.Okeeffe@eir.ie; Brendan.OFlaherty@eir.ie
Subject: RE: 171221 - Telecoms Scoping

Hi John,

As we are at the feasibility stage, we have not yet determined turbine locations or blade diameter. We will take your buffers into account at this stage and update you when we have a proposed layout.

Regards

Órla

Órla Murphy B.Sc M.Sc
Assistant Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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From: John.Bagnall@eir.ie [<mailto:John.Bagnall@eir.ie>]
Sent: Wednesday 11 April 2018 08:15
To: Orla Murphy <omurphy@mccarthykos.ie>
Cc: Seamus.Okeeffe@eir.ie; Brendan.OFlaherty@eir.ie
Subject: RE: 171221 - Telecoms Scoping

Orla,

The difference of the fresnel zone is only a matter of meters, I could reduce one of the paths. With one of our sites in the middle of the plot there is very little I edit unfortunately as I have to accommodate for upgrades of the transmission paths giving larger fresnel zones. Can you send on you maximum blade diameter planned here please?

The path 1; OY_4818 53° 9'59.87"N 7° 53'24.56"W ---- OY_1141 53° 8'5.89"N 7° 53'32.59"W can be reduced to 95m buffer.

Regards,
John

From: Orla Murphy [<mailto:omurphy@mccarthykos.ie>]
Sent: 09 April 2018 12:26
To: Bagnall, John
Cc: O'Keefe, Seamus; O'Flaherty, Brendan
Subject: RE: 171221 - Telecoms Scoping

Hi John

I am contacting you regarding the email sent in March, detailing your transmission sites and paths within our wind energy feasibility study area, Co. Offaly. Two of the links provided cross part of our site:

1; OY_4818 53° 9'59.87"N 7° 53'24.56"W ---- OY_1141 53° 8'5.89"N 7° 53'32.59"W
2; OY_4818 53° 9'59.87"N 7° 53'24.56"W ---- LS_2000 53° 5'51.74"N 7° 35'32.56"W

In regard to the 100m buffer you have applied, would this be possible to be reduced? The links cross the site, and the 100m buffer constrains out a 200m zone across its width. Is there any chance the buffer size could be reduced based on the Fresnel zone calculations?

Any assistance would be appreciated,

Regards

Órla

Órla Murphy B.Sc M.Sc
Assistant 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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From: John.Bagnall@eir.ie [<mailto:John.Bagnall@eir.ie>]
Sent: Tuesday 13 March 2018 13:00
To: Orla Murphy <omurphy@mccarthykos.ie>
Cc: Seamus.Okeeffe@eir.ie; Brendan.OFlaherty@eir.ie
Subject: RE: 171221 - Telecoms Scoping

Orla,

We have three transmission sites and 6 transmission paths within the study area. A list of the 6 TXN paths are below if you can incorporate them into your audit of the study area, we require a buffer of 100meters from sites location and paths. Once you have picked turbine locations please send on for further analysis.

TXN paths

1; **OY_4818** 53° 9'59.87"N 7° 53'24.56"W ---- **OY_1141** 53° 8'5.89"N 7° 53'32.59"W
2; **OY_4818** 53° 9'59.87"N 7° 53'24.56"W ---- **LS_2000** 53° 5'51.74"N 7° 35'32.56"W
3; **OY_1582** 53° 11'24.45"N 7° 59'23.00"W ---- **GY_2311** 53° 13'23.16"N 8° 8'44.55"W
4; **OY_4461** 53° 12'18.70"N 7° 59'51.29"W ---- **OY_4314** 53° 16'33.84"N 8° 2'22.21"W
5; **OY_4461** 53° 12'18.70"N 7° 59'51.29"W ---- **OY_4303** 53° 15'50.51"N 7° 52'3.59"W
6; **OY_4461** 53° 12'18.70"N 7° 59'51.29"W ---- **OY_4345** 53°13'58.06"N 7°52'17.05"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: Orla Murphy [<mailto:omurphy@mccarthykos.ie>]
Sent: 08 March 2018 16:13
To: Bagnall, John
Cc: windfarmsdg@mosaicnet.ie; O'Keeffe, Seamus
Subject: 171221 - Telecoms Scoping

Hi John

We are working on a wind energy feasibility study within Co. Offaly. The central Grid Ref coordinates of the area being assessed are IG E 209000 N 215800. A location map is attached showing the area being assessed.

Could you let me know please if Eir and Meteor has any links within this area and up to 5km from the area shown? Could you please also advise as to the minimum separation distance required between your link(s) and a wind turbine blade-tip. We will incorporate these links and separation buffers into our constraints mapping.

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

Regards,

Órla

Órla Murphy B.Sc M.Sc

Assistant Env. Scientist

McCarthy Keville O'Sullivan Ltd.

Planning & Environmental Consultants

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

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Eoin McCarthy

From: Eoin McCarthy
Sent: 17 December 2019 17:04
To: John Bagnall
Subject: RE: 171221 - Telecoms Scoping
Attachments: T Layout V3 - 171221 - 2019.10.09.csv

Hi John,

Please see co-ordinates attached.

Kind Regards,



Eoin McCarthy B.Sc. (Env.)
Senior Environmental Scientist

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



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From: John Bagnall <john.bagnall@eir.ie>
Sent: 11 November 2019 09:54
To: Eoin McCarthy <emccarthy@mkoireland.ie>
Subject: Re: 171221 - Telecoms Scoping

Hi Eoin,

Can you send on the final coordinates of the turbine location please.

Kind regards,



John Bagnall
Transmission Design & Engineering

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

On Fri, 8 Nov 2019 at 15:26, Eoin McCarthy <emccarthy@mkoireland.ie> wrote:

Hi John,

In June 2018, you received an EIA Scoping Document as part of the preparation of an Environmental Impact Assessment Report (EIAR) for a proposed Bord na Móna Powergen Ltd. wind energy development at Derrinlough and surrounding townlands, Co. Offaly. The proposed development will be located on two bogs within the Boora Bog Group in West Offaly, namely Clongawny and Drinagh bog units. The proposed development will be referred to as Derrinlough Wind Farm. The site is located approximately 3.0 kilometres to the east of Banagher and approximately 7.0 kilometres to the northeast of Birr, Co. Offaly.

An application has been made, to An Bord Pleanála (Board), seeking a determination in relation to the Strategic Infrastructure Development (SID) status, or otherwise, of the proposed wind energy development. The proposed project will encompass up to 24 no. turbines and have an output in excess 50 Megawatts. If the Board determine that the development is indeed SID, the planning application will be submitted directly to the Board, under the provisions of Planning and Development (Strategic Infrastructure) Act 2006.

As part of the EIA scoping process, we would welcome any comments that you might have in relation to the turbine layout currently being assessed as part of the EIAR. The currently proposed turbine layout map is attached to this email.

If you could return any comments or suggestions at your earliest convenience it would be much appreciated. If you require any further information, please do not hesitate to contact me.

Kind Regards,



Eoin McCarthy B.Sc. (Env.)
Senior Environmental Scientist

MKO

Tuam Road, Galway

Ireland, H91 VW84

+353 (0) 91 735611

www.mkoireland.ie



Eoin McCarthy

From: Dominic Crudden <dominic.crudden@emrsolutions.ie>
Sent: 13 March 2018 12:50
To: Orla Murphy
Subject: RE: 171221 - Telecoms Scoping

Orla,

EMR do not have any links within 5km of the area shown in the map and therefore would be unaffected by the proposal.

Regards,

Dominic Crudden
Pre-Sales Engineer



Mobile: +353 (86) 7712819

Office: +353 (1) 8013131

Fax: +353 (1) 8013166

Email: dominic.crudden@emrsolutions.ie



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From: Orla Murphy [mailto:omurphy@mccarthykos.ie]
Sent: Thursday 8 March 2018 16:36
To: Dominic Crudden <dominic.crudden@emrsolutions.ie>
Subject: 171221 - Telecoms Scoping

Hi Dominic

We are working on a wind energy feasibility study within Co. Offaly. The central Grid Ref coordinates of the area being assessed are IG E 209000 N 215800. A location map is attached showing the area being assessed.

Could you let me know please if EMR Solutions has any links within this area and up to 5km from the area shown? Could you please also advise as to the minimum separation distance required between your link(s) and a wind turbine blade-tip. We will incorporate these links and separation buffers into our constraints mapping.

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

Regards,

Órla

Órla Murphy B.Sc M.Sc
Assistant Env. Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

Eoin McCarthy

From: Yvonne Jackson <Yvonne.Jackson@failteireland.ie>
Sent: 25 June 2018 15:47
To: Eoin McCarthy
Subject: RE: 171221 - Proposed Bord Na Mona Powergen Ltd. Wind Farm Development at Clongawny and Drinagh Bogs, Co. Offaly
Attachments: EIS & Tourism Guidelines.pdf

Dear Eoin,

I wish to acknowledge receipt of your e-mail in relation to the **Wind Farm Development at Clongawny and Drinagh Bogs, Co Offaly**.

Please see attached a copy of Fáilte Ireland's Guidelines for the treatment of tourism in an EIS, which we recommend should be taken into account in preparing the EIAR.

Regards,

Yvonne

Yvonne Jackson

Product Development Support-Activities | Fáilte Ireland
Áras Fáilte, 88/95 Amiens Street, Dublin 1. D01WR86
T +353 (0)1 884 7244 | www.failteireland.ie



Fáilte Ireland
National Tourism Development Authority



From: Eoin McCarthy <emccarthy@mccarthykos.ie>
Sent: 08 June 2018 4:11 PM
To: Yvonne Jackson <Yvonne.Jackson@failteireland.ie>
Cc: McCarthy Keville O'Sullivan Ltd. <info@mccarthykos.ie>
Subject: 171221 - Proposed Bord Na Mona Powergen Ltd. Wind Farm Development at Clongawny and Drinagh Bogs, Co. Offaly

Dear Ms. Jackson,

McCarthy Keville O'Sullivan Ltd. is preparing an Environmental Impact Assessment Report (EIAR) for a proposed Bord na Móna Powergen Ltd. wind energy development at **Derrinlough** and surrounding townlands, Co. Offaly. The proposed development will be located on two bogs within the Boora Bog Group in West Offaly, namely Clongawny and Drinagh bog units. The proposed development will be referred to as Derrinlough Wind Farm. The site is located approximately 3.0 kilometres to the east of Banagher and approximately 7.0 kilometres to the northeast of Birr, Co. Offaly.

The proposed project will likely encompass 20 to 25no. turbines and have an output of at least 50 Megawatts. Should the project be of this scale, an application will be made to An Bord Pleanála (Board) seeking a determination in relation to the SID status, or otherwise, of the proposed wind energy development. If the Board determine that the development is indeed SID, the planning application will be submitted directly to An Bord Pleanála, under the provisions of Planning and Development (Strategic Infrastructure) Act 2006. Should the project be of a scale lower than the SID thresholds, an application for planning permission will be made to Offaly County Council.

As part of the EIA process, we would welcome any comments that you might have in relation to the proposed project, including baseline data, survey techniques or potential impacts that should be considered as part of the assessment process and in the preparation of the EIAR. In order to facilitate this a Scoping Document providing details of the proposed project and the site of the proposed development is attached.

If you could return any comments or suggestions at your earliest convenience it would be much appreciated. If you require any further information, please do not hesitate to contact me.

Kind Regards,

Eoin McCarthy B.Sc. (Env.)
Project Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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Eoin McCarthy

From: Amrine DuboisGafar <Amrine.DuboisGafar@DCCAIE.gov.ie>
Sent: 27 November 2019 14:29
To: Eoin McCarthy
Cc: Clare Glanville; John Butler
Subject: Proposed Bord Na Mona Powergen Ltd. Wind Farm development at Clongawny and Drinagh Bogs, Co. Offaly
Attachments: 19_254_Proposed Bord Na Mona Powergen Ltd. Wind Farm development.pdf; OY011_Crancreagh_Mushroom_Rock.pdf; OY015_Derrinlough_Mushroom_Rock.pdf; OY016_Drinagh_Mushroom_Rock.pdf

Re: Proposed Bord Na Mona Powergen Ltd. Wind Farm development at Clongawny and Drinagh Bogs, Co. Offaly

Your Ref:
Our Ref: 19/254 [c.f. 18/94]

Eoin, a chara,

With reference to your email received on 08 November 2019 in relation to the above reference, please see attached Geological Survey Ireland's response.

If you need any further information please do not hesitate to contact me, or my colleague Clare Glanville (Clare.Glanville@gsi.ie).

Le meas,

Amrine



Amrine Dubois Gafar Graduate Geologist, **Geoheritage Programme**

Geological Survey Ireland, Beggars Bush, Haddington Road, Dublin D04 K7X4, Ireland.

T (+353) 01 6782871 E Amrine.DuboisGafar@DCCAIE.gov.ie www.gsi.ie

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Tá eolas sa teachtaireacht leictreonach seo (agus b'fhéidir sa chomhaid ceangailte leis) a d'fhéadfadh bheith príobháideach nó faoi rún. Is le h-aghaidh an duine/na ndaoine nó le h-aghaidh an aonáin atá ainmnithe thuas agus le haghaidh an duine/na ndaoine sin amháin atá an t-eolas. Murab ionann tusa agus an té a bhfuil an teachtaireacht ceaptha dó bíodh a fhios agat nach gceadaítear nochtadh, cóipeáil, scaipeadh nó úsáid an eolais agus/nó an chomhaid seo. Más trí earráid a fuair tú an teachtaireacht leictreonach seo cuir, más é do thoil é, an té ar sheol an teachtaireacht ar an eolas láithreach. Deimhnítear leis seo freisin nár aims odh víreas sa phost seo tar éis a scanadh.



MKO
Tuam Road
H91 VW84
County Galway

27 November 2019

Re: Proposed Bord Na Mona Powergen Ltd. Wind Farm development at Clongawny and Drinagh Bogs, Co. Offaly

Your Ref:

Our Ref: 19/254 [c.f. 18/94]

Eoin, a chara,

With reference to your email received on 08 November 2019, concerning the proposed wind farm development by Bord Na Mona Powergen Ltd at Clongawny and Drinagh Bogs, Co. Offaly, Geological Survey Ireland (a division of Department of Communications, Climate Action and Environment) would like to make the following comments:

Geological Survey Ireland is the national earth science agency and has datasets on Bedrock Geology, Quaternary Geology, Geological Heritage Sites, Mineral deposits, Groundwater Resources and the Irish Seabed. These comprise maps, reports and extensive databases that include mineral occurrences, bedrock/mineral exploration groundwater/site investigation boreholes, karst features, wells and springs. Please see our [website](#) for data availability and we recommend using these various data sets, when undergoing the planning and scoping processes. Geological Survey Ireland should be referenced to as such and should any data or geological maps be used, they should be attributed correctly to Geological Survey Ireland.

Geoheritage

Geological Survey Ireland (GSI) is in partnership with the National Parks and Wildlife Service (NPWS, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs) to identify and select important geological and geomorphological sites throughout the country for designation as geological NHAs (Natural Heritage Areas). This is addressed by the Irish Geoheritage Programme (IGH) of GSI, under 16 different geological themes, in which the minimum number of scientifically significant sites that best represent the theme are rigorously selected by a panel of theme experts.

County Geological Sites (CGS), as adopted under the National Heritage Plan are now included in County Development Plans and in the GIS of planning departments, to ensure the recognition and appropriate protection of geological heritage within the planning system. CGSs can be viewed online under the Geological Heritage tab on the online [Map Viewer](#). The audit for Co. Offaly was completed in 2016 and full details of the report can be found [here](#). **Our records show that there are three CGSs located within or close to the proposed wind farm boundary (Site Reports from the County Audit are attached):**

- **Crancreagh Mushroom Rock** (GR 607500 716495), under IGH theme 1: Karst
Close to wind farm site boundary, approximately 0.6 km
- **Derrinlough Mushroom Rock** (GR 608509 715093), under IGH theme 1: Karst
Located within the wind farm site boundary
- **Drinagh Mushroom Rock** (GR 610560 715868), under IGH theme 1: Karst
Located within the wind farm site boundary, in close proximity to the proposed placement of turbine number 16

While CGS's have no statutory protection they are typically afforded protection within County Development Plans and should be considered within this context. If you require further information in this regard please contact Clare Glanville, at Clare.Glanville@gsi.ie, for further information and possible mitigation measures if applicable.



Groundwater

Groundwater is important as a source of drinking water, and it supports river flows, lake levels and ecosystems. It contains natural substances dissolved from the soils and rocks that it flows through, and can also be tainted by human actions on the land surface. As a clean, but vulnerable, resource, groundwater needs to be understood, managed and protected. Through our [Groundwater Programme](#), Geological Survey Ireland provides advice and maps to members of the public, consultancies and public bodies about groundwater quality, quantity, distribution and vulnerability. Geological Survey Ireland monitors groundwater nationwide by characterising aquifers, investigating karst landscapes and landforms and by helping to protect public and group scheme water supplies. With regard to Flood Risk Management, there is a need to identify areas for integrated constructed wetlands. We recommend using the GSI's National Aquifer and Recharge maps on our [Map viewer](#) to this end.

Geohazards

Geohazards can cause widespread damage to landscapes, wildlife, human property and human life. In Ireland, landslides are the most prevalent of these hazards. Please note that there are two recorded landslide events located within a 10km radius of the proposed site boundary. Geological Survey Ireland has information available on past landslides, for viewing on our website and as a layer on our [Map Viewer](#). Geological Survey Ireland also engages in national projects such as Landslide Susceptibility Mapping and GWFlood Groundwater Flooding, and in international projects, such as the Tsunami Warning System, coordinated by the Intergovernmental Oceanographic Commission of UNESCO. We recommend that geohazards be taken into consideration, especially when developing areas where these risks are prevalent, and we encourage the use of our data when doing so.

Natural Resources (Minerals/Aggregates)

Geological Survey Ireland is of the view that the sustainable development of our natural resources should be an integral part of all development plans from a national to regional to local level to ensure that the materials required for our society are available when required. Geological Survey Ireland highlights the consideration of mineral resources and potential resources as a material asset which should be explicitly recognised within the environmental assessment process. Geological Survey Ireland provides data, maps, interpretations and advice on matters related to minerals, their use and their development in our [Minerals section](#) of the website. The Active Quarries, Mineral Localities and the Aggregate Potential maps are available on our [Map Viewer](#).

I hope that these comments are of assistance, and if we can be of any further help, please do not hesitate to contact me, or my colleague Clare Glanville (Clare.Glanville@gsi.ie).

Le meas,

Amrine Dubois Gafar
Geoheritage Programme



Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive

Limistéar Lar Tire/Midland Area
Environmental Health Services
HSE Dublin-Mid-Leinster
Community Services
Health Centre
Arden Road
Tullamore
Co Offaly
R35 HP73
Telephone: 057-9359550
Fax: 057-9359565

25th June 2018

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



HSE EIS Submission REPORT

Environmental Health Service Consultation Report
*(as a Statutory Consultee (Planning & Development Acts 2000
and Regulations made thereunder))*

Type of consultation: EIS Scoping Screening (constraints)
Other (please specify)

Planning Authority:
An Bord Pleanála / Offaly County Council

Reference Number:
EHIS ref 0791

Applicant:
Bord na Mona Powergen Ltd

Proposed Development:

Bord na Mona Powergen Ltd is proposing to apply for permission for a wind energy development at Derrinlough and surrounding townlands in Co. Offaly. The proposed development will be located on two bogs within the Boora Bog Group in West Offaly, namely Clongawny and Drinagh bog units and will be referred to as Derrinlough Wind Farm

The proposed development is likely to encompass 20 to 25no. turbines and have an output of at least 50 Megawatts. Should the project be of this scale, an application will be

made to An Bord Pleanála seeking a determination in relation to the SID status, or otherwise, of the proposed development. If An Bord Pleanála determine that the development is indeed SID, the application will be submitted directly to An Bord Pleanála, under the provisions of Planning & Development (Strategic Infrastructure) Act 2006. Should the project be of a scale lower than the SID thresholds, an application for planning permission will be made to Offaly County Council



General Introduction

This report only comments on Environmental Health (EH) Impacts of the proposed development with particular reference to the following

1. Public Consultation

Details of public consultation are to be included in the proposed EIAR

2. Water / Hydrology / Hydrogeology

The scoping document states on page 29 that the surface water and ground water environment will be addressed in the EIAR

3. Noise and Shadow Flicker

As stated in the scoping document on page 31, noise and vibration effects both at construction & operational phases will be addressed and as stated on page 24 the potential of shadow flicker will be assessed using specialist computer software programmes specifically developed for the wind energy industry & addressed in the proposed EIAR

4. Air Quality

A dust minimisation plan during the proposed construction should be included in the proposed EIAR

5. Cumulative Impacts

There are three windfarm developments in the general area of the proposed

development site. Leabeg Wind Farm which comprises 2no. turbines is located ~ 4.0 kilometres to the Northeast of the site, Meenwaun Wind Farm which comprises 4no. turbines is located ~ 300m West of the site & the permitted Cloghan Wind Farm which comprises 9no. turbines is Located to the North of the site.

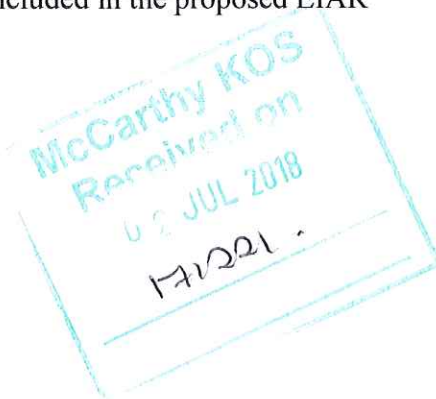
The potential cumulative impact of the proposed development and other developments and sensitive receptors located within proximity should be assessed and included in the proposed EIAR

6. Ancillary Facilities

Details of provisions of a potable water supply and sanitary accommodation for staff should be included in the proposed EIAR

7. Decommissioning

Proposals for decommissioning should be included in the proposed EIAR



Signed:

Dympna O'Grady

Dympna O'Grady
Environmental Health Officer

pp Declan Mulhare

Declan Mulhare
Principal Environmental Health Officer



Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive

Limistéar Lar Tire/Midland Area
Environmental Health Services
HSE Dublin-Mid-Leinster
Community Services
Health Centre
Arden Road
Tullamore
Co Offaly
R35 HP73
Telephone: 057-9359550
Fax: 057-9359565

09/01/2020

MKO,
Tuam Road,
Galway.
H91 VW84

Received on

14 JAN 2020

171221

Eoin McCarthy

Re: EIA Scoping Document for Proposed Derrinlough Wind Farm, Co. Offaly

Ref: 171221

Dear Mr. McCarthy,

Your letter received 12th December last regarding the above matter refers. I wish to advise that we have no additional comments to our previous submission dated 25th June 2018 regarding this proposal.

Yours sincerely,

Declan Mulhare,
Principal Environmental Health Officer.

Eoin McCarthy

From: Ronnie O'Neill <Ronnie.ONeill@imaginegroup.ie>
Sent: 08 March 2018 16:33
To: Orla Murphy
Cc: Miriam Casey
Subject: Re: FW: 171221 - Telecoms Scoping

Hi Orla ,

Imagine have no MW links in that area .

Rgds,
Ronnie .

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

From: "Orla Murphy" <omurphy@mccarthykos.ie>
To: "Ronnie O'Neill" <Ronnie.ONeill@imaginegroup.ie>
Sent: 3/8/2018 4:30:40 PM
Subject: FW: 171221 - Telecoms Scoping

Hi Ronnie

We are working on a wind energy feasibility study within Co. Offaly. The central Grid Ref coordinates of the area being assessed are IG E 209000 N 215800. A location map is attached showing the area being assessed.

Could you let me know please if Imagine Group has any links within this area and up to 5km from the area shown? Could you please also advise as to the minimum separation distance required between your link(s) and a wind turbine blade-tip. We will incorporate these links and separation buffers into our constraints mapping.

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

Regards,

Órla

Órla Murphy B.Sc M.Sc
Assistant Env. Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

Block 1, G.F.S.C. Moneenageisha Road, Galway, H91 N8KK
T: (091) 73 56 11 || E: info@mccarthykos.ie || W: www.mccarthykos.ie

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Eoin McCarthy

From: MKO-Admin
Sent: 11 November 2019 14:22
To: Eoin McCarthy
Subject: FW: FW: 171221 - Telecoms Scoping
Attachments: Turbine Layout V3 - 171221 - 2019.10.09.pdf

From: William Morgan <william.morgan@imgroupegroup.ie>
Sent: 11 November 2019 08:47
To: MKO-Admin <info@mkoireland.ie>
Cc: Ronnie O'Neill <Ronnie.ONeill@imgroupegroup.ie>; Tiago Almeida <tiago.almeida@imgroupegroup.ie>; Miriam Casey <Miriam.Casey@imgroupegroup.ie>
Subject: Re: FW: 171221 - Telecoms Scoping

Hi Eoin,

I can confirm that Imagine do have an existing microwave link which will be very close to the proposed location of the Derrinlough Wind Farm. Please see the full details of this link below,

- **OY012, Vodafone Banagher** (Easting: 202411; Northing: 216040) ---> **OY006, ESB Birr** (Easting: 207367; Northing 204323).

Kind Regards,
Will.

From: Ronnie O'Neill <Ronnie.ONeill@imgroupegroup.ie>
Sent: 08 November 2019 16:05
To: William Morgan <william.morgan@imgroupegroup.ie>
Subject: FW: FW: 171221 - Telecoms Scoping

[Can you have a look please](#)

From: Eoin McCarthy
Sent: Friday, November 8, 2019 3:52 PM
To: Ronnie O'Neill <Ronnie.ONeill@imgroupegroup.ie>
Cc: Miriam Casey <Miriam.Casey@imgroupegroup.ie>
Subject: RE: FW: 171221 - Telecoms Scoping

Hi Ronnie,

In June 2018, you received an EIA Scoping Document as part of the preparation of an Environmental Impact Assessment Report (EIAR) for a proposed Bord na Móna Powergen Ltd. wind energy development at Derrinlough and surrounding townlands, Co. Offaly. The proposed development will be located on two bogs within the Boora Bog Group in West Offaly, namely Clongawny and Drinagh bog units. The proposed development will be referred to as Derrinlough Wind Farm. The site is located approximately 3.0 kilometres to the east of Banagher and approximately 7.0 kilometres to the northeast of Birr, Co. Offaly.

An application has been made, to An Bord Pleanála (Board), seeking a determination in relation to the Strategic Infrastructure Development (SID) status, or otherwise, of the proposed wind energy development. The proposed

project will encompass up to 24 no. turbines and have an output in excess 50 Megawatts. If the Board determine that the development is indeed SID, the planning application will be submitted directly to the Board, under the provisions of Planning and Development (Strategic Infrastructure) Act 2006.

As part of the EIA scoping process, we would welcome any comments that you might have in relation to the turbine layout currently being assessed as part of the EIAR. The currently proposed turbine layout map is attached to this email.

If you could return any comments or suggestions at your earliest convenience it would be much appreciated. If you require any further information, please do not hesitate to contact me.

Kind Regards,



Eoin McCarthy B.Sc. (Env.)
Senior Environmental Scientist

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



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From: Eoin McCarthy
Sent: 08 June 2018 16:50
To: Ronnie O'Neill <Ronnie.ONeill@imginigroup.ie>
Cc: Miriam Casey <Miriam.Casey@imginigroup.ie>; McCarthy Keville O'Sullivan Ltd. <info@mccarthykos.ie>
Subject: RE: FW: 171221 - Telecoms Scoping

Hi Ronnie,

Please see attached, for your own records, the formal EIA Scoping Document for the Proposed Derrinlough Wind Farm Development located in the Clongawny and Drinagh Bogs, Co. Offaly.

Kind Regards,

Eoin McCarthy B.Sc. (Env.)
Project Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

Block 1, G.F.S.C. Moneenageisha Road, Galway, H91N8KK
T: (091) 73 56 11 || E: info@mccarthykos.ie || W: www.mccarthykos.ie

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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
Baile Átha Cliath 2, Éire

T: +353 1 603 1506
T: +353 1 603 1546
F: +353 1 679 2935
www.iaa.ie

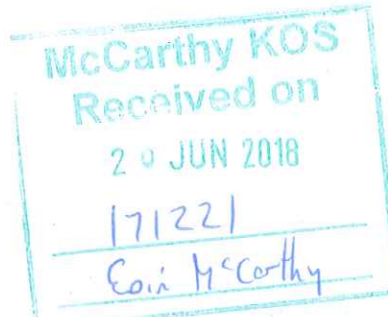


Directors' Office

Oifig Stiúirthóirí

25th June 2018

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



Development: proposed Bord na Mona Powergen Ltd. wind energy development at Derrinlough and surrounding town lands, Co. Offaly. The proposed development will be located on two bogs within the Boora Bog Group in West Offaly, namely Clongawny and Drinagh bog u n its. The proposed development will be referred to as Derrinlough Wind Farm. The site is located approximately 3.0 kilometers to the east of Banagher and approximately 7.0 kilometers to the northeast of Birr, Co. Offaly. Ref: 171221

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
- (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
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Eoin McCarthy

From: Irish Peatland Conservation Council <bogs@ipcc.ie>
Sent: 14 November 2019 13:07
To: Eoin McCarthy
Subject: Re: 171221 - Proposed Bord Na Mona Powergen Ltd. Wind Farm Development at Clongawny and Drinagh Bogs, Co. Offaly

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Eoin,

Thanks for notifying us of this, would you have a BnM rehab plan that you could send on to us for this site?

Thanks

Tristram Whyte BSc (Hons) Applied Freshwater & Marine Biology
Conservation, Policy & Fundraising Officer
Irish Peatland Conservation Council
Lullymore
Rathangan
Co. Kildare
R51 V293

045 860133

bogs@ipcc.ie

CHY6829

Registered Charity Number 20013547

Visit <http://www.ipcc.ie> to learn all about the Save the Bogs Campaign or to arrange your visit to the Bog of Allen Nature Centre

On 8 Jun 2018, at 16:53, Eoin McCarthy <emccarthy@mccarthykos.ie> wrote:

Dear Ms. O'Connell,

McCarthy Keville O'Sullivan Ltd. is preparing an Environmental Impact Assessment Report (EIAR) for a proposed Bord na Móna Powergen Ltd. wind energy development at **Derrinlough** and surrounding townlands, Co. Offaly. The proposed development will be located on two bogs within the Boora Bog Group in West Offaly, namely Clongawny and Drinagh bog units. The proposed development will be referred to as Derrinlough Wind Farm. The site is located approximately 3.0 kilometres to the east of Banagher and approximately 7.0 kilometres to the northeast of Birr, Co. Offaly.

The proposed project will likely encompass 20 to 25no. turbines and have an output of at least 50 Megawatts. Should the project be of this scale, an application will be made to An Bord Pleanála (Board) seeking a determination in relation to the SID status, or otherwise, of the proposed wind energy development. If the Board determine that the development is indeed SID, the planning application will be submitted directly to An Bord Pleanála, under the provisions of Planning and Development (Strategic Infrastructure) Act 2006. Should the project be of a scale lower than the SID thresholds, an application for planning permission will be made to Offaly County Council.

As part of the EIA process, we would welcome any comments that you might have in relation to the proposed project, including baseline data, survey techniques or potential impacts that should be

considered as part of the assessment process and in the preparation of the EIAR. In order to facilitate this a Scoping Document providing details of the proposed project and the site of the proposed development is attached.

If you could return any comments or suggestions at your earliest convenience it would be much appreciated. If you require any further information, please do not hesitate to contact me.

Kind Regards,

Eoin McCarthy B.Sc. (Env.)
Project Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

Block 1, G.F.S.C. Moneenageisha Road, Galway, H91N8KK
T: (091) 73 56 11 || E: info@mccarthykos.ie || W: www.mccarthykos.ie

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<171221 - EIA SD - 2018 06 06 - F.PDF>

Comhairle Chontae Uíbh Fhailí

Tel: 057 9346800 • Fax: 057 9346868

Website: www.offaly.ie

email: secretar@offalycoco.ie

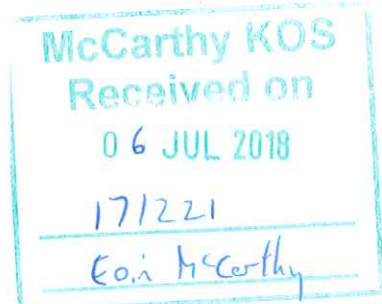
Offaly County Council

Áras an Chontae,
Charleville Road,
Tullamore,
Co. Offaly.



Eoin McCarthy,
McCarthy Keville O' Sullivan,
Planning and Environmental Consultants,
Block 1, G.F.S.C.
Moneenageisha Road,
Galway.

5th July 2018



Re: EIA Scoping Document for Proposed Bord Na Mona Powergen Ltd Wind Farm Development at Clongawny and Drinagh Bogs, Co. Offaly.

Dear Eoin

I refer to the above and to your correspondence dated 7th June 2018.

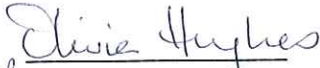
The size and scale of the proposed development has not yet been decided and until such time we are unable to comment of the proposed project.

If the proposed development constitutes a Strategic Infrastructural Development, you may before submitting the Environmental Impact Statement, request the Board to provide its opinion as to the information that should be contained in such statement, and the Board shall on receipt of such a request provide such opinion in writing.

If the proposed development is below the threshold of a Strategic Infrastructural Development, the Planning Authority shall provide written opinion at that stage upon formally being requested.

If you have any further queries, please contact the Planning Section at 057 9357414.

Yours faithfully,


Administrative Officer
Planning Section

Eoin McCarthy

From: Matthew Craig <matthew.craig@2rn.ie>
Sent: 19 December 2019 17:48
To: Eoin McCarthy
Cc: Johnny Evans; windfarms@rte.ie
Subject: RE: 171221 - Telecoms Scoping

Hi Eoin,

As Colin stated earlier there will be no impact to our fixed microwave links from the proposed windfarm. There is however a moderate risk to DTT viewers watching Cairn Hill to the south of the site and viewers watching Maghera to the east of the site.

There is the possibility to redirect the viewers antennas if their current signal path is affected by the site. We would recommend that a protocol be signed between 2rn and the Developers should the site go ahead.

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 McCarthy <emccarthy@mkoireland.ie>
Sent: 17 December 2019 16:57
To: Johnny Evans <Johnny.Evans@2rn.ie>
Cc: Matthew Craig <matthew.craig@2rn.ie>
Subject: FW: 171221 - Telecoms Scoping

Hi Johnny,

Turbine coordinates attached.

The max blade tip height is 185m and the max rotor diameter is 150m.

Kind Regards,



Eoin McCarthy B.Sc. (Env.)
Senior Environmental Scientist

MKO
Tuam Road, Galway
Ireland, H91 VW84

+353 (0) 91 735611
www.mkoireland.ie



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From: Johnny Evans <Johnny.Evans@2rn.ie>
Sent: 06 December 2019 10:02
To: Eoin McCarthy <emccarthy@mkoireland.ie>
Cc: Matthew Craig <matthew.craig@2rn.ie>; windfarms@2rn.ie
Subject: RE: 171221 - Telecoms Scoping

Hi Eoin, thanks for sending this in we'll take a look.
Grateful if you could send on the coordinates for the turbines and the turbine height/blade lengths please.
Thanks and regards, Johnny

Johnny Evans
Head of Projects and Coverage Planning
2RN
Block B, Cookstown Court, Old Belgard Road, Tallaght, Dublin 24, Ireland
D24 WK28
Phone: + 353 (0) 1 2082680
Mobile: + 353 (0) 86 8255653

From: Eoin McCarthy <emccarthy@mkoireland.ie>
Sent: 05 December 2019 17:29
To: Johnny Evans <Johnny.Evans@2rn.ie>
Subject: FW: 171221 - Telecoms Scoping

Hi John,

I think the email below should have been sent to you.

Kind Regards,



Eoin McCarthy B.Sc. (Env.)
Senior Environmental Scientist

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



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From: Eoin McCarthy
Sent: 08 November 2019 15:58
To: 'Colin Kennedy' <Colin.Kennedy@2rn.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Colin

In June 2018, you received an EIA Scoping Document as part of the preparation of an Environmental Impact Assessment Report (EIAR) for a proposed Bord na Móna Powergen Ltd. wind energy development at Derrinlough and surrounding townlands, Co. Offaly. The proposed development will be located on two bogs within the Boora Bog Group in West Offaly, namely Clongawny and Drinagh bog units. The proposed development will be referred to as Derrinlough Wind Farm. The site is located approximately 3.0 kilometres to the east of Banagher and approximately 7.0 kilometres to the northeast of Birr, Co. Offaly.

An application has been made, to An Bord Pleanála (Board), seeking a determination in relation to the Strategic Infrastructure Development (SID) status, or otherwise, of the proposed wind energy development. The proposed project will encompass up to 21 no. turbines and have an output in excess 50 Megawatts. If the Board determine that the development is indeed SID, the planning application will be submitted directly to the Board, under the provisions of Planning and Development (Strategic Infrastructure) Act 2006.

As part of the EIA scoping process, we would welcome any comments that you might have in relation to the turbine layout currently being assessed as part of the EIAR. The currently proposed turbine layout map is attached to this email.

If you could return any comments or suggestions at your earliest convenience it would be much appreciated. If you require any further information, please do not hesitate to contact me.

Kind Regards,



Eoin McCarthy B.Sc. (Env.)
Senior Environmental Scientist

MKO
Tuam Road, Galway
Ireland, H91 VW84
+353 (0) 91 735611
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From: Eoin McCarthy
Sent: 08 June 2018 17:26
To: Colin Kennedy <Colin.Kennedy@2rn.ie>; Orla Murphy <omurphy@mccarthykos.ie>
Cc: McCarthy Keville O'Sullivan Ltd. <info@mccarthykos.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Colin,

Please see attached, for your own records, the formal EIA Scoping Document for the Proposed Derrinlough Wind Farm Development located in the Clongawny and Drinagh Bogs, Co. Offaly.

Kind Regards,

Eoin McCarthy B.Sc. (Env.)
Project Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

Block 1, G.F.S.C. Moneenageisha Road, Galway, H91N8KK
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From: Colin Kennedy [<mailto:Colin.Kennedy@2rn.ie>]
Sent: 12 March 2018 14:32
To: Orla Murphy <omurphy@mccarthykos.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Órla,

We don't have any microwave links within your feasibility study area. In fact, our nearest link is located about 15km to the west of the area, near Ballinasloe in Co. Galway. Consequently, we wouldn't anticipate any disruption to our transmission network from wind turbines located in this area.

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: Orla Murphy [<mailto:omurphy@mccarthykos.ie>]
Sent: 08 March 2018 16:34
To: Colin Kennedy <Colin.Kennedy@2rn.ie>
Subject: 171221 - Telecoms Scoping

Hi Colin

We are working on a wind energy feasibility study within Co. Offaly. The central Grid Ref coordinates of the area being assessed are IG E 209000 N 215800. A location map is attached showing the area being assessed.

Could you let me know please if RTE 2rn has any links within this area and up to 5km from the area shown? Could you please also advise as to the minimum separation distance required between your link(s) and a wind turbine blade-tip. We will incorporate these links and separation buffers into our constraints mapping.

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

Regards,

Órla

Órla Murphy B.Sc M.Sc

Assistant Env. Scientist

McCarthy Keville O'Sullivan Ltd.

Planning & Environmental Consultants

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

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Eoin McCarthy

From: Eoin McCarthy
Sent: 18 June 2018 10:17
To: Thomas Barry
Subject: RE: 171221 - Telecoms Scoping TT114644

Hi Thomas,

There is no proposed turbine layout as of yet. However, this 500m exclusion zone will be included in the constraints mapping exercise used in determining the turbine layout.

Regards,

Eoin McCarthy B.Sc. (Env.)
Project Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

Block 1, G.F.S.C. Moneenageisha Road, Galway, H91N8KK
T: (091) 73 56 11 || E: info@mccarthykos.ie || W: www.mccarthykos.ie

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From: Thomas Barry [mailto:Tom.Barry@TETRAIRELAND.IE]
Sent: 18 June 2018 08:13
To: Eoin McCarthy <emccarthy@mccarthykos.ie>
Subject: RE: 171221 - Telecoms Scoping TT114644

Eoin,

I can't see from the report whether the 500m exclusion zone has been included in the design. Can you confirm if this is the case or provide the revised turbine layout for analysis please.

Regards,
Tom

From: Eoin McCarthy [mailto:emccarthy@mccarthykos.ie]
Sent: 08 June 2018 17:28
To: Thomas Barry; Orla Murphy
Subject: RE: 171221 - Telecoms Scoping TT114644

Hi Tom,

Please see attached, for your own records, the formal EIA Scoping Document for the Proposed Derrinlough Wind Farm Development located in the Clongawny and Drinagh Bogs, Co. Offaly.

Kind Regards,

Eoin McCarthy B.Sc. (Env.)
Project Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

Block 1, G.F.S.C. Moneenageisha Road, Galway, H91N8KK
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From: Thomas Barry [<mailto:Tom.Barry@TETRAIRELAND.IE>]
Sent: 23 March 2018 07:11
To: Orla Murphy <omurphy@mccarthykos.ie>
Subject: RE: 171221 - Telecoms Scoping TT114644

Orla,

The area shown includes a Vodafone site where we have equipment located. Any turbines need to be a minimum of 500m from the site at E202388/N216076.
Can you send on the proposed turbine locations for further review once planned, can you also ensure the proposal is reviewed by eir.

Regards,
Tom

From: Orla Murphy [<mailto:omurphy@mccarthykos.ie>]
Sent: 08 March 2018 16:21
To: Thomas Barry
Subject: 171221 - Telecoms Scoping

Hi Tom

We are working on a wind energy feasibility study within Co. Offaly. The central Grid Ref coordinates of the area being assessed are IG E 209000 N 215800. A location map is attached showing the area being assessed.

Could you let me know please if Tetra has any links within this area and up to 5km from the area shown? Could you please also advise as to the minimum separation distance required between your link(s) and a wind turbine blade-tip. We will incorporate these links and separation buffers into our constraints mapping.

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

Regards,

Órla

Órla Murphy B.Sc M.Sc

Eoin McCarthy

From: Rachel Hennessy <rachel.hennessy@towercom.ie>
Sent: 20 March 2018 16:42
To: Orla Murphy
Subject: RE: 171221 - Telecoms Scoping

Hi Órla,

Thank you for your email.

From initial review, the proposed location of the proposed windfarm in Co. Offaly it does not appear have a significant impact on Towercom's sites.

One of our structures, Leabeg, is located within the greater area, its coordinates are Easting: 218090 Northing: 219905.

We would require plans and coordinates showing the proposed turbines finalised locations to fully assess any impact it may have.

Kind regards,
Rachel

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

From: Orla Murphy <omurphy@mccarthykos.ie>
Sent: 08 March 2018 16:32
To: Rachel Hennessy <rachel.hennessy@towercom.ie>
Subject: FW: 171221 - Telecoms Scoping

Hi Rachel

We are working on a wind energy feasibility study within Co. Offaly. The central Grid Ref coordinates of the area being assessed are IG E 209000 N 215800. A location map is attached showing the area being assessed.

Could you let me know please if Towercom has any links within this area and up to 5km from the area shown? Could you please also advise as to the minimum separation distance required between your link(s) and a wind turbine blade-tip. We will incorporate these links and separation buffers into our constraints mapping.

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

Regards,

Órla

Órla Murphy B.Sc M.Sc
Assistant Env. Scientist

Mr. Eoin McCarthy
McCarthy Keville O'Sullivan Ltd.
Tuam road
Co. Galway
H91 VW84



Dáta | Date

18 December 2019

Ár dTag | Our Ref.

TII19-108290

Bhur dTag | Your Ref.

171221

RE: EIAR Scoping for proposed Derrinlough Wind Farm at Clongawny and Drinagh Bogs (Derrinlough and surrounding townlands), Co. Offaly.

Dear Mr. Blackwell,

Thank you for your letter of 5 December 2019 regarding an EIAR scoping request in relation to the above proposed project. Transport Infrastructure Ireland's (TII) observations are outlined below.

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 relation to your EIAR Scoping referral of 5 December 2019, TII notes the proposed site extents extend to the west and east of the N62, national secondary road, at a location on the network that is subject to a general 100kph speed limit. In such circumstances, the developer/applicant should be aware that official policy concerning access to national roads seeks to avoid the creation of additional access points from new development or the generation of increased traffic from existing accesses (i.e. non-public road access) to national roads, to which speed limits greater than 50kph apply. Therefore, there are policy and road safety considerations that would need to be resolved in any subsequent application and alternative arrangements should be considered.

With respect to EIAR Scoping issues, the recommendations indicated below provide only general guidance for the preparation of EIAR, which may affect the national road network. The developer should have regard, *inter alia*, to the following;

1. As outlined in the Spatial Planning and National Roads Guidelines, it is in the public interest that, in so far as is

Próiseálann BIÉ sonraí pearsanta a sholáthraítear dó i gcomhréir lena Fhógra ar Chosaint Sonraí atá ar fáil ag www.tii.ie.
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reasonably practicable, 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 and in accordance with the provisions of official policy.

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 on the non-national road network 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 (construction and operation stages) and fully assess the network to be traversed. In this regard, specifically include considerations of duration of likely impacts. 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).

It would be important that, where appropriate, subject to meeting the appropriate thresholds and criteria and having regard to best practice, a Traffic and Transport Assessment be carried out in accordance with relevant guidelines, noting traffic volumes attending the site and traffic routes to/from the site with reference to impacts on the national road network and junctions of lower category roads with national roads. The Authority's Traffic and Transport Assessment Guidelines (2014) should be referred to in relation to proposed development with potential impacts on the national road network. The scheme promoter is also advised to have regard to Section 2.2 of the NRA/TII TTA Guidelines which addresses requirements for sub-threshold TTA.


6. The designers are asked to consult TII Publications to determine whether a Road Safety Audit is required
7. 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).
8. The developer, in conducting Environmental Impact Assessment, should have regard to TII Environment Guidelines that deal with assessment and mitigation measures for varied environmental factors and occurrences. In particular;
 - a. Include specific assessment of the visual impact of the construction and operation of the proposed development on the N62 national road and its users.
 - b. TII's Environmental Assessment and Construction Guidelines, including the *Guidelines for the Treatment of Air Quality During the Planning and Construction of National Road Schemes* (National Roads Authority, 2006),

- c. The EIAR should consider the Environmental Noise Regulations 2006 (SI 140 of 2006) and, in particular, how the development will affect future action plans by the relevant competent authority. The developer may need to consider the incorporation of noise barriers to reduce noise impacts (see *Guidelines for the Treatment of Noise and Vibration in National Road Schemes* (1st Rev., National Roads Authority, 2004)).

Notwithstanding any of the above, the developer should be aware that this list is non-exhaustive, thus site and development specific issues should be addressed in accordance with best practise.

I trust that the above comments are of use in your EIAR preparation.

Yours sincerely,

PP 
Michael McCormack
Senior Land Use Planner

Eoin McCarthy

From: Donal McEneaney <Donal.McEneaney@viatel.com>
Sent: 13 June 2018 22:04
To: Eoin McCarthy
Cc: McCarthy Keville O'Sullivan Ltd.
Subject: RE: 171221 - Telecoms Scoping

Thanks Eoin.

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 McCarthy [mailto:emccarthy@mccarthykos.ie]
Sent: 08 June 2018 17:36
To: Donal McEneaney <Donal.McEneaney@viatel.com>
Cc: McCarthy Keville O'Sullivan Ltd. <info@mccarthykos.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Donal,

Please see attached, for your own records, the formal EIA Scoping Document for the Proposed Derrinlough Wind Farm Development located in the Clongawny and Drinagh Bogs, Co. Offaly.

Kind Regards,

Eoin McCarthy B.Sc. (Env.)
Project Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

Block 1, G.F.S.C. Moneenageisha Road, Galway, H91N8KK
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From: Donal McEneaney [<mailto:Donal.McEneaney@viatel.com>]
Sent: 09 March 2018 10:21

To: Orla Murphy <omurphy@mccarthykos.ie>

Subject: RE: 171221 - Telecoms Scoping

Hi Orla.

I have attached all GPS locations for our site below, and shown them on Google Maps. Once the blades are not in the direct beam which is the center line from GPS to GPS, then the links should be fine.

Sheraton Hotel - 53.424014° -7.935568°

Moydrum - 53.420593° -7.879411°

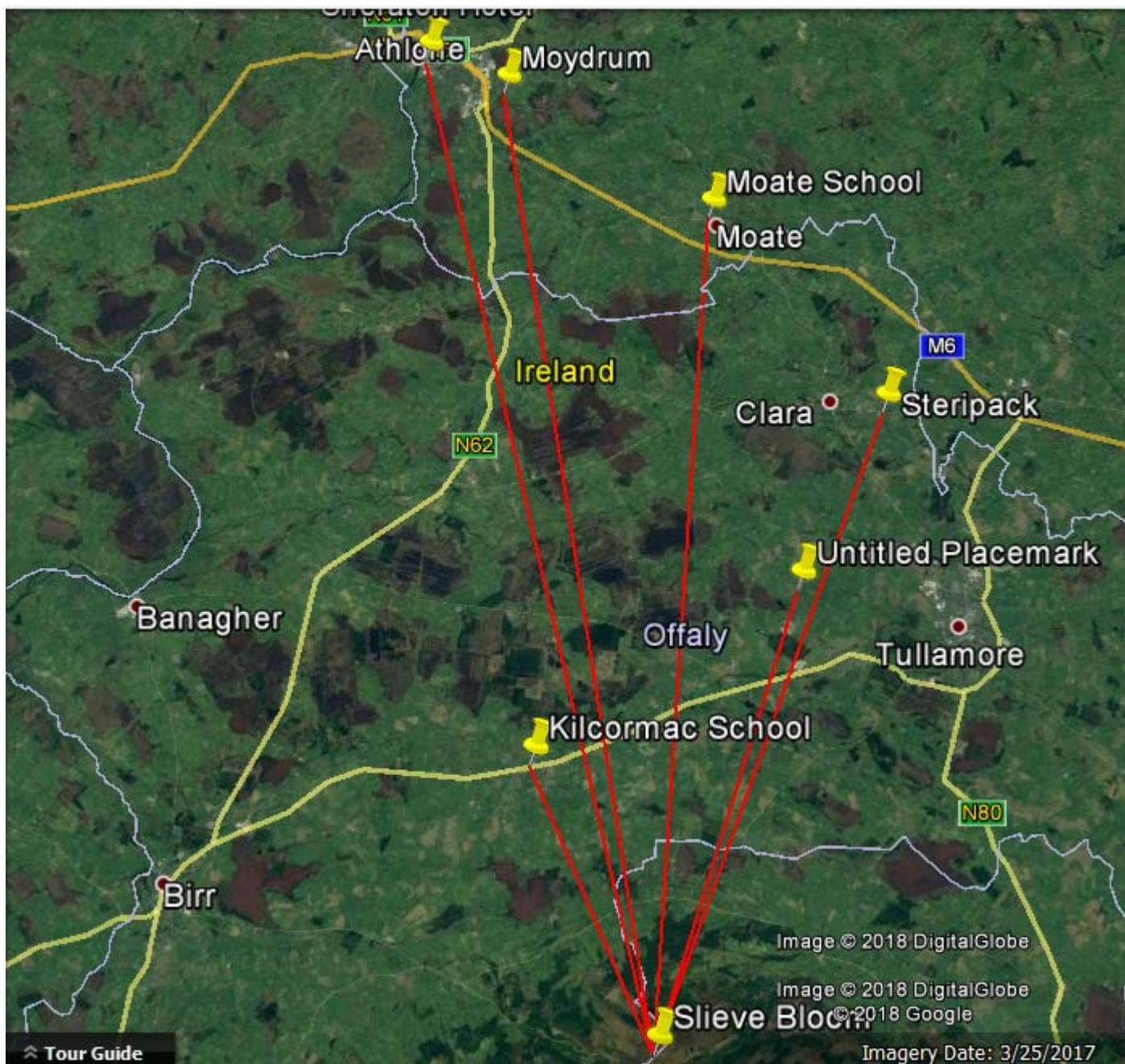
Slieve Bloom - 53.094760° -7.592618°

Kilcormac School - 53.179396° -7.720264°

Killina School - 53.270812° -7.596266° - (Untitled Placemark)

Steripack - 53.344618° -7.579581°

Moate School - 53.397176° -7.725507°



Thanks

Donal McEneaney | Field Operations Manager | Viatel

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



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From: Orla Murphy [<mailto:omurphy@mccarthykos.ie>]

Sent: 08 March 2018 16:39

To: Donal McEneaney <Donal.McEneaney@viatel.com>

Cc: Donna Fairbrother <Donna.Fairbrother@viatel.com>

Subject: FW: 171221 - Telecoms Scoping

Hi Donal

We are working on a wind energy feasibility study within Co. Offaly. The central Grid Ref coordinates of the area being assessed are IG E 209000 N 215800. A location map is attached showing the area being assessed.

Could you let me know please if Viatel has any links within this area and up to 5km from the area shown? Could you please also advise as to the minimum separation distance required between your link(s) and a wind turbine blade-tip. We will incorporate these links and separation buffers into our constraints mapping.

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

Regards,

Órla

Órla Murphy B.Sc M.Sc

Assistant Env. Scientist

McCarthy Keville O'Sullivan Ltd.

Planning & Environmental Consultants

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Eoin McCarthy

From: Liam Allister <Liam.Allister@virginmedia.ie>
Sent: 11 November 2019 12:23
To: Eoin McCarthy
Cc: Cathal O Donnell
Subject: RE: 171221 - Telecoms Scoping

Hi Eoin,

Virgin Media do not have any links that would be effected by the Turine layout as outlined in your email. We do have a link in the area but that is approx. 4 Km to the east. Please update Virgin Media if there is any change to the proposed location.

Regards,

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

From: Eoin McCarthy [mailto:emccarthy@mkoireland.ie]
Sent: 08 November 2019 16:09
To: Liam Allister <Liam.Allister@virginmedia.ie>
Cc: Cathal O Donnell <Cathal.ODonnell@virginmedia.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Liam,

In June 2018, you received an EIA Scoping Document as part of the preparation of an Environmental Impact Assessment Report (EIAR) for a proposed Bord na Móna Powergen Ltd. wind energy development at Derrinlough and surrounding townlands, Co. Offaly. The proposed development will be located on two bogs within the Boora Bog Group in West Offaly, namely Clongawny and Drinagh bog units. The proposed development will be referred to as Derrinlough Wind Farm. The site is located approximately 3.0 kilometres to the east of Banagher and approximately 7.0 kilometres to the northeast of Birr, Co. Offaly.

An application has been made, to An Bord Pleanála (Board), seeking a determination in relation to the Strategic Infrastructure Development (SID) status, or otherwise, of the proposed wind energy development. The proposed project will encompass up to 21 no. turbines and have an output in excess 50 Megawatts. If the Board determine that the development is indeed SID, the planning application will be submitted directly to the Board, under the provisions of Planning and Development (Strategic Infrastructure) Act 2006.

As part of the EIA scoping process, we would welcome any comments that you might have in relation to the turbine layout currently being assessed as part of the EIAR. The currently proposed turbine layout map is attached to this email.

If you could return any comments or suggestions at your earliest convenience it would be much appreciated. If you require any further information, please do not hesitate to contact me.

Kind Regards,



Eoin McCarthy B.Sc. (Env.)
Senior Environmental Scientist

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



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From: Eoin McCarthy
Sent: 08 June 2018 17:38
To: Liam Allister <Liam.Allister@virginmedia.ie>
Cc: Cathal O'Donnell <Cathal.ODonnell@virginmedia.ie>; McCarthy Keville O'Sullivan Ltd. <info@mccarthykos.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Liam,

Please see attached, for your own records, the formal EIA Scoping Document for the Proposed Derrinlough Wind Farm Development located in the Clongawny and Drinagh Bogs, Co. Offaly.

Kind Regards,

Eoin McCarthy B.Sc. (Env.)
Project Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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From: Liam Allister [<mailto:Liam.Allister@virginmedia.ie>]
Sent: 17 April 2018 13:13
To: Orla Murphy <omurphy@mccarthykos.ie>
Cc: Cathal O'Donnell <Cathal.ODonnell@virginmedia.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Orla,

Virgin Media have a link between Athlone and Wolftrap which is within 1 Km of the area you have indicated as being assessed for wind energy feasibility. In the attached screen shot I have shown the path of our link (in red)

and the area being assessed (in Green) roughly outlined. Our link path is approximately 650m 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: 08 March 2018 16:30
To: Liam Allister <Liam.Allister@virginmedia.ie>
Subject: FW: 171221 - Telecoms Scoping

For when you get back

From: Orla Murphy [<mailto:omurphy@mccarthykos.ie>]
Sent: 08 March 2018 16:24
To: Cathal O Donnell
Subject: 171221 - Telecoms Scoping

Hi Cathal

We are working on a wind energy feasibility study within Co. Offaly. The central Grid Ref coordinates of the area being assessed are IG E 209000 N 215800. A location map is attached showing the area being assessed.

Could you let me know please if Virgin Media has any links within this area and up to 5km from the area shown? Could you please also advise as to the minimum separation distance required between your link(s) and a wind turbine blade-tip. We will incorporate these links and separation buffers into our constraints mapping.

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

Regards,

Órla

Órla Murphy B.Sc M.Sc
Assistant Env. Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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Eoin McCarthy

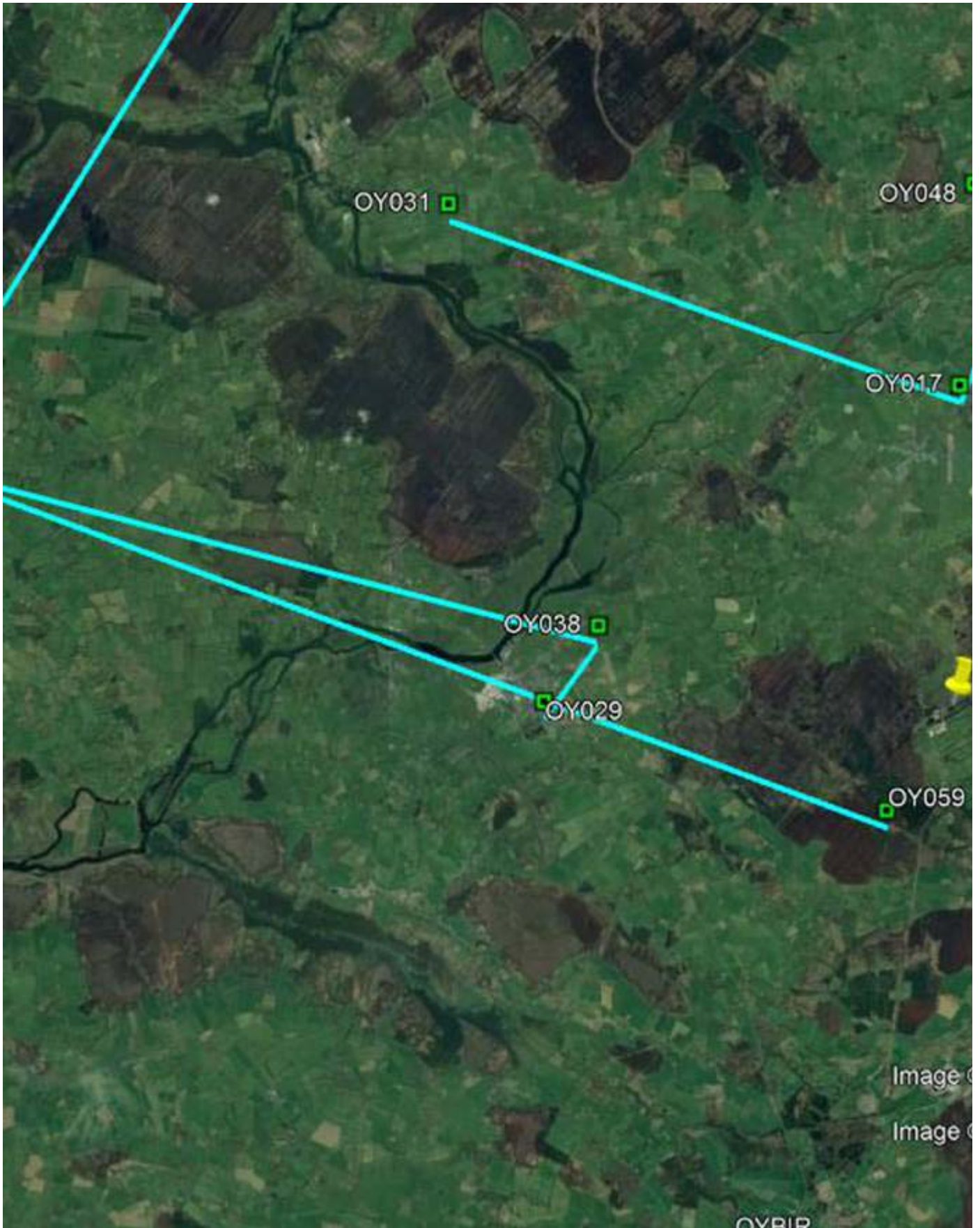
From: Gavin Byrne <gavin.byrne@netshare.ie>
Sent: 12 June 2018 11:39
To: Eoin McCarthy
Cc: David Powders; Kevin O'Neill; Sean Lyons; Deirdre McDermott; Darragh Dennehy; McCarthy Keville O'Sullivan Ltd.
Subject: RE: 171221 - Telecoms Scoping

Hi Eoin,

There is a microwave the crosses the proposed area.

Please avoid this microwave, adhering to a 30m perpendicular buffer between the turbine rotor edge and the maximum diameter of the first Fresnel zone of the Point to Point microwave listed below. If you have precise details of the 20 to 25 proposed turbine locations, we can assess the impact

LinkID	Radio Config Status	BW + Ref Mod	Freq Band	Max Ethernet Capacity (Mbps)	B-End IDU	B-End HV Typ
GY024OY059_S0	radio 1+0	bw56MHz-16QAM	15 GHz	341	OY059700	ALCplus2



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



NetShare Ireland

The Future of Mobile Networks

From: Eoin McCarthy [<mailto:emccarthy@mccarthykos.ie>]
Sent: 08 June 2018 17:40
To: Gavin Byrne <gavin.byrne@netshare.ie>
Cc: David Powders <david.powders@netshare.ie>; Kevin O'Neill <kevin.oneill@netshare.ie>; Sean Lyons <sean.lyons@netshare.ie>; Deirdre McDermott <deirdre.mcdermott@netshare.ie>; Darragh Dennehy <darragh.dennehy@netshare.ie>; McCarthy Keville O'Sullivan Ltd. <info@mccarthykos.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Gavin,

Please see attached, for your own records, the formal EIA Scoping Document for the Proposed Derrinlough Wind Farm Development located in the Clongawny and Drinagh Bogs, Co. Offaly.

Kind Regards,

Eoin McCarthy B.Sc. (Env.)
Project Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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From: Gavin Byrne [<mailto:gavin.byrne@netshare.ie>]
Sent: 10 April 2018 17:20
To: Orla Murphy <omurphy@mccarthykos.ie>
Cc: David Powders <david.powders@netshare.ie>; Kevin O'Neill <kevin.oneill@netshare.ie>; Sean Lyons <sean.lyons@netshare.ie>; Deirdre McDermott <deirdre.mcdermott@netshare.ie>; Darragh Dennehy <darragh.dennehy@netshare.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Orla,

The near field clearance is only a guide for clearance around the towers. There is still a clearance to be considered for the point to point microwave link. When you have turbine co-ordinates, send them on and I will complete the analysis.

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: Orla Murphy [<mailto:omurphy@mccarthykos.ie>]
Sent: 10 April 2018 15:40
To: Gavin Byrne <gavin.byrne@netshare.ie>
Cc: David Powders <david.powders@netshare.ie>; Kevin O'Neill <kevin.oneill@netshare.ie>; Sean Lyons <sean.lyons@netshare.ie>; Deirdre McDermott <deirdre.mcdermott@netshare.ie>; Darragh Dennehy <darragh.dennehy@netshare.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Gavin,

Many thanks for the detail below. As of the moment, we don't have a turbine layout, and a number of different dimensions are still being considered, but for now we will apply the setbacks listed in the 'Near Field Clearance at Towers' column in your email, as a worst-case. This will help us inform our turbine layout.

We will send on the proposed turbine coordinates and dimensions as the layout progresses over the coming weeks.

Many thanks

Órla

Órla Murphy B.Sc M.Sc
Assistant Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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From: Gavin Byrne [<mailto:gavin.byrne@netshare.ie>]
Sent: Tuesday 10 April 2018 12:20
To: Orla Murphy <omurphy@mccarthykos.ie>
Cc: David Powders <david.powders@netshare.ie>; Kevin O'Neill <kevin.oneill@netshare.ie>; Sean Lyons <sean.lyons@netshare.ie>; Deirdre McDermott <deirdre.mcdermott@netshare.ie>; Darragh Dennehy <darragh.dennehy@netshare.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Orla,

No, the Fresnel zone is an elliptical radio pattern between the two towers. It is frequency, distance and dish size dependent. Over 99% of the microwave power is contained within the 1st Fresnel zone, which is the zone within which we must protect line of site. The Fresnel zone is highly directional. The maximum diameter of the Fresnel zones always occurs at half the distance of the overall hop length between the towers. Therefore, the exclusion zone must exist over the entire hop length between tower and is not as simple as calculating it as the distance from the tower. There is also a near field distance clearance which must be observed from the tower. This is calculated conservatively and I have included this calculation below. Again, the near field values are frequency dependent, so where there is a number of microwave links at a single tower, the largest near field value is taken as the minimum exclusion value. Ordinarily, turbines have rotor diameters that exceed the near filed distance, so it's usually not an issue as the turbine would have to be on top of the tower for the near filed distance to be considered.

The below table lists the maximum Fresnel zone diameter for each link I listed

LinkID	Freq Band	ACM	B-End Latitude	B-End Longitude	A-End Latitude	A-End Longitude	A-End Bearing	Hop Distance	D
OY013OY025_S0	26 GHz	enable	53.184891	-7.877273	53.226659	-7.729482	64.80	10.91km	
GY024OY025_S0	15 GHz	enable	53.184891	-7.877273	53.22317208	8.145798754	103.28	18.45km	
GY024OY059_S0	15 GHz	enable	53.16664919	7.890229334	53.22317208	8.145798754	110.16	18.18km	

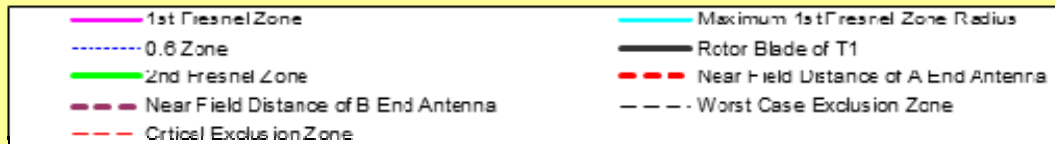
For the purpose of demonstration, I have created two Turbines that are along the path of the microwave OY013OY025_S0.

T1 is at IG Co-ordinates (E211738, N216563), with Rotor Diameter of 100m
 T2 is at IG Co-ordinates (E211738, N216400) , with Rotor Diameter of 100m

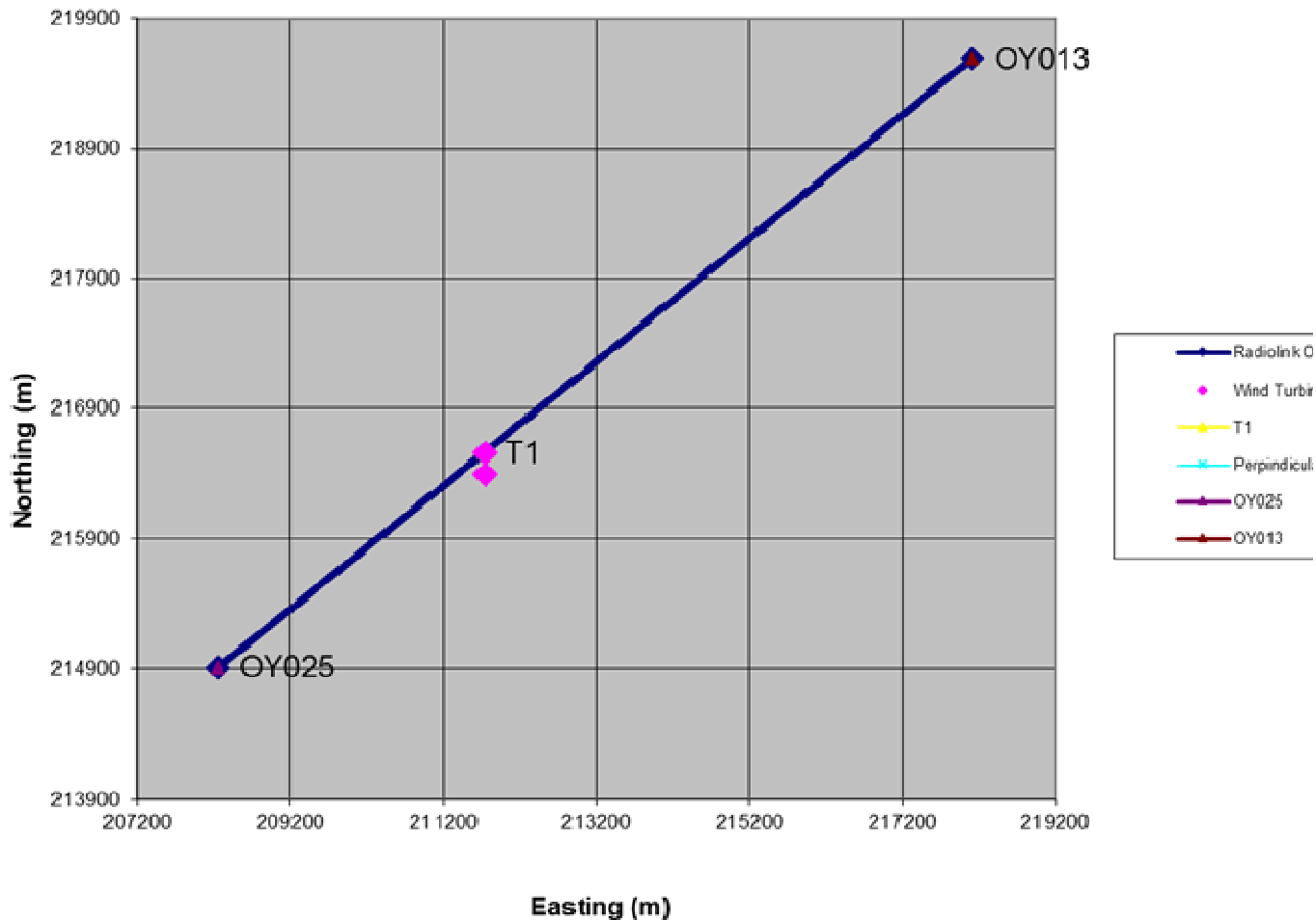
The below analysis is a 2D plot only and doesn't account for terrain heights, but the analysis is still valid for the purpose of demonstration.

Turbine T1 is located 3.85km from the site OY015 and 7.06km from OY013. However, the router blades and probably the hub, are directly centred on the 1st Fresnel radius, resulting in a blocked LOS. The exclusion zone has been breached and T1 will affect VF services due to a blocked LOS.

Fresnel Zone of 15GHz Radiolink GY024OY025

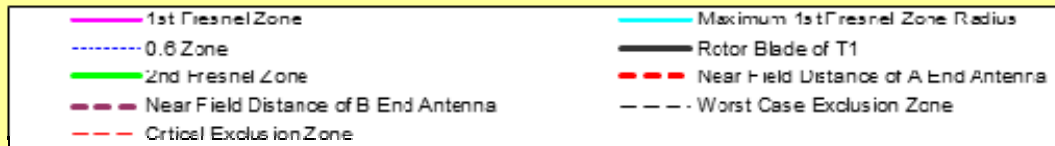
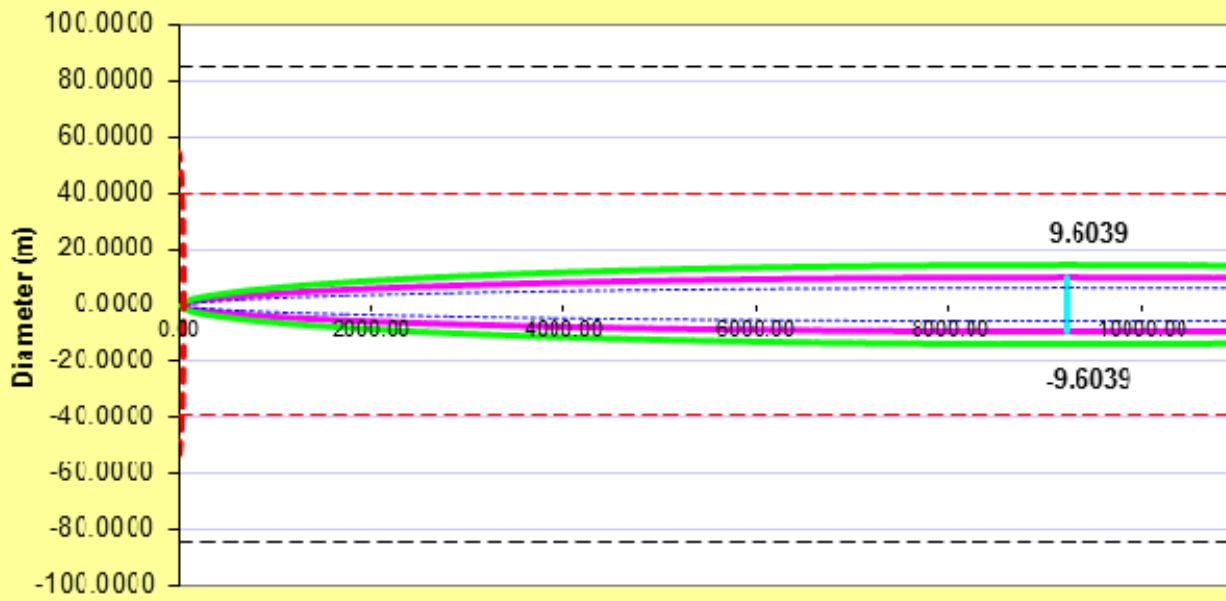


Irish Grid Topology of Radiolink OY025OY013 (Scale Not Normalised)

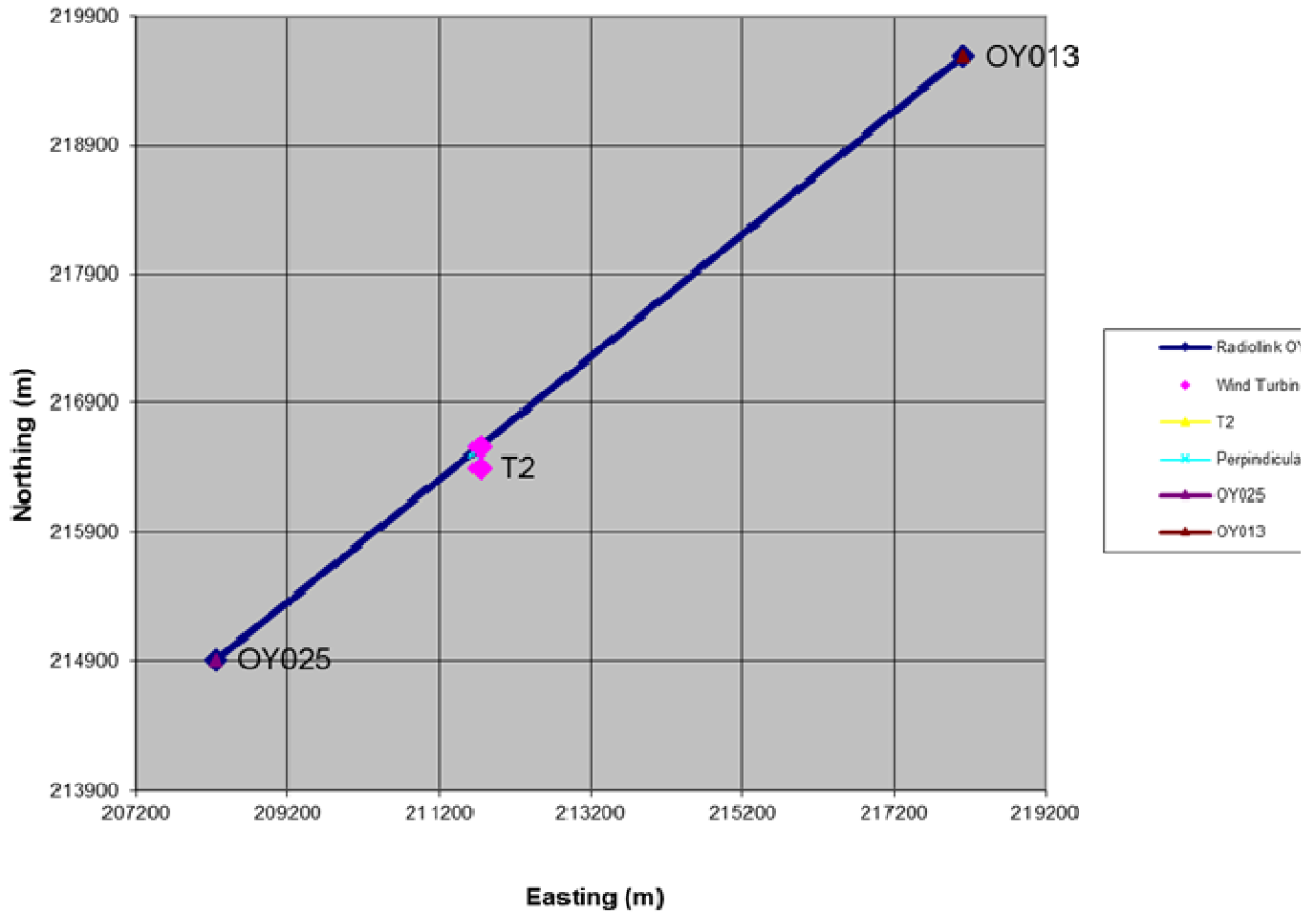


Turbine T2 by contrast is located 163m due south of T1. T2 is 3.79km from the site OY025 and is 7.13km from OY013. The perpendicular distance of the rotor blade tip to the centre of the 1st Fresnel zone is 43.09m. Just outside the acceptable exclusion zone of 41.22m for this link. T2 would therefore be acceptable, but T1 would not be acceptable.

Fresnel Zone of 15GHz Radiolink GY024OY025



Irish Grid Topology of Radiolink OY025OY013 (Scale Not Normalised)



Wind Turbine Impact Study On Vo

OY025OY013

Site ID	Site Name	Easting	Northing	Dish Azimuth (Degrees EoN)	True Azimuth
OY025	Bord Na Mona Derrinlough	208254	214913	64.64	64.736
OY013	Bord Na Mona Boora	218116	219588	244.64	244.85

Turb

Turbine ID	Wind Farm Development	Easting	Northing	LOS Azimuth from OY025 to Turbine (Deg EoN)	LOS Azimuth from OY013 to Turbine (Deg EoN)
T1	Bunmahon	211738	216563	64.66	244.6
T2	Bunmahon	211738	216400	66.89	243.4

Turbine Impact Study

Turbine ID	Shortest to Longest Perpendicular Distance from Turbine Rotor Edge to 1st Fresnel Zone Edge (m)	Rotor Clearance from 1st Fresnel Zone (m)	Minimum Clearance between 1st Fresnel Zone and Rotor Blade (m) (between 75m & 50m)	Clearance
T1	-4.20	-95.80	75	Critical
T2	143.09	43.09	75	Clearance between

Hope that clears it up for you. If you have specific co-ordinates for each of the turbines, please send them to me and I can complete a full analysis. As part of the planning application these turbine locations must be disclosed to Vodafone and other operators so that we can complete a risk assessment and advise of any impacts.

If you have any further questions, please 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



NetShare Ireland

The Future of Mobile Networks

From: Orla Murphy [<mailto:omurphy@mccarthykos.ie>]
Sent: 09 April 2018 09:03
To: Gavin Byrne <gavin.byrne@netshare.ie>
Cc: David Powders <david.powders@netshare.ie>; Kevin O'Neill <kevin.oneill@netshare.ie>; Sean Lyons <sean.lyons@netshare.ie>; Deirdre McDermott <deirdre.mcdermott@netshare.ie>; Darragh Dennehy <darragh.dennehy@netshare.ie>
Subject: FW: 171221 - Telecoms Scoping

Hi Gavin,

In regards to the below – the 'Distance between towers' is actually the Fresnel zone calculation converted from Feet to Metres which was then added onto the 30m diameter stated.

Regards

Órla

Órla Murphy B.Sc M.Sc
Assistant Environmental Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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From: Orla Murphy
Sent: Friday 6 April 2018 17:18
To: 'Gavin Byrne' <gavin.byrne@netshare.ie>
Cc: David Powders <david.powders@netshare.ie>; Kevin O'Neill <kevin.oneill@netshare.ie>; Sean Lyons <sean.lyons@netshare.ie>; Deirdre McDermott <deirdre.mcdermott@netshare.ie>; Darragh Dennehy <darragh.dennehy@netshare.ie>; Lorraine Meehan <lmeehan@mccarthykos.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Gavin

Regarding the buffer you mentioned (30m plus the maximum diameter of the 1st Fresnel zone), as a minimum distance between telecoms links and rotor blade tip, I have calculated the buffer for links that run through the

proposed wind energy feasibility study. Would you be able to confirm if distances in table below are acceptable buffer distances?

LinkID	Freq Band	ACM	B-End Latitude	B-End Longitude	A-End Latitude	A-End Longitude	A-End Bearing	Distance between towers (m)	(3 dia
OY013OY025_S0	26 GHz	enable	53.184891	-7.877273	53.226659	-7.729482	64.80	6	
GY024OY025_S0	15 GHz	enable	53.184891	-7.877273	53.22317208	8.145798754	103.28	10	
GY024OY059_S0	15 GHz	enable	53.16664919	7.890229334	53.22317208	8.145798754	110.16	10	

Regards

Órla

Órla Murphy B.Sc M.Sc

Assistant Environmental Scientist

McCarthy Keville O'Sullivan Ltd.

Planning & Environmental Consultants

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From: Gavin Byrne [<mailto:gavin.byrne@netshare.ie>]

Sent: Tuesday 27 March 2018 12:04

To: Orla Murphy <omurphy@mccarthykos.ie>

Cc: David Powders <david.powders@netshare.ie>; Kevin O'Neill <kevin.oneill@netshare.ie>; Sean Lyons <sean.lyons@netshare.ie>; Deirdre McDermott <deirdre.mcdermott@netshare.ie>; Darragh Dennehy <darragh.dennehy@netshare.ie>

Subject: RE: 171221 - Telecoms Scoping

Hi Orla,

We would insist on a minimum buffer of 30m perpendicular distance between the maximum diameter of the 1st Fresnel zone and the rotar blade tip.

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



NetShare Ireland

The Future of Mobile Networks

From: Orla Murphy [<mailto:omurphy@mccarthykos.ie>]
Sent: 27 March 2018 11:51
To: Gavin Byrne <gavin.byrne@netshare.ie>
Cc: David Powders <david.powders@netshare.ie>; Kevin O'Neill <kevin.oneill@netshare.ie>; Sean Lyons <sean.lyons@netshare.ie>; Deirdre McDermott <deirdre.mcdermott@netshare.ie>; Darragh Dennehy <darragh.dennehy@netshare.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Gavin,

Many thanks for sending this through. Would you be able to advise on the appropriate buffer/minimum separation distance that Netshare requires between their link(s) and a wind turbine blade-tip? This would be useful to use as part of our constraints assessment.

Many thanks

Órla

Órla Murphy B.Sc M.Sc
Assistant Env. Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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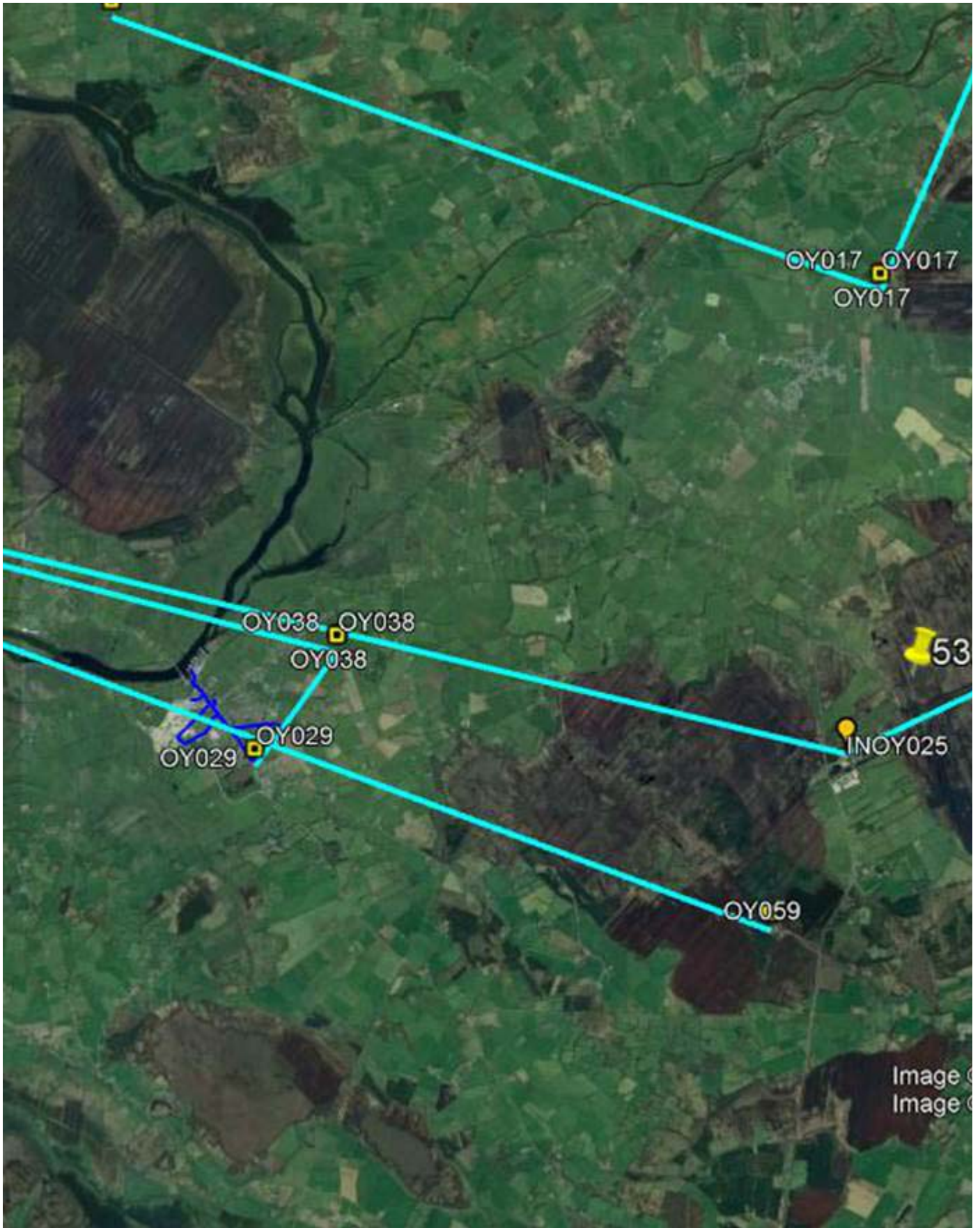
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From: Gavin Byrne [<mailto:gavin.byrne@netshare.ie>]
Sent: Tuesday 27 March 2018 10:06
To: Orla Murphy <omurphy@mccarthykos.ie>
Cc: David Powders <david.powders@netshare.ie>; Kevin O'Neill <kevin.oneill@netshare.ie>; Sean Lyons <sean.lyons@netshare.ie>; Deirdre McDermott <deirdre.mcdermott@netshare.ie>; Darragh Dennehy <darragh.dennehy@netshare.ie>
Subject: RE: 171221 - Telecoms Scoping

Hi Orla,

Please see below. There are a number of microwave links within close proximity to the co-ordinates provided.
Please avoid these links. Any questions, please let me know.

LinkID	Radio Config Status	BW + Ref Mod	Freq Band	ACM	Lower Modulation	Upper Modulation	Max Ethernet Capacity (Mbps)	B-End IDU	B-End H IDU Typ
LSCPDINOY013_S0	radio 1+0	bw14MHz-4QAM	15 GHz	enable	4QAM	256QAM	85	INOY013700	ALCplus
OY013OY025_S0	radio 1+0	bw14MHz-4QAM	26 GHz	enable	4QAM	256QAM	85	OY025701	ALCplus
GY024OY025_S0	radio 1+0	bw14MHz-4QAM	15 GHz	enable	4QAM	256QAM	85	OY025700	ALCplus
GY024OY059_S0	radio 1+0	bw56MHz-16QAM	15 GHz	enable	4QAM	256QAM	341	OY059700	ALCplus



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: Orla Murphy [<mailto:omurphy@mccarthykos.ie>]
Sent: 08 March 2018 16:23
To: Gavin Byrne <gavin.byrne@netshare.ie>
Subject: 171221 - Telecoms Scoping

Hi Gavin

We are working on a wind energy feasibility study within Co. Offaly. The central Grid Ref coordinates of the area being assessed are IG E 209000 N 215800. A location map is attached showing the area being assessed.

Could you let me know please if Vodafone has any links within this area and up to 5km from the area shown? Could you please also advise as to the minimum separation distance required between your link(s) and a wind turbine blade-tip. We will incorporate these links and separation buffers into our constraints mapping.

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

Regards,

Órla

Órla Murphy B.Sc M.Sc
Assistant Env. Scientist

McCarthy Keville O'Sullivan Ltd.
Planning & Environmental Consultants

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