

MAYO COUNTY COUNCIL

Sarah Gallagher

From: Foy Fiona <FFOY@MayoCoCo.ie> on behalf of Foy Fiona
Sent: Thursday 28 April 2022 16:00
To: Sarah Gallagher
Subject: Mayo County Council - Planning Section Delivery Notification

Your e-mail to the Mayo County Council Planning Office is hereby acknowledged, and is receiving attention.

Planning Office
Ground Floor
Mayo County Council
Aras an Chontae
The Mall
Castlebar.

Phone: (094)- 9047204
Email: Planning@mayococo.ie
Opening Hours: 9:00 a.m. to 1:00 p.m.
and 2:00 p.m. to 5:00 p.m.

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TRANSPORT INFRASTRUCTURE IRELAND

Sarah Gallagher

From: INFO <Information@tii.ie> on behalf of INFO
Sent: Thursday 31 March 2022 14:28
To: 'Sarah Gallagher'
Subject: TII Ref: TII22-117991 - EIAR Scoping - Firlough Wind Farm, Bonniconlon, Co. Mayo.

Dear Ms. Gallagher,

Thank you for your correspondence of 24 March 2022 regarding an EIAR Scoping exercise for Firlough Wind Farm, Bonniconlon, Co. Mayo. The position in relation to your enquiry is as follows.

Transport Infrastructure Ireland (TII) will endeavour to consider and respond to planning applications referred to it, given its status and duties as a statutory consultee under the Planning Acts. The approach to be adopted by TII in making such submissions or comments will seek to uphold official policy and guidelines, as outlined in the Section 28 Ministerial Guidelines 'Spatial Planning and National Roads Guidelines for Planning Authorities' (DoECLG, 2012). Regard should also be had to other relevant guidance available at www.TII.ie.

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 planning application referred.

National Strategic Outcome 2 of the National Planning Framework includes the objective to maintain the strategic capacity and safety of the national roads network. In addition, Chapter 7 'Enhanced Regional Accessibility' of the National Development Plan, 2021 – 2030, sets out the key sectoral priority of maintaining Ireland's existing national road network to a robust and safe standard for users. This requirement is further reflected in the publication of the National Investment Framework for Transport in Ireland and also the existing Statutory Section 28 'Spatial Planning and National Roads Guidelines for Planning Authorities'.

With respect to EIAR scoping issues, the recommendations indicated below provide only general guidance for the preparation of an EIAR, which may affect the national road network.

The developer/scheme promoter should have regard, inter alia, to the following:

- Consultations should be had with the relevant Local Authority/National Roads Design Office with regard to the locations of existing and future national road schemes; N5/N26/N58 Scheme and N59 Ballina Relief Road.
- TII would be specifically concerned as to potential significant impacts the development would have on the national road network (and junctions with national roads) in proximity to the proposed development. In accordance with the provisions of official policy, no direct access or intensification of direct access to national roads should occur, in this case the N59.
- The developer should assess visual impacts from existing national roads
- The developer should have regard to any EIAR/EIS and all conditions and/or modifications imposed by An Bord Pleanála regarding road schemes in the area. The developer should, in particular, have regard to any potential cumulative impacts.
- The developer, in preparing EIAR, should have regard to TII Publications (formerly 'DMRB' and the 'Manual of Contract Documents for Road Works').

- The developer, in preparing EIAR, should have regard to 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 (NRA), 2006).
- The EIAR/EIS 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., NRA, 2004)).
- 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 (TTA) 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. In relation to national roads, TII'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 TII's Guidelines which addresses requirements for sub-threshold TTA. Any improvements required to facilitate development should be identified. It will be the responsibility of the developer to pay for the costs of any improvements to national roads to facilitate the private development proposed, as TII will not be responsible for such costs.
- The designers are asked to consult TII Publications to determine whether a Road Safety Audit is required.
- In the interests of maintaining the safety and standard of the national road network, the EIAR should identify the methods/techniques proposed for any works traversing/in proximity to the national road network.
- TII recommends that that applicant/developer should clearly identify haul routes proposed and fully assess the network to be traversed. Where abnormal 'weight' loads are proposed, separate structure approvals/permits and other licences may be required in connection with the proposed haul route and all structures on the haul route through all the relevant County Council administrative areas should be checked by the applicant/developer, to confirm their capacity to accommodate any abnormal 'weight' load proposed.

The national road network is managed by a combination of Public Private Partnership (PPP) Concessions, Motorway Maintenance and Renewal Contracts (MMaRC) and local road authorities in association with TII.

The applicant/developer should also consult with all PPP Companies, MMaRC Contractors and road authorities over which the haul route traverses, to ascertain any operational requirements such as delivery timetabling, etc. and to ensure that the strategic function of the national road network is safeguarded.

Additionally, any damage caused to the pavement on the existing national road arising from any temporary works due to the turning movement of abnormal 'length' loads (e.g., tearing of the surface course, etc.), shall be rectified in accordance with TII Pavement Standards and details in this regard shall be agreed with the Road Authority prior to the commencement of any development on site.

- Any grid connection and cable routing proposals should be developed to safeguard proposed road schemes, as TII will not be responsible for costs associated with the future relocation of cable routing, where proposals are catered for in an area of a proposed national road scheme. In that regard, consideration should be given to routing options, use of existing crossings, depth of cable laying, etc.

In the context of the existing national road network, in accordance with the National Planning Framework National Strategic Outcome no. 2 'Enhanced Regional Accessibility', there is a requirement to maintain the strategic capacity and safety of the network. This requirement is further reflected in the National Development Plan, the National Investment Framework for Transport in Ireland and also the existing Statutory Section 28 'Spatial Planning and National Roads Guidelines for Planning Authorities'.

There are around 99,000km of roads in Ireland. The national road network which caters for strategic inter-urban travel consists of only approx. 5.4% of this. There is a critical requirement to ensure the strategic capacity and safety of this national road network is maintained and significant Government investment already made in the national road network is safeguarded.

The provision of cabling along the national road network represents a number of significant implications for TII and road authorities in the management and maintenance of the strategic national road network and TII is of the opinion that grid connection cable routing should reflect the foregoing provisions of official policy. Therefore, TII advises that grid connection cable routing should seek to utilise available alternatives, as opposed to the strategic national road network, contrary to the provisions of official policy.

Other consents or licences may be required from the road authority for any trenching or cabling proposals crossing the national road. TII requests referral of all proposals agreed and licensed between the road authority and the applicant, which affect the national road network.

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.

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 practice.

I hope that this information is of assistance to you.

Yours sincerely,

Alban Mills
Senior Regulatory and Administration Executive



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De réir pholasáí BIÉ An Ceart gan a bheith Ceangailte, má tá an ríomhphost seo á fháil agat lasmuigh de na gnáthuaireanta oibre, nílim ag súil le freagra ná le gníomh uait lasmuigh de do ghnáthuaireanta oibre féin mura bhfuil sé ráite go soiléir go bhfuil gá gníomhú go práinneach.

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Próiseálann BIÉ sonraí pearsanta a sholáthraítear dó i gcomhréir lena Fhógra ar Chosaint Sonraí atá ar fáil ag <https://www.tii.ie/about/about-tii/Data-Protection/?set-lang=ga>

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IRISH WATER



For the attention of Sarah Jones
Jennings O'Donovan & Partners Limited
Finisklin Business Park,
Sligo,
Ireland

25th March 2022

Uisce Éireann
Bosca OP 6000
Baile Átha Cliath 1
D01 WA07
Éire

Irish Water
PO Box 6000
Dublin 1
D01 WA07
Ireland

T: +353 01 89 25000
T: +353 01 89 25001
www.water.ie

Re: EIA Scoping Request – Proposed wind farm development located in
Bonniconlon, Co. Mayo.

Dear Ms Jones,

Irish Water has received notification of your Environmental Impact Assessment (EIA) scoping request relating to your forthcoming planning application for a wind farm in Bonniconlon, Co. Mayo.

Please see attached, Irish Water's scoping opinion in relation to Water Services. On receipt of the planning referral, Irish Water will review the finalised Environmental Impact Assessment Report (EIAR) as part of the planning process.

Queries relating to the terms and the EIA scoping opinions below should be directed to planning@water.ie

Yours sincerely,

Signed on behalf of Irish Water:

PP: Ali Robinson

Yvonne Harris
Connections and Development Services

Irish Water's Response to EIA Scoping Requests

At present, Irish Water does not have the capacity to advise on the scoping of individual projects. However, in general the following aspects of Water Services should be considered in the scope of an EIA where relevant;

- a) Where the development proposal has the potential to impact an Irish Water Drinking Water Source(s), the applicant shall provide details of measures to be taken to ensure that there will be no negative impact to Irish Waters Drinking Water Source(s) during the construction and operational phases of the development. Hydrological / hydrogeological pathways between the applicant's site and receiving waters should be identified as part of the report.
- b) Where the development proposes the backfilling of materials, the applicant is required to include a waste sampling strategy to ensure the material is inert.
- c) Mitigations should be proposed for any potential negative impacts on any water source(s) which may be in proximity and included in the environmental management plan and incident response.
- d) Any and all potential impacts on the nearby reservoir as public water supply water source(s) are assessed, including any impact on hydrogeology and any groundwater/ surface water interactions.
- e) Impacts of the development on the capacity of water services (*i.e. do existing water services have the capacity to cater for the new development*). This is confirmed by Irish Water in the form of a Confirmation of Feasibility (COF). If a development requires a connection to either a public water supply or sewage collection system, the developer is advised to submit a Pre-Connection Enquiry (PCE) enquiry to Irish Water to determine the feasibility of connection to the Irish Water network. All pre-connection enquiry forms are available from <https://www.water.ie/connections/connection-steps/>.
- f) The applicant shall identify any upgrading of water services infrastructure that would be required to accommodate the proposed development.
- g) In relation to a development that would discharge trade effluent – any upstream treatment or attenuation of discharges required prior to discharging to an Irish Water collection network.
- h) In relation to the management of surface water; the potential impact of surface water discharges to combined sewer networks and potential measures to minimise and or / stop surface waters from combined sewers.
- i) Any physical impact on Irish Water assets – reservoir, drinking water source, treatment works, pipes, pumping stations, discharges outfalls etc. including any relocation of assets.
- j) When considering a development proposal, the applicant is advised to determine the location of public water services assets, possible connection points from the applicant's site / lands to the public network and any drinking

water abstraction catchments to ensure these are included and fully assessed in any pre-planning proposals. Details, where known, can be obtained by emailing an Ordnance Survey map identifying the proposed location of the applicant's intended development to datarequests@water.ie.

- k) Other indicators or methodologies for identifying infrastructure located within the applicant's lands are the presence of registered wayleave agreements, visible manholes, vent stacks, valve chambers, marker posts etc. within the proposed site.
- l) Any potential impacts on the assimilative capacity of receiving waters in relation to Irish Water discharge outfalls including changes in dispersion / circulation characterises. Hydrological / hydrogeological pathways between the applicant's site and receiving waters should be identified within the report.
- m) Any potential impact on the contributing catchment of water sources either in terms of water abstraction for the development (*and resultant potential impact on the capacity of the source*) or the potential of the development to influence / present a risk to the quality of the water abstracted by Irish Water for public supply should be identified within the report.
- n) Where a development proposes to connect to an Irish Water network and that network either abstracts water from or discharges wastewater to a "protected"/ sensitive area, consideration as to whether the integrity of the site / conservation objectives of the site would be compromised should be identified within the report.
- o) Mitigation measures in relation to any of the above ensuring a zero risk to any Irish Water drinking water sources (Surface and Ground water).

This is not an exhaustive list.

Please note;

- Where connection(s) to the public network is required as part of the development proposal, applicants are advised to complete the Pre-Connection Enquiry process and have received a Confirmation of Feasibility letter from Irish Water ahead of any planning application.
- Irish Water will not accept new surface water discharges to combined sewer networks.

HEALTH SERVICE EXECUTIVE



Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive

An tSeirbhís Sláinte Chomhshaoil
Feidhmeannacht na Seirbhíse Sláinte (Iarthar)
Ceanncheathrú Naomh Muire
Caisleán an Bharraigh
Contae Mhaigh Eo

Environmental Health Service
HSE West
St. Mary's Headquarters
Castlebar
Co. Mayo

☎ (094) 90 42260 / 90 42105
📠 (094) 90 27312

Date: 21 April 2022

Name: Ms Sarah Jones, Jennings O'Donovan & Partners Limited, Finisklin Business Park, Sligo

Consultant's reference: 6129/503/SL/003/SJ

Re: EIA Scoping Report

Proposed development: Proposed Firlough Wind Farm and Hydrogen Production Facility, Bonniclonlon, Co. Mayo

Applicant: Mercury Renewables (Carrowleagh) Limited (MRCL)

EHIS Reference: 2294

Dear Ms. Jones,

Please find enclosed the HSE Consultation Report in relation to the above proposal.

The following HSE Departments were made aware of the consultation request for the proposed development on 25 March 2022

- Emergency Planning – Kay Kennington
- Estates – Helen Maher/Stephen Murphy
- Assistant National Director for Health Protection – National Clinical Director for Health Protection
- CHO – Breda Crehan-Roche

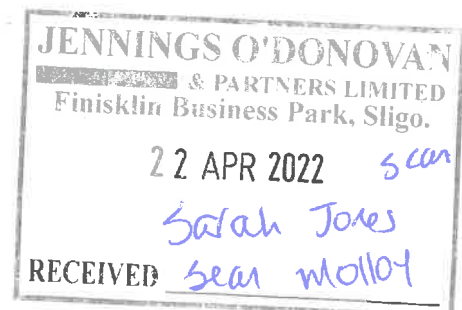
If you have any queries regarding this report the initial point of contact is Ms Maria Horkan, Principal Environmental Health Officer (maria.horkan@hse.ie) who will refer your query to the appropriate person.

Yours sincerely

Maria Horkan

Maria Horkan
Principal Environmental Health Officer

MH/MG



HSE EIA Scoping

Environmental Health Service Submission Report

Date: 21 April 2022

Our reference: EHIS 2294

Report to: Ms Sarah Jones, Jennings O'Donovan & Partners Limited

Type of Consultation: EIA Scoping

Proposed development: Proposed Firlough Wind Farm, Bonniconlon, Co. Mayo

Applicant: Mercury Renewables (Carrowleagh) Limited (MRCL)

Proposed Development: MRCL intends to apply as Strategic Infrastructure Development SID approval for the construction of 13 no. wind turbines each typically of approximately 5-6 megawatts (MW) with a combined output of approximately 78 MW at Carrowleagh (Kilbride), Bonniconlon, Co. Mayo. The proposals will also include planning permission for the construction of an underground grid connection via a looped connection to the existing 110kV overhead powerline north of Bonniconlon village and the construction of a 110kV Loop Substation on the proposed Wind Farm Site. It is also proposed to include a hydrogen production facility as part of the project, to produce green hydrogen fuel with the electricity generated from the wind farm.

General Introduction

The following documents should be taken into consideration when preparing the Environmental Impact Assessment Report:

- Guidelines on the information to be contained in EIS (2002), 187kb
- Advice Notes on Current Practice in the preparation of EIS (2003), 435kb
- Guidelines for Planning Authorities and An Bord Pleanála on carrying out Environmental Impact Assessment

https://www.housing.gov.ie/sites/default/files/publications/files/guidelines_for_planning_authorities_and_an_bord_pleanála_on_carrying_out_eia_-_august_2018.pdf

EU publication: Environmental Impact Assessment of Projects Guidance on the preparation of the Environmental Impact Assessment Report, EU, 2017

http://ec.europa.eu/environment/eia/pdf/EIA_guidance_EIA_report_final.pdf

Adoption of the Directive (2014/52/EU) in April 2014 initiated a review of the above guidelines. The draft new guidelines can be seen at:

<http://www.epa.ie/pubs/consultation/reviewofdrafteisguidelinesadvicenotes>

The applicant should also consider the findings of the High Court judgement issued in the judicial review of the Derryadd Wind Farm. (2021 IEHC 390 [2020] No. 557 JR] P. Sweetman v An Bord Pleanála)

Generally the Environmental Impact Assessment should examine all likely significant impacts and provide the following information for each:

- a) Description of the receiving environment;
- b) The nature and scale of the impact;
- c) An assessment of the significance of the impact;
- d) Proposed mitigation measures;
- e) Residual impacts.

Directive 2014/52/EU has an enhanced requirement to assess likely significant impacts on Population and Human Health. It is the experience of the Environmental Health Service (EHS) that impacts on human health are often inadequately assessed in EIAs in Ireland. It is recommended that the wider determinants of health and wellbeing are considered in a proportionate manner when considering the EIA. Guidance on wider determinants of health can be found at www.publichealth.ie

In addition to any likely significant negative impacts from the proposed development, any positive likely significant impacts should also be assessed.

The HSE will consider the final EIAR accompanying the SID/ planning application and will make comments to the relevant planning authority on the methodology used for assessing the likely significant impacts and the evaluation criteria used in assessing the significance of the impact.

This report only comments on Environmental Health Impacts of the proposed development. It is based on an assessment of the correspondence submitted to this office dated 24th March 2022

The Environmental Health Service (EHS) recommends that the following matters are included and assessed in the EIAR

- Public Consultation
- Decommissioning phase
- Siting and location of turbines

- Noise & Vibration
- Hydrogen production, storage and transportation
- Shadow Flicker
- Air Quality
- Surface and Groundwater Quality
- Geological Impacts
- Ancillary facilities
- Cumulative impacts

Public Consultation

It is strongly recommended that early and meaningful public consultation with the local community should be carried out to ensure all potentially significant impacts have been adequately addressed.

As hydrogen production is a new technology in Ireland it is important that clear, easy to understand and site specific information on this aspect of the proposed development is provided to the public at the earliest possible opportunity.

All parties affected by the proposed development, including those who may benefit financially from the project, must be fully informed of what the proposal entails especially with regard to potential impacts on surrounding areas.

Sensitive receptors and other stakeholders should be identified to ensure all necessary and appropriate mitigation measures are put in place to avoid any complaints about the proposed wind farm and hydrogen production facility development in the future.

Consideration should be given to any submissions made for Planning Application reference An Bord Pleanála PL16.241592 and evidence should be provided as to how any issues of concern raised in respect of that application have been addressed.

It is acknowledged that current restrictions around public gatherings as a result of Covid 19 prevention measures will impact on opportunities for public consultation events. However it is expected that meaningful public consultation, where the local community is fully informed of the proposed development, will be undertaken. Members of the public should be given sufficient opportunities to express their views on the proposal wind farm and hydrogen production facility.

The Environmental Impact Assessment Report (EIAR) should clearly demonstrate the link between public consultations and how those consultations have influenced the decision-making process in the EIA.

To assist with the consultation and planning process it is recommended that the applicant develops a dedicated website for the proposed wind energy and hydrogen production project. All correspondence, maps, project updates and documentation including the EIAR should be uploaded to the website

Decommissioning Phase

The EIAR should detail what the eventual fate of the turbines and associated material will be, i.e. will the material be recycled or how will it be disposed of.

Information should also be provided regarding the proposed methodology to be used for the disposal of the materials forming the foundations of the wind turbines and the processes involved in the decommissioning of the hydrogen production facility.

The EIAR should indicate the proposed future use of the development site at the end of the planning permission period.

Siting, Location and details of Turbines and Hydrogen Production Facility

The EIAR should include a map and a description of the proposed location of each of the proposed wind turbines.

The location and layout of the proposed Hydrogen Production Facility should also be described.

The Environmental Health Service expects that details (height and model) of the turbines to be installed will be available at the time planning permission is sought and will be included in the EIAR.

Details of the foundations for the wind turbine and hydrogen production facility including depth, quantity and material to be used should be included in the EIAR. Should underground storage tanks be provided for the hydrogen production facility, details of their construction, volume and integrity testing should be included.

Assessment of Consideration of Alternatives

The EIAR should consider an assessment of alternatives. The EHS recommends that alternative renewable energy options to on shore wind farms should be assessed as part of the EIAR.

Noise & Vibration

The potential impacts for noise and vibration from the proposed development on all noise sensitive locations must be clearly identified in the EIAR. The EIAR must also consider the appropriateness and effectiveness of all proposed mitigation measures to minimise noise and vibration.

A baseline noise monitoring survey should be undertaken to establish the existing background noise levels. Noise from any existing turbines in the area should not be included as part of the back ground levels.

In addition, an assessment of the predicted noise impacts during the construction phase and the operational phase of the proposed wind farm and hydrogen production facility development must be undertaken which details the change in the noise environment resulting from the proposed development.

The Draft Revised Wind Energy Development Guidelines were published in December 2019. Whilst these have yet to be adopted, any proposed wind farm development should have consideration of the draft Guidelines.

https://www.housing.gov.ie/sites/default/files/public-consultation/files/draft_revised_wind_energy_development_guidelines_december_2019.pdf

It is recommended that the transformer proposed as part of the development is manufactured with a specified and guaranteed noise emission level in order to minimise the impact on sensitive receptors and that the minimising of noise is a criterion used for the selection and installation of substation equipment.

Shadow Flicker

It is recommended that a shadow flicker assessment is undertaken to identify any dwellings and sensitive receptors which may be impacted by shadow flicker. The assessment must include all proposed mitigation measures. Dwellings should include all occupied properties and any existing or proposed properties for which planning consent has been granted for construction or refurbishment.

It is recommended that turbine selection will be based on the most advanced available technology that permits shut down during times when residents are exposed to shadow flicker. As a result no dwelling should be exposed to shadow flicker.

Air Quality

Due to the nature of the proposed construction works generation of airborne dust has the potential to have significant impacts on sensitive receptors. A Construction Environmental Management Plan (CEMP) should be included in the EIAR which details dust control and mitigation measures. Measures should include:

- Sweeping of hard road surfaces
- Provision of a water bowser on site, regular spraying of haul roads
- Wheel washing facilities at site exit
- Restrict speed on site
- Provide covers to all delivery trucks to minimise dust generation
- Inspect and clean public roads in the vicinity if necessary
- Material stockpiling provided with adequate protection from the wind

- Dust monitoring at the site boundary
- Truck inspection and maintenance plan
- Details of a road maintenance agreement between the wind farm operator and the Local Roads Authority to clarify responsibility for the upkeep and repair of access roads during the construction phase of the project

Surface and Ground Water Quality

The proposed development has the potential to have a significant impact on the quality of both surface and ground water. All drinking water sources, both surface and ground water, must be identified. Public and Group Water Scheme sources and supplies should be identified. Measures to ensure that all sources and supplies are protected should be described. The Environmental Health Service recommends that a walk over survey of the site is undertaken in addition to a desktop analysis of Geological Survey of Ireland data in order to identify the location of private wells used for drinking water purposes.

Any potential significant impacts to drinking water sources should be assessed. Details of bedrock, overburden, vulnerability, groundwater flows, aquifers and catchment areas should be considered when assessing potential impacts and any proposed mitigation measures.

The EIAR should include measures proposed to mitigate the impact of any potential hydrogen leakage during production, storage and transportation. The source and volume of water required for the production of hydrogen should be specified in the EIAR.

The method of disposal and the potential impacts of any wastewater generated as a result of the purification process should be described, as should the method of disposal/treatment and potential impacts of wastewater produced by the electrolyser.

Geological impacts

A detailed assessment of the current ground stability of the site for the proposed wind farm and all proposed mitigation measures should be detailed in the EIAR. The assessment should include the impact construction work may have on the future stability of ground conditions, taking into consideration extreme weather events, site drainage and the potential for soil erosion.

It is expected that an updated EIA will be undertaken to assess the likely significant impacts arising from the proposed increase in size of the turbines (from the turbines granted Planning Permission in 2013) and impacts arising from the construction of the proposed hydrogen production facility.

Information should be provided on the make and model of the turbines and on construction details for the turbine foundations and the hydrogen production facility, including the depth and volume of concrete required. An accurate assessment of the potential impacts of the foundations on water quality and peat stability cannot be undertaken without this information.

Reference is made to a peat slide which occurred near Ballybofey in Co. Donegal on November 13th 2020 which may have been linked to construction activity at Meenbog Wind Farm. Potential impacts

on water supply associated with contamination following a peat slide include sedimentation and alteration of pH levels.

The Environmental Health Service recommends that a detailed Peat Stability/Geophysical Assessment should be undertaken to assess the suitability of the soil for the proposed development. The EIAR should include provision for a peat stability monitoring programme to identify early signs of potential bog slides ('pre-failure indicators' see the Scottish Government's 'Peat Landslide Hazard and Risk Assessments: Best Practice Guide for Proposed Electricity Developments 2017')
<https://www.gov.scot/binaries/content/documents/govscot/publications/advice-and-guidance/2017/04/peat-landslide-hazard-risk-assessments-best-practice-guide-proposed-electricity/documents/00517176-pdf/00517176-pdf/govscot%3Adocument/00517176.pdf>

Ancillary Facilities

The EIAR should include details of the location of all site office, construction compound, fuel storage depot, sanitary accommodation and canteen, First Aid facilities, disposal of wastewater and the provision of a potable water supply to the site canteen.

Cumulative Impacts

All existing or proposed wind farm developments in the vicinity should be clearly identified in the EIAR.

The impact on sensitive receptors of the proposed development combined with any other wind farm developments in the vicinity should be considered. The EIAR should include a detailed assessment of any likely significant cumulative impacts of the proposed renewable energy development.

The EIAR should state clearly if there is any future proposal to extend the proposed Firlough Wind Farm and Hydrogen Production Facility.



Evelyn Keane
Environmental Health Officer
HSE West
PCC Claremorris
Kilcolman Rd
Claremorris
Co. Mayo



Environmental Health Officer
Environment OU
Ennistymon Health Centre
Ennistymon
Co. Clare

BROADCASTING AUTHORITY OF IRELAND

Sarah Gallagher

From: Roger Woods <rwoods@bai.ie> on behalf of Roger Woods
Sent: Tuesday 3 May 2022 09:44
To: sgallagher@jodireland.com
Subject: RE: Firlough Wind Farm, Bonniclon, Co. Mayo

Hi Sarah

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: Reception BAI <reception@bai.ie>
Sent: Tuesday 3 May 2022 09:23
To: Roger Woods <rwoods@bai.ie>
Subject: FW: Firlough Wind Farm, Bonniclon, Co. Mayo

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Thursday 28 April 2022 16:30
To: Reception BAI <reception@bai.ie>
Subject: FW: Firlough Wind Farm, Bonniclon, Co. Mayo

Dear Sirs,

I am just following up on the below email, if you have any comments to make on the attached Firlough document.

Thanks and Kind Regards,

Sarah

ÚDARÁS NA GAELTACHTA

Sarah Gallagher

From: Údarás na Gaeltachta <eolas@udaras.ie> on behalf of Údarás na Gaeltachta
Sent: Thursday 28 April 2022 14:31
To: Sarah Gallagher
Subject: RE: Firlough Wind Farm, Bonniconlon, Co. Mayo

Sarah, a chara,

Go raibh maith agat as ucht an comhfhreagras.

Thank you for your correspondence which is acknowledged herein.

I have forwarded your correspondence to our Northern Regional Development Department for their attention and direct reply.

Mise, le meas
An Rannóg Cumarsáide

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Thursday 28 April 2022 14:25
To: Dnag Suiomh Idirlion <DnagSuiomhIdirlion@udaras.ie>
Subject: FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Sirs,

Just following up on the below email, if you could send back any comments you may have on the attached Firlough Scoping document.

Thanks and Kind Regards,

Sarah.

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Thursday 24 March 2022 14:59
To: dnag@udaras.ie
Cc: Sarah Jones <sjones@jodireland.com>
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Sirs,

Please find attached Scoping Letter and Maps for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

Thanks and Kind regards,

Sarah Gallagher



BAT CONSERVATION IRELAND

Sarah Gallagher

From: BCI Info <info@batconservationireland.org> on behalf of BCI Info
Sent: Friday 29 April 2022 10:23
To: Sarah Gallagher
Subject: RE: Firlough Wind Farm, Bonniconlon, Co. Mayo

Morning Sarah

Bat Conservation Ireland is a small charity with no administrative capacity to comment on planning applications. Please ensure that bat surveys are completed according to best practice in relation to windfarms taking into consideration bat surveying guidelines from NPWS, Bat Conservation Ireland and BCT, UK.

Regards,
Bat Conservation Ireland

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Thursday 28 April 2022 16:34
To: BCI Info <info@batconservationireland.org>
Subject: FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Sirs,

I am just following up on the below email, if you have any comments to make on the attached Firlough document.

Thanks and Kind Regards,

Sarah

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Tuesday 29 March 2022 10:09
To: info@batconservationireland.org
Cc: Sarah Jones <sjones@jodireland.com>
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Sirs,

Please find attached Scoping Document for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

Thanks and Kind regards,

Sarah Gallagher



Head Office

Finisklin Business Park, Sligo, Ireland, F91 RHH9. [MAP](#)

Tel: [+353719161416](tel:+353719161416) Email: sgallagher@jodireland.com Web: www.jodireland.com



Sarah Jones
Jennings O'Donovan & Partners Limited
Finisklin Business Park
Sligo, F91 RHH9

26 April 2022

Re: Request for Scoping Opinion on information to be included in the preparation of an Environmental Impact Assessment (EIA) for Firlough Wind Farm, Bonniconlon, Co. Mayo

Your Ref: 6129/503/SL/007/SJ
Our Ref: 22/108

Dear Sarah,

Geological Survey Ireland is the national earth science agency and is a division of the Department of the Environment, Climate and Communications. We provide independent geological information and advice and gather various data for that purpose. Please see our [website](#) for data availability. We recommend using these various data sets, when conducting the EIAR, SEA, planning and scoping processes. Use of our data or maps should be attributed correctly to 'Geological Survey Ireland'.

With reference to your email received on the 24 March 2022, concerning the Request for Scoping Opinion on information to be included in the preparation of an Environmental Impact Assessment (EIA) for Firlough Wind Farm, Bonniconlon, Co. Mayo, Geological Survey Ireland would encourage use of and reference to our datasets. Please find attached a list of our publicly available datasets that may be useful to the environmental assessment and planning process. We recommend that you review this list and refer to any datasets you consider relevant to your assessment. The remainder of this letter and following sections provide more detail on some of these datasets.

Geoheritage

A national inventory of geoheritage sites known as County Geological Sites (CGSs) is managed by the Geoheritage Programme of Geological Survey Ireland. CGSs, as adopted under the National Heritage Plan, include sites that are of national importance which have been selected as the very best examples for NHA (Natural Heritage Areas) designation. NHA designation will be completed in partnership with the National Parks and Wildlife Service (NPWS). CGSs are now routinely 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 of County Geological Sites of County Mayo was published in November 2020. The full report details can be found [here](#). **Our records show that there are no CGSs in the vicinity of the proposed wind farm development.**

Groundwater

Geological Survey Ireland's [Groundwater and Geothermal Unit](#), provides advice, data and maps relating to groundwater distribution, quality and use, which is especially relevant for safe and secure drinking water supplies and healthy ecosystems.

Proposed developments need to consider any potential impact on specific groundwater abstractions and on groundwater resources in general. We recommend using the groundwater maps on our [Map viewer](#) which should include: wells; drinking water source protection areas; the national map suite - aquifer, groundwater vulnerability, groundwater recharge and subsoil permeability maps. For areas underlain by limestone, please refer to the karst specific data layers (karst features, tracer test database; turlough water levels (gwlevel.ie). Background information is also provided in the Groundwater Body Descriptions. Please read all disclaimers carefully when using Geological Survey Ireland data.



The Groundwater Data Viewer indicates an aquifer classed as a ‘Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones’ underlies the proposed wind farm. The Groundwater Vulnerability map indicates the range of groundwater vulnerabilities is Moderate to Low Vulnerability.

[GWClimate](#) is a groundwater monitoring and modelling project that aims to investigate the impact of climate change on groundwater in Ireland. This is a follow on from a previous project (GWFlood) and the data may be useful in relation to Flood Risk Assessment (FRA) and management plans. Maps and data are available on the [Map viewer](#).

Geological Survey Ireland has completed Groundwater Protection Schemes (GWPSs) in partnership with Local Authorities, and there is now national coverage of GWPS mapping. A Groundwater Protection Scheme provides guidelines for the planning and licensing authorities in carrying out their functions, and a framework to assist in decision-making on the location, nature and control of developments and activities in order to protect groundwater. **The Groundwater Protection Response overview and link to the main reports is here:** <https://www.gsi.ie/en-ie/programmes-and-projects/groundwater/projects/protecting-drinking-water/what-is-drinking-water-protection/county-groundwater-protection-schemes/Pages/default.aspx>

Geological Mapping

Geological Survey Ireland maintains online datasets of bedrock and subsoils geological mapping that are reliable and accessible. We would encourage you to use these data which can be found [here](#), in your future assessments.

Geohazards

Geohazards can cause widespread damage to landscapes, wildlife, human property and human life. In Ireland, landslides, flooding and coastal erosion are the most prevalent of these hazards. 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.

Landslides are common in areas of peat, rock near surface and in fine to coarse range materials (such as glacial tills), areas which are found within the area of the proposed wind farm. Geological Survey Ireland has information available on landslides in Ireland via the National Landslide Database and Landslide Susceptibility Map both of which are available for viewing on our dedicated [Map Viewer](#). Associated guidance documentation relating to the National Landslide Susceptibility Map is also available.

Geological Survey Ireland also engaged in a national project on Groundwater Flooding. The data from this project may be useful in relation to Flood Risk Assessment (FRA) and management plans, and is described in more detail under ‘Groundwater’ above.

Natural Resources (Minerals/Aggregates)

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](#).

We would recommend use of the Aggregate Potential Mapping viewer to identify areas of High to Very High source aggregate potential within the area. In keeping with a sustainable approach we would recommend use of our data and mapping viewers to identify and ensure that natural resources used in the wind energy development are sustainably sourced from properly recognised and licensed facilities, and that consideration of future resource sterilization is considered.

Historic Mines

The EPA, Geological Survey Ireland and the former Exploration & Mining Division undertook a joint project entitled "Historic Mine Site - Inventory and Risk Characterisation (HMS - IRC)". This project carried out detailed site investigations and characterisation on priority historic mine sites in the country.



A risk ranking methodology was developed which categorised the sites according to the risks posed to human and animal health and the environment. The project commenced in January 2006 and was completed in December 2008. A final report and a GIS geodatabase was produced on completion of the project. Reports and maps available [here](#). The project provides an understanding of the impacts of historic mining sites in Ireland and their status at the time of the study.

Geochemistry of soils, surface waters and sediments

Geological Survey Ireland provides baseline geochemistry data for Ireland as part of the Tellus programme. Baseline geochemistry data can be used to assess the chemical status of soil and water at a regional scale and to support the assessment of existing or potential impacts of human activity on environmental chemical quality. Tellus is a national-scale mapping programme which provides multi-element data for shallow soil, stream sediment and stream water in Ireland. At present, mapping consists of the border, western and midland regions. Data is available at <https://www.gsi.ie/en-ie/data-and-maps/Pages/Geochemistry.aspx>.

Other Comments

Should development go ahead, all other factors considered, Geological Survey Ireland would much appreciate a copy of reports detailing any site investigations carried out. Should any significant bedrock cuttings be created, we would ask that they will be designed to remain visible as rock exposure rather than covered with soil and vegetated, in accordance with safety guidelines and engineering constraints. In areas where natural exposures are few, or deeply weathered, this measure would permit on-going improvement of geological knowledge of the subsurface and could be included as additional sites of the geoheritage dataset, if appropriate. Alternatively, we ask that a digital photographic record of significant new excavations could be provided. Potential visits from Geological Survey Ireland to personally document exposures could also be arranged.

The data would be added to Geological Survey Ireland's national database of site investigation boreholes, implemented to provide a better service to the civil engineering sector. Data can be sent to the Geological Mapping Unit, at <mailto:GeologicalMappingInfo@gsi.ie>, 01-678 2795.

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

Yours sincerely,

Clare Glanville
Senior Geologist
Geological Survey Ireland

Enc: Table - Geological Survey Ireland's Publicly Available Datasets Relevant to Planning, EIA and SEA processes.

Geological Survey Ireland's Publicly Available Datasets Relevant to Planning, EIA and SEA processes
following European Union (Planning and Development) (Environmental Impact Assessment) Regulations 2018
(S.I. No. 296 of 2018)

Geological Survey Ireland Programme	Dataset	Relevant EIA Topic	Coverage	Description / Notes / Limitations	Link to Geological Survey Ireland map viewer
Geohazards	Landslide: National landslide database and landslide susceptibility map	Land & Soil/Climate/Landscape	National	Associated guidance documentation relating to the National Landslide Susceptibility Map is also available.	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=b68cf1e4a9044a5981f950e9b9c5625c
Geohazards	Groundwater Flooding (Historic)	Water	Regional	Provide information of historic flooding, both surface water and groundwater. [A lack of flooding presented in any specific location of the map only indicates that a flood has not been detected. It does not indicate that a flood cannot occur in that location at present or in the future]	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=848f83c85799436b808652f9c735b1cc
Geohazards	Groundwater Flooding (Predictive)	Water	Regional	Provides information on the probability of future karst groundwater flooding (where available). [The maps do not, and are not intended to, constitute advice. Professional or specialist advice should be sought before taking, or refraining from, any action on the basis of the flood maps]	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=848f83c85799436b808652f9c735b1cc
Geohazards	Radon Map	Land & Soils/Air	National		http://www.epa.ie/radiation/radonmap/
Geoheritage	County Geological Sites as adopted by National Heritage Plan and listed in County Development Plans	Land & Soils/Landscape	Regional	All geological heritage sites identified by Geological Survey Ireland are categorised as CGS pending any further NHA designation by NPWS.	https://dcenr.maps.arcgis.com/apps/MapSeries/index.html?appid=a30af518e87a4c0b2fbd2aaac3c228
Geological Mapping	Bedrock geology:	Land & Soils	National	1:100,000 scale and associated memoirs.	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=de7012a99d2748ea9106e7e1b6ab8d58&scale=0
Geological Mapping	Bedrock geology:	Land & Soils	Regional	1:50,000 scale	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=de7012a99d2748ea9106e7e1b6ab8d58&scale=0
Geological Mapping	Quaternary geology: Sediments	Land & Soils	National	1:50,000 scale	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=de7012a99d2748ea9106e7e1b6ab8d58&scale=0
Geological Mapping	Quaternary geology: Geomorphology	Land & Soils	National	1:50,000 scale	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=de7012a99d2748ea9106e7e1b6ab8d58&scale=0
Geological Mapping	Physiographic units:	Land & Soils	National	Broad-scale physical landscape units mapped at 1:100,000 scale in order to be represented as a cartographic digital map at 1:250,000 scale	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=afa76a420f54877843aca1bc075c62b
Geological Mapping	GeoUrban: Spatial geological data for the greater Dublin and Cork areas	Land & Soils	Regional	Includes 3D models	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=9768f4818b79416093beb2212a850ce6&scale=0
Geological Mapping	Geotechnical database	Land & Soils	National	Digitised geotechnical and Site Investigation Reports and boreholes which can be accessed through online downloads	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=a21718be1873d47a585a3f0415b4a724c
Goldmine	Historical data sets including geological memoirs and 6" to 1 mile geological mapping records	Land & Soils/Water	National	available online	https://secure.dcaea.gov.ie/goldmine/index.html
Groundwater & Geothermal	Groundwater resources (aquifers)	Water	National	Data limited to 1:100,000 scale; sites should be investigated at local scale	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Groundwater recharge.	Water	National	Data limited to 1:40,000 scale; sites should be investigated at local scale; long term annual average recharge	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Groundwater vulnerability.	Water	National	Data limited to 1:40,000 scale; sites should be investigated at local scale	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Group scheme and public supply source protection areas.	Water	National	Not all PWS / GWS have SPZ / ZOC. Check with IW / coco / NFGWS for private supplies.	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Groundwater Protection Schemes	Water	National	Data is limited to scale of 1:40,000. Data does not include all of the source protection areas	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Catchment and WFD management units.	Water	National		https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	karst specific data layers	water	National	For areas underlain by limestone, includes karst features, tracer test database; turf/rough water levels (gwlevel.ie)	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Wells and Springs	Water	National	Not comprehensive, there may be unrecorded wells and springs	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Groundwater body Descriptions	Water	National	Not exhaustive; only those in designated SACs; could be other GWDTEs; for more information contact NPWS / EPA / site investigations Also, Roadmap for a Policy and Regulatory Framework for Geothermal Energy, November 2020	https://www.gsi.ie/en-ie/programmes-and-projects/groundwater-and-geothermal-unit/activities/understanding-ireland-groundwater/Pages/Groundwater-bodies.aspx
Groundwater & Geothermal	Geothermal Suitability maps	Land & Soils/Water	National		https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=9e46bee08de41278b90a9916d0c0b9e
Marine & Coastal Unit	INFOMAR - Ireland's national marine mapping programme; providing key baseline data for Ireland's	Water	National		https://secure.dcaea.gov.ie/GSI/INFOMAR_VIEWER/
Marine & Coastal Unit	CHERISH - Coastal change project (Climate, Heritage and Environments of Reefs, Islands, and Headlands)	Water	Regional		http://www.cherishproject.eu/en/
Marine & Coastal Unit	Coastal Vulnerability Index (CVI).	water / Land & Soils	Regional	Currently the project is being carried out on the east coast and will be rolled out nationally	https://www.gsi.ie/en-ie/programmes-and-projects/marine-and-coastal-unit/projects/Pages/Coastal-Vulnerability-Index.aspx
Minerals	Aggregate potential	Land & Soils/Material Assets	National	Consideration of mineral resources and potential resources as a material asset which should be explicitly recognised within the environmental assessment process	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=ee8c4c285a49413aa6f1344416dc9956
Minerals	Active quarries	Land & Soils	National		https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=ee8c4c285a49413aa6f1344416dc9956
Minerals	Historic mines	Land & Soils/Cultural Heritage	National	Inventory and Risk Classification 2009. Environmental Protection Agency, Economic Minerals Division and Geological Survey Ireland (DECC).	https://gis.epa.ie/EPAMaps/default?zesting=7&northing=7&lid=EPA:LEMA_Facilities_Extractive_Facilities https://www.epa.ie/enforcement/mines/
Tellus	Geochemical data: multi-element data for shallow soil, stream sediment and stream water	Land & Soils	Regional	A national mapping programme	https://dcenr.maps.arcgis.com/apps/MapSeries/index.html?appid=6304e122b733498b99642707f72754
Tellus	Airborne geophysical data including radiometrics, electromagnetics and magnetics	Land & Soils	Regional	A national mapping programme	https://dcenr.maps.arcgis.com/apps/MapSeries/index.html?appid=6304e122b733498b99642707f72754
Tellus	urban geochemistry mapping (Dublin SURGE project).	Land & Soils	Regional		https://dcenr.maps.arcgis.com/apps/MapSeries/index.html?appid=6304e122b733498b99642707f72754

- Notes:
1. The maps and data listed above are available on the Geological Survey Ireland map viewer <https://www.gsi.ie/en-ie/data-and-maps/Pages/default.aspx>
2. Please read all disclaimers carefully when using Geological Survey Ireland data
3. Geological Survey Ireland and Irish Concrete Federation published guidelines for the treatment of geological heritage in the extractive industry in 2008.

Sarah Gallagher

From: CorporateSupport.Unit <CorporateSupport.Unit@decc.gov.ie> on behalf of CorporateSupport.Unit
Sent: Friday 1 April 2022 12:04
To: 'sgallagher@jodireland.com'
Cc: CorporateSupport.Unit; Planning Advisory
Subject: Reply from DECC re Firlough Wind Farm, Bonniconlon, Co. Mayo

Good afternoon Sarah,

Please see below a reply from Rory Coleman on behalf of Environmental Protection and Circular Economy Divisions (Divisions in the Department of Environment, Climate and Communications) for the subject below. Please forward an acknowledgement of receipt to CorporateSupport.Unit@decc.gov.ie at your earliest convenience.

Regards
Enda Brady,
Corporate Support Unit.

Enda Brady,
Corporate Support Unit,

An Roinn Comhshaoil, Aeráide agus Cumarsáide
Department of the Environment, Climate and Communications

Teach Leamháin, Bóthar Ghleann an Iarla, An Cabhán, H12 A8H7
Elm House, Earlsvale Road, Cavan, H12 A8H7

M +35387 623 7714 T +353 (0)1 6782308
CorporateSupport.Unit@decc.gov.ie www.gov.ie/decc

From: Rory Coleman <Rory.Coleman@decc.gov.ie>
Sent: Wednesday 30 March 2022 12:23
To: CorporateSupport.Unit <CorporateSupport.Unit@decc.gov.ie>
Subject: Jennings O'Donovan re Firlough Wind Farm, Bonniconlon, Co. Mayo

Hi Enda,

Please see below reply on behalf of the Environmental Protection and Circular Economy Divisions:

In relation to waste in the within documentation, we would be obliged if the local authority would consult directly with their respective Regional Waste Management Planning Office regarding development of the final plans.

Kind regards,

Rory

From: Customer Service <Customer.Service@decc.gov.ie>
Sent: Friday 25 March 2022 16:25

To: CorporateSupport.Unit <CorporateSupport.Unit@decc.gov.ie>
Subject: FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

Hi everyone,

Forwarding for you attention.

Alison

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Thursday 24 March 2022 15:15
To: Customer Service <Customer.Service@decc.gov.ie>
Cc: Sarah Jones <sjones@jodireland.com>
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

CAUTION: This email originated from outside of the organisation. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Dear Sirs,

Please find attached Scoping Letter and Maps for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

Thanks and Kind regards,

Sarah Gallagher



Head Office

Finisklin Business Park, Sligo, Ireland, F91 RHH9. [MAP](#)

Tel: [+353719161416](tel:+353719161416) Email: sgallagher@jodireland.com Web: www.jodireland.com



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DEPARTMENT OF AGRICULTURE, FOOD AND THE MARINE

Sarah Gallagher

From: Minister McConalogue <minnoreply-agriculture@corr.cloud.gov.ie>
Sent: Friday 29 April 2022 10:52
To: sjones@jodireland.com
Subject: Acknowledgement

Follow Up Flag: Follow up
Flag Status: Flagged

Ms. Sarah Jones

Jennings O'Donovan Consulting Engineers

sjones@jodireland.com

29th April 2022

Reference No: DAFM-MMO-00932-2022

Dear Ms. Jones,

I would like to acknowledge your recent correspondence dated 24/03/2022 to Charlie McConalogue T.D., Minister for Agriculture, Food and the Marine regarding Firlough Wind Farm, Bonniconlon, Co Mayo.

I will bring your correspondence to the Minister's attention as soon as possible.

Yours sincerely,

Hilda Verling
Minister's Office

DEPARTMENT OF DEFENCE

Ann Kilmartin

From: Defence Property Management Planning
<PropertyManagementPlanning@defence.ie> on behalf of Defence Property Management Planning
Sent: Tuesday, May 24, 2022 5:07 PM
To: sgallagher@jodireland.com
Cc: Gareth O'Flaherty (Defence); Sarah Zacharia (Defence); sjones@jodireland.com
Subject: FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

Flag Status: Flagged

Dear Ms. Gallagher,

Thank you for your email of 29 March 2022 in relation to the proposed Firlough Wind Farm, Bonniconlon, Co. Mayo.

I wish to advise at the outset that any determination in relation to a planning consent is solely a matter for the planning authorities and/or ABP, as appropriate. Therefore, the following observations are made on a non-prejudicial basis, and are not intended to be used to rely on for a prospective planning application, nor are these observations to be relied on in the event of any commercial transaction pertaining to such lands and they are not to be relied on in the event of any contract exchange pertaining to same.

Based on the information supplied and having consulted with the subject matter experts in the Irish Air Corps, the Department of Defence wishes to make the following observation:

Single turbines or turbines delineating a windfarm should be illuminated by Type C, Medium intensity, Fixed Red obstacle lighting with a minimum output of 2,000 candela to be visible in all directions of azimuth and to be operational H24/7 days a week. Obstacle lighting should be incandescent or of a type visible to Night Vision equipment. Obstacle lighting must emit light at the near Infra-Red (IR) range of the electromagnetic spectrum, specifically at or near 850 nanometres (nm) of wavelength. Light intensity to be of similar value to that emitted in the visible spectrum of light.

Nothing in the above observations shall be taken as a binding response by the Minister for Defence in the event that a planning application is made. The Minister reserves the right to comment on the actual planning application as and when it is submitted in accordance with the provisions of the planning regulatory code.

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

Best regards
Don

Don Watchorn

Property Management Branch

An Roinn Cosanta

Department of Defence

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

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

T +353 (0)45 452199
E-mail don.watchorn@defence.ie

From: Defence Property Management Planning <PropertyManagementPlanning@defence.ie>
Sent: Wednesday 30 March 2022 12:01
To: sgallagher@jodireland.com
Cc: Gareth O'Flaherty (Defence) <Gareth.OFlaherty@defence.ie>; Sarah Zacharia (Defence) <Sarah.Zacharia@defence.ie>; sjones@jodireland.com
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Ms. Gallagher,

We wish to acknowledge receipt of your e-mail.

We will consult with our Military colleagues and revert in due course.

Best regards
Don

Don Watchorn

Property Management Branch

An Roinn Cosanta

Department of Defence

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

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

T +353 (0)45 452199
E-mail don.watchorn@defence.ie

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Tuesday 29 March 2022 10:14
To: Defence Info <info@defence.ie>
Cc: Sarah Jones <sjones@jodireland.com>
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

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Dear Sirs,

Please find attached Scoping Document for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

Thanks and Kind regards,

Sarah Gallagher



DEPARTMENT OF HOUSING, LOCAL GOVERNMENT AND HERITAGE

Sarah Gallagher

From: Housing Minister <MINISTER@housing.gov.ie> on behalf of Housing Minister
Sent: Tuesday 29 March 2022 15:19
To: Sarah Gallagher
Subject: RE: Firlough Wind Farm, Bonniconlon, Co. Mayo

Hi Sarah

Thank you for your email to Mr. Darragh O'Brien, T.D., Minister for Housing, Local Government and Heritage.

The issue you raise comes under the remit of the Minister of State Peter Burke. I have, therefore, forwarded your correspondence to his Office for attention and direct reply.

Kind Regards

Nicole Coughlan

Minister Darragh O'Brien's Office

An Roinn Tithíochta, Rialtais Áitiúil agus Oidhreachta
Department of Housing, Local Government and Heritage

Teach an Chustaim, Baile Átha Cliath 1, D01 W6X0
Custom House, Dublin 1, D01 W6X0

T +353 (0) 1 888 2504

www.housing.gov.ie

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Tuesday 29 March 2022 10:02
To: Housing Minister <MINISTER@housing.gov.ie>; diary@tcagsm.gov.ie
Cc: Sarah Jones <sjones@jodireland.com>
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

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Dear Sirs,

Please find attached Scoping Document for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

Thanks and Kind regards,

Sarah Gallagher

DEPARTMENT OF TRANSPORT



Ms. Sarah Jones
Jennings O'Donovan & Partners Limited
Finisklin Business Park
Sligo
7th April 2022

Re: Request for Scoping Opinion on information to be included in the preparation of an Environmental Impact Assessment (EIA) for Firlough Wind Farm, Bonniconlon, Co. Mayo.

Dear Sarah,

The Department of Transport Regional and Local Roads Division makes the following comments on the Firlough Wind Farm development located at Bonniconlon in County Mayo.

It should be noted that the Department considers the construction involved in providing this development and especially, the connection cables to the national grid may have effects on both the environment and the Regional and Local Road network.

Where the developer proposes the placement of any cables (or additional cables) in one or more trenches within the extents of the (regional and local) public road network, it is necessary to consider the following:

- Their presence within the public road could significantly restrict the Road Authority in carrying out its function to construct and maintain the public road and will likely add to the costs of those works.
- Their installation within the lands associated with the public road may affect the stability of the road. In particular where the road is a "legacy road" (where there is no designed road structure and the subgrade may be poor or poorly drained) the design needs to take account of all the variable conditions and not be based on a sample of the general conditions.
- The possible effect on the remaining available road space (noting that there may be need to accommodate other utilities within the road cross-section in the future).
- The necessity to have the power in the cables switched off where the Road Authority considers this necessary in order to carry out its function to construct and maintain the public road.

The Department consider it important that the examination of the proposal should include consideration of the following:

- Examination of options other than the routing of cables along the public road,
- Examination of options for connection to the national grid network at a point closer to the wind farm in order to reduce the adverse impact on public roads.



- Details of where within the road cross section cables are to be placed so as to minimise the effect on the Roads Authority in its role of construction and maintenance,
- Examination of details of any chambers proposed within the public road cross section so as to minimise the effect on the Roads Authority in its role of construction and maintenance and,
- Rationalisation of the number of cables involved (including existing electric or possible future cables) and their diversion into one trench, in order to minimise the impacts on the road network and the environment along the road boundary (hedgerows).

The Department considers the following should be considered when applying conditions to any approval.

1. A condition requiring the specific approval of the local authority to the detail of the final route of cables through the public road space. If during construction there is a need to deviate from the detailed design then the approval of the local authority would again be sought. This would assist in minimising the impact on the public road.
2. A condition requiring the developer to comply with all appropriate standards and, inter alia the Guidelines for Managing Openings in Public Roads, 2017 in order to ensure orderly development.
3. A condition requiring that the location of the cables would be recorded as exactly as possible (maybe using BIM type technology) so as to facilitate the further use of road space for utilities and the maintenance/construction of the public road by the Roads authority. This record should be lodged with the local authority and with the ESB Networks for retention on their records.
4. A condition requiring the developer to route cables away from bridge structures and specifically preventing the developer from attaching cables to road bridges. This would allow for the future maintenance of bridges without interruption of the electricity supply along the cables.
5. A condition requiring the developer to notify the Roads Authority of the owner of the cables (Owner) and the controller (Power Controller) of the power transmitted along the cables. In addition, the condition should require Owner and Power Controller to notify the Roads Authority of any change in ownership of the cables or change of Power Controller transmitting power along the cables. In all instances the Owner and Power Controller should be required to maintain an agreed contacts list with the Roads Authority.

Yours sincerely,

Jacqui

Jacqui Traynor

Reform, Central Policy and Communications Division



An Roinn Iompair

Department of Transport

Lána Líosain, Baile Átha Cliath, D02 TR60

Leeson Lane, Dublin, D02 TR60

ENVIRONMENTAL PROTECTION AGENCY

Sarah Gallagher

From: Wexford Receptionist <REC_WEX@epa.ie> on behalf of Wexford Receptionist
Sent: Thursday 28 April 2022 14:59
To: Sarah Gallagher
Subject: RE: Firlough Wind Farm, Bonniconlon, Co. Mayo

A Chara,

Your correspondence on April 28th has been forwarded for attention.

Kind Regards,

Ruth O'Connor

Duty Receptionist / Programme Officer | Organisational Services Team
Office of Communications and Corporate Services, Wexford
Fáilteoir ar Dualgas / Oifigeach Cláir | Foireann Seirbhísí Eagraíochtúla
An Oifig Cumarsáide agus Seirbhísí Corparáideacha, Loch Garman



053-9160600 (Direct dial)

info@epa.ie

www.epa.ie



From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Thursday 28 April 2022 14:29
To: Wexford Receptionist <REC_WEX@epa.ie>
Subject: FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Sirs,

Just following up on the below email, could you send back any comments you may have on the attached Firlough Scoping document.

Thanks and Kind Regards,

Sarah.

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Thursday 24 March 2022 15:06
To: info@epa.ie
Cc: Sarah Jones <sjones@jodireland.com>
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Sirs,

Please find attached Scoping Letter and Maps for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

Thanks and Kind regards,

Sarah Gallagher



Head Office

Finisklin Business Park, Sligo, Ireland, F91 RHH9. [MAP](#)

Tel: [+353719161416](tel:+353719161416) Email: sgallagher@jodireland.com Web: www.jodireland.com



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THE HERITAGE COUNCIL

Sarah Gallagher

From: Alison Harvey <aharvey@heritagecouncil.ie> on behalf of Alison Harvey
Sent: Thursday 28 April 2022 17:16
To: sgallagher@jodireland.com
Cc: Ian Doyle; Ger Croke
Subject: RE: [External] FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

Hello Sarah,

Thank you for your reminder email, which has kindly been passed to me by my colleague. Unfortunately, due to busy work commitments, the Heritage Council is unable to respond to the application at this time. I would be grateful if you would place this correspondence on the planning file.

Best

Alison Harvey MIPI

From: Ger Croke <gcroke@heritagecouncil.ie>
Sent: Thursday 28 April 2022 15:38
To: Alison Harvey <aharvey@heritagecouncil.ie>
Cc: Ian Doyle <idoyle@heritagecouncil.ie>
Subject: FW: [External] FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Thursday 28 April 2022 15:28
To: Ger Croke <gcroke@heritagecouncil.ie>
Subject: [External] FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

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Dear Sirs,

I am just following up on the below email, if you have any comments to make on the attached Firlough document.

Thanks and Kind Regards,

Sarah

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Thursday 24 March 2022 15:57
To: mail@heritagecouncil.ie
Cc: Sarah Jones <sjones@jodireland.com>
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Sirs,

Please find attached Scoping Letter and Maps for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

DEVELOPMENT APPLICATIONS UNIT

Sarah Gallagher

From: Housing Manager DAU <Manager.DAU@housing.gov.ie> on behalf of Housing Manager DAU
Sent: Friday 29 April 2022 11:22
To: Sarah Gallagher
Subject: FW: Firlough Wind Farm, Bonniconlon, Co. Mayo
Attachments: 6129 FWF - General Scoping Document March 2022 (003).pdf

Good Morning Sarah,

Please note Development Applications Unit (DAU) is the coordinating unit of the Department.

Original Request was received on the 29th of March, the normal target turnaround for pre-planning and other general consultations is six weeks from date of receipt. In relation to general consultations from public bodies under the European Communities (Environmental Assessment of Certain Plans and Programmes) Regulations 2004 to 2011, the Department endeavours to meet deadline dates, where requested.

If you have not heard from DAU and wish to receive an update, please email manager.dau@housing.gov.ie.

Regards
Diarmuid

Diarmuid Buttimer
Executive Officer

An Roinn Tithíochta, Rialtais Áitiúil agus Oidhreachta
Department of Housing, Local Government and Heritage
Aonad na nIarratas ar Fhorbairt
Development Applications Unit

Oifigi an Rialtais
Government Offices

Bóthar an Bhaile Nua, Loch Garman, Contae Loch Garman, Y35 AP90
Newtown Road, Wexford, County Wexford, Y35 AP90

—
Diarmuid.Buttimer@housing.gov.ie
Manager.DAU@housing.gov.ie

From: Housing Qcsofficer <qcsofficer@housing.gov.ie>
Sent: Friday 29 April 2022 09:36
To: Housing Manager DAU <Manager.DAU@housing.gov.ie>
Subject: FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Manager,

Please see the request below for a pre-application consultation plus attached documents in connection with proposed development for Firlough Wind Farm, Bonniconlon, Co. Mayo.

Kind regards,
Naomi

Naomi Donaldson
Communications

An Roinn Tithíochta, Rialtais Áitiúil agus Oidhreacht
Department of Housing, Local Government and Heritage

Teach an Chustaim, Baile Átha Cliath 1, D01 W6X0
Custom House, Dublin 1, D01 W6X0

www.gov.ie/tithiocht
www.gov.ie/housing

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Thursday 28 April 2022 16:17
To: Housing Qcsofficer <qcsofficer@housing.gov.ie>
Subject: FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Sirs,

I am just following up on the below email, if you have any comments to make on the attached Firlough document.

Thanks and Kind Regards,

Sarah

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Tuesday 29 March 2022 09:55
To: qcsofficer@housing.gov.ie
Cc: Sarah Jones <sjones@jodireland.com>
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Sirs,

Please find attached Scoping Document for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

Thanks and Kind regards,

Sarah Gallagher



Head Office

Finisklin Business Park, Sligo, Ireland, F91 RHH9. [MAP](#)

Tel: [+353719161416](tel:+353719161416) Email: sgallagher@jodireland.com Web: www.jodireland.com



EIR LIMITED

Sarah Gallagher

From: John Bagnall <john.bagnall@eir.ie> on behalf of John Bagnall
Sent: Friday 1 April 2022 16:35
To: Sarah Gallagher
Cc: Sarah Jones; Mobile Networks TXN
Subject: Re: Firlough Wind Farm, Bonniconlon, Co. Mayo

Hi Sarah,

We have no transmission links within the proposed area and it has no risk to the network.
Best of luck with the development.



Kind regards,



John Bagnall
Transmission Design & Engineering

M: +353 85 1053746

E: john.bagnall@eir.ie

Address: EirCode - D24 HX03

On Thu, 24 Mar 2022 at 16:17, Sarah Gallagher <sgallagher@jodireland.com> wrote:

Dear Sirs,

Please find attached Scoping Letter and Maps for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

Thanks and Kind regards,

Sarah Gallagher



Head Office

Finisklin Business Park, Sligo, Ireland, F91 RHH9. [MAP](#)

Tel: [+353719161416](tel:+353719161416) Email: sgallagher@jodireland.com Web: www.jodireland.com



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Ann Kilmartin

From: Peter O'Brien <peter.obrien@enet.ie> on behalf of Peter O'Brien
Sent: Monday, December 5, 2022 11:42 AM
To: Sarah Jones
Cc: Sean Molloy
Subject: RE: FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Sarah,

This won't affect our current network,

Best Regards,
Peter

Peter O'Brien | Licensed Link planner

A: Enet House, National Technology Park, Castletroy, Co Limerick, V946P52

M: +353867744313 | **W:** www.enet.ie



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Investors in
Diversity

BRONZE



From: Sarah Jones <sjones@jodireland.com>
Sent: Monday, December 5, 2022 10:10 AM
To: Peter O'Brien <peter.obrien@enet.ie>
Cc: Sean Molloy <smolloy@jodireland.com>
Subject: FW: FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

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Good morning Peter

Regarding the turbine locations for the Firlough Wind Farm, please see KMZ file attached for review.

Kind regards

Sarah Jones



JENNINGS O'DONOVAN
& PARTNERS LIMITED
CONSULTING ENGINEERS

Head Office

Finisklin Business Park, Sligo, Ireland, F91 RHH9. [MAP](#)
Tel: [+353719161416](tel:+353719161416) Email: sjones@jodireland.com Web: www.jodireland.com



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From: Sarah Jones <sjones@jodireland.com>
Sent: Monday 5 December 2022 10:02
To: Sarah Jones <sjones@jodireland.com>
Subject: Fwd: FW: Firlough Wind Farm, Bonniclon, Co. Mayo

----- Forwarded message -----

From: Sarah Gallagher <sgallagher@jodireland.com>
Date: Tue, 29 Mar 2022 at 15:39
Subject: FW: Firlough Wind Farm, Bonniclon, Co. Mayo
To: Sarah Jones <sjones@jodireland.com>

Hi Sarah,

I received the below email from Enet.

Thanks,

Sarah.

From: Peter O'Brien <peter.obrien@enet.ie>
Sent: Monday 28 March 2022 09:29
To: 'sgallagher@jodireland.com' <sgallagher@jodireland.com>
Subject: RE: Firlough Wind Farm, Bonniclon, Co. Mayo

Hi Sarah,

Can you send the turbine locations in a Google Earth kml file so that I can clash against our own wireless network?

Thanks,

Peter

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Thursday 24 March 2022 16:57
To: Planning <planning@enet.ie>; Gareth.rennicks@enet.ie
Cc: Sarah Jones <sjones@jodireland.com>
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

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Dear Sirs,

Please find attached Scoping Letter and Maps for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

Thanks and Kind regards,

Sarah Gallagher



Head Office
Finisklin Business Park, Sligo, Ireland, F91 RHH9. [MAP](#)

THREE IRELAND (HUTCHISON) LIMITED

Sarah Gallagher

From: Alister Cole <Alister.Cole1@three.ie> on behalf of Alister Cole
Sent: Wednesday 4 May 2022 11:47
To: Sarah Gallagher
Cc: Sean Kelly; DL Estates ROI
Subject: RE: Firlough Wind Farm, Bonniconlon, Co. Mayo

Hi Sarah,

I have reviewed the attached scoping letter and 3Ireland would have no comments to add. Our original response to this proposed development was on 20/04/21 and there have been no changes since.

Best regards,

Alister



Alister Cole
Transmission Engineer

Mobile: 086 6024556
Email: Alister.Cole1@three.ie

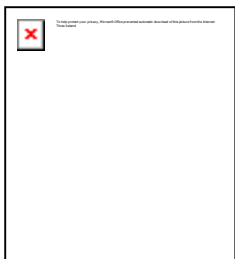
From: Alan Hutchinson <alan.hutchinson@three.ie>
Sent: 29 April 2022 09:50
To: Sarah Gallagher <sgallagher@jodireland.com>; Alister Cole <Alister.Cole1@three.ie>
Cc: Sean Kelly <Sean.Kelly2@three.ie>
Subject: RE: Firlough Wind Farm, Bonniconlon, Co. Mayo

Hi Alister,

One for you to review.

Sarah – can you forward these proposals to Sean and Alister in future as I no longer work in this area.

Thanks,
Alan.



Alan Hutchinson
RAN Programme and Commercial Manager

+353(0) 86 814 5316
alan.hutchinson@three.ie





From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: 28 April 2022 15:51
To: Alan Hutchinson <alan.hutchinson@three.ie>
Subject: FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

CAUTION! External Email.

Dear Sirs,

I am just following up on the below email, if you have any comments to make on the attached Firlough document.

Thanks and Kind Regards,

Sarah

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Thursday 24 March 2022 16:32
To: alan.hutchinson@three.ie
Cc: Sarah Jones <sjones@jodireland.com>
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Sirs,

Please find attached Scoping Letter and Maps for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

Thanks and Kind regards,

Sarah Gallagher



Head Office

Finisklin Business Park, Sligo, Ireland, F91 RHH9. [MAP](#)

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INLAND FISHERIES IRELAND

Sarah Gallagher
Jennings O'Donovan & Partners Limited,
Consulting Engineers,
Finisklin Business Park,
Sligo.



Iascach Intíre Éireann
Inland Fisheries Ireland

2nd May 2022

Re: Environmental Impact Assessment (EIA) Scoping Consultation for Proposed Mercury Renewables (Carrowleagh) Limited (MRCL), Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Ms Gallagher,

Inland Fisheries Ireland (IFI) is the state body responsible for the protection, management and conservation of the inland fisheries and sea angling resource in Ireland. Protection of the aquatic environment and habitat is a vitally important element of IFI's work.

The proposed site crosses numerous watercourses across two fisheries catchments, the Gowlan River which flows into the Easky River catchment and the Glenree River and Owencam River which flow into the Brusna River catchment.

The Easky River is a productive salmon and trout fishery attracting anglers to the area. IFI have provided funding to angling groups along the river to improve access in recent years. The Gowlan River provides salmon, sea trout and brown trout spawning and nursery habitat for the Easky River fishery. The Easky River supports a population of freshwater pearl mussel. Both freshwater pearl mussel and Atlantic salmon are protected under Annex II of the Habitats Directive. The Gowlan River has been allocated good ecological status in the River Basin Management Plan and this status must be protected to comply with the Water Framework Directive.

The Brusna River provides spawning and nursery habitat for salmon, sea trout and brown trout. The Brusna River forms part of the River Moy Special Area of Conservation (SAC) which is designated for the protection of Atlantic salmon, white-clawed crayfish and lamprey species. The proposed site is directly hydrologically connected to this SAC. This catchment is under environmental pressure and salmon stocks have declined below their conservation limit; that is the number of adult salmon returning to the river to spawn, required for a sustainable fishery. As a result the fishery is closed to exploitation from angling. The Glenree River which drains the south of the proposed site has failed to meet its high ecological status objective as required under the Water Framework Directive. This status must be restored from good ecological status to high ecological status. The proposed grid connection will cross the Glenree River and seven additional tributaries within the Brusna River catchment.

The EIS should assess the potential impacts the proposed development may have including, damage to the aquatic and associated riparian habitat, pollution of water, changes to hydrology, introduction of non-native species and interference with upstream and downstream movement of aquatic life. The assessment should include all aspects of the development, which includes the construction of 13 wind turbines, turbine foundations, hardstanding areas, borrow pits, access tracks, electrical substation, hydrogen production plant, grid connection, facilitating works on the public road network and at private properties to accommodate the delivery of turbine components and forestry activity etc.

It is noted that planning is intended to be submitted to An Bord Pleanála as a Strategic Infrastructure Development (SID) project. IFI request the following be assessed as part of the EIA.



1. All watercourses that will receive drainage from the construction site including the turbines or the access roads must be assessed. IFI are satisfied with the proposed Aquatic Ecology electrofishing and invertebrate sampling assessment section of EIAR. IFI request consultation prior to these surveys being carried out to agree sample locations to ensure on-site and downstream impacts are assessed. The electrofishing survey must be quantitative in relation to all fish species present. Appropriate permits for electrofishing must be obtained from the Department of Communications, Energy and Natural Resources. Authorised personnel must ensure that they comply with all the conditions contained in the permit. Surveys of unimpacted (control) streams should also be included in the EIA.
2. A number of watercourses/drains may exist on site which are not marked on the OSI maps and must be subject to the proposed aquatic buffer zone and surveys.
3. There must be no spread of invasive species as a result of the proposed development. A survey for the presence of invasive species should be carried out and a management plan put in place where found.
4. A construction and operational phase water quality and habitat monitoring programme must be put in place. The monitoring of all surface flows during construction is essential and remote sensing equipment should be considered as a normal precaution and extended into the post construction phase.
5. The riparian habitat is integral to the functioning of the aquatic environment. The potential impacts of the development on the riparian habitat should be assessed. Adequately sized aquatic buffer zones must be established along all watercourses. IFI recommends a minimum width of 15metres from a minor watercourse to low risk parts of the construction site with larger buffer zones required for more sensitive habitats and higher risk operations eg. 50m from a turbine.
6. Groundwater vulnerability ranges from low to high across the site. The location of turbines and main construction works must avoid high groundwater vulnerability areas.
7. A detailed geotechnical survey must be carried out and the potential for soil movement and landslides should be assessed fully for all areas of the site and all proposed activities including borrow pits, peat deposition sites, settlement ponds, turbines and access roads. The impact these works will have either directly or by vibration on the stability of the soils should be assessed.
8. Assessment of the impacts on the hydrology of the site must be carried out particularly where excavations including excavations for road construction are being proposed. The natural hydrology of the proposed site has been modified to facilitate the extraction of peat. It is important that watercourses/drains are not interrupted or diverted in such a manner as to give rise to erosion. The proposed site crosses two catchments, there must be no diversion of waters from one catchment into another. Consideration should be afforded to the likely increase in surface water flow from the site which has the potential to alter the downstream prevailing hydrological regime and impact on the fisheries resource. In this regard attenuation measures should be identified and implemented in the surface water drainage plan. Consideration should be given to rewetting of the existing peatland to mitigate hydrological impacts of the development.



9. The impact of site drainage must be assessed including the pumping of waters from excavations such as turbine excavations. Settlement ponds and other silt treatment/mitigation measures must be engineered to ensure sufficient retention times are provided for sediment settlement. The silt traps should be designed to minimise the movement of silt especially during intense precipitation events where silt traps maybe hydraulically overloaded. It is essential that they are located with good access to facilitate monitoring, sampling and maintenance.
10. Watercourse crossings existing on site or along the proposed delivery routes must be assessed to determine if works will be required to facilitate site access and the potential impacts of such works. The locations and design of any proposed new watercourse crossings should be provided. IFI requests consultation in relation to the design; length, slope and width of any instream structure, temporary or permanent. Clear span structures such as Bailey bridges should be used where possible. There must be no negative impact on fish passage as a result of the proposed development.
11. An assessment of the site transport routes must be carried out to identify any bridge or culvert replacement or improvement works. Including temporary modifications to facilitate turbine delivery to site.
12. All instream works or other works which may impact directly on a watercourse should only be carried out during the open season which is from 1st July to 30th of September (so as to avoid impacting on the aquatic habitat during the spawning season.) It would be important that this is included in the contract for construction.
13. It is recommended that a suitably qualified person be on site for the duration of works to ensure:
 - All mitigation measures identified are implemented prior to and during the construction phase, as appropriate. This is essential in relation to possible peat shear
 - Continual assessment to ensure the mitigation measures are effective including assessment of adjacent peats for cracking/instability.
 - Cessation of works should slippage indicators develop and/or settlement arrangements are inadequate for suspended solid removal in surface waters.
 - Peat reinstatement is completed according to a detailed restoration plan.
 - Arrangements are established in relation to a contact protocol for the relevant statutory bodies on progress of works.
14. The IFI publication: Requirements for the Protection of Fisheries Habitat during Construction and Development Works at River Sites should be followed. <https://www.fisheriesireland.ie/documents/624-guidelines-on-protection-of-fisheries-during-construction-works-in-and-adjacent-to-waters/file.html>
15. The principles of Sustainable Drainage Systems should be incorporated into the site design. IFI request that green infrastructure features are used to attenuate surface water drainage from the proposed hydrogen production and substation facilities, such as the inclusion of swales, permeable paving/car park surfacing and green roofs, as required. These measures will filter surface waters, reduce stormwater runoff rates and improve flood alleviation.



**Iascach Intíre Éireann
Inland Fisheries Ireland**

16. Details of any water abstraction requirement for the proposed hydrogen production plant must be provided and the potential impacts on the catchment surface water and groundwater hydrology must be assessed.

In summary IFI request the following to be addressed:

- Water quality
- Surface water hydrology
- Fish spawning and nursery areas
- Passage of migratory fish
- Areas of natural heritage importance
- Biological diversity, ecosystem structure and functioning
- Sport and commercial fishing and angling
- Sediment transport

IFI looks forward to further consultation in relation to this development in due course.

Yours sincerely

Aisling Donegan
Senior Fisheries Environmental Officer

jod-f-wf-h-0222

IRISH WILDLIFE TRUST

Sarah Gallagher

From: Kieran Flood <kieran.flood@iwt.ie> on behalf of Kieran Flood
Sent: Thursday 28 April 2022 17:32
To: Sarah Gallagher
Cc: IWT Enquiries
Subject: Re: FW: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Sarah,

We do not have the capacity to review this document.
So I'm afraid we cannot comment.

Regards,
Kieran

On Thu, 28 Apr 2022 at 17:16, Sarah Gallagher <sgallagher@jodireland.com> wrote:

Dear Sirs,

I am just following up on the below email, if you have any comments to make on the attached Firlough document.

Thanks and Kind Regards,

Sarah

From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Tuesday 29 March 2022 10:21
To: enquiries@iwt.ie
Cc: Sarah Jones <sjones@jodireland.com>
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

Dear Sirs,

Please find attached Scoping Document for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

THE IRISH AVIATION AUTHORITY (IAA)

Sarah Gallagher

From: Catherine Maguire <info@jodireland.com> on behalf of Catherine Maguire
Sent: Friday 8 April 2022 16:50
To: sjones@jodireland.co; Sarah Gallagher
Subject: FW: FIRLOUGH WIND FARM

Kind Regards

Catherine

From: O'LEARY Geraldine <Geraldine.O'LEARY@IAA.ie>
Sent: Friday 8 April 2022 12:10
To: info@jodireland.com
Subject: FIRLOUGH WIND FARM

Re: Furlough Wind Farm

Dear Sir/Madam

Thank you for your scoping report in relation to the proposed Firlough Wind Farm to be located at Bonniclon, Co. Mayo.

The development appears to be approximately 28km South West of Sligo Airport. As such, it is recommended that the developer engage directly with Sligo airport to make them aware of the proposal and complete a preliminary screening assessment from an aviation safety perspective.

It is likely that the following general observations would be proffered by the Authority during a formal planning process: In the event of planning consent being granted, the applicant should be conditioned to contact 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 blade tip height elevations at each wind turbine location and (3) notify the Authority of intention to commence crane operations with at least 30 days prior notification of their erection.

Yours sincerely,

Deirdre Forrest
Corporate Affairs

=====
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Sarah Gallagher

From: Matthew Craig <matthew.craig@2rn.ie> on behalf of Matthew Craig
Sent: Thursday 31 March 2022 17:06
To: Sarah Gallagher
Cc: Sarah Jones; windfarms@rte.ie; Johnny Evans
Subject: RE: Firlough Wind Farm, Bonniconlon, Co. Mayo
Attachments: RE: 6129 Proposed Firlough Wind Farm Bonniconlon Co. Mayo - Telecoms Sco... (32.1 KB)

Hi Sarah,

The nearest off air path that we have is 1900m away so there is no problem there.

There is however a risk of interference to broadcast services to the south west of the proposed site for those receiving from Truskmore.

We would therefore ask that a protocol be signed between the Developer and 2rn should the site go ahead.

We answered an enquiry from Seam Molloy about the same site in April '21 is there anything that has changed?

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: Sarah Gallagher <sgallagher@jodireland.com>
Sent: Tuesday 29 March 2022 10:23
To: windfarms@rte.ie; Matthew Craig <matthew.craig@2rn.ie>
Cc: Sarah Jones <sjones@jodireland.com>
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

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Dear Sirs,

Please find attached Scoping Document for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

Thanks and Kind regards,

Sarah Gallagher

VIRGIN MEDIA TELEVISION

Sarah Gallagher

From: Paul Driver <Paul.Driver@virginmedia.ie> on behalf of Civils
Sent: Friday 25 March 2022 15:53
To: Sarah Gallagher
Subject: RE: Firlough Wind Farm, Bonniconlon, Co. Mayo

Sarah

I refer to your query of 24th March about the above location. Virgin Media does not have any record of underground services at this location as indicated by your drawing.

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Regards,

Paul Driver | *Plant Protection Officer*
Construction Office - Team Lead
Virgin Media | Unit 7, Westgate Business Park, Ballymount, Dublin 24.
T: +353 (01) 2458586 | M: +353 (0)87 6287133
E: civils@virginmedia.ie | paul.driver@virginmedia.ie



From: Sarah Gallagher <sgallagher@jodireland.com>
Sent: 24 March 2022 16:36
To: VMTV info <VMTVinfo@virginmedia.ie>; Paul Driver <Paul.Driver@virginmedia.ie>
Cc: Sarah Jones <sjones@jodireland.com>
Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

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Dear Sirs,

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Please find attached Scoping Letter and Maps for your consideration.

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We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

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Thanks and Kind regards,

VODAFONE

Sarah Gallagher

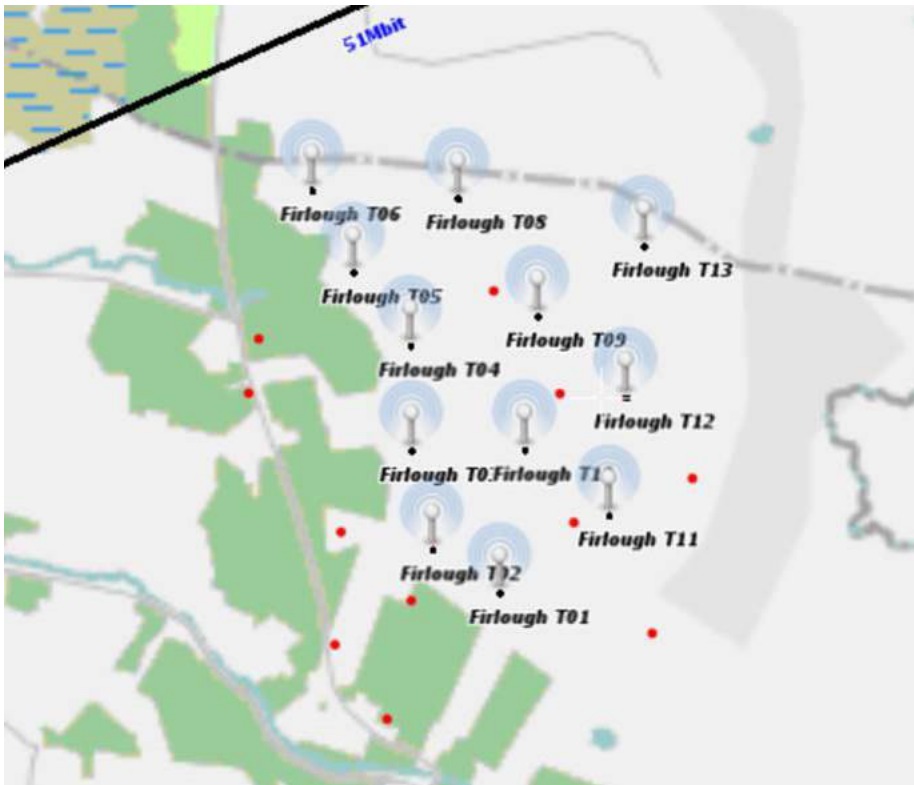
From: Lyons, Sean, Vodafone (External) <sean.lyons@vodafone.com> on behalf of Lyons, Sean, Vodafone (External)
Sent: Tuesday 29 March 2022 10:23
To: Sarah Gallagher; Byrne, Gavin, Vodafone; Byrne, Fiona, Vodafone (External)
Cc: Sarah Jones
Subject: RE: Firlough Wind Farm, Bonniclon, Co. Mayo

Hi Sarah,

This proposed development looks to be fine.

Link to NorthWest is SO037 SSE Kingsmountain (ONB) (54.2035, -8.8055) – MOBLA Ballina (54.1094, -9.1653)

If any turbine locations, or size changes, we would need to review.
We require minimum 30m from blade tip to Fresnel zone of the link.



Thanks,

Seán Lyons

Transmission Program Manager
Converged Transmission
Technology- NET
+353877758117
sean.lyons@vodafone.com



Together We Can!

Vodafone Ireland Limited, Registered Office:
MountainView, Leopardstown, Dublin 18,

C2 General

From: Sarah Gallagher <sgallagher@jodireland.com>

Sent: Thursday 24 March 2022 16:43

To: Lyons, Sean, Vodafone (External) <sean.lyons@vodafone.com>; Byrne, Gavin, Vodafone <gavin.byrne@vodafone.com>; Byrne, Fiona, Vodafone (External) <fiona.byrne2@vodafone.com>

Cc: Sarah Jones <sjones@jodireland.com>

Subject: Firlough Wind Farm, Bonniconlon, Co. Mayo

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Dear Sirs,

Please find attached Scoping Letter and Maps for your consideration.

We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

Thanks and Kind regards,

Sarah Gallagher



Head Office

Finisklin Business Park, Sligo, Ireland, F91 RHH9. [MAP](#)

Tel: [+353719161416](tel:+353719161416) Email: sgallagher@jodireland.com Web: www.jodireland.com



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TETRA IRELAND

Sarah Gallagher

From: Thomas Barry <Tom.Barry@TETRAIRELAND.IE> on behalf of Thomas Barry
Sent: Tuesday 12 April 2022 07:57
To: Sarah Gallagher
Cc: Sarah Jones
Subject: RE: EXTERNAL MAIL:- Firlough Wind Farm, Bonniclon, Co. Mayo

Sarah,

We anticipate no impact from the development as proposed, can you ensure the development is also reviewed by eir.

Regards,
Tom

From: Sarah Gallagher [mailto:sgallagher@jodireland.com]
Sent: Thursday 24 March 2022 17:05
To: Thomas Barry
Cc: Sarah Jones
Subject: EXTERNAL MAIL:- Firlough Wind Farm, Bonniclon, Co. Mayo

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Dear Sirs,
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Please find attached Scoping Letter and Maps for your consideration.

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We would be grateful if you could revert with any comments you may have on the proposed development at your earliest convenience.

??

Thanks and Kind regards,

Sarah Gallagher



??

Head Office

Finisklin Business Park, Sligo, Ireland, F91 RHH9.?? [MAP](#)

Tel: [+353719161416](tel:+353719161416)????????????? Email: sgallagher@jodireland.com Web: www.jodireland.com



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SLIGO AIRPORT

Sean Molloy

From: sxl@iol.ie
Sent: Tuesday 3 January 2023 12:12
To: 'Sean Molloy'; 'Brendan Murphy'
Cc: 'Sarah Jones'
Subject: RE: Proposed Firlough Wind Farm at Carrowleagh Townland, Bonniconlon, Co. Mayo.

Sean

That's perfect and many thanks for copying me in.

Very happy with this and hope the process goes well for you.

Joe

From: Sean Molloy <smolloy@jodireland.com>
Sent: Tuesday 3 January 2023 12:09
To: sxl@iol.ie; Brendan Murphy <safetymanager@sligoairport.com>
Cc: Sarah Jones <sjones@jodireland.com>
Subject: RE: Proposed Firlough Wind Farm at Carrowleagh Townland, Bonniconlon, Co. Mayo.

Hi Joe,

I hope you had a nice Christmas and Happy New Year.

Please see attached a copy of the aeronautical study completed by ASAP for your consideration.

The conclusion states that **'the Firlough wind farm will not affect the flight procedures at Sligo airport'**.

Could you please confirm that Sligo Airport is satisfied with the findings of the study and that no further studies are required?

Kind Regards,

Sean Molloy.

B. Eng. M. Sc. CEng MIEI Dip. PM



Head Office

Finisklin Business Park, Sligo, Ireland, F91 RHH9. [MAP](#)

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From: xml@iol.ie <xml@iol.ie>
Sent: Friday 9 December 2022 17:17
To: 'Sean Molloy' <smolloy@jodireland.com>; 'Brendan Murphy' <safetymanager@sligoairport.com>
Cc: 'Sarah Jones' <sjones@jodireland.com>
Subject: RE: Proposed Firlough Wind Farm at Carrowleagh Townland, Bonniconlon, Co. Mayo.

Hello Sean

We have reviewed the preliminary information and I can confirm that due to the location and hub heights of the proposed Turbines, an assessment of the Sligo Airport Runway 10 RNP Instrument Flight Procedures will be necessary. The company that designed these procedures are ASAP in Bratislava and their e-mail contact is asap@asap.sk. They are the approved company of the Irish Aviation Authority in regard to this type of work so they will advise you on next steps,

Joe

From: Sean Molloy <smolloy@jodireland.com>
Sent: Thursday 8 December 2022 12:39
To: Joe Corcoran <xml@iol.ie>; Brendan Murphy <safetymanager@sligoairport.com>
Cc: Sarah Jones <sjones@jodireland.com>
Subject: RE: Proposed Firlough Wind Farm at Carrowleagh Townland, Bonniconlon, Co. Mayo.

Hi Brendan & Joe,

I hope this email finds you well.

We are currently working on a planning application for the above project and I would be grateful if you could review it with respect to any potential impact on the operation of Sligo Airport.

The wind turbine will have a maximum blade tip height of 185 metres (hub height of 107.5 metres and a rotor diameter of 155 metres).

I have attached a Google Earth KMZ file with the proposed locations of the wind turbines and an excel file of their coordinates in the ITM coordinate system.

Kind Regards,

Sean Molloy.

B. Eng. M. Sc. CEng MIEI Dip. PM



Head Office

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