



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

APPENDIX 1

INTRODUCTION

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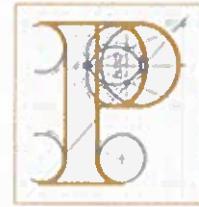
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APPENDIX 1.1

SID Determination and Meeting Minutes



An
Coimisiún
Pleanála

FEHILY TIMONEY & Co.

Distribution RN/1H

09 SEP 2025

Job No: P22-145

Correspondence No:

Comment:

Fehily Timoney and Company
Core House
Pouladuff Road
Co. Cork
T12 D773

Date: 08 September 2025

Re: Proposed development of a 9 no. wind turbine renewable energy project and 110kV on site substation
In the townlands of Cushina, Clonsast Lower and Chevychase or Derrynadarragh near Bracknagh, in
County Offaly and the townlands of Aughrim and Derrylea near Monastervin in County Kildare

Dear Sir / Madam,

Please be advised that following consultations under section 37B of the Planning and Development Act, 2000 as amended, the Commission hereby serves notice under section 37B(4)(a) that it is of the opinion that the proposed development falls within the scope of paragraphs 37A(2)(a), (b) and (c) of the Act. Accordingly, the Commission has decided that the proposed development would be strategic infrastructure within the meaning of section 37A of the Planning and Development Act 2000, as amended. Any application for permission for the proposed development must therefore be made directly to An Coimisiún Pleanála under section 37E of the Act.

Please also be informed that the Commission considers that the pre-application consultation process in respect of this proposed development is now closed. You are advised that the provisions of the REDIII Directive (2023/2413) were transposed by SI 274/2025 – European Union (Planning and Development) (Renewable Energy) Regulations 2025 and that any new strategic infrastructure development renewable energy related applications must conform with the requirements which are now in place as set out in the Regulations. Furthermore, mandatory EIA scoping provisions will come into effect on the 1st October 2025.

Attached is a list of prescribed bodies to be notified of the application for the proposed development.

1. Minister for Housing, Local Government and Heritage
2. Minister for Agriculture, Food, Fisheries and the Marine
3. Minister for the Climate, Environment and Energy
4. Minister for Enterprise, Tourism and Employment
5. Minister for Arts, Media, Communication, Culture and Sport
6. Laois County Council.
7. Kildare County Council
8. Offaly County Council
9. Eastern and Midland Regional Assembly

Teil Giao Áitiúil Facs Láithreán Gréasáin Riomhphost	Tel LoCall Fax Website Email	(01) 858 8100 1800 275 175 (01) 872 2684 www.leanala.ie communications@leanala.ie
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64 Sráid Maoilbhride
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Dublin 1
D01 V902

10. Transport Infrastructure Ireland.
11. An Taisce
12. An Chomhairle Ealaíon
13. Fáilte Ireland
14. The Heritage Council
15. National Parks & Wildlife Service
16. Inland Fisheries Ireland
17. Irish Water
18. Irish Aviation Authority
19. Health Service Executive
20. Commission for Regulation of Utilities
21. Office of Public Works

Further notifications should also be made where deemed appropriate.

In accordance with section 146(5) of the Planning and Development Act, 2000 as amended, the Commission will make available for inspection and purchase at its offices the documents relating to the decision within 3 working days following its decision. This information is normally made available on the list of decided cases on the website on the Wednesday following the week in which the decision is made.

The following information relates to challenges to the validity of a decision of An Coimisiún Pleanála under the provisions of the Planning and Development Act 2000, as amended.

Judicial review of An Coimisiún Pleanála decisions under the provisions of the Planning and Development Acts (as amended).

A person wishing to challenge the validity of a Commission decision may do so by way of judicial review only. Sections 50, 50A and 50B of the Planning and Development Act 2000 (as substituted by section 13 of the Planning and Development (Strategic Infrastructure) Act 2006, as amended/substituted by sections 32 and 33 of the Planning and Development (Amendment) Act 2010 and as amended by sections 20 and 21 of the Environment (Miscellaneous Provisions) Act 2011) contain provisions in relation to challenges to the validity of a decision of the Commission.

The validity of a decision taken by the Commission may only be questioned by making an application for judicial review under Order 84 of The Rules of the Superior Courts (S.I. No. 15 of 1986). Sub-section 50(7) of the Planning and Development Act 2000 requires that subject to any extension to the time period which may be allowed by the High Court in accordance with subsection 50(8), any application for judicial review must be made within 8 weeks of the decision of the Commission. It should be noted that any challenge taken under section 50 may question only the validity of the decision and the Courts do not adjudicate on the merits of the development from the perspectives of the proper planning and sustainable development of the area and/or effects on the environment. Section 50A states that leave for judicial review shall not be granted unless the Court is satisfied that there are substantial grounds for contending that the decision is invalid or ought to be quashed and that the applicant has a sufficient interest in the matter which is the subject of the application or in cases involving environmental impact assessment is a body complying with specified criteria.

Teil	Tel	(01) 858 8100
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Section 50B contains provisions in relation to the cost of judicial review proceedings in the High Court relating to specified types of development (including proceedings relating to decisions or actions pursuant to a law of the state that gives effect to the public participation and access to justice provisions of Council Directive 85/337/EEC i.e. the EIA Directive and to the provisions of Directive 2001/12/EC i.e. Directive on the assessment of the effects on the environment of certain plans and programmes). The general provision contained in section 50B is that in such cases each party shall bear its own costs. The Court however may award costs against any party in specified circumstances. There is also provision for the Court to award the costs of proceedings or a portion of such costs to an applicant against a respondent or notice party where relief is obtained to the extent that the action or omission of the respondent or notice party contributed to the relief being obtained.

General information on judicial review procedures is contained on the following website, www.citizensinformation.ie.

Disclaimer: The above is intended for information purposes. It does not purport to be a legally binding interpretation of the relevant provisions, and it would be advisable for persons contemplating legal action to seek legal advice.

If you have any queries in the meantime, please contact the undersigned officer of the Commission or email sids@pleanala.ie quoting the above mentioned An Coimisiún Pleanála reference number in any correspondence with the Commission.

Yours faithfully,

Lauren Murphy
Lauren Murphy
Executive Officer
Direct Line: 01-8737275

ADHOC

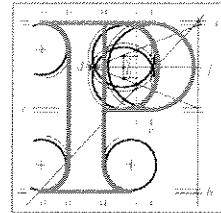
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Our Case Number: ABP-320137-24

Your Reference: Dara Energy Limited



An
Bord
Pleanála

Fehily Timoney and Company
Core House
Pouladuff Road
Cork
Co. Cork
T12 D773

FEHILY TIMONEY & Co.

Distribution JH /RN

03 OCT 2024

Job No: P22145

Correspondence No: 1

Comment:

Date: 02 October 2024

Re: Proposed development of a 9 no. wind turbine renewable energy project and 110kV on site substation

In the townlands of Cushina, Clonsast Lower and Chevychase or Derrynadarragh near Bracknagh, in County Offaly and the townlands of Aughrim and Derrylea near Monastervin in County Kildare

Dear Sir / Madam,

I have been asked by An Bord Pleanála to refer further to the above-mentioned pre-application consultation request.

Please find enclosed a copy of the written record of the meeting of the 11th September 2024.

If you have any queries in relation to the matter please contact the undersigned officer of the Board.

Please quote the above-mentioned An Bord Pleanála reference number in any correspondence or telephone contact with the Board.

Yours faithfully,

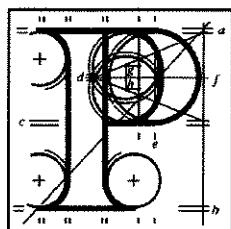
PP DC
Ellen Moss
Executive Officer
Direct Line: 01-8737285

PC07

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Ríomhphost	Email	bord@leanala.ie

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D01 V902



An
Bord
Pleanála

Record of 1st Meeting
ABP-320137-24

Case Reference / Description	Proposed development of a 9 no. wind turbine renewable energy project and 110kV on site substation, in the townlands of Cushina, Clonsast Lower and Chevychase or Derrynadarragh near Bracknagh, in County Offaly and the townlands of Aughrim and Derrylea near Monastervin in County Kildare		
Case Type	Pre-application consultation		
1st / 2nd / 3rd / 4th Meeting	1 st Meeting		
Date	11 th September 2024	Start Time	11:00am
Location	MS Teams	End Time	11:45am

Representing An Bord Pleanála

Una Crosse (Assistant Planning Director) Chair

Laura Finn (Senior Planning Inspector)

Lauren Murphy (Executive Officer)

Representing the Prospective Applicant

Nicholas Lyons, Dara Energy Limited

Damien Courtney, Dara Energy Limited

John Crean, Dara Energy Limited

Austin Coughlan, Dara Energy Limited

Jim Hughes, Fehily Timoney

Robyn Nicholl, Fehily Timoney

Patrick Crushell, Ecologist

Introduction

The Board referred to the letter received from the prospective applicant on the 9th July 2024, requesting pre-application consultations under section 37E of the Planning and Development Act 2000, as amended, and advised the prospective applicant that the instant meeting essentially constituted an information-gathering exercise for the Board; it also invited the prospective applicant to outline the nature of the proposed development and to highlight any matters that it wished to receive advice on from the Board. The Board's representatives mentioned the following general procedures in relation to the pre-application consultation process:

- The Board will keep a record of this meeting and any other meetings, if held. Such records will form part of the file which will be made available publicly at the conclusion of the process. The record of the meeting will not be amended by the Board once finalised, but the prospective applicant may submit comments on the record which will form part of the case file.
- The Board will serve notice at the conclusion of the process as to the strategic infrastructure status of the proposed development. It may form a preliminary view at an early stage in the process on the matter.
- A further meeting or meetings may be held in respect of the proposed development.
- Further information may be requested by the Board and public consultations may also be directed by the Board.
- The Board may hold consultations in respect of the proposed development with other bodies.
- The holding of consultations does not prejudice the Board in any way and cannot be relied upon in the formal planning process or in any legal proceedings.

Presentation made by the prospective applicant:

The prospective applicant provided a presentation to the Board's representatives in respect of the proposed development. This presentation has been placed on the file.

The prospective applicant concluded the meeting presentation by discussing next steps they intend to take, and if no further pre application meeting is required they intend to seek closure of this pre application consultation.

Discussion:

- The Boards representatives began the discussion by raising a question in relation to the purpose of the proposed bridge development crossing the Cushina River. The prospective applicant clarified that the purpose of this bridge crossing will be used as a Turbine Delivery Route during the construction phase and thereafter as access to the proposed site during the operational stage.
- The Boards representatives sought clarity on any consultations that had been undertaken with prescribed bodies in relation to the proposed bridge crossing with the prospective applicant clarifying that they propose to consult with the Office of Public Works (OPW) and Inland Fisheries Ireland (IFI). The prospective applicant stated that they have carried out flood risk assessments which will make up part of their Natura Impact Statement as part of their planning application.
- The prospective applicant stated that their design team will assess the proposed bridge and propose a method of construction to comply with the guidelines set out by the OPW and IFI and will obtain the necessary licences. They will also include a comprehensive construction methodology report as part of their Environmental Impact Assessment.

- The Boards representatives note that there are two proposed substations associated with the proposed development and questioned the rationale for same. The prospective applicant clarified that the Brathlone 110kV substation is already permitted, however it has not yet been constructed and the proposed 110kV substation located on site would be constructed and handed over to EirGrid to become part of the network. Cumulative impacts of the Brathlone substation development will be identified with the EIAR.
- The prospective applicant clarified that at this stage it was proposed to submit one EIAR in respect of both the proposed wind energy and grid connection infrastructure.
- The prospective applicant queries if the proposed 110kV substation could be submitted as part of the Wind Farm development application under Section 37B of the Planning and Development Act 2000, as amended. The Board representatives noted that the Board had previously accepted applications that incorporated both wind energy and grid connection infrastructure under s.37, however the final decision on the most appropriate way in which to present such applications lies with the prospective applicant informed by their own advice.
- The prospective applicant outlined that they have consulted with EirGrid and presented them will assessments and studies carried out to date. EirGrid will not provide a formal grid connection offer until planning permission for the proposed development has been approved. However, the prospective applicant stated that as a preliminary view based on consultations undertaken with EirGrid, there is currently capacity to connect the proposed development to the Brathlone 110kV substation.
- The prospective applicant clarified that there are multiple landowners but are unsure of the exact figure but c. 6-10 landowners.

- The Board's representatives gave their preliminary opinion that the proposed development falls within the scope of Strategic Infrastructure Development but stated that the final determination is a matter for the Board.

Conclusion:

The Board's representatives advised that the onus is on the prospective applicant to either request a further meeting or formal closure of the pre-application consultation process. The Board's representatives advised that the record of the meeting will be issued in the meantime and that the prospective applicant can submit any comments they may have in writing or alternatively bring any comments for discussion at the time of any further meeting.

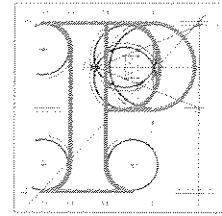
The Meeting concluded at 11:45am.

A handwritten signature in black ink, appearing to read "Una Crosse". The signature is fluid and cursive, with a horizontal line underneath the name.

Una Crosse

Assistant Director of Planning

Our Case Number: ABP-320137-24
Your Reference: Dara Energy Limited



An
Bord
Pleanála

Fehily Timoney and Company
Core House
Pouladuff Road
Cork
Co. Cork
T12 D773

FEHILY TIMONEY & Co.

Distribution JH/RN

15 JAN 2025

Job No:

P22-145

Correspondence No:

2

Comment:

Date: 13 January 2025

Re: Proposed development of a 9 no. wind turbine renewable energy project and 110kV on site substation

In the townlands of Cushina, Clonsast Lower and Chevychase or Derrynadarragh near Bracknagh, in County Offaly and the townlands of Aughrim and Derrylea near Monastervin in County Kildare

Dear Sir / Madam,

I have been asked by An Bord Pleanála to refer further to the above-mentioned pre-application consultation request.

Please find enclosed a copy of the written record of the meeting of the 12th December 2024.

If you have any queries in relation to the matter please contact the undersigned officer of the Board.

Please quote the above-mentioned An Bord Pleanála reference number in any correspondence or telephone contact with the Board.

Yours faithfully,

PPD
Lauren Murphy
Executive Officer
Direct Line: 01-8737275

PC07

FEHILY TIMONEY & Co.

Distribution

15 JAN 2025

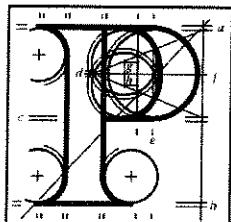
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Comment:

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Láithreán Gréasáin	Website	www.leanala.ie
Ríomhphost	Email	bord@leanala.ie

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D01 V902 D01 V902



An
Bord
Pleanála

Record of Meeting

ABP-320137-24

Case Reference / Description	Proposed development of a 9 number wind turbine renewable energy project and 110kV on site substation in the townlands of Cushina, Clonsast Lower and Chevychase or Derrynadarragh near Bracknagh, in County Offaly and the townlands of Aughrim and Derrylea near Monastervin in County Kildare.		
Case Type	Pre-application consultation		
1st / 2nd / 3rd / 4th Meeting	3 rd Meeting		
Date	12/12/2024	Start Time	11:00am
Location	MS Teams	End Time	11:10am

Representing An Bord Pleanála
Una Crosse, Assistant Director of Planning (Chair)
Laura Finn, Senior Planning Inspector
Lauren Murphy, Executive Officer

Representing the Prospective Applicant
Robyn Nicholl, Fehily Timoney
Nicholas Lyons, Dara Energy Limited
Maria Fitzgerald, Dara Energy Limited

Introduction

The Board welcomed the prospective applicant to the meeting and introduced those attending from the Board. The Board gave the prospective applicant an opportunity to introduce its team.

The Board referred to the letter received from the prospective applicant on the 22nd November 2024 requesting a third pre-application consultation meeting under section 37B of the Planning and Development Act 2000, as amended.

Presentation made by the prospective applicant:

The prospective applicant began the presentation by advising the Boards representatives that following from legal advice they received, they do not intend on seeking a design flexibility opinion on the proposed wind turbine or the grid connection aspect of the proposed development.

The prospective applicant advised that the proposed development is intended to consist of 9 number wind turbines, the wind turbine specification proposed was set out in the presentation.

The prospective applicant concluded the presentation by providing a brief overview of the proposed grid connection aspect of the development which will involve the construction of a new onsite 110kV substation with a 110kV underground cable connecting to the Bracklone Substation, which is currently under construction.

Discussion:

- The Boards representatives began the discussion by noting that the prospective applicant has clarified that they do not wish to seek a design flexibility opinion on the proposed development.
- The Boards representatives asked the prospective applicant to clarify if the proposed locations of the wind turbines have been altered since the first meeting. The prospective applicant advised that the proposed turbine locations have not been altered.

- The representatives of the Board asked the prospective applicant to provide an update on their consultations with relevant bodies. The prospective applicant informed the Board's representatives that they had distributed an Environmental Impact Assessment Report scoping document to all parties consulted on the 12th December 2024, with a deadline of February 2025 for responses and feedback to be submitted.
- The Boards representatives advised the prospective applicant that consultations with the Inland Fisheries Ireland (IFI) and the Office of Public Works (OPW) would be advisable prior to submitting the application to address any issues or concerns they may have in relation to the proposed development, and particularly the bridge crossing, which was discussed in the first meeting.
- The prospective applicant explained that the purpose of the third pre-application meeting was to clarify their intention to submit a single turbine option and a single grid route option as part of their application for the proposed development. However, they informed the Boards representatives that they do not plan to conclude the pre-application process until they have finalized the proposal description.

Conclusion:

The Board's representatives advised that the onus is on the prospective applicant to either request a further meeting or formal closure of the instant pre-application consultation process. The Board's representatives advised that the record of the instant meeting will be issued in the meantime and that the prospective applicant can submit any comments it may have in writing or alternatively bring any comments for discussion at the time of any further meeting.

The Meeting concluded at 11:10.



Una Crosse

Assistant Director of Planning

APPENDIX 1.2

Curriculum Vitae



Jim Hughes

Director of Energy & Planning

Profile

Jim Hughes is the Director responsible for the Energy and Planning Department. Jim has a BA in Public Administration (Development) from the University of Limerick, a Masters in Town Planning from Queens University Belfast and a Diploma in EIA/SEA Management from University College Dublin. Jim is also a member of the Irish Planning Institute.

Jim is a Qualified Town and Environmental Planner with over 20 years post qualification planning experience in both the private and public sector. He has extensive experience in providing strategic level advice to clients and negotiating with and presenting to local authorities. Jim has experience in the management and coordination and the preparation of planning applications, masterplans and Environmental Impact Statements for large scale infrastructure projects throughout Ireland. He has specific experience in the renewable energy sector. Jim has represented clients on planning enforcement matters and as expert witness at oral hearings. He is also experienced in peer review and preparation of independent planning assessments and appraisals on behalf of clients.

Key Skills

Jim's experience includes:

- Project Director for multiple renewable energy projects throughout Ireland
- Lead planning consultant for major road infrastructure projects and waste projects.
- Highly qualified and experience in Irish and European planning and environmental law.
- Over 19 years as an IPI accredited Town Planner
- Acted as expert witness at ABP Oral Hearings and in Judicial Review Hearings and High Court Cases.
- Extensive experience in Offshore Renewable Energy delivery.

Previous Experience Essentials for This Project

2024

- Project Director for Long Duration Energy Storage Projects.
- Project Director on multiple wind farm projects for a variety of clients.
- Project Director on multiple solar farm projects for a variety of clients.
- Providing strategic planning advice across the Business on Road and Waste Projects.
-

2023

- Project Director on the Shemmalare Offshore Wind Farm delivering the Environmental and Planning Consultancy aspects of the project.
- Project Director on EIA Scoping and Foreshore license applications for multiple offshore renewable energy projects
- Project Director on the SEA and AA of the Eirgrid Grid Implementation Plan 2023.
- Project Director on multiple onshore Solar Farms
- Project Director on multiple onshore Wind Farms
- Project Director on onshore Battery Storage Energy Systems

Key Information

Qualifications

BA in Public Administration (Development), University of Limerick (2002)

MSc. Town Planning, Queens University Belfast (2004)

Diploma in EIA/SEA Management, University College Dublin (2008)

Professional Memberships

Member of the Irish Planning Institute
FConSEI - ACEI FELLOW
PROFESSIONAL CONSULTING ENGINEERS

Employment History

2020 – Present

Fehily Timoney & Company

Director

2017 – 2020

Fehily Timoney & Company

Associate Director

2015- 2017

Fehily Timoney & Company
Senior Planner

2007 – 2015

Cunnane Stratton Reynolds (SCR)
Senior Planner

2004 – 2007

Cork County Council
Area Planner



Jim Hughes

Director of Energy & Planning



2022

- Project Director Annagh Wind Farm, Co. Cork
- Project Director Ballinagree Wind Farm, Co. Cork
- Project Director Barnadivane Wind Farm, Co. Cork
- Project Director Fahy Beg Wind Farm, Co. Clare
- Project Director Multiple Solar farm planning projects
- Project Director for a portfolio of 4 no. Synchronous Compensator units.

2020

- Project Director for Croaghaun Wind Farm, Co. Carlow
- Project Director for Coom Green Energy Park, Co. Cork
- Project Director for multiple solar farm planning applications
- Project Director for Dernacart Wind Farm, Co. Laois

2019

- Project Director on the Kipaddogue Peaking Plant ancillary grid infrastructure development, Co. Kerry. Planning Strategy and Environmental Report
- Project Director on a 12 wind turbine development in Co. Kildare, Drehid Wind Farm.
- Project Director on the carrying out of masterplan and feasibility assessment on brownfield industrial sites in Nenagh and Roscrea on behalf of Zinc Properties
- Project Director on up to 10 Solar Farms
- Portfolio management of Shannon Commercial Properties portfolio of properties in mid-west region, including planning appraisals, zoning submissions and masterplan.

2018

- Planning Lead on the South Kerry Greenway EIAR
- Project Director for Derrysallagh Wind Farm Grid Route rEIAR
- Project Director for Raragh Wind Farm Grid Route EIAR.
- Project Director on Kilbarry Residential Development, consisting of 800-unit residential scheme
- Project Director on 19 no. unit residential development, Cork South Docklands
- Project Director 100-unit Roxborough Residential Scheme, Co. Wexford
- Project Director 100-unit Bettystown Residential Scheme, Co. Meath.
- Project Director 300-unit Enniscorthy Residential Scheme, Co. Wexford
- Project Director for Derrysallagh Wind Farm EIA.

2017

- Review of Strategic Environmental Assessment and Appropriate Assessment for the nationwide Catchment Flood Risk Assessment and Management Plans
- SEA Screening for the Bandon Transportation and Public Realm Enhancement Plan
- Provision of planning advice on substitute consent applications for wind farm, Derrysallagh Wind Farm
- Provision of planning advice on the successful Maighne Wind Farm Judicial Review
- Provision of planning advice on the preparation of an EIA for the Raragh Wind Farm cable route planning application
- Project manager for Moanvane Wind Farm proposal, Co. Offaly.

2016

- Preparation of and SEA and AA in conjunction with CAAS Ltd. of the Wind Energy Strategy for Co. Tipperary 2016
- Project Management of Castletownmoore Wind Farm SID application Co. Meath
- Project Director on the preparation of approximately 20 no. solar farm planning applications nationwide
- Preparation and coordination of planning application for 50 no. dwelling units in Croom Co. Cork
- Planning Advice and negotiation for a 49,000 tonne Metal Recycling Facility, Limerick
- Planning advice on the Derragh Wind Farm Judicial Review
- Preparation of an integrated tourism masterplan for tourism site on the banks of the River Shannon Co. Clare
- Preparation and submission of planning application for a recreation facility at the old Burlington Plan, Co. Clare
- Development Plan submissions and retained Planning Consultant for Shannon commercial Properties, provide planning advice and strategy for the management of portfolio of property in the mid-west region.



Jim Hughes

Director of Energy & Planning



2015

- Management and coordination of a design team for An Bord Pleanála Oral Hearing in Cork for a mixed-use Retail Development, Ballyvolane, Co. Cork
- EIS, RIA and planning application for a mixed-use District Centre Development, Cork
- Project Manager Ardglass Wind Farm, Co. Cork.

2008 – 2014

- SID Pre-Planning consultation with An Bord Pleanála for a Local Authority Marina development in Cork
- Strategic Review of Dursey Island and Cable Car. In conjunction with AECOM and TDI, an overall economic and tourism development strategy was developed for Dursey Island
- Development Plan Monitoring and submissions on behalf of a large international Financial Institution
- EIS, RIA and planning application for a mixed-use retail development, Clonmel
- Feasibility Assessment for Waste to Energy facility, Co. Clare
- Co-ordinating a multi-disciplined team; contributed to EIS and planning submission for the regeneration of the south-western docklands area of Waterford City. The scheme consisted of 11 no. development blocks ranging in height from one floor to thirty floors over basement level
- Coordinated a multi-disciplined team of 5 Architects and preparation of EIS and planning submission for the regeneration of the south docklands area of Cork City. The proposed development was the largest planning application ever to be lodged with Cork City Council. 2007
- Coordinated the lodging of a planning application, contributed to EIA and response to Third Party appeal for a mixed-use development consisting of retail, commercial, residential, tourism, leisure development, Waterford City
- Contribute to EIA for Road and Bridge Infrastructure for Cork City Council including preparation of a scoping document and public consultations.



Trevor Byrne

Associate Director and Project Manager

Profile

Trevor works as an Associate Director for Fehily Timoney and Company. Trevor holds a master's degree in Sustainable Energy Systems from the University of Edinburgh and an honours degree in Civil Engineering following his studies at Edinburgh Napier University and Cork Institute of Technology. Trevor is a senior project manager within the Planning and Energy division at FT and is a chartered engineer with Engineers Ireland. His primary area of expertise is in the design and construction of renewable energy projects and urban developments.

Trevor gained much of his experience working in the UK renewable energy industry and has delivered a wide variety of projects employing different technologies including onshore wind, hydroelectric and solar PV. He also has significant experience working in the Irish construction industry and in the United States on a variety of environmental projects focusing on renewable energy, solar PV, water treatment and surface water and wastewater treatment projects using green infrastructure.

Trevor has considerable environmental engineering and environmental impact assessment experience and is a proven project manager with a track record in successfully guiding large scale projects through the consenting process as well as construction stage. He also has significant on-site experience relating to managing the construction of renewable energy developments and environmental coordination roles. Trevor has experience in the following:

- Project Management
- Renewable Energy Development Design and Construction
- Environmental Impact Assessment and Appropriate Assessment
- Engineering Design
- Transportation Impact Assessment and Traffic Management Plans
- Environmental Coordination
- Technical and Public Consultation
- Oral Hearing
- Site Supervision
- Detailed Design
- Strategic Infrastructure Developments

Meeting the Minimum Requirements of the Role

- BSc. (Hons) in Civil Engineering with first class honours (2008); BEng. In Civil Engineering (2005); MSc in Sustainable Energy Systems (2009);
- Chartered Engineer (Engineers Ireland) 2017;
- Over 15 years of industry experience;
- Over 10 years of project management experience in the renewable energy industry.

Previous Experience Essentials for this Project

• **Fahy Beg Wind Farm, 2023**

Fahy Beg is an 8 no. turbine wind farm in County Clare. FT prepared a planning application and EIAR for the project on behalf of RWE Renewables Ireland. Trevor project managed all aspects of the environmental impact assessment and planning application for the project.

Key Information

Qualifications

MSc. Sustainable Energy Systems
University of Edinburgh
2008-2009

BSc. (Hons), Civil Engineering
Edinburgh Napier University
2006-2008

BEng in Civil Engineering
Cork Institute of Technology
2002-2005

Professional Memberships

Chartered Engineer, 2017

Member of Engineers Ireland, 2010

Employment History

2016 – Present

Fehily Timoney and Company
Associate Director

2012 – 2016

Greenspan, Edinburgh, UK
Project Manager

2010 – 2012

Cardinal Resources LLC,
Pittsburgh, PA, USA
Project Engineer

2005 – 2007

O'Shea Leader Consulting Engineers,
Cork
Graduate Engineer



Trevor Byrne

Associate Director and Project Manager



As well as this Trevor also lead the environmental coordination and engineering design of all onsite and offsite infrastructure for the proposed development including all infrastructure associated with the wind farm, grid connection and turbine delivery route, working closely with the client's electrical consultant. The application was successfully submitted to the local authority in early 2023.

- **Ballinagree Wind Farm, 2022**

Ballinagree is a 20 no. turbine wind farm development in County Cork with an installed capacity of up to 132 MW. FT prepared a planning application and EIAR for the project on behalf of Orsted and Future Energy Ireland. Trevor project managed all aspects of the environmental impact assessment and planning application for the project. As well as this Trevor also lead the environmental coordination and engineering design of all onsite and offsite infrastructure for the proposed development including all infrastructure associated with the wind farm, grid connection and turbine delivery route. The application was successfully submitted to an Bord Pleanála in early 2022 through the strategic infrastructure developments (SID) consents process.

- **Croaghaun Wind Farm, 2021**

Croaghaun is a large-scale onshore wind development in Co. Carlow comprising up to 7 wind turbines with a total installed capacity of up to 40MW. FT prepared a planning application and EIAR for the project on behalf of Future Energy Ireland. Trevor project managed all aspects of the environmental impact assessment and planning application for the project. As well as this Trevor also lead the environmental coordination and engineering design of all onsite and offsite infrastructure for the proposed development including all infrastructure associated with the wind farm, grid connection and turbine delivery route. The application was successfully submitted to the local authority in early 2021.

- **Coom Green Energy Park, 2020**

Coom Green Energy Park is a large-scale onshore wind and battery storage development in Co. Cork comprising up to 21 wind turbines with a total installed capacity of up to 120MW. FT prepared a planning application and EIAR for the project on behalf of Coillte and Brookfield Renewables Ireland. Trevor project managed all aspects of the environmental impact assessment and planning application for the project and acted as environmental coordinator for the EIA. As well as this Trevor also lead the engineering design of all onsite and offsite infrastructure for the proposed development including all infrastructure associated with the wind farm, grid connection and turbine delivery route. The application was successfully submitted to an Bord Pleanála in early 2020 through the strategic infrastructure developments (SID) consents process.

- **South Kerry Greenway (Kerry County Council) 2019**

South Kerry Greenway (SKG) is a 32km long proposed recreational trail in Co. Kerry. Trevor produced the construction and environmental management plan for the greenway as part of the environmental impact assessment for the project as well as preparing the traffic impact assessment for the project on behalf of Kerry County Council.

- **Teevurcher Windfarm, 2018**

Teevurcher is a development in Co. Meath. FT are acting as designer to the Design and Build contractor, Roadbridge, for the construction of all onsite infrastructure associated with the development. Trevor successfully project managed all aspects of the detailed design for the project, liaising with the main contractor's management and coordinating the design team including the development's environmental design commitments.

- **Moanvane Windfarm, 2017**

Moanvane is a development in Co. Offaly. FT acted as the planning consultant for the client and project supervisor for the design stage of the project. Trevor produced the outline construction and environmental management plan for the site as part of the environmental impact assessment for the project as well as producing the traffic and transportation section of the environmental impact assessment including a traffic impact assessment.

- **Knockacummer Windfarm Grid Connection, 2017**

Knockacummer is a 20km long 110kV grid connection project in Co. Cork for which FT acted as Employer's Engineer for the client. Trevor managed the coordination and supervision of full-time site staff throughout the construction stage to ensure that the project was delivered in accordance the engineer's designs and specifications, the client's health and safety framework as well as statutory obligations, and the project's environmental management plan.

- **Gortfinbar Wind Farm, 2016**

Gortfinbar is a 5 no. wind turbine development in Co. Tyrone. FT are acting as designer to the Design and Build contractor, DMKL, for the construction of onsite roads, hardstandings, substation and all other infrastructure associated with the wind farm development. Trevor successfully project managed all aspects of the detailed design for the project, liaising with the main contractor's management and coordinating the design team.



Trevor Byrne

Associate Director and Project Manager



- **Sliabh Bawn Wind Farm, 2016**

Sliabh Bawn is a 20 turbine project in Co. Roscommon. FT acted as designer to the Design and Build contractor, Alexander for the construction of a series of walking trails, riding tracks and recreational areas throughout the wind farm.

Trevor is managing the design contract on behalf of FT for this project and ensured the project design was delivered in accordance with the engineer's the client's health and safety framework as well as statutory obligations, and the project's environmental management plan.

- **Moanvane, 2017**

Moanvane is a development in Co. Offaly. FT acted as the planning consultant for the client and project supervisor for the design stage of the project.

Trevor produced the outline construction environmental plan for the site as part of the environmental impact assessment for the project as well as producing the traffic and transportation section of the environmental impact assessment including a traffic impact assessment.

- **Rosspile Solar PV, 2019**

Rosspile is a ca. 75MWp ground mounted solar PV scheme on a site of approximately 153 hectares in County Wexford. The project consists of solar photovoltaic panels on ground mounted steel frames, an electrical control building and associated compound, inverter/transformer stations, underground power and communication cables, boundary fencing, internal access tracks and associated drainage infrastructure, CCTV cameras and all associated site services and works. The project also incorporates significant battery storage on site as part of its design. A Natura Impact Statement accompanied the planning application.

Trevor acted as project manager for this project which successfully achieved planning permission in 2019 and is one of the largest consented projects of its type in Ireland to date. Duties included coordination of all environmental assessments for the project. The comprehensive environmental report included assessments of potential impacts on hydrology, water quality, biodiversity, traffic and transportation, population and human health, cultural heritage, landscape and visual, and glint and glare.

- **Barnahely Battery Energy Storage, 2018**

Barnahely is a battery energy storage system (BESS) project in County Cork. Trevor carried out the outline civil engineering and drainage designs for the site. Trevor also prepared the outline construction and environmental plan for the project along with carrying out the traffic impact assessment.

- **Millvale Solar PV, 2017**

Millvale is a 15MWp solar photovoltaic generation scheme near Rathnew in Co. Wicklow for which FT were appointed by the client, BNRG, to gain planning permission. Trevor project managed the planning application and associated Environmental Report for the proposed Wicklow Solar Farm, including a 38 kV substation and associated ancillary works. Lead contributor to the Environmental Report, and responsible for coordination of overall project team members, including landscape and visual, ecological and archaeological sub-consultants. Responsible for extensive consultation during the planning process, including attendance at meetings with key stakeholders. Millvale was one of the first large scale solar farms commissioned in Ireland under RESS.

- **Ralptown Solar Farm, Co. Wexford – Planning Application, 2016**

Project Engineer responsible for site layout design for the proposed 16 MW Ralptown Solar Farm comprising approximately 61,500 photovoltaic (PV) panels on ground mounted steel frames within a site area of approximately 32 hectares. Key contributor to the Environmental Report, and responsible for preparation of the Construction and Environmental Management Plan (CEMP).

- **Brookhill Solar Farm, Co. Wexford – Planning Application, 2016**

Project Engineer responsible for site layout design for the proposed 40 MW Brookhill Solar Farm comprising approximately 154,000 photovoltaic (PV) panels on ground mounted steel frames within a site area of approximately 90 hectares. Key contributor to the Environmental Report, and responsible for preparation of the Construction and Environmental Management Plan (CEMP).

- **Dennistown Solar Farm, Co. Wexford – Planning Application, 2016**

Project Engineer responsible for site layout design for the proposed 20 MW Dennistown Solar Farm comprising approximately 77,000 photovoltaic (PV) panels on ground mounted steel frames within a site area of approximately 40 hectares. Key contributor to the Environmental Report, and responsible for preparation of the Construction and Environmental Management Plan (CEMP).

- **Cairnmore Hybrid Wind and Solar Park, Scotland, 2015**

Cairnmore is a 4MW solar PV park in North Aberdeenshire. The site is located on a farm with a pre-existing wind farm with which the SPV scheme shares a grid connection.



Trevor Byrne

Associate Director and Project Manager



Trevor acted as project manager and coordinated the design, construction and procurement of the project on behalf of the client. The scheme was commissioned in early 2016 and is now generating successfully in tandem with the existing wind farm. This was the largest combined technology scale project of its type in Scotland at the time of commissioning.

- **Cashile, Hydro, 2015**

Cashlie is an estate near the upper end of Glen Lyon in the Perthshire Highlands in Scotland. Trevor successfully project managed the construction of 2no. run of river hydroelectric generation schemes concurrently and the schemes were successfully commissioned in December 2015.

Trevor managed all aspects of the development detailed design and construction stage on behalf of the client as well as compliance with the project's environmental plan and various planning conditions. Challenges included working in remote location in extreme conditions and the use of helicopters for the lifting of construction materials to the intakes.

- **Dow Corning Corporate Campus Storm Water System, USA, 2012**

The project involved the Design and construction of a wastewater system with pumping station for a Fortune 100 client at their corporate headquarters in Michigan. The challenges associate with this project involved the flat topography of the site and phasing the project to facilitate the day to day workings of a busy campus. Trevor acted as a design engineer for the environmental consultant on this project.

- **Dow Corning Silicon Plant, Brazil, 2011**

The project involved the design and construction of a storm water system for a large silicon smelting plant in southern Brazil incorporating green infrastructure engineering for sustainable storm water management.

Trevor acted as a design engineer for the project and made visits to the site for the purposes of project evaluation and inspection of constructed infrastructure.

- **Lefever Landfill, Pennsylvania, USA, 2010-2012**

This project involved civil engineering and design support for a large residual waste disposal landfill for a coal fired power plant. Trevor was the main engineering contact for the site contractor and provided design drawings and specifications for the continuous operational development of the landfill.

- **Red Bird Solar Powered Water Treatment System, USA, 2010-2012**

Worked as a design engineer in the development of a patented solar powered potable water treatment system designed to provide drinking water to remote communities, disaster zones and underdeveloped regions.

Worked closely with a large international manufacturer (Pierce Oshkosh) to construct units which would go on to act as demonstrators in West Africa. Included spending a number of weeks in the factory supervising the construction and testing of two prototype systems. Design input included pressure pipe system, filtration tanks, disinfecting dosing tanks, solar PV and battery power system, bespoke solar PV mounting system design, control system design and testing.



Robyn Nicholl

Principal Planner



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Profile

Robyn Nicholl is a Principal Planner within the Energy and Planning Department at Fehily Timoney and Company. She holds a Bachelor's degree in Environmental Planning (BSc), and a Master's degree in Urban and Rural Design (MSc), both from Queens University, Belfast. Robyn has been a Chartered Member of the RTPI since May 2017.

Robyn is a qualified Town and Environmental Planner with 11 years of post-graduate experience in both the private and public sector within Northern Ireland and England. She has a great deal of experience in providing strategic planning advice to clients and preparing site appraisals. She has extensive experience in the management, coordination and preparation of planning applications for renewable energy projects, large residential schemes, intricate commercial proposals.

Key Skills

Robyn's experience includes:

- Providing strategic planning advice to clients for the identification of sites for renewable energy schemes – BESS, Solar and Wind Farm sites.
- Project Lead for multiple standalone BESS projects.
- Project Lead for a number of BESS schemes sited adjacent to existing Wind Farms.
- Lead Planner for a number of major residential and urban extension projects.
- Lead Planner on several high-profile commercial projects.
- Involved in a number of Appeal Cases, coordinating the technical input and preparation of Statements of Case.
- Taking sites through the Pre-Application Process with Local Authorities, and the associated Public Consultation process.

Previous Experience Essentials for this Project

Wind

- Preparation of Statement of Opposition Technical Response Report as part of the JR Process relating to Fahy Bed Wind Farm (8 no. turbines) in Co. Clare.
- Preparation of several EIAR Scoping Reports.
- Preparation of feasibility assessments for a number of potential wind farm sites.
- Review of technical information from third party consultants for EIAR chapters.
- Project management and co-ordination of planning application.

Solar

- Preparation of feasibility assessments for a number of potential solar farm sites in County Wicklow, Wexford, Clare, Laois, and Carlow.

BESS

- Project lead on a number of planning applications for BESS developments within Northern Ireland.
- The role involved the preparation, management and submission of each planning application.
- Planning Statement would be prepared for each application which assesses the impact of the BESS development within the site context focusing on a number of factors including Ecological, Noise, Hydrology, Landscape and Visual Impact,

Key Information

Qualifications

MSc Urban and Rural Design
Queens University, Belfast
2010-2011

BSc Environmental Planning
Queens University, Belfast
2007-2010

Professional Memberships

Chartered Member
of the RTPI (MRTPI)

EDI Level 2 Certificate in
Team Leading Principles

EDI Level 3 Certificate in
Management Principles

Employment History

2024 – Present

Fehily Timoney & Company
Principal Planner

2020 – 2024

TSA Planning, Belfast
Associate

2016 – 2019

Barton Willmore, Bristol, UK
Senior Planner

2015 – 2016

Wiltshire Council, UK
Spatial Planner

2013 – 2015

Persimmon Homes, Wiltshire, UK
Graduate Strategic Planner



Robyn Nicholl

Principal Planner



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Access. The role also involved direct communication and engagement with the Local Planning Authorities pre- and post-submission of an application.

- A selection of the approved schemes is included below:
 - Tamnamore BESS (100MW), Co. Tyrone
 - Springtown BESS (30 MW), Derry City
 - Campsie BESS (30MW), Co. Derry
 - Doogary Road (38MW), Omagh, Co. Tyrone

Other experience includes:

Residential and large-scale Urban Extension Projects

- Involved in a number of high-profile planning applications for residential schemes within Derry City and across Northern Ireland. This role involved taking site's/proposals through early pre-application discussions with the Local Planning Authorities prior to formal submission of a planning application. Due to scale of proposals, Community Engagement and Public Consultation was required, Robyn's role in this process included attending briefings with local political representatives detailing the vision and future plans on behalf of the client, and also attending Consultation Events to answer any technical questions that the local community may have. As project lead, it was Robyn's role to prepare the Planning Statement and co-ordinate the design team and reports for lodgment of applications to the relevant Local Authority. Some of the key planning approvals include:
 - The Cashel ('H2 Lands'), Derry City (Phase 1 of c.2,500 no. homes)
 - Burn Road, Doagh (180 no. homes)
 - Marlborough House, Belfast (120 no. homes)

Commercial Planning

- Preparation and management of design team for the submission of a number of commercial use planning applications to relevant Planning Authority.
 - Kainos HQ, Belfast
 - The Ivy Restaurant, Belfast
 - Custom House Office Redevelopment, Belfast (Listed Building)
 - Pearl Assurance Office Redevelopment, Belfast (Listed Building)
 - Lesley House Office Redevelopment, Belfast
 - Redevelopment of Castlecourt Shopping Centre, Belfast
 - Aparthotel scheme, Belfast
 - Sensata Technology Centre, Newtownabbey

Site Appraisals

- Preparation of Site Appraisals and Feasibility Assessments prior to client's purchasing or undertaking option agreements on sites. The appraisals entail desktop assessments which cover a review of site history, planning and environmental constraints, local planning context and designations, and concluding with recommendations for development potential. The variety of developments include BESS, Solar, urban and rural residential projects, and commercial proposals.

Development Plan Policy Monitoring and Promotion of Sites

- Robyn has experience in monitoring the progress of Development Plans, preparing policies for inclusion in Local Development Plans (during time working within the public sector), and submission of Representations on behalf of clients through the Development Plan Consultation Process.



Brian Cronin

Senior Environmental Scientist

Profile

Brian is a Senior Project Environmental Scientist with Fehily Timoney and Company. He has ten years of post-graduate experience in technical positions with seven years specifically in environmental roles.

Key Skills

- Project Management: Maintaining trusting relationships with clients through strong communication and professional attitude. Managing multi-disciplinary teams to deliver projects on time and on budget
- Report writing: EIA chapters (Hydrology and Water Quality, Air Quality and Climate, and others), Planning and Environmental Reports, contaminated land risk assessment reports, waste classification reports, environmental audits, IPC compliance reports.
- Fieldwork: Supervising drilling/digging operations, design of monitoring wells, soil logging and sampling, low-flow sampling, aquifer testing, gas monitoring and more
- Training and managing: Training and managing graduates, sub-contractors, students
- Software: Excel, Arc GIS, MS Project, Diver Office, Win Situ, SPSS, Minitab, MS Office suite

Previous Experience Essentials for this Project

• **Drehid Wind Farm SID application, €310,000, 2022-2025**

Project Manager: Seeking consent for the development of a Wind Farm and associated 110 KV substation from An Coimisiún Pleanála (ACP) as Strategic Infrastructure Development (SID). Writing chapters of the Environmental Impact Assessment Report (EIAR) and coordinating the programme of works to get the SID application processed. Application successfully lodged May 2025, awaiting decision from ACP.

• **Author, various wind farm EIAR chapters, 2022-2025**

Prepared chapters on Hydrology and Water Quality, Air Quality and Climate, various 'up-front' chapters, for the EIARs for Coumnagappul Wind Farm, Castlegarden Wind Farm, Drehid Wind Farm, Shanloon Wind Farm, Cloonkett Wind Farm, Gneeves Wind Farm, Derrynadarragh Wind Farm.

• **Annagh Wind Farm Project Management, ca. €100,000, 2022-2025**

An application for the development was lodged before Brian joined FT. Since Brian joined FT, he has taken over the project management of this project. This included the preparation of an RFI response, a first party appeal, and a section 132 response. The case is currently with ACP having been remitted by the High Court in 2025.

• **Gneeves Wind Farm Lifetime Extension, €120,000, 2024-2025**

Project Manager: Prepared a planning application for a 15-year lifetime extension to the existing consented Gneeves Wind Farm which is approaching the end of its 20-year consented operational life. The Planning Authority have since come back to us seeking further information, which we are currently preparing and intend to submit in late October 2025.

Key Information

Qualifications

MSc in Environmental Engineering,
Trinity College Dublin, 2017

Honours BSc in Environmental
Science, University College Cork, 2013

Employment History

2022 – Present

Fehily Timoney & Company
Senior Project Environmental
Scientist

2021 – 2022

RSK Ireland Ltd
Senior Environmental Consultant

2020 – 2021

RSK Ireland Ltd.
Environmental Consultant

2019 – 2020

RSK Ireland Ltd.
Graduate Environmental Consultant

2018

Fugro GeoServices Ltd.
Geo-environmental Engineer

2017 - 2018

Initial Project Ltd.
Contaminated Land Lead Technician

2014 - 2017

Forest Research Group, Waterford IT
Research Assistant



Brian Cronin

Senior Environmental Scientist



- **Clondardis 110kV Substation SID application, €75,000, 2023**

Project Manager: Seeking consent for the development of a 110 kV substation from ABP as SID. Writing chapters of the Planning and Environmental Report and coordinating the programme of works to get the SID application processed. Project received consent in 2024.

- **Mainstream Southeast Offshore Wind Farm: EIA Scoping Report, €40,000, 2023**

Project Manager: Coordinated a team of authors to write the scoping chapters for the onshore component (cable and grid connection) of an offshore wind farm.

- **Kilteel Pole Yard Quantitative Risk Assessment, €170,000, 2021**

Project Manager: Assessing risks to human health and the environment from creosote contamination on a large rural site. Delineated extent of contamination as well as identifying hydrogeological pathways from contaminated groundwater to hydraulically connected surface waters. Proposed remediation strategy to reduce risks.

- **DIT Kevin Street Waste Classification and Soil Management Plan, €150,000, 2020**

Project Manager: Classified soil and stone wastes across a large urban site with a 17m basement excavation. Identified alternative options to landfill disposal of the materials, including Soil Recovery Facilities and re-use of materials as a by product under Article 27 of the Waste Directive.



Evan Rossiter

Senior Project Planner

CV 01

Profile

Evan holds BSc in City Planning and Environmental Policy and a MSc in Regional and Urban Planning.

He has 2 years postgraduate experience and is a Senior Project Planner with Fehily Timoney.

Evan has experience in preparing planning applications for small, medium and large scale developments, preparing responses to requests for further information and clarification of further information, compliance submissions, first and third party appeals, resolving enforcement cases, preparation of material for oral hearings and strategic infrastructure developments.

Key Skills

Evan's key skills include:

- Good Communication Skills
- Committed and hard working
- Ability to work in high-stress and pressured environments
- Ability to lead a team of people efficiently and effectively

Previous Experience Essentials for this Project

• Project Waterfront, Ongoing

This project involved the development of one of the last remaining sites in the North Lotts and Grand Canal Docks Strategic Development Zone (SDZ). The development at a site known as City Block 9 involves the development of commercial and residential buildings. Evan was part of the project design team and was involved in the preparation of planning applications for: 3 commercial office blocks (referred to as Blocks 1, 2 and 3), multiple amendment applications for Block 2 (currently under construction and soon to be the European Headquarters for Citi Bank Europe plc), a planning application for a 25-storey residential building delivering 550 apartment units, discharging of compliance submissions and project management.

The need for amendment applications arose as a result of Client requirements and also due diligence reviews conducted by the project team.

• Glass Bottle Site, Capital Value, Ongoing

This project involved the development of a c.15.06 ha site known as the former Irish Glass Bottle and Fabrizia Sites, Poolbeg West, Dublin 4. The site also falls within the Poolbeg West Strategic Development Zone (SDZ) and aims to deliver an extensive mixed-use development. Evan was part of the project team and was involved in: the preparation of planning application documentation and planning applications for multiple residential apartment blocks, a community and innovation hub (referred to as Block P), a 228 no. bedroom hotel, various amendment applications for permitted development on site, discharging of compliance submissions, and project management.

The need for amendment applications arose as a result of Client requirements and due diligence reviews conducted by the project team.

Key Information

Qualifications

BSc City Planning and Environmental Policy, University College Dublin, 2022

MSc Regional and Urban Planning, University College Dublin, 2023

Professional Memberships

Graduate member of the Irish Planning Institute

Licentiate member of the Royal Town Planning Institute (RTPI)

Employment History

2025 – Present

Fehily Timoney & Company
Senior Project Planner

2022 – 2025

Tom Philips and Associates
Planner



Evan Rossiter

Senior Project Planner

CV 01



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- **St. Francis Hospice Extension, c. €29.8m, 2023/2024**

This project involved the development of a two-story over basement extension onto the existing St. Francis Hospital building delivering 24 no. additional, single occupancy, palliative care rooms for patients.

- **BESS Application and Minor Amendments to a Data Centre Development at Orion Business Park, Ballycoolin, Dublin 15, 2024**

This project involved obtaining planning permission for the construction of a Battery Energy Storage System (BESS) for a permitted Data Centre and incorporating minor amendments to the existing permission which was being built. These amendments were to facilitate Client requirements and regularise unauthorised development, which were identified as a result of conducting an extensive review of planning documentation, drawings, and conditions. Evan was the project lead and point of Client contact and was involved in the preparation of planning application documentation, review of consultant inputs, and project management. The Application received final planning permission in the second half of 2024



John Cullen

Senior Project Acoustic & Environmental Engineer



Profile

John is a Senior Project Acoustic Engineer / Environmental Engineer with Fehily Timoney & Company. He holds an honours degree in Agri-Environmental Science from University College Dublin, a Postgraduate Diploma in Environmental Engineering from Trinity College Dublin and a Diploma in Acoustics and Noise Control from the Institute of Acoustics, receiving the award for "Best Performing Irish Student" from the Institute of Acoustics. He is a member of the Institute of Acoustics, Institute of Environmental Sciences and the Institute of Engineers Ireland.

John has experience in the delivery of Environmental Impact Assessment Reports for a wide range of developments, including proposed Wind Farms, Solar Farms and Battery Energy Storage Systems (BESS), Waste Facilities, Anaerobic Digestion Plants and proposed residential and industrial developments.

John has over eight years' experience in the assessment of environmental noise and vibration, and has completed computational noise models and noise impact assessments for a range of developments, including residential, industrial and renewable projects. He has undertaken baseline noise surveys for wind farms, developed computational noise models, assessed construction and operational noise impacts for wind farm and renewable energy projects and provided input to Requests for Further Information (RFIs) and the legal response for Judicial Reviews.

He has carried out occupational noise and hand-arm/whole body vibration risk assessments in accordance with the requirements of the Irish & UK workplace noise & vibration regulations. He has also acted as Lead Acoustic Consultant carrying out building acoustics assessments for a range of commercial and residential developments in Ireland, the UK and Europe.

John has carried out in-situ acoustic measurements of road noise barriers on behalf of Transport Infrastructure Ireland (TII), to determine acoustic performance of barriers throughout Ireland, including sound reflection (EN 1793-5) and airborne sound insulation (EN 1793-6). He is the Co-Author of research paper titled "Monitoring of Acoustic Performance of Noise Barriers along Roads in Ireland", presented at Transport Research Arena (TRA) 2024.

Previous Experience Essentials For This Project

• **Fehily Timoney and Company, 2022 – Ongoing**

John is a Senior Project Acoustic Engineer / Environmental Engineer working as part of the Circular Economy and Environment team, delivering Environmental Impact Assessment Reports (EIARs), environmental management plans and licence applications/ compliance.

John has experience in the delivery of Environmental Impact Assessment Reports for a wide range of developments, completing noise surveys, computational noise models, noise impact assessments and noise mitigation schemes for proposed developments, participating in stakeholder engagement and public consultation, liaising with landowners to agree environmental monitoring programmes for proposed renewable energy projects, managing a team of subcontractors and coordinating the completion of ecological field surveys and assessments and participating in public consultation events with stakeholders.

Key Information

Qualifications

Diploma in Acoustics and Noise Control, Institute of Acoustics via Trinity College Dublin 2019 – 2020

Post Graduate Diploma in Environmental Engineering (NFQ Level 9) (P.Grad.Dip), Trinity College Dublin 2014 – 2015

Agri-Environmental Science (NFQ Level 8) (BAgrSc) University College Dublin 2009 – 2013

Professional Memberships

Institute of Engineers Ireland (MIEI)

Institute of Acoustics (AMIOA)

Institute of Environmental Sciences (MIEEnvSc)

Institute of Air Quality Management (MIAQM)

Employment History

2022- Present

Fehily Timoney & Company
Senior Project Acoustic Engineer / Environmental Engineer

2021- 2022

Self-employed Environmental & Acoustic Consultant

2016- 2021

Environmental Efficiency Consultants
Environmental & Acoustic Consultant

2015 - 2016

Philip Farrelly & Co.
Agri-Environmental Consultant

2014 - 2015

Verde Environmental Group
Environmental Operative



John Cullen

Senior Project Acoustic & Environmental Engineer



Recent projects include: Noise impact assessment for Ballynahone Long Duration Energy Storage (LDES) scheme in Co. Donegal, noise impact assessment and IE Licence application for a 250,000 TPA waste facility in Co. Dublin, noise impact assessment for Derrynadarragh Wind Farm, noise impact assessment for Rosspile Solar Farm & BESS Co. Wexford, noise impact assessment for the N19 Shannon Airport Access Road Improvement Scheme and undertaking in-situ acoustic measurements of road noise barriers throughout Ireland on behalf of TII. John has provided technical environmental support to Local Authorities, carrying out technical reviews and providing advice on environmental documents submitted as part of planning applications.

John has undertaken baseline noise surveys and carried out construction & operational noise assessments for proposed Solar Farms and Wind Farms throughout Ireland, including: Kilcormac Solar Farm, Rahánisky Solar Farm, Ballylongford Solar Farm, Cortown Solar Farm, Barnadivane Wind Farm, Coom Green Park, Tullahennel Wind Farm, Dernacart Wind Farm and Coumnagappul Wind Farm.

- **Self Employed – Environmental & Acoustic Consultant, April 2021 – 2022**

Carrying out subcontract acoustic & environmental consultancy services including environmental noise monitoring & assessments, noise impact assessments, occupational noise & vibration assessments, sound insulation testing and building acoustics assessments. Environmental consultancy services including air quality assessments, bund integrity assessments, and verification audits for the Bord Bia 'Origin Green' sustainability programme. Agri-Environmental advisory services including BPS & Entitlements applications, REAP environmental scheme farm assessments, soil sampling and Nutrient Management Planning

- **Environmental Efficiency Consultants, Bray, January 2016 – April 2021**

John was an Environmental & Acoustic Consultant providing environmental consultancy services to clients across a wide range of sectors, including industrial, pharmaceutical, construction/quarrying and agri-food/drink. Working as part of a multi-disciplinary team delivering environmental reports, management plans, impact assessments, licence/permit applications and environmental compliance consultancy. Working across various areas of environmental consultancy, specialising in noise & acoustics.

His role involved developing project proposals & quotations, project management, research, carrying out and coordinating environmental monitoring & field surveys (Air quality, biodiversity, bunds, noise, vibration & water), liaising with sub-contractors and regulatory bodies, interpreting monitoring results & data, and technical report writing.

John acted as Project Manager for the delivery of the environmental monitoring schedule for a leading quarry operator at numerous sites throughout Ireland, including noise, dust, air emissions and water quality. Duties included coordinating regular sitework & field monitoring, managing junior staff, interpreting monitoring results & data, reporting, liaising with the client and Local Authorities. John acted as Lead Auditor for the Bord Bia 'Origin Green' sustainability programme. John undertook noise and air emissions monitoring for the validation of newly installed gas engines used for power generation at multiple sites throughout the UK and carried out an Indoor Air Quality Assessment at a refurbished brewery in Kisumu, Kenya for a multinational brewing organization, to assess performance with regards to the requirements of the LEED building performance standard.

- **Philip Farrelly & Co., Balbriggan, March 2015 – January 2016**

John was an Agri-Environmental Consultant providing technical agri-environmental advisory services to clients. He was also responsible for soil sampling & analysis, nitrates & nutrient management planning, ecological field surveys, and agri-environmental scheme consultancy.

- **Verdé Environmental Group, Kilcoole, January 2014 – March 2015**

John was an Environmental Operative responsible for contaminated site investigation, drilling works, environmental monitoring (soil, water & air), site remediation and groundworks, and installing/maintaining on-site remediation systems.



Maureen Marsden

Senior Project Engineer



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Profile

Maureen holds Master of Engineering degree in Acoustics and Vibration from Southampton University (Institute of Sound and Vibration Research).

She has 28 years postgraduate experience and is currently a Senior Project Engineer with Fehily Timoney.

Maureen specializes in environmental noise including industrial, energy infrastructure projects and transportation projects.

Maureen has a broad range of experience in noise and vibration across a variety of sectors including building, transport, industrial and energy sector projects.

She is currently a member of the Institute of Acoustics and Engineers Ireland.

Key Skills

Maureen has experience in the building/industrial/energy/gas projects including:

- Noise measurement
- Operational noise predictions
- Construction noise predictions
- Noise and vibration assessments

Previous Experience Essentials for this Project

• Wind Farm Projects

Involved in all stages of windfarm projects, from pre-planning to post construction compliance monitoring:

- Conducted baseline noise measurements within Ireland to determine prevailing background noise in the vicinity of proposed windfarms. Analysed noise based on the Institute of Acoustics Good Practice Guide to the Application of ESTU-R-97 and the Institute of Acoustics Good Practice Guidelines. Determined noise limits in line with the Wind Energy Development Guidelines 2006 to define site noise criteria.
- Predicted operational noise from proposed windfarms using 3-D noise modelling software to determine compliance with noise criteria, based on methodology in ISO9613 Attenuation of sound during propagation outdoors. Where noise limits were exceeded, determined curtailment strategy based on quieter turbine operational modes.
- Assessed noise from temporary works associated with windfarm construction using BS5228 Code of Practice for noise and vibration control on construction sites. Predicted construction noise and advised on mitigation works as required. This assessment also includes consideration of construction noise from proposed grid connection works.
- Produced Environmental Impact Assessment Reports for Windfarm developments, based on the operational and construction noise assessment as detailed above.
- Conducted post construction compliance noise survey and analysed data for comparison with noise limits to determine compliance with the planning criteria.

Key Information

Qualifications

Master of Engineering in Acoustics and Vibration, Southampton University, 1994

Professional Memberships

Member of the Institute of Acoustics
Member of Engineers Ireland

Employment History

2019 – Present

Fehily Timoney & Company
Senior Project Engineer

2017 – 2018

Resonate Acoustics
Senior Acoustic Consultant

2015 – 2017

Soundsorba
Sales Engineer

2011 – 2015

Kellogg Brown and Root
Senior Technical Professional
(Noise and Vibration)

2011 – 2011

Mott Mac Donald
Senior Acoustic Consultant

2011 – 2011

Mott Mac Donald
Senior Acoustic Consultant

2008 – 2010

Applied Acoustic Design
Senior Acoustic Consultant

2007 – 2008

Hoare Lea Acoustics
Senior Acoustic Consultant

2002 – 2006

Sound Research Laboratories
Acoustic Consultant

1998 – 2001

Arup Acoustics
Acoustic Engineer



Maureen Marsden

Senior Project Engineer

- Conducted baseline noise surveys for windfarms where lifetime extension or windfarm repowering is required. Assessed operational windfarm noise in line with current guidance since the original windfarm application. Assessed noise and vibration impacts from proposed repowering as part of the planning process.

Sample projects include: Annagh Windfarm, Ballagh Windfarm, Ballinagree Windfarm, Barnadivine Windfarm, Carrane Hill Windfarm, Coom Green Energy Park, Coumnagappul Windfarm, Croaghaun Windfarm, Dernacart Windfarm, Drehid Windfarm, Fahy Beg Windfarm, Gneevies Windfarm, Letteragh Windfarm, Moanvane Windfarm, Tullahennel Windfarm,

- **Solar Farm Projects**

Derived noise criteria for solar farms based on EPA criteria. Predicted operational noise from proposed solar farm equipment (inverters and transformers) to determine compliance with the noise criteria. Advised on noise control measures where required including equipment relocation relative to noise sensitive locations, selection of quieter equipment and mitigation of equipment where required. Predicted construction noise from the temporary works associated with the solar farm construction and recommended mitigation as required.

Sample projects include: Ballyvalode Solar Farm, Clashwilliam Solar, Dunmurray Golf Course Solar Farm, Milltown Solar Farm, Moortown Solar farm, Kilcurly Solar Farm, Killough Solar Farm, Kilmorna Solar Farm, Rahanisky Solar Farm, Rathdrinagh Solar Farm.

- **Rotating Stabiliser Projects**

Conducted baseline noise survey, to allow noise criteria to be determined in line with EPA noise guidance. Predicted noise from the proposed rotating stabiliser to determine compliance with criteria. Measured transformer noise from a nearby substation to determine existing noise sources.

Sample projects Knockraha Rotating Stabiliser, Co. Cork, and Maynooth Rotating Stabiliser, Co. Kildare.

- **Compliance Monitoring at EPA Licensed Facilities**

Monitored noise at EPA licensed facilities to determine if emission limits within license conditions are met. This included food and drink production facilities, civic amenity sites, waste processing facilities and engineering facilities.

Advised on contribution from off site sources to determine if noise limits are exceeded. Assessed noise in line with EPA NG4 guidelines and BS4142 Methods for rating and assessing industrial and commercial sound.

- **Gas Projects 2014-2023**

Conducted baseline noise surveys for proposed compressed natural gas (CNG) installations following noise attenuation works. Predicted and assessed operational noise for inclusion within planning submission, where required.

Conducted a series of internal and external measurements at eleven Above Ground Installations (AGI's) in Ireland. Internal measurements were used to assess noise levels against occupational noise criteria for workers. External measurements were used to assess noise levels against external environmental noise criteria.

Conducted a baseline noise survey at Whitegate AGI (Above ground installation), prior to construction works.

Sample projects for proposed CNG installations include Carhoo, Birdhill service station, M7 Junction 14 Mayfield, Cappagh Rd, Virginia, City North. Sample projects for AGI installations include: Scholarstown AGI, Swords Road AGI, Kilshane AGI, Ballynaneashagh AGI, Cork Gas AGI, Abbotstown AGI, Ardree AGI, Ballyduff AGI.

- **Industrial Noise Assessments, 2011 - 2019**

Predicted noise from a range of industrial facilities using 3-D noise modelling software for a range of industrial developments. including LNG(liquid natural gas) facilities, dairy facilities and water works schemes to advise on noise control measures to meet appropriate environmental legislation. Also predicted in-plant noise contours for purposes of identifying hazardous zones related to Noise at Work requirements.

Sample projects include Thames Water projects, Irish Water projects, Co. Kilkenny, Ballyragget Glanbia site, Co. Kilkenny, Jazan Refinery, Saudi Arabia, Bioatlantis, Co. Kerry.

- **Port Noise Assessments 2017-2023**

Monitored noise at noise sensitive locations over several weeks overlooking the Ringaskiddy Deepwater port, Co. Cork. Noise was monitored over a period of weeks during the arrival and unloading activities of a particular ship which had led to noise complaints. The measured levels were compared the noise limits with NG4 criteria. Also BS4142 was used to assess the likelihood of adverse impact at nearby properties.

Measured noise at Dublin Port for the purpose of assessing if security personnel had the potential to exceed noise at work limits. The assessment was based on a combination of attended measurements in addition to use of noise dosimeters worn by key personnel. This was used to advise on the effect of the type of work undertaken by staff in order to meet noise at work limits.



Leigh Doyle

Senior Project Engineer



Profile

Leigh is a Senior Project Engineer at Fehily Timoney and Company with over 4 years' experience working in the Energy and Planning department. He holds a ME degree in Civil, Structural and Environmental Engineering from UCC.

Leigh currently works on renewable energy projects preparing traffic and transport chapters of the EIAR for wind farms, Environmental and Planning Reports for solar farms, and grid infrastructure developments. He also has experience in leading the civil design of renewable energy developments. He conducts walkover surveys inspecting environmental constraints on site and carries out site access assessments for several wind, solar farm, and battery energy storage sites to ensure the desired entrances meet TII guidelines.

Key Skills

Leigh has experience in the following:

- Renewable Energy Development Civil and Drainage Design
- EIAR, EIA
- Project Management
- Coordination of Feasibility Studies
- Site Assessment
- Declaration of Identity and Planning Compliance Inspections
- Roads Department Consultation
- Community Engagement Consultation

Previous Experience Essentials for this Project

• **Shanclon Wind Farm, Ongoing.**

Shanclon WF is a 72MW wind farm located on a peat bog site in Co. Galway. Leigh led the design of the wind farm infrastructure including a bridge crossing. Leigh was also responsible for the Traffic and Transport chapter of the EIAR and the design of site entrances for the solar farm. Leigh assisted in drafting the construction methodologies in the construction and environmental management plan.

• **Fahy Beg Battery Energy Storage Development, Ongoing**

The Fahy Beg Battery Energy Storage System is a 40MW storage facility located in Co. Clare. Leigh is responsible for managing the project through the planning process and assessing the traffic impact of the proposed development for the planning and environmental report. He is also responsible for managing the geotechnical design of earthworks for the BESS compound including gabion basket retaining structures and engineered fill slopes.

• **Fahy Beg Wind Farm, 2023.**

Fahy Beg WF is an onshore wind development in Co. Clare comprising 8 turbines and a total installed capacity of up to 38MW.

Key Information

Qualifications

Masters (ME),
Civil, Structural &
Environmental Engineering,
University College Cork, 2021

Certificate in Project Supervisor for
the Design Process (PSDP), 2024

Certificate in Professional
Engineering, Engineers Ireland and TU
Dublin, 2023

Professional Memberships

Member of the Institution of
Engineers of Ireland (MIEI)

Employment History

2024 – Present

Fehily Timoney & Company
Senior Project Engineer

2023 – 2024

Fehily Timoney & Company
Project Engineer

2021 – 2023

Fehily Timoney & Company
Graduate Engineer

2020

Fehily Timoney & Company
Intern

2019

Sweco UK Ltd
Student Internship

Summer 2017 & 2018

Doyle Bros Construction
Construction Operative



Leigh Doyle

Senior Project Engineer



Leigh was responsible for the Traffic and Transport chapter of the EIAR and the design of site entrances for the wind farm. Leigh conducted site walkover assessments within the quarry site to determine a suitable location for the onsite substation. The application was successfully submitted to the local authority in early 2023.

- **Kilmorna Solar Farm, 2024.**

Kilmorna Solar Farm is a large scale solar development spanning 143 hectares located in Co. Kerry. Leigh led the design of the solar farm including a bridge crossing required to connect the western parcel solar array and transformer compound with the central and eastern parcels. Leigh was also responsible for the Traffic and Transport chapter of the Planning Report and the design of site entrances for the solar farm. Leigh assisted in drafting the construction methodologies in the construction and environmental management plan. The application was successfully submitted to the local authority in mid-2024.

- **Ballylongford Solar Farm, 2023.**

Ballylongford Solar Farm is a 70MW commercial solar farm development in Co. Kerry. Leigh coordinated the site entrance and traffic impact assessment and design of the site and led the consultation with the local roads department. He was responsible for the Traffic and Transport assessment and the Construction Environmental Management Plan within the Planning and Environmental Report. The project received a conditional grant of permission from the local planning authority.

- **Rahanisky Solar Farm, 2023.**

Rahanisky Solar Farm is a 30MW commercial solar farm development in Co. Cork. Leigh led and coordinated the initial feasibility and design of the site which progressed to planning application stage. He is responsible for the Traffic and Transport assessment and the Construction Environmental Management Plan within the Planning and Environmental Report. The application was successfully submitted to the local authority in 2023.

- **Millvale Declaration of Identity (DoI) and Planning Compliance, 2021.**

Leigh led the site inspection for the first commercial Irish solar farm DoI and Planning compliance checks. He completed the compliance report providing evidence of the development conforming to local authority planning conditions and ensured development boundaries were within the consented lands.

- **Coumnagappul Wind Farm, 2023.**

Coumnagappul wind farm is a large scale wind energy development located upland in Co. Waterford on the Knockanna Mountain. The wind farm comprises 11 turbines with a total installed capacity of up to 72MW. Leigh assisted in the design of wind farm infrastructure including the design of a bridge crossing location. Leigh was responsible for the Traffic and Transport assessment and Scoping Report for the wind farm application. The application was successfully submitted to the local authority in 2023.

- **Woodstock Tourism Accommodation, 2021.**

Prepared the Engineering Feasibility Report for a 60 unit tourism accommodation development within the Woodstock Estate of Inistioge, County Kilkenny. The report evaluated the viability of the development in terms of site access, location of the development, services, water and wastewater, and ancillary facilities.

- **Dunkettle Interchange Upgrade Scheme, 2024.**

Responsible for environmental monitoring (noise, vibration, and particulates) at Viatris pharmaceutical manufacturing plant for a major infrastructure project including site visits, troubleshooting, maintenance, and online monitoring. Construction was completed on the project in early 2024.

- **Ballinagree Wind Farm, Co. Cork.**

Conducted a geotechnical walkover – including peat depth probing, shear vane tests, recording slope angles and identifying possible borrow pit locations. Carried out a receptor survey on site to determine active dwellings and commercial buildings in the vicinity of the wind farm site. Undertook a planning search for the site to determine nearby developments.



Leigh Doyle

Senior Project Engineer



- **Annagh Wind Farm, Cork.**

Undertook a bridge inspection and assessment of proposed horizontal directional drilling location and assessment of the local road network along the turbine delivery route for a 6-turbine wind farm application in North County Cork.

- **Knockraha Synchronous Compensator, Cork.**

Conducted a site access survey to determine suitable entrances to the site that conform to TII requirements for direct access. Completed a geotechnical walkover of ground conditions on site.



Tom Clayton

Associate Director (Geotechnical)



Profile

Tom is a Chartered Engineer with a total of 15 years of experience within the geotechnical sector having developed excellent skills in analytical design (including finite element analysis), project and team management.

Tom has significant and broad experience in the geotechnical sector, having developed key expertise in transport geotechnics (for road, rail, underground rail schemes, active travel and greenway schemes), deep excavations and shafts (primarily in the Middle East and London) and Energy Geotechnics (both for solar and wind farms).

Tom also specialises in earthwork stabilisation and has worked in asset management and design consultancy roles for both highways and rail projects.

Tom has 10 years' experience as geotechnical lead on a variety of projects with over 5 years of this experience as the lead geotechnical engineer in Fehily Timoney.

H&S

Tom has been responsible for the management of Design Health and Safety at all stages of projects from conception to construction completion both in the UK and Ireland. Tom has overseen Design Stage Health and Safety across different sectors, including ground engineering, roads and rail projects. Tom has undertaken the role of PSDP on a number of projects.

Key Skills

Tom's experience includes:

- Geotechnical Engineering
- Geotechnical Design
- Site Inspections
- Deep Excavations & Underground Structures
- Geotechnical Asset Management & Slope stabilisation
- Site Investigation

Previous Experience Essentials for This Project

Deep Excavations

- **Thames Tideway Tunnel Tender (West & Central Station) – Ferrovial Laing O'Rourke, 2014**

Geotechnical Designer producing geotechnical interpretative and tender design notes for Thames Tideway Tunnel West & Central section tender (total value approximately £300M – 500M for each section). Interpretation of ground investigation, production of characteristic design values, designer's risk assessment, preliminary design and input into the contractor's risk analysis. Leading a team of two engineers.

- **STEP Tunnel, Abu Dhabi – Samsung, 2011**

Design of circular shafts using Plaxis2D including uplift calculations and consideration of internal water pressure and structures. Mentoring a trainee engineer.

Key Information

Qualifications

MEng. (Distinction) Civil Engineering,
University of Surrey, 2008

BREEAM Infrastructure Assessor

Professional Memberships

Institution of Civil Engineers
(Member) 2015

Chartered Engineer (CEng), 2015

Employment History

2016- Present

Fehily Timoney & Company
Principal Geotechnical Engineer

2008 – 2016

Arcadis UK (Formerly Hyder
Consulting)

2004 – 2008

Hyder Consulting (Undergraduate)



Tom Clayton

Associate Director (Geotechnical)



• **Whitechapel Station (Crossrail) – Crossrail, 2011**

Undertook geotechnical design on structures at Whitechapel Station. Work included finite element modelling and pseudo finite element modelling of deep box structures constructed using diaphragm walls with incoming and adjacent tunnels, pile design, 2D PFE modelling and design of multi-propped contiguous pile walls and preparation of geotechnical baseline reports.

• **Botanica Tower, Dubai & Al Quds Tower - Doha Select Group, 2010**

Completed a piled raft foundation design for a 40 storey structure in Dubai with 3 basement levels and a 100 storey tower with 5 basement levels and associated podium structures. Tom produced a finite element models (in MidasGTS) of the tower foundations in order to calculate settlement and pile forces and verified the results using several other computer packages.

• **Khatt Hotel, Ras Al Khaimah - Khatt Hotel, 2007**

On site as the supervising engineer at the Khatt Hotel, a ground and structural stabilisation project in the United Arab Emirates. Tom's responsibilities included daily supervision of micro-piling and retaining wall construction, monitoring of structural cracks and slope movements and general liaison with the Contractor's engineers on site to ensure compliance with specification.

• **Borough Green to Trosley Pipeline Directional Drilling, 2010**

Specification and supervision of ground investigation, preparation of a design report including settlement calculations for a directionally drilled pipeline below the M20 motorway in Kent. Liaison with the Highways Agency to ensure approval. Supervision of directional drilling works to ensure specified settlement criteria were met.

Dynamic Compaction

• **Al Falah Ground Improvement Scheme, Abu Dhabi - Fluor, 2009**

Settlement calculations based on the interpretation of CPT and Pressuremeter data and comparison against calculated trigger values to ensure adequate improvement of ground stiffness by dynamic compaction methods. This scheme was, at the time, thought to be the largest ground improvement scheme in the world.

Roads

• **N19 Shannon Airport Access Road, Ongoing**

Associate Geotechnical Director geotechnical assessments as part of Phase 1-4 of the EIAR process. Scope, procure and manage the detailed ground investigation for the scheme, involving scheduling of laboratory testing on soil and rock samples, including soft ground. Provision of a GIR and GDR for the scheme.

• **Dunkettle Interchange, Ongoing**

Principal Engineer for the reconfiguration of the Dunkettle Interchange to a free flowing interchange including:

- A series of direct road links between the N8, the N25 and the N40 and links to the R623 Regional Road in Little Island and Bursys Bridge in Dunkettle;
- 1 grade separated junction arrangement at the existing N25 to the east of the existing Dunkettle Interchange;
- 4 roundabouts – 2 at the grade separated junction and 2 at tie ins with the existing road network;
- 51 major structures of various forms;
- Several culverts where the scheme crosses watercourses or intertidal area
- Pedestrian and cyclist facilities; and
- Modification of the existing Silversprings junction on the N8 Lower Glanmire Road

Geotechnical lead for structures foundations and approximately a third of the earthworks. Responsible for the scoping of the ground investigation, preparation of specification and bill of quantities, managing a team of supervisors on site, laboratory testing scheduling and interpretation of two phases of extensive ground investigation for this significant infrastructure project.

• **A737 Dalry Bypass - Farrans-Roadbridge, Ongoing**

Tom has been responsible for project management of the design of the Dalry Bypass during the latter design phase and through construction to date. He has acted as a geotechnical auditor and internal checker for earthworks packages delivered. Tom also undertook design of a pipeline protection slab related to SGN infrastructure crossing the proposed alignment.

• **Manchester Smart Motorway - Highways England, 2014**

Completion of a Preliminary Sources Study and detailed design for gantries and retaining structures for a £208M "Smart motorway" scheme on the M60/M62. Leading a team of two graduate engineers and up to three engineers based in India. The role involved the development of characteristic design values, pile group analysis for all gantries and design of retaining structures on sloping ground. Preparation of Design Risk Assessments for all designs.



Tom Clayton

Associate Director (Geotechnical)

- **Geotechnical Asset Management Plan – Highways England, 2013**

Tom completed a full review of the asset inventory in Mac Area 3, prioritised earthwork repairs based on the Value Management Plan, risk profiling and available economic and physical resources and produced a five-year plan for earthwork remedial works across the area.

- **Area 3 Value Management Plan – Highways England, 2013**

Tom undertook detailed design a sheet pile based widening scheme to facilitate a new slip road at Milton Interchange which was in turn related to a new housing development adjacent to the site. This included the use of retaining wall design software, specification, Designer's risk assessments (in accordance with CDM regulations) and all other documentation for a "For Construction" set of documents.

- **Area 3 Principal Earthwork Inspections – Highways England, 2013**

Tom managed a team of 3 Geotechnical Engineers to undertake Principal Inspections (and undertook inspections himself) across the Area 3 network across two annual inspection cycles, totalling some 500 miles of highway geotechnical asset. Tom used a PDA on site to enter information into the Highways England HAGDMS database and then carried out quality control assessments on the data. Tom also trained other staff in the undertaking of geotechnical earthwork inspections. Tom produced a safety system for inspectors which complied with the Highways England methodologies for working on the highway which included a buddy and daily reporting system.

- **EM47609 – M4 J10 Granular Repair – Highways England**

Project Manager and design lead for a granular repair adjacent to a highway bridge at M4 J10. Tom undertook scoping and management of site investigation, supervision of site clearance and site investigation, undertook the role of Contractor on site from a health and safety perspective. Carried out detailed design and liaised with the site team to ensure compliance with the design.

- **M25 Rapid Widening – Highways England, 2006**

Undertook design of retaining walls, re-graded slopes, reinforced soil and soil nails using computer analysis programs to BS8002 and BS8004 for the Rapid Widening of a section of the M25 Orbital Motorway, London, UK.

- **A34 Milton Interchange Slip Road – Highways England, 2013**

Tom undertook detailed design a sheet pile based widening scheme to facilitate a new slip road at Milton Interchange which was in turn related to a new housing development adjacent to the site. This included the use of retaining wall design software, specification, Designer's risk assessments (in accordance with CDM regulations) and all other documentation for a "For Construction" set of documents.

Chieveley Pond Flood Alleviation Scheme – Highways England, 2013

Project Manager for the undertaking of ground investigation at Chieveley Ponds, which involved the completion of boreholes and the installation of water level data loggers to assess the viability of an alleviation scheme for road surface flooding at the junction. Tom completed the ground investigation tender and completed CDM documentation for same.

- **M27 Romsey Bridge – Highways England, 2013**

Project Manager for the replacement of an existing bridge structure. This project included the consideration of the re-use of bridge abutment piles and an assessment of load takedown for a new structure. Tom also undertook scoping and specification of ground investigation at the site as well as preparation of CDM documentation for same.

Rail (Summary)

- **Wessex CP5 Design Manager Role – Network Rail, 2015**

Project Manager of 10+ schemes totalling £1M+ of design fee. Tom coordinated a multi-disciplinary design team and liaised closely with a co-located team from the client (the contractor) and NR. Tom administered the contract (early warning notices, change controls etc.), compiled fee proposals, created and maintained a programme and managed client expectations. Tom was also responsible for ensuring that all design team risk assessments were completed and collated in accordance with CDM regulations.

Wessex CP5 Technical Lead Role – Network Rail, 2017

Design lead of a team of up to 5 geotechnical engineers and CAD staff producing designs for multiple earthwork stabilisation projects in the NR Wessex region of total values ranging from £200k to £2M. Tom produced Option and Feasibility Reports and ground investigation specifications. Tom adhered to the NR design process (Form 001, 002 and 003) to produce detailed designs for earthwork schemes including soil nailing, sheet piling, gabions and king post walls. Tom also produced Designer's Risk Assessments for each scheme.



Tom Clayton

Associate Director (Geotechnical)

Peatland Restoration

- **Derryclare Peat Restoration Project – MKO/Coillte, 2023**

Associate Geotechnical Director for this peat bog restoration project in Co. Galway. Work included peat stability assessment, peat probing.

Flood Defences

- **IDA Limerick Flood Alleviation Scheme – IDA, 2021**

Lead Geotechnical Engineer for this flood defence scheme. Responsible for scoping, procuring, supervising site investigation consisting of trial pits, boreholes, geophysics and laboratory testing. Scheduling of laboratory testing. Interpretation of ground investigation and inputs to preliminary design for flood defence scheme.

- **Titchwell Marsh, Norfolk – RSPB, 2021**

Acted as consultant's representative on site at RSPB Titchwell Marsh for this flood defence and managed retreat scheme aiming to create new saltmarsh and protect existing Freshwater marsh, liaising with the client and the contractor and managing site queries, design changes (including updates to Design Risk Assessments) and payment certification to the contract.

Greenways

- **Grand Canal Greenway Phases 1 & 2, Ongoing**

Associate Geotechnical Director responsible for the design of works for the Grand Canal Greenway Phases 1 & 2. The projects include the design, procurement and construction supervision for walking and cycling routes along the grand canal, including new pedestrian bridges, canal bank widening, pavement design, under bridge crossings and design of trail heads. Total length is approximately 40kms. Scope included scoping, procuring, supervising site investigation consisting of trial pits, boreholes, geophysics and laboratory testing. Scheduling of laboratory testing.

- **Wexford to Rosslare Greenway, 2020**

Associate Geotechnical Director responsible for the route selection, preliminary design, environmental assessment and statutory consent processes for the greenway. The Wexford Town to Rosslare Strand Greenway route will commence in the vicinity of proposed Trinity Wharf development in Wexford Town and extend in southerly direction over an approximate distance of 10-12km to terminate at Rosslare Strand Train Station.

- **Limerick Greenway Limerick, €10M, 2022**

Associate Geotechnical Director for the design of improvement works to 40km of the great southern greenway in Limerick. Works include widening, resurfacing, over bridges and under passes, drainage improvements and trailhead design. Scope included scoping, procuring, supervising site investigation consisting of trial pits, boreholes, geophysics and laboratory testing. Scheduling of laboratory testing. The design phase has been completed and the project is commencing construction.

- **Barrow Blueway Road Crossings, €TBDM, Ongoing**

Associate Geotechnical Director for the design of road crossings and new pedestrian bridges associated with the Barrow Blueway. Scope included scoping, procuring, supervising site investigation consisting of trial pits, boreholes, geophysics and laboratory testing. Scheduling of laboratory testing.

Wind

- **Ballivor Wind Farm – MKO, 2023**

Associate Geotechnical Director for this Peat Stability Assessment and Peat & Spoil Management Plan for EIAR submissions. Site walkover, collation of data, stability assessment, assessment of peat and spoil volumes. Scope, procure and supervision of ground investigation on peatland site and scheduling of laboratory testing.

- **Sheskin South Wind Farm – MKO, 2023**

Associate Geotechnical Director for this Peat Stability Assessment and Peat & Spoil Management Plan for EIAR submissions. Site walkover, collation of data, stability assessment, assessment of peat and spoil volumes. Scope, procure and supervision of ground investigation on peatland site and scheduling of laboratory testing.

- **Glenora Wind Farm – MKO, 2023**

Associate Geotechnical Director for this Peat Stability Assessment and Peat & Spoil Management Plan for EIAR submissions. Site walkover, collation of data, stability assessment, assessment of peat and spoil volumes. Scope, procure and supervision of ground investigation on peatland site and scheduling of laboratory testing.

- **Croaghaun Wind Farm, 2022**

Associate Geotechnical Director for the production of EIAR Soils & Geology Chapter for this wind farm project.



Tom Clayton

Associate Director (Geotechnical)



- **Coom Green Energy Development, 2020**

Associate Geotechnical Director for the production of EIAR Soils & Geology Chapter for this wind farm and solar energy project in Co. Cork. Included the scoping, specification, procurement, supervision, management and interpretation of ground investigation and scheduling of laboratory testing.

- **Derrinlough Wind Farm – Bord na Mona, 2022**

Associate Geotechnical Director providing geotechnical advisory to Bord na Mona for this wind farm project. Included the completion of laboratory testing schedules to allow detailed design of all elements of the works on this project.

- **Kilgallioch Wind Farm, Farrans, 2018**

Tom took over the Project Manager role for this award winning 96 turbine wind farm project in Scotland towards the end of the construction stage and was responsible for closing out as-built drawings. Tom also undertook the role of Geotechnical Design Lead for a replacement turbine foundation at one location and undertook the formation inspection during the construction of this turbine.

- **Derrysallagh Wind Farm Substitute Consent – Kilronan Wind Farm Ltd, 2018**

Tom was the Geotechnical / Geology Lead for the preparation of a Soils, Geology and Hydrogeology chapter for a retrospective EIS relating to the construction of an electrical cable route from Derrysallagh Wind Farm to a nearby electrical sub-station. As part of this assessment, Tom undertook a full desk study, site visit and provided an assessment of potential and cumulative impacts of the development (including with the wind farm development itself) and mitigation measures that could be implemented.

- **Gortfinbar Phase 2 – Moriarty Civil Engineering Contractors, 2017**

Tom acted as Category III checker for a piled turbine base foundation at this Northern Irish Wind Farm. Tom carried out an independent set of calculations and provided comments to the Designer. Tom also provided slope stability assessments for access road rock cuttings.

- **Teevurcher Wind Farm - Roadbridge, 2017**

Tom was the Lead Geotechnical Designer for this 5 turbine wind farm in Co. Meath and carried out full interpretation of the ground investigation and geotechnical design for all turbine foundations, hardstandings, access roads, substation foundations and met mast. Tom also provided construction stage support, formation inspections and verification of geotechnical testing for all of the above elements.

- **Meenwaun Wind Farm - Roadbridge, 2017**

Tom was the Lead Geotechnical Designer for this 4 turbine wind farm in Co. Offaly and carried out full interpretation of the ground investigation and geotechnical design for all turbine foundations, hardstandings, access roads, substation foundations and met mast. Tom also provided construction stage support, formation inspections and verification of geotechnical testing for all of the above elements.

- **Proposed Wind Farm, Co. Kerry – Joam Consulting Ltd, 2016**

Tom was the Project Manager for this peat stability assessment for a proposed wind farm in Co. Kerry. Tom oversaw the conducting of peat probing and field visits to the site and the preparation of a peat stability assessment in line with Scottish guidance on the preparation of Peat Stability Assessments. This project also involved the 3rd party check of a soil, geology and hydrogeology chapter prepared by others.

- **Raragh Wind Farm – Mainstream Renewables, 2016**

Tom was the Geotechnical / Geology Lead for the preparation of a Soils, Geology and Hydrogeology chapter for an EIS relating to the construction of an electrical cable route from Raragh Wind Farm to Kingscourt, Co. Cavan. As part of this assessment, Tom undertook a full desk study, site visit and provided an assessment of potential and cumulative impacts of the development (including with the wind farm development itself) and mitigation measures that could be implemented.

- **Proposed Wind Farm, Co. Donegal – Element Power, 2016**

Tom was the Geotechnical / Geology Lead for the preparation of a Peat Stability Assessment for an EIS relating to the construction of a Wind Farm in Co. Donegal which was a proposed as an 8 turbine site. Tom oversaw the conducting of peat probing and field visits to the site and the preparation of a peat stability assessment in line with Scottish guidance on the preparation of Peat Stability Assessments



Tom Clayton

Associate Director (Geotechnical)



Contaminated Land and Waste

- **Whitestown Landfill Remediation Project, Ongoing**

Tom was Lead Geotechnical Engineer for ground investigations carried out on this significant landfill site in Co. Wicklow. Investigation involved a grid of trial pits (100+) with environmental testing, installation of groundwater monitoring wells and investigation boreholes (89 no.) across the site and extensive geophysical investigation using seismic refraction, electrical resistivity and ground conductivity. Works included the scoping of the SI, preparation of extensive specification and tender documents, procurement of ground investigation contractors, management of the supervision of the works and interpretation of the ground investigation fieldwork.

- **Dublin Airport Environmental Assessment – daa (on behalf of Roadbridge), 2018**

Tom has been Project Manager for this environmental investigation project which involved the use of a mix of geophysical and intrusive investigation to map buried waste across a 261-hectare area on the outskirts of the Airport and then the use of environmental sampling to inform disposal and re-use of the materials encountered. Tom led a team including geo-environmental and waste teams and liaised with site investigation contractors.

- **Timolee Landfill Remediation Tender Design – Priority Construction, 2018**

Tom has been the Project Manager and Geotechnical Lead for this remediation design for the removal of 40,000+m³ of assorted waste materials from a site in Co. Meath. The project involved use of the Observational Method for the ongoing assessment of slope stability, with mitigation measures including sheet piling and the construction of berms and dewatering trenches included in the design should signs of instability occur.

- **Dublin Airport Stockpile Soil Classification – daa (on behalf of Ramboll), 2018**

Tom was the Project Manager for this Soil Classification project relating to 70,000+m³ of mixed stockpiles and made ground at Dublin Airport. Tom undertook the management of environmental engineers, site investigation contractors and laboratories in order to produce a Soil Classification Report as part of the tender for removal and disposal of these soils as waste materials.

- **Newhaggard Soil Classification – Fingal County Council, 2018**

Tom was the Project Manager for this Soil Classification project near Lusk, Co. Dublin. 41,000m³ of soil had been deposited previously within the Rogerstown Estuary and the project involved the classification of these soils for re-use, both in terms of contaminants and from a geotechnical point of view. Tom managed sub-contractors to carry out site investigation and staff to prepare a Soil Classification Report.

- **Ballyogan Landfill, 2017**

Tom was the Geotechnical Slope Inspector for this landfill, which included a visual inspection of all side slopes and reporting on any slope stability issues to satisfy the EPA waste licence criteria.

- **Balleally Landfill, 2017**

Tom was the Geotechnical Slope Inspector for this landfill, which included a visual inspection of all side slopes and reporting on any slope stability issues to satisfy the EPA waste licence criteria.

- **Dunsink Landfill, 2017**

Tom was the Geotechnical Slope Inspector for this landfill, which included a visual inspection of all side slopes and reporting on any slope stability issues to satisfy the EPA waste licence criteria.

- **Gortadroma Landfill Slope Stability, 2017**

Tom was the Geotechnical Slope Inspector for this landfill, which included a visual inspection of all side slopes and reporting on any slope stability issues to satisfy the EPA waste licence criteria.

H&S

- **Loughshinny Waterbath Upgrades, Ongoing**

Tom is currently undertaking the role of H&S Coordinator for this gas upgrade project.

- **Gormanstown Boiler Upgrades, Ongoing**

Tom is currently undertaking the role of H&S Coordinator for this gas upgrade project.



Tom Clayton

Associate Director (Geotechnical)



- **Diswellstown AGI Upgrades, Ongoing**

Tom is currently undertaking the role of H&S Coordinator for this gas upgrade project.

- **Belview AGI Upgrade**

Tom undertook the role of PSDP for the upgrade of this Above Ground Installation (AGI) at Belview, Dublin.

- **Nangor Road AGI Upgrade**

Tom undertook the role of PSDP for the upgrade of this Above Ground Installation (AGI) at Nangor Road, Dublin

- **4Bar in Building Upgrade Programme, Going**

Tom is currently undertaking the role of PSDP for the upgrade of this extensive residential and commercial property gas upgrade programme throughout Ireland.

- **A737 Dalry Bypass – Farrans Roadbridge, Ongoing**

Tom is currently undertaking the role of Principal Designer during the construction stage of this 4km long new build Bypass in Scotland which includes a multi-span viaduct structure, roundabouts, overbridges, underbridges and other associated highway infrastructure. This role includes liaison with multiple design teams and contractor's temporary works coordinator.

- **Dublin Airport 5H Apron, Ramboll**

Tom undertook the role of PSDP for Fehily Timoney on this extension to the existing apron at Dublin Airport. Tom has liaised with all Designer's at design phase to ensure compliance with the regulations and prepared Preliminary health and safety plans for various works packages.

- **Centre Parcs Feeder Main - Fingleton White**

Tom acted as PSDP and as Geotechnical / Geology lead for this new gas main linking Center Parcs into the gas grid. The scheme is in multiple phases, with ground investigation phase, 1st phase and 2nd phase being undertaken. Tom's role includes liaison with designers and contractors, attendance at all progress meetings, site visits and other communication required to undertake the role. Tom also undertook the Soils, Geology & Hydrogeology chapter during the planning process for the scheme.

- **Mitchelstown Biomethane Plant- Fingleton White**

Tom undertook the role of PSDP during the preliminary design phase for this biomethane injection facility in Co. Cork. Tom also was responsible for the geotechnical team who scoped, procured and managed the site investigation for the project and produced a Geotechnical Investigation Report summarising the geotechnical interpretation and design inputs.

- **Ballincollig AGI Upgrade - Fingleton White**

Tom undertook the role of PSDP during the construction phase for the upgrade of this Above Ground Installation (AGI) at Ballincollig, including preparation of the safety file and liaison with the contractor.



Pablo Delgado

Lead Drainage Engineer/Principal Engineer



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

Profile

Pablo is a Chartered Civil Engineer with 10 years' experience in planning, design and construction of hydraulic engineering projects and has experience working with Clients and Contractors. Specializing in hydraulic infrastructures, Pablo focuses on working with all project stakeholders to produce practical, efficient designs and on resolving issues that arise through the course of the works. Pablo has an excellent knowledge of hydraulic design, which extended to the creation of 'best-practice' guidelines, and has expertise drainage design, standards and tools. He has experience of delivering drainage designs in a D&B and PPP environment and has developed designs for construction in the UK, Ireland and Spain.

Key Skills

Pablo's qualifications and experience exceeds the minimum requirements for the role of Drainage Lead Engineer. He has achieved bachelor's degrees, Post-Graduate Diplomas in civil engineering disciplines up to NFQ Level 8 and 9, with a strong focus on hydraulic design and project management. Additionally, he has completed the Designing for Safety in Construction Course to comply with the safety and best practices in the industry. Pablo has 10 years' experience as a drainage engineer in drainage design for large roads and infrastructure projects.

Previous Experience Essentials for this Project

• **Ballylickey Flood Defences, 2023.**

Pablo was the drainage designer for the Flood Defences Study in the Ballylickey, Co. Cork. The project involves the hydrological and hydraulic analysis of the river Owvane, river modelling using Hec-Ras under the tide water level regime of the area, provide the required flood defences to protect the existing properties and the road R584 located on the right bank of the river.

• **N72/N73 Mallow Relief Road, €50m, 2023.**

Pablo was the drainage designer for the flood studies which involves one bridge (32m span) and 5 culverts of large dimensions, a flood compensation area, flood maps, section 50 applications and the technical report.

• **N22 Baile Bhuirne to Macroom, Detailed Design, €280m, 2023.**

Pablo was working on the drainage design. This role involved the delivery of the following tasks: preparation of conceptual drainage designs, pre-earthworks drainage, network drainage, culvert design, stilling basin, scour protections, attenuation and pollution control, 3D modelling of drainage designs using Micro-drainage, updating drainage designs following review, preparation of design at key submission stages, further optimization of models, preparation of drainage schedules, design of SuDS drainage systems prior to draining to receptor and preparation of final model for submission. Pablo provided supervision, support, and technical advice to the team member of the Drainage team.

• **N5 Ballaghaderren to Scramoge Road Project, €200m, 2022.**

Pablo was the Third-Party Checker for the drainage design packages in the construction of 34 km of a new single carriageway road from the western end of the existing N5 Ballaghaderren Bypass to the townland of Scramoge in county Roscommon. He was responsible for reviewing all the drainage design packages of the project: pre-earthworks drainages, networks drainages, attenuation and pollution control, and culverts.

Key Information

Qualifications

B.E. Civil Engineering - University of Zaragoza, Spain (2014).

B.E. Technical Engineering in Public Works - University of Zaragoza (2012).

Master's degree in project Management – Polytechnic University of Valencia, Spain (Present).

Post-Graduate Diploma in Project Management - Polytechnic University of Valencia, Spain, (2021).

Post-Graduate Diploma in Analysis and Design of Water Networks - Polytechnic University of Valencia, Spain, (2019).

Post-Graduate Diploma in Hydraulic and Environmental Infrastructures in Urban Areas - University of Zaragoza, (2012).

Certified Diploma in Hydraulic Transient Analysis of Water Networks - Polytechnic University of Valencia, Spain, (2020)

Professional Memberships

Chartered Engineer, Engineers of Ireland 2023

Employment History

2022 to Present

Principal Engineer/Drainage Lead, Fehily Timoney and Company

2020 – 2022

Senior Project Engineer, J.B. Barry and Partner Ltd.

2016 – 2020

Senior Project Engineer, Clandillon Civil Consulting Ltd.

2015 – 2016

Assistant Project Manager, Société Générale de Surveillance

2014 – 2015

Design Engineer of hydraulic projects, Perez Benedicto, S.L.

2012 – 2012

Assistant Site Manager, Ingeniería y Obras Aragonesas del Ebro, S.L



Pablo Delgado

Lead Drainage Engineer/Principal Engineer



DESIGNING AND DELIVERING
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He provided RFI reports to the designer company with technical comments to improve their design with the goal to provide the Design Certificates to allow the design to go to next step of review with the Employer Representative.

- **Ten-T Section 1 – N15/N13 Ballybofey / Stranorlar Urban Region, €90m, 2022.**

Pablo was the drainage designer responsible to deliver the Flood Study including hydrological analysis, hydraulic analysis, flood maps and section 50 application for the existing and proposed bridge in the river Finn.

- **N16 Lugatober Drumkilsellagh to Lugnagall, €28m, 2021.**

Pablo supervised the team members and provided technical advice to the Project Manager. He was responsible for developing designs for scour protections in streams, culverts, and abutments. Additionally, he thoroughly reviewed and refined hydraulic models for streams and culverts to ensure that they met the project's requirements.

- **Temporary HGV Parking Facility, 2020.**

Pablo was the Drainage Designer of this project, this role involved the delivery of the following tasks: preparation of conceptual drainage designs, network drainage, attenuation and pollution control, 3D modelling of drainage designs using Microdrainage, preparation of drainage schedules, design of SuDS drainage systems prior to draining to receptor and preparation of final model for submission. Pablo provided supervision, support and technical advice to the team member of the Drainage team.

- **N4 Collooney to Castlebaldwin, Detailed Design, Major Road, €150m, 2020.**

Detailed Design: Drainage designer with responsibility for completing detailed drainage network design to optimize the overall design for the Contractors on a 14km major road project. Provided technical advice and guidance to the Project Manager and team members, supervise team members, develop 3 flood studies for river and lakes, design of a hydraulic control to control water levels in lakes (weir), design and optimization of extensive drainage networks and APC systems (Attenuation pond and linear wetlands), culvert design, design of SUDS and pre-earthwork drainages, design of surface water channels, preparation of section 50 and 47 applications to the OPW. Tender Design: Pablo was the drainage designer with responsibility for preparing drainage tender design for submission as part of tender package for the bidding Contractor. Work included review of different drainage options to optimise the final design including the design of sealed drainage system in areas of underlain by karstified bedrock or prone to flooding, assessment of culvert and pipe sizing, attenuation pond sizing for attenuation and pollution control and production of drainage schedules and drawings. Drainage models were produced using Civil3D and Autodesk Storm & Sanitary Analysis software.

- **N8 Dunkettle Interchange Upgrade Scheme, €215m, 2020.**

As part of CCC's drainage design team for this complex road project, Pablo was working on the drainage design for the interchange scheme and various linkages. This role involved the delivery of the following tasks: review of drainage design statement, preparation of conceptual drainage designs, pre-earthworks drainage, network drainage, culvert design, attenuation and pollution control, 3D modelling of drainage designs using Micro-drainage, updating drainage designs following review, preparation of design at key submission stages, further optimization of models, preparation of drainage schedules, design of SuDS drainage systems prior to draining to receptor and preparation of final model for submission. Pablo provided supervision, support, and technical advice to the team members of the Drainage team.

- **N5 Westport to Turlough Road, €170m, 2020.**

As part of the detailed design for this 6.9km national road upgrade project, Pablo completed the flood study including flood mapping for existing and proposed structures using HEC-RAS proprietary hydraulic analysis software. The design of a further five culverts was completed using Civil 3D and CulvertMaster software packages.

- **N56 Lettermacaward to Glenties (Kilraine), Detailed Design, €23m, 2020.**

As part of the detailed design for this 6.9km national road upgrade project, Pablo completed the flood study including flood mapping for existing and proposed structures using HEC-RAS proprietary hydraulic analysis software. The design of a further five culverts was completed using Civil 3D and CulvertMaster software packages.

- **Ulster Canal Green Way Phase 3, Constraints Report, 2019.**

As part of the development of the constraints study, Pablo undertook a desktop review and a site visit of the study area with a view to identifying and mapping engineering constraints present along each of the potential route corridors which had been identified. The site walkover involved carrying out checks of existing embankments along the canal, identifying evidence of historic flooding and developing an interactive database of photos (normal and 360 spherical photos) along the canal.



Pablo Delgado

Lead Drainage Engineer/Principal Engineer



DESIGNING AND DELIVERING
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- **High Speed 2 Early Works Package WP51 Drainage (HS2 EWC WP51), 2018.**

Pablo was the Drainage Designer for Work Package 51 which forms part of the HS2 enabling works. This role involved the delivery of the following tasks: review of drainage design statement, preparation of conceptual drainage designs, pre-earthworks drainage, network drainage, culvert design, attenuation and pollution control, 3D modelling of drainage designs using Microdrainage, updating drainage designs following review, preparation of design at key submission stages, further optimisation of models, preparation of drainage schedules, design of SuDS drainage systems prior to draining to receptor and preparation of final model for submission. Pablo provided supervision, support and technical advice to the team member of the Drainage team of Ramboll in the Birmingham office.

- **A9 Luncarty – Pass of Birnam, Tender Design, 2018.**

Pablo was the Drainage Designer responsible for checking and developing all elements of the specimen drainage design on the 9.5km A9 Luncarty – Pass of Birnam tender in Scotland. Pablo was responsible to review and provide optimizations for the drainage networks, attenuation pollution control ponds, culverts, pre-earthworks drainages, cross drains, networks schedules and drawing for quantities, the drainage tender design for submission as part of the tender package for the building contractor.

- **Mullinure, 2018.**

Pablo was the Drainage designer for link road associated with a residential development area in Co. Armagh, Northern Ireland. Specific project tasks included the development of pre-earthworks, network drainages and attenuation facilities. Outputs included: preparation and analysis of drainage model incorporating surveys and existing data using Autodesk Storm and Sanitary Analysis and Civil 3D, design and development of drainage standard details, design of pre-earthworks drainage system, developing carrier drain design networks and gully layouts, preparation of drainage specification, finalisation of drainage drawings and preparation of drainage package for submission.

- **A737 Dalry Bypass Contractor's Designer, €31m, 2017.**

Pablo was the Drainage designer responsible for delivery of pre-earthworks drainage, culverts, network drainage and attenuation design on a 4km D&B highways project in Scotland. Drainage design involved the following works: networks and pre-earthworks drainage to 3.8km carriageway (2.45km 2 + 1 with overtaking lanes and 1.35km single carriageway), substantial incorporation of overland flow into some mainline networks, 6 no. culverts and 2 no. stream diversions, 5 no. outfalls to existing surface waters via SUDS basins and additional outfalls to existing drainage networks, deck drainage to 250m viaduct over Garnock River, consultation with SEPA and production of CAR applications, modelling of all networks and SUDS systems using Civil 3D Storm and Sanitary Analysis module to agree parameters from contract documents and discussion with SEPA.

- **N25 New Ross Bypass, €230m, 2017.**

Pablo was the drainage designer responsible to deliver the Flood Risk Assessment including hydrological analysis, hydraulic analysis for the existing and proposed scenario in the river Barrow and the stream Aughnacrew. Provide the 1D hydraulic model for the mentioned scenarios, prepare the flood maps, drawings, and the corresponding report.

- **Pembroke Hill, 2017.**

Pablo was the Drainage Designer responsible to deliver the design the drainage design for a new link road associated with a residential development area in CO. Wexford, Ireland. The project involves network drainage, attenuation and pollution control (attenuation ditches), pre-earthworks drainages, cross drains and a settlements analysis. The relevant achievement in the project involved the optimization of the network drainages using over the edge interceptor ditches, the implementation of check dams in the attenuation ditches to provide the attenuation and treatment.

- **Leanamore Wind Farm, 2017.**

Pablo was the Drainage Designer for the project Leanamore Wind Farm, which comprised of 9 Wind Turbine Generators (WTG), a substation, a large contractor compound; 5 km of services route comprised both floated and founded construction. The project involves extensive ditch networks, cross drains and facilities treatment. The relevant achievement in the project involved the temporary and permanent drainage networks (ditch networks) and the settlement ponds, hydrologic and hydraulic analysis of the area, prepare standard details, site visits, meeting with the Client and Contractor.

- **PDM Infrastructure, 2017.**

Drainage Designer assisting in the development of drainage and attenuation systems as part of the refurbishment of a 17Ha commercial development in Co. Kildare. The works were procured under an ECI target cost model and involved the design and construction of separate foul, surface water and roof water systems, attenuation measures and a waste-water treatment plant. Works included the assessment of an existing drainage system and catchment analysis before development of a detailed drainage design with separate systems for roof and surface water. Optimisation of the design resulted in reduction of main spine road collector pipe diameter and reductions in trench depths and slopes where feasible.



Pablo Delgado

Lead Drainage Engineer/Principal Engineer



- **Modernisation of irrigation system of “Molinar del Flumen” phases I and II, Spain, €43.8m, 2016.**

Pablo was the Technical Assistant of the Project Manager for Molinar del Flumen Project which was a modernisation of the existing irrigation system in the Province of Huesca, Spain. The project involves the construction of a new pressure irrigation network including the installation of extensive pipes pressure pipes (approximately 42km), valves, an irrigation reservoir and a pump station. The relevant achievements in this project involved technical assistance, support and advice to the project manager, supervised the installation of different pressures pipes, valves, pump stations, material movement, meetings with the contractor and suppliers, provide environmental reports, quantities reports.

- **Flood Risk Study of the gravity pipeline for the Avenida de la Industria, Spain, 2015.**

Pablo was the Drainage Designer of the flood risk study for the network drainage of the Avenida de la Industria, Zaragoza, Spain. The relevant achievement in this project involved the analysis of the existing hydraulic capacity of the network drainage, the redesign of the network to increase the hydraulic capacity, site inspections, meeting with the client, the preparation of drawings, networks schedules, hydraulic models and quantities.

- **Drainage Network for the new development in the Air Base of Zaragoza, Spain, 2015.**

Pablo was the Drainage Designer for a new development in the Air Base of Zaragoza, Spain. The relevant achievement in this project involved the hydrologic and hydraulic analysis of the area, the design of a new network drainage, cross drains and pre-earthwork drainages.

- **Flood Risk Protection System for the BSH Factory La Cartuja, Zaragoza, Spain, 2015.**

Pablo was the Drainage Designer of the flood risk study for the network drainage of the factory BSH La Cartuja, Zaragoza, Spain. The relevant achievement in this project involved the design of new network drainage and storage tanks, site inspections, meeting with the client, the preparation of drawings, networks schedules, hydraulic models and quantities.

- **Hydraulic and flood risk study of the gravity pipeline system for the industrial state “INSIDER”, 2015.**

Pablo was the Drainage Designer of the flood risk study for the main collector of the network drainage of the industrial state INSIDER, Zaragoza, Spain. The relevant achievement in this project involved the design of a new pipe line and the design of off-line storage tanks, site inspections, meeting with the client, the preparation of drawings, networks schedules, hydraulic models and quantities.

- **Reform of the theatre and communal zones of the “Colegio Mayor Universitario Virgen del Carmen”, 2012.**

Pablo was the Assistant of the Site Engineer for the project “Colegio Mayor Virgen del Carmen” in Zaragoza, Spain. This project comprised the modernization of the theatre and the communal zones of “Colegio Mayor Universitario Virgen del Carmen”. The relevant achievement in this project involved technical assistance of the Site Engineer, supervision of the supply material, human resources and works; updated the work planning, prepare the scaffolding plan and provide the monthly valuation and progress reports.



Alan Whelan

Senior Project Engineer

Profile

Alan is a Senior Project Engineer at Fehily Timoney and Company working in the Infrastructure Department. He holds a first-class honours Bachelor of Engineering (BEng.) in Civil Engineering from Institute of Technology, Carlow. Since starting work with FT in 2019, he has worked on various geotechnical, highways, structural, environmental monitoring, and energy projects. Alan's experience also includes the design and interpretation of ground investigations, including desk studies, walkover surveys, hazard mapping of excavations and slopes.

Key Skills

- Resident Engineer
- Ground Investigation Scoping and Procurement
- Conceptual Site Modelling
- Peat Stability Assessments for Wind Farms
- Environmental Risk Assessments
- Soil and Groundwater Remediation
- Hydrogeological Assessment
- Investigation of Contaminated Lands and Landfill Sites
- Data Analysis and Interpretation

Previous Experience Essentials for This Project

During his time at Fehily Timoney & Company, he was able to contribute to the geotechnical and structural aspect of some major projects. Some of the major projects he worked on include:

- **Barrow Blueway – Road Crossings & Pedestrian Bridge, Kildare Ireland. (2024)**
Alan assisted on the Employers Representative role for the duration of the construction works, which included contract administration, payment application review/approval, supervision when required to ensure works were carried out in accordance with the Specification. Alan is currently working as Resident Engineer for the duration of the construction works of a Pedestrian Bridge on the scheme.
- **Grand Canal Greenway, Kildare, Ireland. €5,000,000. (2023)**
Alan carried out the Resident Engineer role for the duration of the construction works, which included contract administration, inspections, supervision when required to ensure works were carried out in accordance with the Specification. Alan was also responsible for the Geotechnical Design Report for soil nailing and reinforced soil slope including concrete classifications, settlement determinations and bearing, sliding, and overturning utilization calculations. Slope stability assessments were also carried out as part of the GDR. Liaison with public services representatives to identify services in the area. Developed layout plans at bridge locations to ensure the layout followed Transport Infrastructure Irelands specifications in relation to speed, sightlines etc. Supervision of ground investigation contractors and ensuring all correct procedures were being adhered too.
- **Cliff Protection at Dunmore East Fishery Harbour, Waterford, Ireland (Ongoing).**
Alan assisted with the day-to-day management of intrusive investigations on site, along with vegetation removal from the cliff face, to ensure investigations and works were undertaken in accordance with Designers requirements. Alan was responsible for scope and procurement of the 3D photogrammetry survey of the cliff face.

Key Information

Qualifications

BEng. (Hons) (First Class) Civil Engineering, Institute of Technology Carlow (ITC), 2020

Certificate in Employer Representative on Construction Projects, CMG Training, March 2022

Designing for Safety in Construction Certificate, Engineers Ireland, October 2020

Certificate in Professional Engineering, TU Dublin & Engineers Ireland, May 2021

Professional Memberships

Member of the Institution of Engineers of Ireland (EI)

Employment History

2024 – Present

Fehily Timoney & Company, Carlow
Senior Project Engineer

2022 – 2024

Fehily Timoney & Company, Carlow
Project Engineer

2020 – 2022

Fehily Timoney & Company, Carlow
Graduate Engineer

2019

Fehily Timoney & Company, Carlow
Internship

2018

Applied Ground Engineering
Consultants (AGEC)
Summer Work



Alan Whelan

Senior Project Engineer

- **Cloonkett Wind Farm, Clare, Ireland (Ongoing)**

Alan undertook the installation and management of groundwater monitoring throughout the wind farm site, to gather baseline data prior to any construction works. He carried out geotechnical walkovers throughout the site, along with preparing all relevant reports to support the EIAR for planning purposes.

- **Great Southern Greenway, Limerick, Ireland. €10,000,000, 2022.**

Alan assisted with the day-to-day management of intrusive investigations on site, along the existing greenway route, to ensure site investigations were undertaken in accordance with Designers requirements. Analysis of the recorded ground investigation data for multiple overpasses and underpasses along the greenway layout. Developed Ground Investigation and Geotechnical Design Report for each structure including concrete classifications, settlement determinations and carrying out bearing, sliding and overturning utilization calculations.

- **Dunkettle Interchange, Cork, Ireland. €215,000,000, Ongoing.**

Validation and analyses of recorded ground investigation data. Development of Form C and Technical Acceptance Reports for reinforced earth retaining walls and precast vertical retaining walls, which included carrying out slope stability analyses on the structure.

- **Cork County Bridge Rehabilitation Project, Cork, Ireland. (2022)**

Developed Preliminary Design Reports for numerous bridges, liaison with public services representatives to identify services in the area. Developed Design Risk Assessments for remediation works on these bridges. Created Indicative Traffic Management Plans and Preliminary Health and Safety Plans, where required. Preparation of Bill of Quantities for tender documentation.

- **In-situ Acoustic Measurements of Noise Barriers, Wexford, Ireland. (Ongoing)**

Undertook in-situ testing, Sound Insulation and Sound Reflection tests of noise barriers on the M11, gaining experience working in the vicinity of live traffic.

- **Janssen Ringaskiddy Firewater Lagoon Upgrade, Cork, Ireland. (2021)**

Supervised topographical and utilities survey of the proposed site location. Developed a pump design to transfer water from a lagoon to the on-site WWTP. Developed an Engineers Estimate for the proposed works. Developed a Specified Engineering Works Report for submission to the relevant parties.

- **Meenbog Wind Farm, Donegal, Ireland. (Ongoing)**

Examined the failure scar of a previous peat slide, completion of a geotechnical walkover of relic failure scar – carrying out peat depth probes and shear vane tests. Examining additional potential locations to ensure site wide stability. Supervision of trials pits and logging of material to relevant Von Post standard. Assisted with interpolation of lab testing results and preparation of the Peat Slide Mitigation report.

- **Urbal Barr Landslide, Leitrim, Ireland. (2023)**

Examined the failure scar of a previous peat slide, completion of a geotechnical walkover of relic failure scar.

- **Derrybrien Wind Farm, Galway, Ireland. (2022)**

Examined all previous recordings of instability at turbine locations to ensure stability. Completed geotechnical walkover of relic failure scar - carrying out peat depth probes and shear vane tests. Logged numerous trial pits in accordance with relevant standards – using HoleBASE (Management of Ground Investigation) for recording of trial pits. Inspected containment barrages and repository areas to ensure stability – using Talren (Slope Stability) to complete globally stability calculations and hand calculations to complete sliding checks of the containment barrages.

- **Littleton Wind Farm, Tipperary, Ireland. (Ongoing)**

Procurement and supervision of ground investigation at proposed Infrastructure locations to ensure site investigations were undertaken in accordance with the Designers requirements. Liaison with all relevant parties (ecologist, archaeologist, landowners, ground investigation contractor, etc.) to ensure coordination for the works.

- **Remediation of Legacy Landfill Site, Clane Kildare, Ireland. (2023)**

Contract supervision for the remediation of Legacy Landfill. Liaison with contractors to obtain site access. Carrying out groundwater, gas and surface water monitoring. Liaison with laboratory services to ensure samples are delivered to relevant stakeholders within timeframes.

- **Fahy Beg Wind Farm, Clare, Ireland. (2023)**

Procurement and supervision of ground investigations being undertaken within potential substation locations within the Fahy Beg Wind Farm area.



Alan Whelan

Senior Project Engineer

- **Alan carried out a geotechnical walkover on the wind farms listed below.**

This including peat depth probing, shear vane tests, record of slope angles at proposed infrastructure locations (turbines, construction compound, substations, borrow pits, etc.) This task would have included the development of RAMS, and liaison with site managers to gain access to the relevant lands. The recording of this data would be complied and used to develop Geotechnical & Peat Stability Assessment and Peat & Spoil Management Plans, along with EIAR Chapters.

- Ardderroo Wind Farm and Doon By-pass, Galway, Ireland. (2023)
- Ballivor Wind Farm, Westmeath, Ireland. (Ongoing)
- Ballydermot Wind Farm, Offaly, Ireland. (Ongoing)
- Ballynalacken Wind Farm, Carlow, Ireland (Ongoing)
- Cahermurphy Wind Farm Extension, Clare, Ireland. (Ongoing)
- Coole Wind Farm, Westmeath, Ireland. (Ongoing)
- Coumnagappual Wind Farm, Waterford, Ireland.(Ongoing)
- Croagh Wind Farm Grid Connection Route, Sligo, Ireland (Ongoing)
- Croaghaun Wind Farm, Carlow, Ireland. (Ongoing)
- Cush Wind Farm, Offaly, Ireland. (Ongoing)
- Derrinlough Wind Farm, Offaly, Ireland (Ongoing)
- Drehid Wind Farm, Kildare, Ireland. (Ongoing)
- Dungloe Wind Farm, Donegal, Ireland (Ongoing)
- Glenora Wind Farm, Mayo, Ireland. (Ongoing)
- Lemanaghan Wind Farm, Offaly, Ireland. (Ongoing)
- Milltownpass Wind Farm, Westmeath, Ireland (Ongoing)
- Meenbog 2 Wind Farm, Donegal, Ireland (Ongoing)
- Sheskin Wind Farm, Mayo, Ireland.(Ongoing)

- **Croaghaun Wind Farm, Carlow, Ireland. (Ongoing)**

Supervised ground investigations being carried out along the proposed cable route of the wind farm. Deployment, maintenance, and collection of bioacoustics recorders for static bat surveys to be carried out at proposed turbine locations. Completed night bat activity surveys to ensure no bat activity in the vicinity of proposed access roads or turbine locations. Measurement of prevailing background noise around the boundary of the proposed site location.

- **Milltownpass Wind Farm, Westmeath, Ireland. (Ongoing)**

Completed a constraints study, which contained multiple relevant sources of interest within the Milltownpass wind farm area. Development of a fee proposal for potential future works. Liaison with site managers and relevant landowners to install groundwater piezometers and monitor groundwater behaviour at the site location for a specific duration.

- **Ballymore Eustace Slope Failure, Kildare, Ireland. (2019)**

Completed a desk study, which contained multiple sources of interest within the slope failure area. Created longitudinal sections / geometric profiles within Talren (Slope Stability) for future analysis.

- **Donohill & Ballyaghveny Landfill, Tipperary, Ireland. (Ongoing)**

Liaison with county council to obtain site access. Carrying out Slope Stability Visual Assessment by assessing each slope within the landfill site. Carrying out Slope Stability Geotechnical Assessment using Slope/W (Slope Stability) of the existing slopes throughout the landfill.

- **Skehana and Sevenhouses Historic Landfills, Kilkenny, Ireland. (Ongoing)**

Liaison with contractors to obtain site access. Carrying out groundwater, gas and surface water monitoring. Liaison with laboratory services to ensure samples are delivered to relevant stakeholders within timeframes.

- **Talbotsinch Historic Landfill, Kilkenny, Ireland. (Ongoing)**

Liaison with contractors to obtain site access. Carrying out groundwater monitoring. Liaison with laboratory services to ensure samples are delivered to relevant stakeholders within timeframes.



Emily Archer

Senior Project Geotechnical Engineer

Profile

Emily is a Senior Project Geotechnical Engineer at Fehily Timoney and Company working in the Infrastructure Department. She has a Bachelor of Science (BSc.) in Geology and a Masters (MSc.) in Applied Environmental Geology, both from University College Cork. Since starting with FT in 2018, she has worked on various geotechnical, environmental monitoring, contaminated land and EIA projects.

Key Skills

- Investigation and remediation of contaminated lands and landfill sites
- Environmental Risk Assessment
- Ground Investigations
- Peat Stability Assessments
- Soil and groundwater remediation
- Engineering Geology
- Hydrogeological Assessment
- DSR
- Expert Witness

Previous Experience Essentials For This Project in Last 7 years

• **Dunkettle Interchange**

Emily assisted with the day to day management and logging of intrusive site investigations on site, at the existing Dunkettle Roundabout. This role involved acting as the Designers Representative to ensure site investigations were undertaken in accordance with the Designers requirements and Euro Code 7. These works encompassed a range of site investigation techniques including cable percussion, rotary drilling and geophysical surveying. Ground conditions at the site were challenging due to extensive soft ground associated with buried channel features. As such she assisted with updating the ground model as information arrived from the investigations. This role also involved presenting progress reports and technical information to the project team to communicate ground risks encountered during the works. Emily also assisted with the drafting up of the Baseline Groundwater Monitoring Report. This involved reviewing and collecting the data from the groundwater monitoring wells on site and preparing a draft of the groundwater monitoring report. Recently, Emily has been involved on site as the Designer's Site Representative. This role involves supervising and monitoring the advanced earthworks that are taking place and approving the ground conditions.

• **MSD Brinny Oil Interceptor Options**

Emily was involved in site investigation works carried out for a proposed oil interceptor located on site at MSD Brinny. Emily's role included a review of all available online data to assist with the selection of the ground investigation locations and the logging of the boreholes and trial pits, creation of the detailed logs using HoleBase and creating a conceptual ground model using the ground investigation information.

• **Ballinagree Wind Farm, Co. Cork**

Emily was responsible for the Land, Soils and Geology chapter of the EIAR for this project and associated peat stability assessment.

Key Information

Qualifications

MSc. Applied Environmental Geology,
University College Cork, 2018

BSc. Geology,
University College Cork, 2017

Professional Memberships

Member of the Institute of Engineers Ireland

Employment History

2018 - Present

Fehily Timoney & Company
Graduate Geotechnical Engineer

2018 – 2018

Fehily Timoney & Company
Internship

2016

ESB International Cork
Undergraduate Work Placement



Emily Archer

Senior Project Geotechnical Engineer



This involved a site walkover, peat probing and shear vane testing (where necessary) and the review of all online available data relevant to the site to complete a detailed desk study. Emily liaised with GI contractors and coordinated the trial pitting and boreholes at proposed borrow pit locations and turbine locations.

- **Lemanaghan Wind Farm, Co. Offaly**

Emily logged and supervised trial pitting at proposed borrow pit and infrastructure locations and created detailed logs using HoleBase. This helped to inform the client on the high risk areas, areas of deep peat and areas where it is likely to get good material that can be re-used on site.

- **Proposed Wind Farms, Co. Mayo**

Emily carried out a series of peat stability assessments across three proposed wind farm sites. This involved detailed site walkovers, peat probing, shear vane testing and trial pit supervision (in two of the sites). These assessments helped to inform the clients on the high risk areas and areas of deep peat. Emily also assisted with a walkover of a peat slippage at one of these sites.

- **Cush Wind Farm, Co. Offaly**

Emily carried out a peat stability assessment which involved a site walkover, peat probing, shear vane testing and associated reporting. This helped to inform the client on the high risk areas, areas of deep peat and areas where peat instability may be a concern.

- **Ballivor Wind Farm, Co. Meath/Westmeath**

Emily logged and supervised trial pitting at proposed borrow pit locations and created detailed logs using HoleBase. Emily also carried out a detailed site walkover that involved peat probing, shear vane testing and a review of all online available data to make informed decisions on where the areas of high risk are located across the site.

- **Ballydermot Wind Farm, Co. Offaly**

Emily carried out a peat stability assessment which involved a site walkover, peat probing, shear vane testing and associated reporting. This helped to inform the client on the high risk areas, areas of deep peat and areas where peat instability may be a concern.

- **Coom Green Energy Park, Co. Cork**

Emily drafted up the Land, Soils and Geology chapter of the EIAR for this project. This involved a site walkover, peat probing and shear vane testing (where necessary) and the review of all online available data relevant to the site to complete a detailed desk study. Emily also logged and supervised trial pitting at proposed borrow pit locations and created detailed logs using HoleBase, that were input into the Land, Soils and Geology chapter. Emily was also involved in the supervision of the geophysical surveys and creation of conceptual ground models at each proposed turbine location.

- **Nenagh Pedestrian and Cycle Scheme**

Emily was responsible for producing the ground investigation specification for the proposed pedestrian and cycle scheme in Nenagh. This involved choosing suitable locations and investigation methods along the scheme to achieve enough information to inform the design.

- **Min Ryan Skate Park, Co. Wexford**

Emily was responsible for the ground investigation report for the proposed skate park location to determine the existing ground conditions in Min Ryan Park, Co. Wexford. Emily's role included a comprehensive desk study review of the site and surrounding environment characteristics, sampling and logging of trial pits, review and interpretation of site investigation data, creating detailed logs using HoleBase and the development of a Conceptual Site Model.

- **N22 Macroom – Ballyvourney Road, Access Track**

Emily was involved in the geotechnical design report for the N22 Ballyvourney to Macroom scheme access roads, hardstands and borrow pit. Emily's role included a comprehensive desk study review of the site and surrounding environment characteristics, sampling and logging of trial pits, review and interpretation of site investigation data, creating detailed logs using HoleBase, development of a geotechnical risk register and drafting up the geotechnical design report.

- **Dublin Airport Stockpile Sampling**

Emily logged a series of trial pits, collected environmental samples from a series of stockpiles for waste classification and assisted with the write up of the environmental report. Emily used HoleBase to create detailed logs of the trial pits that were input into the environmental report. The purpose of this was to classify any possible waste material that was within these stockpiles prior to removal.

- **Site Supervision Waste Investigation, Kilkenny County Council**

Emily was involved in logging the uprisings from a series of trial pits and producing detailed logs using HoleBase, summary reports of the findings, across unauthorized waste deposition sites in Co. Kilkenny. The purpose of this was to assess and classify any buried waste material present within these sites.



Sara Hernández Sosa

Senior Project Engineer



DESIGNING AND DELIVERING
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Profile

Sara holds a Masters Degree in Civil Engineering and has 6 years of experience in civil engineering projects, including planning, design and construction in urban, transport, drainage, and infrastructure planning projects.

She is also familiar with civil and construction regulations and with solid knowledge of CAD and specialist civil engineering software and is a Senior Project Engineer with Fehily Timoney.

Key Skills

Sara has experience in projects including:

- Good experience in AutoCAD, AutoCAD Civil 3D, Flow Drainage Design (Causeway), HEC RAS, Culvert Master and advanced in MS Office applications.
- Culvert design, network drainage design, pre-earthworks drainage, pollution and attenuation control.
- Flood modelling.
- Construction Management and Site Supervision.
- Design of national road projects.
- Technical Report Writing.

Previous Experience Essentials for this Project

• **Ten-T Priority Route Improvement Project, Donegal, 2020-2022**

Developing and design of three strategic routes in Donegal that connect to the rest of Ten-T network to a sufficiently detailed level to enable the establishment of land-take requirements. Concurrently, an Environmental Impact Assessment (EIA) of the design was also undertaken during Phase 3.

She worked on the preliminary drainage design of one of the strategic routes which was approximately 17.6 km of dual carriageway with active travel infrastructure.

• **N/M20 Cork to Limerick Road Improvement Scheme, 2019-2023**

Planning and design of the N/M20 Cork to Limerick to provide better connectivity between the two cities by improving the quality of the transport network which will address road safety issues associated with the existing N20 route and provide for safer and more efficient journey times.

Sara was involved in the initial phases of the project with tasks and deliverables such as Deficiency studies of the existing N20, data collection, Road Based Scenarios and Options assessments, Public Consultation of short-listed Options, amongst others. She also worked on the preliminary drainage design at the start of Phase 3.

• **N22 Baile Bhuirne to Macroom Road Development , 2020-2022**

Construction of approx. 22 km to the main N22 Cork Killarney Tralee Road. The proposed road development is a Type 2 Dual Carriageway, to be constructed offline. The scheme will cross a section of the Carrigadrohid Reservoir, also included are: offline roundabouts, river bridges, some local road realignments, underbridges, overbridges and culverts.

Sara worked on the detailed design of the various drainage packages such as pre-earthworks drainage, cross drains, culverts, drainage networks as well as site queries.

Key Information

Qualifications

Masters of Civil Engineering in Roads, Canals and Ports Engineering, Alfonso X El Sabio University, 2013

Bachelor of Civil Engineering in Public Works Engineering Specialty in civil construction, Las Palmas de Gran Canaria University, 2011

Designing for Safety in Construction, Engineers Ireland, 2019 .

Professional Memberships

Member of the Institution of Engineers Ireland

Employment History

2023 – Present

Fehily Timoney & Company
Senior Project Engineer

2019 – 2023

J.B. Barry and Partners Limited
Design Engineer

2018 – 2019

Jacobs Ch2m
Junior Civil Engineer

2017 – 2018

Jacobs Ch2m
Graduate Civil Engineer

2016 – 2017

Severfield (NI)
Assistant Site Manager

2015

Joju Solar
Commercial Project Assistant



Sara Hernández Sosa

Senior Project Engineer



- **Luas Finglas, 2023**

The Luas Finglas Project involves the extension of the Luas Green Line from its current terminus in Broombridge to Finglas. The proposed route for the extension is approximately 4km long, includes four new stops, a cycle and pedestrian path along part of the route, a Park and Ride facility near St Margaret's Road, two bridges (Tolka River and Broombridge) and an extension to the tram storage area at the Hamilton Depot at Broombridge.

Sara worked on the flood modelling and flood risk assessment for the Tolka River Bridge which was part of the Section 50 Application.

- **Wastewater Treatment Plants Projects, 2023**

Upgrade of existing Wastewater Treatment Plants and design of new Plants across the country for Irish Water.

She was involved in the flood modelling and flood risk assessments for these Plants that were required as part of the planning applications.

- **Brewery Road, Safety Improvement Scheme, 2019 & 2022**

The project consisted of the detailed design for the safety improvement of a signalised junction between the very trafficked national roads: N31 Brewery Road and the N11. This involves, among others, a road widening of the N31 at the junction and other layout arrangements of this section together with the design and rearrangement of pedestrian and cyclists' facilities. Sara worked on the site investigation works' contract documents and procurement, main contract deliverables, tender assessment, Client's liaison and submission of other deliverables required by TII and the NTA.

- **M11 Gorey to Enniscorthy PPP Scheme (Site based), 2017-2018**

The scheme comprises the provision of approximately 27 km of M11 Mainline, with a standard dual motorway carriageway type. In addition, approximately 8 km of single carriageway to bypass Enniscorthy to the west by linking the existing N11 to the existing N30 and also approximately 4 km of dual carriageway link road to connect the existing N11 / N80 junction north of Enniscorthy to the M11 Mainline.

Sara worked in the structures team as Employers' Representative, monitoring the progress of the construction works for bridges, culverts, underpasses, retaining walls and other minor structures. She attended site inspections to ensure that works are carried out in accordance with the design drawings and the standards. She also reviewed structure design packages, method statements and other technical documents to ensure that the standards and Construction requirements are met.



Aoife Hurd

Senior Project Engineer

Profile

Aoife is a Senior Project Engineer in the Energy and Planning Department at Fehily Timoney and Company. She holds a Bachelors and Masters Degree in Civil, Structural, and Environmental Engineering from Trinity College Dublin. Aoife has 3 years of postgraduate experience working on residential, infrastructure, and renewable energy projects at all stages from concept to construction.

Aoife currently works on renewable energy projects preparing chapters of the EIAR for wind farms, solar farms and grid infrastructure developments, specifically the Traffic and Transport chapter and Air Quality and Climate chapter. She also has experience in designing renewable energy developments and carries out site inspection surveys to identify on-site constraints and solutions.

Key Skills

Aoife has experience in the following:

- EIAR, EIA
- Renewable Energy Development Design
- Coordination of Feasibility Studies
- Site Assessment
- Infrastructure and Utility Design
- Transport & Policy Analysis
- GIS & Data Reporting

Previous Experience Essentials for this Project

• Large Scale Wind Farm Project, Co. Clare, Ongoing.

The proposed development is a 14-no. turbine wind farm located in Co. Clare. Aoife was responsible for the preparation of the Construction and Environmental Management Plan (CEMP) and Air Quality and Climate chapter of the EIAR. She also assisted in the design and coordination of key engineering elements of the proposed development, including drainage infrastructure, electrical cabling, attenuation ponds, and peat deposition areas.

• Large Scale Wind Farm Project, Co. Offaly, Ongoing.

The proposed development comprises of 9-no. turbines, spanning across 208 hectares of land in the jurisdiction of Co. Kildare and Co. Offaly. Aoife was responsible for the preparation of the CEMP, Traffic and Transport chapter, and Surface Water Management Plan (SWMP) of the EIAR. She also designed the site drainage ensuring all designs were in line with relevant standards.

• Drumnalough, Lettermore and Sranagh Long Duration Energy Storage, Ongoing.

Feasibility studies were carried out for two potential long duration energy storage sites at Drumnalough and Lettermore in Co. Donegal. Aoife assessed the existing utility infrastructure by reviewing and mapping Uisce Éireann and utility records in ArcGIS to evaluate potential connection options and identify constraints.

Key Information

Qualifications

Masters (MAI), Civil, Structural, & Environmental Engineering
Trinity College Dublin – First Class Hons (Distinction), 2022

Bachelors (BAI) Civil, Structural, & Environmental Engineering
Trinity College Dublin – First Class Hons, 2017 - 2021

Professional Memberships

Member of the Institution of Engineers of Ireland (MIEI)

Overview of Safety, Health & Welfare at Work (Construction) Regulations 2013, April 2024

SOLAS Safe Pass, December 2023

Employment History

March 2025 – Present

Fehily Timoney & Company
Senior Project Engineer

2023 – 2025

AECOM
Civil Engineer

2022 – 2023

AECOM
Transport Planner

2021

RPS
Engineering Intern



Aoife Hurd

Senior Project Engineer



- **Donore Project, Dublin 8, 2025.**

The proposed development, comprising 542 homes as well as a new creche, community spaces and landscaped public areas, is located on the former St. Teresa's Gardens site, in Dublin 8. Aoife was involved with this project throughout the planning, tender and construction stages and was responsible for infrastructure and drainage design, liaison with Uisce Éireann to manage connection and diversion applications and coordination with the client, contractor and multidisciplinary teams to effectively meet project deadlines. Aoife conducted bi-weekly site visits to inspect the progress of civil works on site.

- **School Street / Thomas Court Bawn Estate Renewal, Dublin 8, 2025.**

The proposed development involves the retrofit and development of 114 new residential units in place of the current 79 no. unit residential site as well as a multi-use childcare facility and all associated site infrastructure and landscaping. Aoife was responsible for preparing technical reports, including the Stage 2 Infrastructure Report and Flood Risk Assessment Report. She assisted with the planning application and carried out the design of Sustainable Urban Drainage Systems (SuDS), including detailed calculations for green and blue roofs and drainage modelling using Innovyze InfoDrainage. Aoife attended design team meetings and coordinated with Uisce Éireann and other multidisciplinary teams.

- **Maynooth Area Based Transportation Assessment (ABTA), 2023.**

The scope of work involved analysing current and future transportation demands, assessing infrastructure capacity, and considering the effects of planned developments or changes. Aoife was responsible for developing a walking / permeability strategy for Maynooth ABTA. She used VISUM and ArcMap, specifically the ArcMap Network Analyst tool, to accurately assess the walking distance to key destinations in Maynooth and quantified the benefits using GeoDirectory data.



Seán Greene

Project Planner

Profile

Seán holds a bachelors degree in City Planning and Environmental Policy from University College Dublin. He also holds a Masters degree in Regional and Urban Planning from University College Dublin. He has 3 years experience in planning consultancy and is currently a Project Planner here at Fehily Timoney and Company.

Key Skills

- Surveying and Visuals
- Effective communication skills
- Problem-solving
- Reliable and responsible
- Adaptable
- Willingness to learn
- Client Representation & Oral Hearings
- Photomontage Software
- Time Management & Project Management
- GIS Software (Arc Gis and Q-Gis)
- Adobe Illustrator
- Technical Report Writing
- Regulatory Compliance (Planning & Development, EPA, Waste Licences)
- BCAR / BCMS Compliance

Previous Experience Essentials for this Project

• Connacht GAA Centre of Excellence, 3 no. 20 kW Wind Turbines, 2024

Seán Greene, serving as the lead planner and project manager, successfully secured planning permission for a micro-renewable energy initiative comprising three no. 20 kW wind turbines within an existing GAA Centre of Excellence. This strategically important project was designed to support the client's sustainability objectives while contributing to national renewable energy targets.

In preparing the planning application, Seán coordinated a pre-planning consultation with the Local Authority to ensure alignment with local planning requirements. Following the validation of the application and during the statutory decision period, a request for further information was issued, including the need for an Environmental Impact Assessment (EIA) Screening in accordance with Schedules 7 and 7A of the Planning and Development Regulations 2001 (as amended).

Demonstrating a strong command of planning legislation, Seán conducted detailed research into the relevant European Directives and subsequently submitted a comprehensive EIA Screening Assessment to ensure full compliance with Directive 2011/92/EU (as amended).

To support the technical aspects of the application, Seán coordinated a shadow flicker assessment using WindPRO software, working closely with GIS Technicians. He also collaborated with noise specialists to ensure the project met applicable noise guidelines. This project exemplifies Seán's ability to interpret and apply complex legislation, engage effectively with stakeholders, and deliver planning solutions that are both compliant and sustainable.

Key Information

Qualifications

MRUP Regional and Urban Planning (Level 9), University College Dublin, 2022

City Planning and Environmental Policy Level 8, University College Dublin, 2021

Employment History

2025 – Present

Fehily Timoney & Company
Project Planner

2023 – 2025

TOBIN Consulting
Planning Consultant

2022 – 2023

Entrust Ltd
Planning Consultant



Seán Greene

Project Planner



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- **Shannon Airport Authority DAC, 1.2mW PV Solar Farm Development, 2024**

Seán Greene played a key role in the planning application for a 1.2 MW photovoltaic (PV) solar farm development at Shannon Airport. The proposed development, located within the airport's airfield, spans approximately 2.25 hectares and comprises linear arrays of ground-mounted solar panels, associated cabling and ducting, a modular substation, inverters, a new internal site access road, and all ancillary infrastructure.

As Project Planner, Seán was responsible for coordinating the preparation and submission of the planning application, ensuring compliance with relevant planning legislation and environmental standards. He liaised with stakeholders and the Local Authority to facilitate a smooth application process and provided technical input to support the strategic objectives of the project.

The planning documentation highlighted the solar farm's contribution to Shannon Airport's sustainability strategy, stating that it would provide a reliable and renewable source of energy, reduce operational costs, and promote environmental stewardship. In communications with the Council, Seán emphasized that the development would enable the airport to maintain uninterrupted access to electricity while reducing its dependence on fossil fuels.

The project received significant positive public attention and was prominently featured across multiple national media outlets, including RTÉ and the Limerick Leader, among others. This coverage helped to raise awareness of the project's contribution to renewable energy and community sustainability. This project demonstrates Seán's ability to manage complex planning applications, engage with regulatory bodies, and deliver infrastructure that supports long-term environmental and operational goals.

- **Feasibility Studies**

Seán Greene, in his capacity as a planning consultant, has contributed to and gained extensive exposure to a wide range of feasibility studies for renewable energy developments, including wind energy, solar PV, and Battery Energy Storage Systems (BESS). His involvement in these studies demonstrates a strong capability in site assessment, regulatory analysis, and strategic planning for large-scale renewable infrastructure.

Seán's work consistently reflects a thorough understanding of planning policy, environmental regulations, and technical feasibility, enabling him to identify suitable sites and ensure compliance with national and EU legislative frameworks. His experience across multiple technologies highlights his versatility and commitment to advancing sustainable energy solutions through informed and compliant planning practices.

- **Section 5 Declaration of Exemptions for Renewable Energy Infrastructure**

Seán Greene, in his role as a planning consultant, has successfully completed and been involved in numerous Section 5 Declaration of Exemption applications across various Local Authorities, with a particular focus on meteorological mast (met mast) installations for the purpose of mapping wind conditions. These applications are a critical component in the early-stage assessment of renewable energy projects, particularly wind energy developments.

As part of this process, Seán has been responsible for the drafting and submission of Environmental Impact Assessment (EIA) Screening Reports, ensuring that each application complies with the relevant planning and environmental legislation, including the Planning and Development Regulations and applicable EU Directives.

This body of work highlights Seán's ability to competently assess site suitability, navigate complex regulatory frameworks, and support the development of large-scale renewable energy infrastructure through informed and compliant planning practices.

- **Dublin GAA County Board GAA Facility at Spawell, Templeogue, Capital Value, 2024**

Seán Greene, in his role as Project Planner, successfully managed and contributed to a range of planning applications, including a large-scale GAA cluster facility currently under review by An Coimisiún Pleanála.



Seán Greene

Project Planner



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This high-profile project, which includes a Pavilion building with rooftop photovoltaic panels, encountered significant local opposition during the planning process. Seán played a pivotal role in navigating the complex regulatory landscape, ensuring the application met all statutory requirements while addressing community concerns.

At the outset, Seán led efforts to secure validation of the planning application, meticulously ensuring that the County Council validation checklists were completed to prevent delays. He also ensured full compliance with public notice requirements under Articles 17 and 19 of the Planning and Development Regulations 2001 (as amended).

In response to local opposition, Seán facilitated multiple collaborative meetings with the design team, leading to substantial design revisions that directly addressed issues raised during the public consultation and the Request for Further Information. He provided clear guidance to all team members, ensuring proposed changes aligned with both client expectations and planning policy.

Seán worked closely with the Local Authority and design consultants to ensure the development complied with local planning frameworks and contributed meaningfully to regional goals for recreational infrastructure and healthy placemaking. These efforts culminated in a **Notification of Decision to Grant**, with the final determination now pending from An Coimisiún Pleanála.

This project highlights Seán's ability to manage complex, large-scale developments, maintain regulatory compliance, and lead strategic responses to stakeholder engagement and public opposition.



Cathal Creedon

Graduate Planner



**FEHILY
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Profile

Cathal holds a Bachelor of Arts degree (Geography and History) and a Master's Degree in Planning and Sustainable Development from University College Cork. He is currently a Graduate Planner with Fehily Timoney and Company. Cathal has a keen interest in all areas of planning, sustainable development, and urban design. He possesses excellent interpersonal, entrepreneurial and communication skills with proven ability to work in teams. Cathal is a highly organised, hardworking, and reliable person with excellent leadership skills. He has proven experience of working in a fast-paced environment with the ability to work towards deadlines.

Key Skills

- Teamwork skills with the ability to negotiate and mediate with members to achieve goals.
- Great people skills with a proven ability to adapt and understand a variety of personalities.
- Naturally patient and capable of remaining calm when working towards deadlines.
- Flexibility to work across a variety of roles, tasks and in varied situations.
- Resilient, diligent, and dedicated to my work whether it be my education or part – time jobs.
- Good organisational skills, capable of working on my own initiative.
- Dedicated to fulfilling the trust employers and academic team members have given me.
- Punctual in all areas of my life possessing excellent time management skills balancing part time work, full time education and sport.

Previous Experience Essentials for this Project

Wind

- **Drehid Wind Farm SID application, 2024**

Seeking consent for the development of a Wind Farm and associated 110 kV substation from An Bord Pleanála (ABP) as Strategic Infrastructure Development (SID). Preparing chapters of the Environmental Impact Assessment Report (EIAR).

- Preparation of feasibility assessments for a number of potential wind farm sites.
- Preparation of a number of planning applications for submission to both local authorities and An Bord Pleanála for wind farm projects.

Solar

- **Killough Solar Farm, 2025**

Seeking planning consent for the development of a solar farm from Tipperary County Council under Section 34 of the Planning and Development Act 2000 (as amended). Preparing planning and environmental assessment chapters, including consideration of the grid connection route and 110 kV GIS substation (SID) for future consenting.

- Preparation of a number of planning applications for submission to both local authorities and An Bord Pleanála for solar farm projects.

Key Information

Qualifications

BA Arts (Geography & History),
University College Cork, 2023

M.A. Planning and Sustainable
Development., University College
Cork, 2024

Employment History

2024 – Present

Fehily Timoney & Company
Graduate Planner



Cathal Creedon

Graduate Planner



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- Preparation of feasibility assessments for a number of potential solar farm sites in County Cork, Tipperary, Kerry, Laois, and Carlow.

Environmental Impact Assessment Reports

- Contribution to and production of Introduction, Description of Proposed Development, Site Selection & Alternatives Considered, Planning Policy, and Human Health chapters for Environmental Impact Assessment Reports (EIAR) which have accompanied both wind energy developments and solar energy developments.



CURRICULUM VITAE

RICHARD BARKER

DIVISIONAL DIRECTOR - LANDSCAPE ARCHITECT
MLA, BA ENV, PG DIP FOR, MILI

PERSONAL PROFILE

Richard formerly worked as a Town Planner in New Zealand, London and Dublin before moving into the field of Landscape Architecture. He has spent the last 20 years working as a Landscape Architect in Ireland and has considerable experience in the fields of both Landscape and Visual Impact Assessment (LVIA) and landscape design, covering all stages from project feasibility through to construction. This cross-over of expertise is invaluable in determining and designing the most appropriate and effective form of landscape and visual mitigation for infrastructural development projects. Richard is the Divisional Director in Macro Works (part of APEM Group), a specialist LVIA consultancy that undertakes assessments for a broad spectrum of projects from wind and solar energy, to roads and large scale industrial and infrastructural development. Richard has personally completed the landscape and visual assessment of over 150 wind farms and a similar number of solar farms as well as numerous other commercial and infrastructural projects including more than a dozen SID projects. Consequently, he has considerable oral hearing training and expert witness experience. Richard has presented several conference papers relating to sustainable landscape design and LVIA as well as delivering the inaugural workshop on the landscape and visual effects of wind energy developments on behalf of the Irish Wind Energy Association. He has also delivered guest lectures / Webinars to the University College Dublin professional course in EIA Management and the Irish Landscape Institute and An Bord Pleanála in relation to LVIA.

EDUCATIONAL AND PROFESSIONAL STATUS

- MLA, Lincoln University (2003).
- PG Diploma, Forestry, Canterbury University (1996).
- BA, Environmental Science, Massey University (1995).

EMPLOYMENT HISTORY

- 1998 – 1999 Marlborough District Council (NZ) – Resource Planner
- 1999 – 2000 The Environment Agency (UK) – Planning Liaison Officer
- 2000 – 2001 Harrow Borough Council – Town Planner
- 2001 – 2002 CAAS Environmental (Dublin) - Planner
- 2004 – 2008 Tiros Environmental (Dublin) – Landscape Architect
- 2008 – 2014 MosArt (Wicklow) - Senior Landscape Architect / Associate Director
- 2014 – 2024 Macro Works (Dublin) – Managing Director / Divisional Director

FURTHER EXPERIENCE

- Corporate Member of the Irish Landscape Institute

SELECTED RECENT PROJECT EXAMPLES

150+ Wind Energy Projects (10 SID), various private and semi-state developers. Feasibility, LVIA and oral hearings.

150+ Solar Energy Projects, various developers. Feasibility, LVIA, Glint and Glare Assessments.

Celtic Interconnector, Mott McDonald. LVIA for strategic undersea and terrestrial electrical cable between France and Ireland.

St Kevin's Hospital SHD, Land Development Agency. LVIA with associated Photomontages / CGIs for a Strategic Housing Development incorporating the restoration of a landmark heritage building in Cork City.

Greater Dublin Drainage Scheme, Irish Water. MCA analysis of site options then LVIA for a 20ha sewage treatment facility, pipeline routes, pumping stations, plus oral hearing.

Water Supply Project Midlands and Eastern Region, Irish Water. MCA analysis of abstraction options and pipeline routes and LVIA of selected option.

College Green Plaza, ARUP / Dublin City Co. Full LVIA for proposed pedestrian plaza in Dublin's City Centre at College Green.

South Kerry Greenway, Fehily Timoney / Kerry CoCo. LVIA and oral hearing for a Cycleway along former railway line, plus oral hearing.

Rossaveel Deep Water Pier, Rossaveel Port Co. SLVIA for new port-based coastal infrastructure in a high sensitivity landscape / seascapes environment.

Bryn Cefni Biomass Plant, Ecopellets. LVIA for a large biomass facility in Llangefni, Wales plus planning enquiry.

N59 Moycullen Bypass Road Project, NRDO. Route options appraisal and LVIA for selected route plus oral hearing.

N59 Clifden to Maam Cross Road Project, NRDO. Route options appraisal and LVIA for selected route plus oral hearing.



MARK TIDESWELL
Senior Consultant

Discipline: Acoustics and Shadow Flicker
Key Qualifications: BSc (Hons) Music Technology, Diploma in Acoustics & Noise Control (IOA)
Professional Memberships: AMIOA
Experience: 10 years

INTRODUCTION

Mark is a Senior Consultant with over eleven years' experience working in the Environmental Consultancy sector. Mark's work focuses mainly on the technical aspects of renewable energy developments including site finding, GIS mapping services, shadow flicker, glint & glare and various types of noise assessments.

KEY EXPERIENCE

- Noise monitoring and assessment (ETSU-R-97, BS4142, BS5228)
- Noise propagation modelling
- Shadow Flicker assessment
- Glint & Glare assessment
- GIS site finding and feasibility for energy developments
- Constraints mapping
- Technical drawing and figure production

EDUCATION AND PROFESSIONAL STATUS

- BSc (Hons) Music Technology, Leeds Metropolitan University (2011)
- IOA Diploma in Acoustics and Noise Control, Leeds Metropolitan University (2015)
- Associate Member of the Institute of Acoustics (AMIOA)

EXPERIENCE RECORD

TNEI Services Ltd

2013 – 2021

Graduate Consultant - Senior Consultant

Arcus Consulting Ltd

2021 – 2023

Senior Consultant

TNEI Services Ltd

2023 – present

Senior Consultant

Mark is an experienced project manager who has worked on a large number of wind energy development projects from initial feasibility work on the sites, through to baseline assessment, impact assessment (drafting of Technical Reports and Chapters) and post submission support and compliance monitoring including complaints investigations. Project highlights include:

Onshore Renewables (Wind and Solar)

- Wind turbine compliance noise assessment on South Uist for Comhairle Nan Eilean Siar (site

confidential).

- Spaldington Wind Farm: Noise level monitoring and reporting for wind farm construction activities.
- Lindhurst Wind Farm: Wind farm noise compliance monitoring and assessment.
- ZNSHINE SOLAR Site Search: Feasibility assessment to identify potential sites suitable for solar development in England through the use of geographic data.
- Bankend Rig Wind Farm Extension: Provided GIS and mapping support for the planning application of the consented Bankend Rig Wind Farm Extension, including the production of supporting figures, plans and technical drawings.
- Tangy IV Wind Farm: Shadow flicker assessment of proposed site for Environmental Impact Assessment, involving site survey and desk-based assessment.
- New Rides Wind Farm: Shadow flicker assessment considering the effects of shadow flicker on a nearby prison. Work included site survey and desk-based assessment.
- Shadow Flicker complaints investigation for an operational wind farm in Ireland (site confidential).

Electricity Networks (Substations, Overhead Lines)

- Triton Knoll Substation construction noise (HDD)
- WPD Grid Study: Digital mapping of the WPD electricity distribution grid network across the south-west of England.

New Energy Systems (BESS, Hydrogen, Electric Vehicles, District Heating, Energy from Waste)

- Hydrogen fuel cell development in Orkney: Production of GIS models and figures.
- STOR site in Lancashire: Produced GIS models and figures for three gas turbine engines.
- Feasibility studies for large scale STOR sites for up to 50MWe of generators/engines.

Conventional Energy (Gas, Nuclear, Coal)

- Rumer Hill Gas Peaking Plant: Baseline noise monitoring and BS4142 assessment for the operation of externally located gas powered engine/generator sets.
- Fellside CHP Plant: Noise assessment of works at gas turbine power plant.

Other

- Newcastle Great Park: Production of noise propagation models and noise mapping of a large housing development in Newcastle in order to assess the potential impacts of road and aircraft noise.

Tony Cummins BA MA

Senior Archaeologist & EIA Consultant (John Cronin and Associates)

TONY CUMMINS has been a Senior Archaeologist with John Cronin & Associates since 2009 and has over 29 years' continuous industry experience. He has extensive experience in the preparation of screening reports, option assessments and EIAR chapters for a wide range of large-scale developments, including various wind farm projects (examples provided below).

Professional Qualifications

Batchelor Degree (Archaeology) University College Cork, 1992
Master's Degree (Archaeology), University College Cork, 1994

Areas of Expertise

- Field Surveyor
- Excavation Director
- Desktop Research
- Environmental Impact Assessment Reports (EIAR)
- Archaeological Project Manager on infrastructure schemes
- Liaising with design teams and state/local authorities
- GIS analysis and production of mapping datasets

Relevant Experience

Mr. Cummins worked on a wide range of excavation projects following his graduation with a master's degree in Archaeology in 1994 and was approved as a licence-eligible archaeologist by the National Monuments Service in 1998. Since that time, he has directed numerous excavations in Ireland and also participated in archaeological projects in Britain and Lebanon. He has also accumulated management experience as the senior project archaeologist on large-scale infrastructure road schemes, including the Limerick Southern Ring Road and the Waterford City Bypass. Mr. Cummins has prepared assessments for a wide range of energy supply projects over recent decades, and these have included ESBI transmission lines, wind farm and solar farm developments (including associated grid connection and turbine delivery routes).



Curriculum Vitae

Caroline Lalor

BSc, MSc, MCIEEM



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Details

Position

Project Manager,
Ecologist

Discipline

Ecology

Languages

English

Qualifications

- BSc Applied Ecology (2001, UCC)
- MSc Ecosystem Conservation and Landscape Management (2003, NUIG)
- Full Member of the CIEEM

Key Skills

- Ecological Field Surveys
- Project management and client liaison
- Report writing
- Public

Publications

- Author and co-author of technical scientific reports

Other details

- Full Clean Driving License

Synopsis

Caroline Lalor (néé Hurley) is a professional ecologist working in the area of nature conservation and ecological assessment for over 20 years. She has also worked in the area of ecological education over this time. Caroline has worked as a free-lance ecologist on various projects for a variety of organisations including environmental consultancies, private companies and NGO's. Projects that Caroline has worked on include impact assessments of various proposed developments, preparation of Biodiversity Management Plans, undertaking baseline ecological surveys, Annex II species monitoring and delivery of adult education classes in Irish Wildlife. Caroline worked as Project Officer for the Irish Peatland Conservation Project from 2003 – 2006 before she became a freelance ecologist. In 2021 Caroline became Project Manager for FarmPEAT European Innovation Project (EIP) until the project finished in December 2024. In January 2025, Caroline joined Wetland Surveys Ireland as a Project Manager to work primarily in the Planning and Development Section of the company where she has co-authored NIS and EclA reports for solar farms and wind farms.

Selected Project Experience

FarmPEAT EIP (2021-2024)

Project Manager on the FarmPEAT European Innovation Project (EIP). Worked in partnership with farmers to improve management of agricultural lands on peat soils in the raised bog landscape of the midlands of Ireland. Worked as part of the Local Team to administer and deliver a results-based agri-environmental scheme and community outreach programme. (www.farmpeat.ie)

Irish Aviation Authority Biodiversity Action Plan 2021-2023 (2020-2021)

Worked with Tipperary Energy Agency to produce the IAA Biodiversity Action Plan 2021-2023 as part of their commitment to fulfil their Sustainability Action Plan. Undertook baseline ecological surveys, produced habitat maps on GIS and compiled habitat survey reports and the Biodiversity Action Plan for IAA.

Proposed Flood Relief Scheme, Portarlington (2021).

Commissioned by Woodrow Environmental Consultants to undertake habitat survey at project site to inform ecological scoping survey reporting.

University College Cork Biodiversity Survey (2014-2018) and Biodiversity Action Plan (2018-2023)

Project Manager. Responsibilities included conducting habitat surveys & mapping, commissioning and co-ordinating specialist biodiversity surveys on UCC's properties, liaising with client, and using the collected biodiversity data to produce a Biodiversity Survey Report and a Biodiversity Action Plan.

Natterjack Toad Monitoring Project (2011-2012)

Worked with Sweeney Consultancy on this NPWS monitoring project. Duties included conducting field-work over a 2 year period, recording toad population data, environmental parameters and habitat information, training volunteers, data input, contribution to report writing (Irish Wildlife Manual No. 67) and review.

Diploma and Certificate in Field Ecology, University College Cork (2011-2016)

Course Co-ordinator. Duties include co-ordinating and facilitating the development and re-launch of the Cert/Dip Field Ecology Programme in UCC, lecturing and giving field trips.

Other relevant project experience

- Marsh Fritillary Field Surveyor (BEC, 2013 and 2014)
- Invasive Species Survey of River Lee, Co. Kerry Field Surveyor (WSI, 2011)
- Lecturing in University College Cork for Diploma and MSc Ecology related courses (2011 – 2016)



Curriculum Vitae



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Dr Patrick Crushell BSc, MSc, PhD, CEcol, MCIEEM

Details

Position

Director and Principal Ecologist

Discipline

Ecology

Languages

English

Qualifications

- BSc Applied Ecology
- MSc Environmental Resource Management
- PhD Environmental Sciences (Peatland Ecology and Restoration)
- Chartered Ecologist and Full Member of the CIEEM

Key Skills

- Project management and client liaison
- Site and species surveys
- GIS (ArcGIS)
- Hydrochemistry coordinator
- Data management and analysis

Publications

- Author and co-author of peer-reviewed articles and books on peatland ecology and restoration
- Author and co-author of technical scientific reports

Other details

- Approved ecologist for Native Woodland Scheme.
- Member of the Board of Directors of the Irish Peatland Conservation Council (2002- 2008)
- Former member of SAC Appeals Board

Synopsis

Dr Crushell is a chartered ecologist working in the area of nature conservation and ecological assessment for over twenty years. He has worked as a consultant on various projects for a range of organisations including; environmental consultancies, government agencies, engineering firms, local environmental groups, and NGOs. Projects that he has been involved in include impact assessments of various development proposals; pre and post - construction monitoring; wetland surveys; evaluation of designated sites; restoration and management of habitats; and baseline ecological surveys. Dr Crushell has particular expertise in peatland and wetland ecology and management.

Selected Project Experience

ACRES West Connacht (2022 - ongoing)

Project director on the administration of the national flagship agri-environment scheme ACRES Cooperation being rolled out across two priority cooperation zones (South Mayo Connemara and Northwest Connacht). Providing support to over 5,000 participant farmers in the West Connacht region. (acreswestconn.ie)

FarmPEAT EIP (2021 - ongoing)

Project director on the FarmPEAT European Innovation Partnership (EIP) project. This project works in partnership with farmers to improve management of agricultural lands on peat soils in proximity to raised bogs in the Irish midlands. We provide technical and administrative support to the local project team. (farmpeat.ie)

Freshwater Pearl Mussel EIP (2018 - ongoing)

Appointed to administer the locally led Freshwater Pearl Mussel European Innovation Partnership (EIP). This project involves the design and implementation of a locally led agri-environmental scheme aimed at improving the conservation status of Freshwater Pearl Mussel within eight priority throughout the west of Ireland. Project commenced in May 2018 and runs for six years with a total budget of €10 million. (pearlmusselproject.ie)

Scientific Expertise to a Multi-Annual Raised Bog Monitoring Programme (2021-24)

Monitoring raised bog SACs to inform National Conservation Status Assessments of Annex I Raised Bog Habitats. Contract to National Parks and Wildlife Service, Dept of Housing.

National Freshwater Pearl Mussel Survey and Monitoring Programme (2022-24)

Managing the national survey and monitoring of freshwater pearl mussel across fourteen rivers in Ireland. Outputs of the project will inform the EU Article 17 National Conservation Status assessment reporting.

Scientific Basis for Raised Bog Conservation Study (2013-2020)

Lead ecologist on a team of consultants preparing restoration and conservation plans for 53 raised bog SACs on behalf of the National Parks and Wildlife Service.

County Wetland Surveys (Clare, Kildare, Kilkenny, Waterford, Galway, Laois, Kerry, Monaghan, Wicklow, Sligo, Longford, Roscommon) (2007 - 2024)

Desktop and field based surveys developing inventories of wetland sites including lowland and upland wetland habitats. Final reports and Associated GIS datasets prepared for relevant local authorities & the Heritage Council.

Gas to the West Project, Northern Ireland (2016)

Detailed botanical and habitat condition assessments of wetland sites in Counties Armagh and Tyrone for inclusion in Environmental assessments of proposed gas pipeline.

Bellacorick – Castlebar 110kV, County Mayo (2013-2021)

Undertook detailed ecological surveys of structure locations within designated peatland Special Areas of Conservation (SACs) to inform the Appropriate Assessment (AA) process. Co-authored NIS and PECR Report, and fulfilled role of ECoW for construction. Peatland monitoring.

Cloon to Lanesborough 110kV. Counties Longford, Roscommon & Galway (2017-2021)

Undertook detailed ecological surveys of structure locations within designated peatland Special Areas of Conservation (SACs) to inform the Appropriate Assessment (AA) process. Co-authored NIS and PECR report, and fulfilled role of ECoW for construction. Peatland monitoring.

Galway Outer Bypass (2014)

Undertook detailed surveys of Annex I wetland habitats within the Lough Corrib cSAC to inform the Appropriate Assessment process. Undertook field surveys and prepared report on the conservation status of terrestrial wetland habitats within the cSAC.

Dublin Water Supply Project (2017-2022)

Baseline habitat and targeted wetland surveys of proposed Dublin Water Supply Pipeline route. Surveys and reports to inform and form part of EIAR and NIS.

Carrickmore GAA Facility: Raised bog assessment (2018)

Assessment of raised bog habitat proximate to proposed GAA development, Carrickmore, County Tyrone. Attended as expert witness at public hearing. Report formed part of pre-planning environmental assessments.

Ballyman Glen Annex I Habitat Survey (Fens and Springs)

Undertook survey of wetland habitats within SAC to identify and evaluate Annex I habitats; Alkaline fen and Petrifying springs. Results presented in standalone report and associated GIS datasets. Assessments used in pre-planning assessments of water supply infrastructure.

North South 400kV Overhead Line (2010-2016)

Project Ecologist for Cavan Monaghan Study Area on the 400 kV powerline. Prepared the ecological assessment and contributed to NIS. Attended oral hearing as expert witness on behalf of Eirgrid.

Laois – Kilkenny electricity reinforcement project (2010-2013)

Lead ecologist responsible for preparation of ecology chapter of EIS and NIS. Attended as expert witness dealing with ecology at the Bord Pleanála oral hearing into the project.

Clashavoon to Dunmanway 110KV Overhead Line, County Cork (2010-2017)

Lead ecologist responsible for preparation of ecology chapter of ER and NIS. Attended as expert witness dealing with ecology at the Bord Pleanála oral hearing into the project. Involved in the monitoring of the construction phase of the project (2014-2017).

38 kV Overhead Line within Ox Mountains SAC, County Mayo (2011-2012)

Prepared NIS for project and monitored the construction phase within Ox Mountains SAC.

Curragh wind farm and Coomacheo wind farm, Co Cork (2009-2013)

Lead ecologist responsible for monitoring of blanket bog habitats at Curragh wind farm and Coomacheo wind farm, Co Cork.

Wind Farm Ecological Assessments (2007-2022)

Preparation of Ecological Impact Assessments and Appropriate Assessment reports (Natura Impact Statements) for various wind energy projects throughout Ireland.

Wild Atlantic Way Ecological Monitoring (2015 and 2016)

Undertook detailed habitat and vegetation monitoring surveys at signature discovery points along the Wild Atlantic Way to provide baseline data against which future impacts can be assessed.

Centre Parcs Ireland, Newcastle Woods, County Longford (2015-2016)

Lead ecologist on the Centre Parcs Ireland forest resort project. Undertook baseline surveys and prepared both the Ecology chapter of EIS and the NIS.

Fen Surveys of County Monaghan (2007-2008)

Field survey and associated reports of specialised fen habitat surveys in County Monaghan. Final reports and Associated GIS datasets prepared for local authority and NPWS.

Solar Photovoltaic Farms South and East Ireland (2015-2024)

Prepared ecological impact statements and Appropriate Assessment Screening Reports for a number of Solar PV farms throughout Counties, Cork, Waterford and Wexford.

Publications

Peer Reviewed Papers

Crushell, P.H., Smolders, A.J.P., Schouten, M.G.C., Robroek, B.J.M., van Wirdum, G. and Roelofs, J.G.M. (2011). Restoration of a terrestrialised soak lake of an Irish raised bog: results of field experiments. *Restoration Ecology*: 19(2): 261-272.

Crushell, P.H., Smolders, A.J.P., Schouten, M.G.C., Roelofs, J.G.M. and van Wirdum, G. (2009). The origin and development of a minerotrophic soak on an Irish raised bog: an interpretation of depth profiles of hydrochemistry and peat-chemistry. *The Holocene* 19 (6): 921-935.

Robroek, B.J.M., Ruijven, J. van, Schouten, M.G.C., Breeuwer, A.J.G., **Crushell**, P.H., Berendse, F., Limpens, J. (2009). *Sphagnum* re-introduction in degraded peatlands: The effects of aggregation, species identity and water table. *Basic and Applied Ecology*: 10(8): 697-706.

Crushell, P.H., Connolly, A., Schouten, M.G.C. and Mitchell, F.G. (2008). The changing landscape of Clara Bog: the history of an Irish raised bog. *Irish Geography* 41 (1): 89-111.

Robroek, B.J.M., Limpens, J., Breeuwer, A., **Crushell**, P.H. and Schouten, M.G.C. (2007). Interspecific competition between Sphagnum mosses at different water tables. *Functional Ecology* 21: 805-812.

Crushell, P.H., Schouten, M.G.C., Smolders A.J.P., Roelofs, J.G.M. and Giller, P.S. (2006). Restoration of Minerotrophic Vegetation within an Irish Raised Bog Soak System. *Biology and the Environment: Proceedings of the Royal Irish Academy* 106B (3): 371-385.

Other Technical Publications

2012-2020: Technical reports based on the outcome of extensive project work relating to peatlands, wetlands, and ecological assessment of development led projects.

Academic Qualifications

PhD thesis (defended at Wageningen University, the Netherlands, November 2008) 2002-2008 University College Cork, Ireland / Wageningen University, the Netherlands. Thesis title: *Soak Systems of an Irish Raised Bog: a multidisciplinary study of their origin, ecology, conservation and restoration*.

- Described the changes that have occurred in the Clara Bog (Co Offaly) landscape since pre-history to the present day.
- Assessed changes in vegetation communities of soak systems on Clara Bog.
- Investigated the biogeochemistry of soak systems with a view to understanding their origin and development.
- Carried out a restoration experiment to assess future management options for soak systems.

Education Certificate 2002-2008 Production Ecology and Resource Conservation (PE&RC) Research School, Wageningen University, the Netherlands. Various educational activities including teaching, publication writing, oral presentations and participation in work-shops and seminars.

M.Sc. (Agri) Environmental Resource Management (Award 2H1) 1998-2000 University College Dublin, Ireland. Thesis title: *An investigation into the environmental management options for Akeragh Lough, Ballyheigue, Co. Kerry.*

B.Sc. (Biol) Applied Ecology (Award: 2h1) 1993-1997 University College Cork, Ireland.

APPENDIX 1.3

Developments Considered for Cumulative Assessment

Planning Authority	Application Number	Development Description	Development Address	Application Status	Application Decision	Land Use Code	Site Area	Number of One-Off Hi	Floor Area Received Date	Withdrawal Decision Date	Decision Due Date	Grant Date	Expiry Date	Appeal Re	Appeal Sta	Appeal De	Appeal Su	FI Request Date	FI Received Date	Column1	Column2	Column104
Offaly County Council	2560034	amendments to the site boundary previously granted under planning reference 011099 and all associated site works	Cushina , Portarlington , Co. Offaly	APPLICATION FINALISED	RETENTION CONDITIONAL	R	0.148	0	0 02/11/2025 00:00	04/02/2025 00:00	04/07/2025 00:00	05/08/2025 00:00	05/07/2030 00:00									
Offaly County Council	2258	TWO STOREY DWELLING HOUSE, DOMESTIC GARAGE, SECONDARY TREATMENT SYSTEM AND SOIL POLISHING FILTER AND ALL ANCILLARY SITE WORKS AND SERVICES	CLONSAST LOWER , RATHANGAN , CO. OFFALY	APPLICATION FINALISED	PERMISSIC CONDITIONAL	R	0.449	1 Y	193.04 2/14/2022 12:00:00 AM	05/09/2022 00:00	05/09/2022 00:00	6/14/2022 12:00:00 AM	6/13/2027 12:00:00 AM					04/08/2022 00:00	04/12/2022 00:00			
Offaly County Council	2560290	SINGLE STOREY DWELLING, GARAGE, ENTRANCE, WASTEWATER TREATMENT SYSTEM WITH POLISHING FILTER; AND ALL ASSOCIATED SITE WORKS	CUSHINA , PORTARLINGTON , PORTARLINGTON	DECISION MADE	PERMISSIC CONDITIONAL	R	0.405	1 Y	207 07/07/2025 00:00	8/28/2025 12:00:00 AM	8/31/2025 12:00:00 AM											
Offaly County Council	20578	DOMESTIC GARAGE & ALL ASSOCIATED SITE WORKS	CUSHINA , PORTARLINGTON ,	APPLICATION FINALISED	RETENTION CONDITIONAL	R	0.304	1	49 11/20/2020 12:00:00 AM	1/21/2021 12:00:00 AM	1/23/2021 12:00:00 AM	3/15/2021 12:00:00 AM	3/14/2026 12:00:00 AM									
Offaly County Council	2138	ROAD / JUNCTION ACCOMMODATION WORKS TO FACILITATE TURBINE DELIVERIES ASSOCIATED WITH A PROPOSED WIND FARM DEVELOPMENT IN CO. KILDARE. A CONCURRENT PLANNING APPLICATION IS BEING LODGED TO KILDARE COUNTY COUNCIL IN RELATION TO A 10 YEAR PLANNING PERMISSION FOR A WIND FARM DEVELOPMENT WHICH CONSISTS OF 5 NO. WIND TURBINES WITH A TIP HEIGHT OF UP TO 169M AND ALL ASSOCIATED FOUNDATIONS AND HARDSTANDING AREAS; 1 NO. ON-SITE ELECTRICAL SUBSTATION; 1 NO. TEMPORARY CONSTRUCTION COMPOUND; ALL ASSOCIATED UNDERGROUND ELECTRICAL AND COMMUNICATIONS CABLING CONNECTING THE TURBINES TO THE PROPOSED ON-SITE ELECTRICAL SUBSTATION; PROVISION OF NEW SITE ACCESS TRACKS AND ASSOCIATED DRAINAGE; ERECTION OF 1 NO. PERMANENT METEOROLOGICAL MAST OF UP TO 100M IN HEIGHT; AND ALL ASSOCIATED SITE DEVELOPMENT WORKS, ANCILLARY WORKS AND EQUIPMENT. AN ENVIRONMENTAL IMPACT ASSESSMENT REPORT (EIA) AND A NATURA IMPACT STATEMENT (NIS) HAVE BEEN PREPARED IN RESPECT OF THE PROPOSED DEVELOPMENT	BRACKNAGH ARDRA MOANVANE GARRYMONA AND BALLYCHRISTAL , CO. OFFALY	APPLICATION FINALISED	PERMISSIC CONDITIONAL	U6	0.15	0	0 02/03/2021 00:00	12/22/2021 12:00:00 A	12/23/2021 12:00:00 A	02/09/2022 00:00	02/08/2027 00:00					3/30/2021 12:00:00 AM	10/29/2021 12:00:00 AM			

Laois County Council	230052	<p>development as follows:</p> <p>• The demolition & removal of 74 existing brick farm related buildings including all associated fixed & surface water facilities, comprising of -30 number Type A Mink House structures, each of which vary in length between 2.5m & 8.9m & which each measure 3m in width & 2.5m in height, providing a total floor space of 12,049 sq.m. & 44 number Type B Mink House structures, each of which vary in length between 3.4m & 8.9m & which each measure 3.6m in width & 2.5m in height, providing a total floor space of 16,813 sq.m. & 10 number Type C Mink House structures, each of which vary in length between 10.0m & 11.8m & which each measure 4.25m in width & 2.8m in height providing a total floor space of 3415.8 sq.m.</p> <p>• The demolition & removal of 10 existing brick farm related buildings which vary in length between 10.0m & 11.8m & which each measure 4.25m in width & 2.8m in height providing a total floor space of 3415.8 sq.m.</p> <p>• The demolition & removal of 10 existing brick farm related buildings which vary in length between 10.0m & 11.8m & which each measure 4.25m in width & 3.2m in height providing a total floor space of 37746.2 sq.m.</p> <p>• A number Type F Mink House structures, each of which are 120m in length & which each measure 3.6m in width & 2.6m in height providing a total floor space of 43,200 sq.m.</p> <p>• 1 no. staff facilities building providing a floor area of 22.7 sq.m.</p> <p>• 1 no. staff facilities building providing a floor area of 10.8 sq.m.</p> <p>All of these existing buildings contain a total floor space of 210,016 sq.m. The demolition element of this development includes the disposal of asbestos containing materials (ACM) and the removal of all other materials listed in Part 1 of the European Waste Catalogue</p> <p>(b) the removal of structures ancillary to the mink farm comprising of:</p> <ul style="list-style-type: none"> - 1 no. 40ft shipping container - 1 no. 20ft shipping container - 1 no. 40ft shipping container with an overall capacity of approx. 2000 m3 - 1 no. 20ft shipping container with an overall capacity of approx. 2000 m3 (c) the modification & re-purposing of 3 no. existing brick farm related buildings comprising of: <ul style="list-style-type: none"> An existing 27.8 sq.m storage shed which will have its roof raised by 2.2m & be re-clad with fiber cement cladding & be re-purposed for the housing of cattle. An existing 27.8 sq.m storage shed which will have its roof raised by 3m & be re-purposed for the housing of cattle. An existing 24.02 sq.m storage shed which will have its roof raised by 2.2m & be re-clad with fiber cement cladding & be re-purposed for the storage of animal feed. <p>An existing 140x2.2 m garage building & attached loading bay which will have its existing asbestos cladding removed & be re-clad with fiber cement cladding.</p> <p>The demolition of inert topsoil to restore the original ground level of the site following removal of the aforementioned buildings & all associated site works.</p> 	Ballymanus, Vicarstown, Stradally	APPLICATION FINALISED	PERMISSION	CONDITIONAL	18.44	0	0/4/2023 12:00:00	0/1/2024 12:00:00	0/1/2024 12:00:00	0/3/2024 00:00	0/3/2029 00:00	6/15/2023 12:00:00 AM	11/28/2023 12:00:00 AM			
Kildare County Council	22125	deforested lands comprising 3.86 hectares for the conversion to agricultural land.	Blackford, Stradally, Co. Leixlip, Kildare	APPLICATION FINALISED	PERMISSION	CONDITIONAL	8.86	0	0/1/2022 12:00:00	0/9/2022 00:00	0/9/2022 00:00	0/10/2022 12:00:00	10/11/2027 12:00:00	5/22/2025 12:00:00 AM	5/22/2025 12:00:00 AM			
Kildare County Council	250054	for the erection of a paved wind monitoring mast 120m in height, with instruments, and all ancillary works necessary for its construction and maintenance, for a period of six years.	Kilberry Bay, Loughbor, Athy	FURTHER INFORMATION	PERMISSION	N/A	1.1	0	0/4/2023 00:00					5/14/2024 12:00:00 AM	5/20/2024 12:00:00 AM			
Laois County Council	2400156	after previously granted planning permission Ref. No. 17/5739 and An Bord Pleanála Reg. Ref. No. 30079-18, and following the completion of the works, the erection of a new 3 bed service dwelling house, a 4 bed service dwelling house, a 3 bed service dwelling house and an associated site works. All services, including roads, drainage and public lighting are as per the previous type C1 3-bed service dwelling houses and all associated site works.	Grange Road, in the townland of Ballybrack, Co. Laois	APPLICATION FINALISED	PERMISSION	CONDITIONAL	3.056	1	0/4/2022 12:00:00	0/1/2024 12:00:00	0/1/2024 12:00:00	0/15/2024 12:00:00	0/8/2024 00:00	0/1/2024 12:00:00	0/1/2024 12:00:00			
Kildare County Council	21510	1. A revision to the permitted development granted under Kildare County Council Reg. Ref. No. 17/5739 and An Bord Pleanála Reg. Ref. No. 30079-18, and following the completion of the works, the erection of a new 3 bed service dwelling house, a 4 bed service dwelling house, a 3 bed service dwelling house and an associated site works. All services, including roads, drainage and public lighting are as per the previous type C1 3-bed service dwelling houses and all associated site works.	Kildare Tourist Outlet Road, Kildare Town	APPLICATION FINALISED	PERMISSION	CONDITIONAL	2.47	0	0/4/2021 12:00:00	0/6/2021 00:00	0/6/2021 00:00	0/6/2021 12:00:00	0/7/2026 12:00:00	0/1/2026 12:00:00	0/1/2026 12:00:00			
Offaly County Council	21270	1. The continuation of the existing Ash Repository to the end of 2031. The development will consist of (1) the continued operation of the existing Ash Repository from the beginning of 2024 until the end of 2031, including the use of all areas of the site boundary area no. 1 and area no. 2, and (2) the extension of the site boundary area no. 1 and area no. 2 between the beginning of 2024 until the end of 2030. (3) an amendment to the planning boundary to incorporate the existing site entrance.	Cloncreen, Glonbullogue, Co. Offaly	APPLICATION FINALISED	PERMISSION	CONDITIONAL	18.79	0	0/5/2021 00:00	0/4/2022 12:00:00	0/4/2022 12:00:00	0/5/2022 12:00:00	12/31/2031 12:00:00	0/7/2021 00:00	11/17/2021 12:00:00 AM	12/00:00 AM		
Kildare County Council	20117	of modifications to an established asbestos containing digestion facility as follows: 1. Modifications to gas upgrading plant consisting of: (i) Relocation of Gas Compression and Pumping Station located on the H2S plant site (ii) Relocation of the existing 1000m3 gas holder. 2. Biogas捕集器 and Pumping Station located on the modified H2S plant site. 3. Waste Compactor enclosure located at the eastern end of the reception building. 4. Solid and semi-solid biomass feedstock intake structures located at the eastern end of the reception building. 5. Enclosure extension over the existing 1000m3 gas holder. 6. Enclosure extension over the existing 1000m3 gas holder. 7. Enclosure extension over the existing 1000m3 gas holder. 8. Tipping enclosure over trailer tip and liquid refuse bay. 9. Enclosure extension over pasteurisation equipment	Gorteen Lower, Nurree, Co. Kildare	APPEALED FINANCIAL	RETENTION	CONDITIONAL	2.67	0	0/9/2020 12:00:00	0/4/2021 00:00	0/4/2021 00:00	0/5/2021 12:00:00	0/5/2026 12:00:00	0/5/2029-21	WITHDRAWN	4/25/2021 12:00:00 AM	11/19/2020 12:00:00 AM	03/10/2021 00:00
Laois County Council	2500111	carry out development which will consist of: The construction of 22 no. house units to include: 1 no. detached 4 bedroom house with floor area of 148sq.m, 12 no. semi-detached 3 bedroom houses with floor area of 132.2 sq.m each, and 9 no. terraced 3 bedroom houses with floor area ranging from 100.8sq.m and 116.2 sq.m each. The development will also seek to include an access road and footpath, public lighting, water servicing including foul and storm water, landscaping and all ancillary site works	Site at Dargan Woods, Borris	APPLICATION FINALISED	PERMISSION	CONDITIONAL	1.19	22	250/5/22/2025 12:00:00							7/16/2025 12:00:00		

Kildare County Council	23810 A new 38kV electricity circuit between the existing Kildare ESB substation and the new Newbridge ESB substation County Kildare. The circuit will be c. 5.5km in length and will consist of 7km of overhead line (OHL) and c. 1.5km of underground cable (UGC). The OHL structures (48 No.) will consist of single and double wood poles, with a height above ground level ranging from c. 9.7m to c. 18m and will require below ground foundations and staywires at specific locations. The UGC will primarily run along public roads and will consist of electrical cables laid in underground ducts buried in a trench (with varying dimensions between c.0.6m and c. 0.9m width and a depth of c.1.2m). Permissons is sought for all associated works including temporary works such as the creation of access ways and ancillary temporary and permanent works. Revised by (Significant further information which consists of Natura Impact Statement (NIS)	Townslands of Crookstown	APPLICATION FINALISED	PERMISSION CONDITIONAL	0.85	0	0 7/26/2023 12:00:00 AM	1/17/2024 12:00:00 AM	1/15/2024 12:00:00	5/16/2025 12:00:00 AM	5/15/2030 12:00:00 AM	ABP-319002-24	CONDITIONAL	5/16/2025 12:00:00 AM	03/28/2024 00:00:00	9/19/2023 12:00:00 AM	11/16/2023 12:00:00 AM			
Kildare County Council	201325 IS sought for a period of 10 years with an operational period of 30 years for a ground mounted solar photovoltaic (PV) farm on a site area of 49.74 hectares which the site of the Dunmurry Spring Golf Club. The proposed development consists of ground panels covering an area of up to 0.2024 m ² per panel, maximum panel frame, 1 no. 35kWp inverter, 1 no. 35kWp battery storage substation, control and perimeter fencing, to 10 no. inverter/transformer units; underground cabling and ducts; boundary security fence; use of existing entrance to public road at Dunmurry Spring Golf Club; new and upgraded internal access tracks; upgrade of an existing maintenance access onto the public road; construction of a maintenance shed; CCTV cameras; 1 no. temporary site compound; landscaping and all ancillary site works and services within the townlands of	Rahila Gebe, Dumurry West, & Glendalough South	APPLICATION FINALISED	PERMISSION REFUSED	49.74	0	0 11/03/2020 00:00	01/04/2021 00:00	01/06/2021 00:00	10/21/2021 12:00:00 AM	309319-21	12:00:00 AM	CONDITIONAL	10/22/2021 12:00:00 AM	1/29/2021 12:00:00 AM	10/22/2021 12:00:00 AM	1/29/2021 12:00:00 AM			
Offaly County Council	21598 A PERIOD OF 10 YEARS TO CONSTRUCT AND COMPLETE A SOLAR PV DEVELOPMENT WITHIN A TOTAL SITE AREA OF c.117.47 HECTARES, TO INCLUDE PV PANELS MOUNTED ON METAL FRAMES, NEW ACCESS TRACKS, UNDERGROUND CABLEING, PERIMETER FENCING WITH CCTV CAMERAS, 22 NO. 100kW POWER STATIONS, TEMPORARY CONSTRUCTION COMPOUNDS AND ALL ANCILLARY GRID INFRASTRUCTURE AND ASSOCIATED WORKS. THE SOLAR FARM WILL BE OPERATIONAL FOR 40 YEARS.	BALLINLUKETT, BORTH	APPLICATION FINALISED	PERMISSION CONDITIONAL U6	117.4	0	0 9/30/2021 12:00:00 AM	9/19/2022 12:00:00 AM	9/19/2022 12:00:00	10/26/2022 12:00:00 AM	10/25/2032 12:00:00 AM						3/11/2022 12:00:00 AM	8/16/2022 12:00:00 AM		
Offaly County Council	22379 A 2MW PILOT SCALE PV/BIOMASS PLANT WHICH COMPRISES: AN ELECTROLYSER CONTAINED WITHIN A STANDARD ISO CONTAINER (C. 12.2M IN LENGTH, C. 2.4M IN WIDTH, C. 3.2M IN HEIGHT); A 300kWp PV PRECRAFT SYSTEM; 1 NO. 100kW INVERTER; 1 NO. 100kW BATTERY; 1 NO. 100kW CONTROLLER; 1 NO. 100kW METERS; AND 1 NO. 100kW VOLTAGE MONITOR. A CABLE CONNECTION TO THE NEARBY TURBINE C. 100M TO THE WEST. THE HYDROGEN PRODUCTION PLANT WILL BE SUPPLIED BY THE FOLLOWING INFRASTRUCTURE: HYDROGEN ANHYDRIDE CONTAINER; FIREWALL (MAXIMUM HEIGHT 3.6M); UNDERGROUND FIBRE OPTIC CABLING; 2 NO. 12 CUBIC METRE BUFFER TANKS; GAS CONTROL CABINET; POWER SUPPLY UNIT; 23 CUBIC METRE PRECAST UNDERGROUND WATER STORAGE TANK; WATER FILTRATION SYSTEM; 2 NO. BOREHOLE WELLS; AND 1 NO. HGV TRAILER BAYS. ANCILLARY INFRASTRUCTURE WILL INCLUDE 1 NO WELFARE PORTACABIN (C. 4.5M) AND 4 NO. CAR SPACES; PALEOSECURITY SURFACE FENCING, VEHICULAR AND PEDESTRIAN ACCESS; A REPLACEMENT FOOTPATH BETWEEN THE SITE ENTRANCE AND THE NAMM FARM; SITE DRAGGAGE WORKS INCLUDING PETROL INTERCEPTOR AND ALL ASSOCIATED INFRASTRUCTURE AND SITE DEVELOPMENT WORKS. THE APPLICATION IS ACCOMPANIED BY A NATURA IMPACT STATEMENT (NIS)	BALLINLUKETT, BORTH	APPLICATION FINALISED	PERMISSION CONDITIONAL U6	117.4	0	0 7/29/2022 12:00:00 AM	3/28/2023 12:00:00	3/28/2023 12:00:00	05/04/2023 00:00	05/03/2028 00:00						9/22/2022 12:00:00 AM	02/01/2023 00:00:00		
Laois County Council	2560014 to construct, operate and decommission a photovoltaic solar farm over an area of 2 hectares comprising of photovoltaic panels on ground mounted frames, a switch room building, perimeter fencing, hardcore access tracks with underground敷電 routes, landscaping, new site entrance and access to the solar farm and existing sunfarm facility, surface water drainage with underground attenuation tank, revision of existing site boundaries along with all associated ancillary development works. A Natura Impact Statement (NIS) has been submitted with this application.	Ballymacken, Portlaoise	APPLICATION FINALISED	PERMISSION CONDITIONAL	11.9	1	15/1.13/2025 12:00:00 AM	6/23/2025 12:00:00 AM	6/23/2025 12:00:00	7/26/2025 12:00:00 AM	7/27/2030 12:00:00 AM						03/07/2025 00:00:00	05/27/2025 12:00:00 AM		
Kildare County Council	23837 the construction of a photovoltaic solar farm comprising of 54 no. table solar panel arrays erected on ground mounted galvanised steel frames/support structures located in the southeast corner of the existing mushroom, compost and farm facility. The solar panels will be arranged facing southward with a separation distance of 5 metres between rows. The development also includes (i) ducting and underground electrical cabling; (ii) 2m high perimeter fencing to the north and west site boundaries with associated access gate; (iii) all ancillary works including landscaping and associated civil engineering works necessary to facilitate the development. The solar farm will provide electrical power to the existing facility	Monaghan Mushrooms, Drummin, Derrinbane	APPLICATION FINALISED	PERMISSION CONDITIONAL	1.41	0	0 08/09/2023 00:00	11/08/2023 00:00	11/14/2023 12:00:00	01/03/2024 00:00	01/02/2029 00:00						9/26/2023 12:00:00 AM	10/18/2023 12:00:00 AM		
Laois County Council	16536 erect a 2.4MVA solar farm comprising photovoltaic panels on ground mounted frames, four single storey inverter/transformer stations, one single storey terminal station, one single storey electrical switchroom, security fencing, CCTV and all associated ancillary development works	Acragar, Mountmellick	APPLICATION FINALISED	PERMISSION CONDITIONAL	12.4	0	0 10/28/2016 12:00:00 AM	12/21/2016 12:00:00 AM	12/22/2016 12:00:00	1/20/2017 12:00:00 AM	1/29/2027 12:00:00 AM									
Laois County Council	2560407 construct & operate a photovoltaic solar farm over an area of 2 hectares comprising of photovoltaic panels on ground mounted frames, a switch room building, Perimeter fencing, with underground ducting routes, landscaping, using existing entrance along with all associated ancillary development works	Lea/Clooney, Portlaoise, Co. Laois	NEW APPLICATION	PERMISSION N/A		2	0	0 07/06/2025 00:00		29/01/2026 00:00										
Offaly County Council	21484 A 10 YEAR PERMIT FOR THE CONSTRUCTION OF AN EXTENSION TO THE PERMITTED SOLAR PV AND BATTERY STORAGE DEVELOPMENT PERMITTED AT SRATH GREENHILLS AND WOOD, RHODE, CO. OFFALY PERMITTED UNDER PLANNING PERMISSION REFERENCE: 20/494A. THE EXTENSION WILL COM普E ADDITIONAL SOLAR PANELS ON GROUND-MOUNTED FRAMES, 5 SINGLE STOREY ELECTRICAL INVERTER/ TRANSFORMER UNITS, THE OMISSION OF THE SECURITY FENCING ALONG THE WESTERN AND SOUTHERN BOUNDARIES SHARED WITH THE BOUNDARIES OF PLANNING PERMISSION REFERENCE: 20/494. ADDITIONAL BOUNDARY FENCING ALONG THE WESTERN AND SOUTHERN BOUNDARIES, POLE MOUNTED CCTV CAMERAS AND ALL ASSOCIATED ANCILLARY DEVELOPMENT WORKS ON A 22.8HA SITE. THE OPERATIONAL LIFESPAN OF THE SOLAR PV DEVELOPMENT WILL BE 35 YEARS. A NATURA IMPACT STATEMENT (NIS) WILL ACCOMPANY THE PLANNING APPLICATION	SRATH GREENHILLS, RHODE, CO. OFFALY	APPLICATION FINALISED	PERMISSION CONDITIONAL U6	22.92	0	0 08/06/2021 00:00	12/10/2021 00:00	12/12/2021 00:00	1/26/2022 12:00:00 AM	1/27/2033 12:00:00 AM						9/30/2021 12:00:00 AM	10/18/2021 12:00:00 AM		
Offaly County Council	2152 A MODULAR BATTERY ENERGY STORAGE SYSTEM (BESS) FACILITY WITHIN THE FOOTPRINT OF A PREVIOUSLY CONSENTED CONSTRUCTION COMPOUND (ABP REF: PLES/PAD007). PLANNING PERMISSION IS SOUGHT FOR A PERIOD OF 10 YEARS. THE FACILITY WILL CONSIST OF 18 NO. 28kW BATTERY STORAGE MODULES (UP TO 13.6M IN LENGTH, 5.8M IN WIDTH AND 3.8M IN HEIGHT) AND ANCILLARY EQUIPMENT INCLUDING UP TO: 28 NO. STEP-UP TRANSFORMERS, 20 NO. AIR-HANDLING UNITS AND ALL OTHER ASSOCIATED SITE DEVELOPMENT WORKS AND SERVICES, INCLUDING LIGHTING, PROTECTION MONITORING, 5 CCTV CAMERAS, INTERNAL ACCESS ROADING, THE BESS FACILITY WITH THE CONSENTED CLOONCREW WIND FARM NUMBER OF 100kW UNITS, AND A BATTERY ENERGY STORAGE AMENITY. THE PLANNING APPLICATION REFLECTS THE CONSENTED PLACEMENT AND WILL INVOLVE THE CONTINUED USE OF THE CONSENTED CONSTRUCTION COMPOUND. THE BESS FACILITY WILL BE LOCATED ENTIRELY WITHIN THE BOUNDARY OF THE CONSENTED CLOONCREW WIND FARM AND WILL USE EXISTING ACCESS ARRANGEMENTS WITHIN THE WIND FARM. THE APPLICATION IS ACCOMPANIED BY A NATURA (IMPACT STATEMENT (NIS))	BALLYLUKEEN TOWNLAND, CO. OFFALY	APPLICATION FINALISED	PERMISSION CONDITIONAL U	0.64	0	0 02/09/2021 00:00	7/30/2021 12:00:00 AM		08/02/2021 00:00	09/06/2021 00:00	05/09/2021 00:00						04/01/2021 00:00	06/08/2021 00:00	
Laois County Council	2360261 develop as follows: (i) 136 no. battery storage units; (ii) 17 no. Mv solar panels (PCS + Mv) V Transformer solution; (iii) a new site access and onsite access tracks; (iv) electrical and communications cabling; (v) pole-mounted security cameras; (vi) security fencing and security gates; (vii) a temporary construction compound; (viii) all associated and ancillary site development, landscaping and reinstatement works, over a total site area of c.3.4 hectares. The operational lifetime of the proposed development is 35 years	Brackone, Portlaoise	APPLICATION FINALISED	PERMISSION CONDITIONAL	3.4	0	0 07/10/2023 00:00	14/12/2024 12:00:00 AM	2/12/2024 12:00:00	3/21/2024 12:00:00	3/20/2034 12:00:00 AM						09/01/2023 00:00:00	12/15/2023 12:00:00 AM		
Offaly County Council	20494 A 10-YEAR PERMISSION. THE DEVELOPMENT WILL CONSIST OF THE CONSTRUCTION OF: 1. A SOLAR PV DEVELOPMENT ON A C.132 HA SITE CONSISTING OF SOLAR PANELS ON GROUND-MOUNTED FRAMES, 27 NO. 100kW UNITS, 2 NO. 100kW INVERTERS, 1 NO. 100kW BATTERY ENERGY STORAGE SYSTEM, 2 NO. 100kW CONTROLLER UNITS AND 1 NO. 100kW METERS. THE SOLAR PV DEVELOPMENT SITE CONSISTING OF 18 NO. BATTERY ENERGY STORAGE UNITS (EACH WITH ASSOCIATED CONTAINERS) STEP UP TRANSFORMERS, 1 NO. CONTAINERS CONTROL ROOM AND 1 NO. CONTAINERS SWITCH ROOM AND ALL ASSOCIATED ANCILLARY DEVELOPMENT WORKS, AND 3. A TEMPORARY CONSTRUCTION COMPOUND ADJACENT TO THE EXISTING ACCESS. THE OPERATIONAL LIFESPAN OF THE SOLAR PV DEVELOPMENT AND BATTERY ENERGY STORAGE SYSTEM WILL BE 35 YEARS. A NATURA IMPACT STATEMENT (NIS) WILL ACCOMPANY THE PLANNING APPLICATION	SRATH GREENHILLS, WOOD, RHODE, CO. OFFALY	APPLICATION FINALISED	PERMISSION CONDITIONAL U6	132	1	14.4 10/13/2020 12:00:00 AM	4/26/2021 12:00:00 AM	4/26/2021 12:00:00	6/15/2021 12:00:00 AM	6/14/2031 12:00:00 AM						12/04/2020 00:00	03/02/2021 00:00:00		
Offaly County Council	2560082 Amendments to the development permitted under Offaly County Council Planning Register Reference 20/494/01: (i) revise the layout of the permitted development including solar array and battery energy storage system; (ii) provide for the connection of the solar array from 2,914 m ² to 3,000 m ² ; (iii) provide for the connection of the battery energy storage system to the electrical inverter/transformer units from 27 to 40; (iv) provide for a change in layout of the site; (v) alter the design of the battery energy storage system including an increase in the storage capacity from 3,850 square metres to approximately 10,100 square metres; (vi) alter the design of the battery energy storage system including an increase in the storage capacity from 3,850 square metres to approximately 10,100 square metres; (vii) provide for the planting of screening vegetation at the end of the construction phase; (viii) alter Condition No. 5(a) to provide for the decommissioning of the development no later than 40 years from the date of commissioning; and, (ix) all associated site development, drainage, access and reinstatement works. This planning application is accompanied by a Natura Impact Statement (NIS)	Srah Wood and Greenhills, Rhode, County Offaly	APPLICATION FINALISED	PERMISSION CONDITIONAL U6	137	0	0 03/20/2025 12:00:00 AM		10/08/2025 00:00:00								5/14/2025 12:00:00 AM	8/14/2025 12:00:00 AM		

APPENDIX 1.4

Glossary of Terms and Abbreviations

1. Glossary of Key Terms and Abbreviations

Key Terms	Definition
The Applicant	Dara Energy Limited
Baseline	Existing status of the receiving environment within the Study Area.
Blue Line Boundary	Denotes one or more areas of land within the ownership or control of the Applicant for the Proposed Development.
Chartered Institute of Ecology and Environmental Management (CIEEM)	The Chartered Institute of Ecology and Environmental Management is the professional membership body representing and supporting Ecologists and Environmental professionals in the UK, Ireland and abroad. Previously known as Institute of Ecology and Environmental Management (IEEM).
Collision Risk Modelling (CRM)	Method used to predict the potential number of bird collisions that might be caused by the operation of a wind farm.
Community Benefit Scheme	A fund that is unique to the Project and whose design is typically driven by the community that administers and avail of it. It can include for example: Contributing to the improvement of local recreational amenities Supporting local projects that benefit the wider community; Engaging with local communities in enhancing sustainable energy awareness, use and efficiency.
Competent Authority	Organisation that has the obligation to carry out Appropriate Assessment and or Environmental Impact Assessment. In this case, An Bord Pleanála.
Construction Phase	The period during which project infrastructure is being installed.
The Councils	Kildare, Offaly and Laois County Councils.
Decommissioning Phase	The period during which project infrastructure is being removed at the end of the operational lifetime of The ProjectProposed Development.
Department for Transport, Tourism and Sport (DTTAS)	The Irish government department responsible for Transport, Tourism and Sport with a mission to support economic growth and social progress.
Department of Agriculture, Food, Fisheries and the Marine (DAFFM)	The Irish government department responsible for agriculture, food and the marine.
Department of Communications, Climate Action and Environment (DCCAE)	The Irish government department responsible for communications, climate action, environment, broadcasting, energy, natural resources and postal services. The department must ensure that all of its policies are in line with EU and global obligations.
Department of Communications, Marine and Natural Resources (DCMNR)	Previous name of the Department of Communications, Climate Action and Environment.
Department of Housing, Planning, and Local Government and	The Irish government department responsible for housing, planning and local government.

Key Terms	Definition
Heritage (DHPLGDHLGH)	
Design Parameters	Set of parameters by which The Project Proposed Development is defined, and which will be used to form the basis of assessments in the EIAR.
The Proposed Development	Refers to all elements of the application for planning permission for the Proposed Development (Derrynadarragh Wind Farm), the details of which are set out within Chapter 2: Development Description. These elements include the wind turbines, all site infrastructure (access tracks, substation(s), temporary construction / storage compounds, deposition areas, etc.) including the works required within the Redline Boundary to accommodate the Grid Connection.
Development Consent	Planning permission from An Bord Coimisiún Pleanála for the development to proceed.
Development Phase	This relates to the development of The Project Proposed Development through commercial, environmental, technical and engineering consideration prior to construction.
EIAR Scoping Report	The EIAR Scoping Report sets out the proposed scope of work and methods to be applied in the development of the Environmental Impact Assessment Report (EIAR).
EirGrid	State-owned electric power Transmission System Operator (TSO) in Ireland
Electricity Supply Board Networks (ESBN)	Licensed owner and operator of the electricity distribution system and onshore transmission asset owner in the Republic of Ireland, responsible for carrying out operations, maintenance, repairs and construction on the national electricity grid.
Electromagnetic Field (EMF)	This is a property of space caused by the motion of an electric charge. A stationary charge will produce only an electric field in the surrounding space. If the charge is moving, a magnetic field is also produced. An electric field can be produced also by a changing magnetic field.
Environmental Impact Assessment (EIA)	A systematic means of assessing a development projects likely significant effects undertaken in accordance with the EIA Directive (Directive 2011/92/EU as amended by Directive 2014/52/EU). It is an assessment carried out by the Competent Authority.
Environmental Impact Assessment Report (EIAR)	A report prepared by the Developer to describe the likely significant effects of a project and submitted with an application for Development Consent.
Environmental Protection Agency (EPA)	National agency responsible for protecting and improving the environment of Ireland.
European Commission (EC)	The executive body of the European Union responsible for proposing legislation, enforcing European law, setting objectives and priorities for action, negotiating trade agreements and managing implementing European Union policies and the budget.
European Directive	A "directive" is a legislative act that sets out a goal that all EU countries must achieve. However, it is up to the individual countries to devise their own laws on how to reach these goals. One example is the EU Consumer Rights Directive (Directive 2011/83/EU), which strengthens rights for consumers across the EU, for example by eliminating hidden charges and costs on the internet, and extending the period under which consumers can withdraw from a sales contract.

Key Terms	Definition
Fehily Timoney and Company (FT)	Planning and Environmental Consultants responsible for leading preparation of the EIAR for The Project
Felling Licence	A licence granted by the Minister for Agriculture, Food and the Marine provides authority under the Forestry Act 2014 to fell or otherwise remove a tree or trees.
Geographical Information System (GIS)	A digital system that captures, stores, analyses, manages and presents data linked to geographic location. It links spatial information to a digital database.
Grid Connection Route (GCR)	The proposed route of connecting the Proposed Development to the national grid at the Bracklone Substation.
High Voltage Direct Current (HVDC)	A High Voltage Direct Current (HVDC) electric power transmission system (also called a power superhighway or an electrical superhighway) uses Direct Current for the bulk transmission of electrical power. For long-distance cables, HVDC systems are preferred as being less expensive and suffering lower electrical losses. For underwater power transmission, HVDC avoids the need to charge and discharge the cable capacitance each cycle. HVDC typically uses voltages between 100 kV and 1,500 kV.
Landscape and Visual impact assessment	A tool used to identify and assess the likely significant effects of change resulting from the Project on the landscape as an environmental resource in its own right and on views and Visual Amenity experienced by human & other receptors.
Maximum Export Capacity (MEC)	The Maximum Export Capacity (MEC) is the value (in MW, MVA, kW and/or kVA) provided in accordance with the User's Grid Connection Agreement or DSO Demand Customer's DSO Connection Agreement. This is the maximum capacity that can be exported to the Electricity Transmission/Distribution System by a project.
National Parks and Wildlife Service (NPWS)	The National Parks and Wildlife Service manages the Irish State's nature conservation responsibilities. The activities of the NPWS include the designation and protection of Natural Heritage Areas, Special Areas of Conservation and Special Protection Areas.
Natura Impact Statement (NIS)	This is a report prepared to inform Appropriate Assessment (AA) of Natura 2000 sites as required under the EU Habitats Directive which presents information on the assessment and the process of collating data on a project and its potential significant effects on Natura 2000 site(s).
Natura 2000 sites	Sites both onshore and offshore which are designated for conservation and protection under the EU Habitats Directive and Bird Directive.
Nutrient Sensitive Areas (NSAs)	Areas of protected habitats and species as defined in the Nitrates Directive.
Project Substation	A compound containing electrical transforming equipment to ensure the wind farm export power operates within safety and performance parameters to enable connection to the National Irish grid. If needed, the substation will transform voltage from high to low, or the reverse by means of the electrical transformers before it is connected onto the Irish electricity grid.
Operations and Maintenance (O&M)	O&M is the activity that follows commissioning to ensure the safe and economic running of the Project. The objective of this activity is to make sure the Project Proposed Development achieves the best balance between running cost and electricity output.

Key Terms	Definition
Operational Phase	The period over which the wind farm is generating, and any works are for maintenance purposes.
Prescribed Bodies	A public body or institution declared by the Minister as set out in the Planning & and Development Act 2000 (as amended). These are bodies that should be notified by a Planning Authority or Competent Authority of applications for Consent that may fall within their remit.
The Proposed Development	The Proposed Development refers to the development works within the Redline Boundary and any other construction materials or work which derive from outside the Redline Boundary e.g. accommodation works required for Turbine Delivery or haulage.
Ramsar site	A wetland site designated to be of international importance under the Convention on Wetlands, known as the Ramsar Convention.
Receptor	Environmental component that may be affected, adversely or beneficially, by the Proposed Development.
Red Line Boundary	Refers to the Proposed Development planning boundary extents.
Renewable Energy Support Scheme (RESS)	Set up by Department of the Environment, Climate and Communications (DECC), the RESS aims to promote the generation of electricity from renewable sources by providing financial support to renewable energy projects in Ireland.
River Basin Management Plan	A national plan that sets out the actions (Programme of Measures and Areas for Action) that Ireland will take to improve water quality and achieve 'good' ecological status.
Roadmap for a competitive low-carbon Europe	With its Roadmap for moving to a competitive low-carbon economy in 2050, the European Commission is setting out a plan to meet the long-term target of reducing domestic emissions by 80 % to 95% by mid-century as agreed by European Heads of State and governments.
The Site	Refers to the lands upon which the wind farm and substation will be developed and does not include the grid connection.
Special Area of Conservation (SAC)	Areas defined in the European Union's Habitats Directive (92/43/EEC) for protection of one or more special habitats and/or species terrestrial or marine.
Special Protection Area (SPA)	Sites classified in accordance with Article 4 of the EC Birds Directive (2009/147/EC). They are classified for rare and vulnerable birds (as listed on Annex 1 of the Directive), and for regularly occurring migratory species.
Species	A group of interbreeding organisms that seldom or never interbreed with individuals in other such groups, under natural conditions; most species are made up of subspecies or populations.
Suspended sediment concentration	Suspended sediment generally consists of flocculated material and is often a mixture of inorganic particles (clays and silts), bacterial and algal communities, organic particles (detritus and extracellular polymers), and interfloc spaces (pores) that allow for the flow through or retention of water.
Study Area	The physical area defined for each EIAR topic includes the potential spatial and temporal considerations of the effects on relevant receptors. The Study Area for each EIAR topic is intended to cover the area within which an effect can be reasonably expected relative to that topic.

Key Terms	Definition
Turbine Delivery Route (TDR)	The proposed turbine delivery route (TDR) from Galway Port to the Site.
Water body	A discrete and significant element of surface water such as a lake, a reservoir, a stream, river or canal, part of a stream, river or canal, a transitional water or a stretch of coastal water, designated for the purposes of implementing the Water Framework Directive (WFD).
Wind Turbine Generator (WTG)	Wind Turbine Generators (WTG) or “WTGs” are unit(s) generating electricity from wind. These electricity generating machines typically comprise a tower, rotor with three blades connected at the hub, nacelle and ancillary electrical and other equipment...
Zone of Influence (ZOI)	The area of the receiving environment which may experience both positive or negative effects as a result of a project.
Zone of Theoretical Visibility (ZTV)	A map, digitally produced, showing areas of land and or sea within which different elements of a project is theoretically visible.

Abbreviation	Term in Full
AA	Appropriate Assessment
CA	Competent Authority
CAA	Civil Aviation Authority
CAP	Climate Action Plan
CAS	Controlled Airspace
CDP	County Development Plan
CEMP	Construction Environmental Management Plan
CIA	Cumulative Impact Assessment
CIEEM	Chartered Institute of Ecology and Environmental Management
csAC	candidate Special Areas of Conservation
DAFM	Department of Agriculture, Food and the Marine
dB	decibel
DECC	Department of the Environment, Climate and Communications, formerly Department of Communications, Climate Action and Environment (DCCAE)
DoHLGH	Department of Housing, Local Government and Heritage, formerly Department of Housing, Planning, and Local Government (DHPLG).
DoT	Department of Transport
DoD	Department of Defence
EC	European Commission
EIA	Environmental Impact Assessment
EIAR	Environmental Impact Assessment Report

Abbreviation	Term in Full
EIS	Environmental Impact Statement
EMF	Electromagnetic Field
EPA	Environmental Protection Agency
ESB	Electricity Supply Board
ESBN	Electricity Supply Board Networks
EU	European Union
EU DCF	EU Data Collection Framework
EUNIS	European Nature Information System
FT	Fehily Timoney and Company
FWPM	Freshwater pearl mussel
GIS	Geographic Information System
GLVIA3	Guidelines for Landscape and Visual Impact Assessment, Third Edition
GPS	Global Positioning Systems
GSI	Geological Survey Ireland
GW	Gigawatt
HDD	Horizontal Directional Drilling
HGV	Heavy Goods Vehicles
HV	High Voltage
IAA	Irish Aviation Authority
IAC	Irish Air Corps
ICAO	International Civil Aviation Organisation
IEEM	Institute of Ecology and Environmental Management
IEMA	Institute of Environmental Management and Assessment
IFI	Inland Fisheries Ireland
INNS	Invasive and Non-Native Species
IROPI	Imperative Reasons of Overriding Public Interest
IWeBs	Irish Wetland Bird Survey
IWT	Irish Wildlife Trust
JNCC	Joint Nature Conservation Committee
KCC	Kildare County Council
km	Kilometre
kV	KiloVolts
LCC	Laois County Council
LSE	Likely Significant Effects

Abbreviation	Term in Full
LVIA	Landscape and Visual Impact Assessment
MEC	Maximum Export Capacity
MW	Megawatts
NATS	National Air Traffic Service
NBDC	National Biodiversity Data Centre
NDP	Project Ireland 2040: National Development Plan 2018 – 2027
NECP	Ireland's National Energy and Climate Plan
NGO	Non-government Organisation
NHA	Natural Heritage Areas
NIAH	National Inventory of Architectural Heritage
NIS	Natura Impact Statement
NMI	National Museum of Ireland
NMS	National Monuments Service
NPF	National Planning Framework
NPWS	National Parks and Wildlife Services
NREAP	National Renewable Energy Action Plan
OCC	Offaly County Council
O&M	Operation and Maintenance
OPW	Office of Public Works
P&D	Planning and Development Act 2000
pNHA	proposed Natural Heritage Areas
SAC	Special Area of Conservation
SNH	Scottish Natural Heritage
SPA	Special Protection Area
SPM	Suspended Particulate Matter
TII	Transport Infrastructure Ireland
VP	Vantage Point
WFD	Water Framework Directive
WTG	Wind Turbine Generator
ZoI	Zone of Influence
ZTV	Zone of Theoretical Visibility



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