

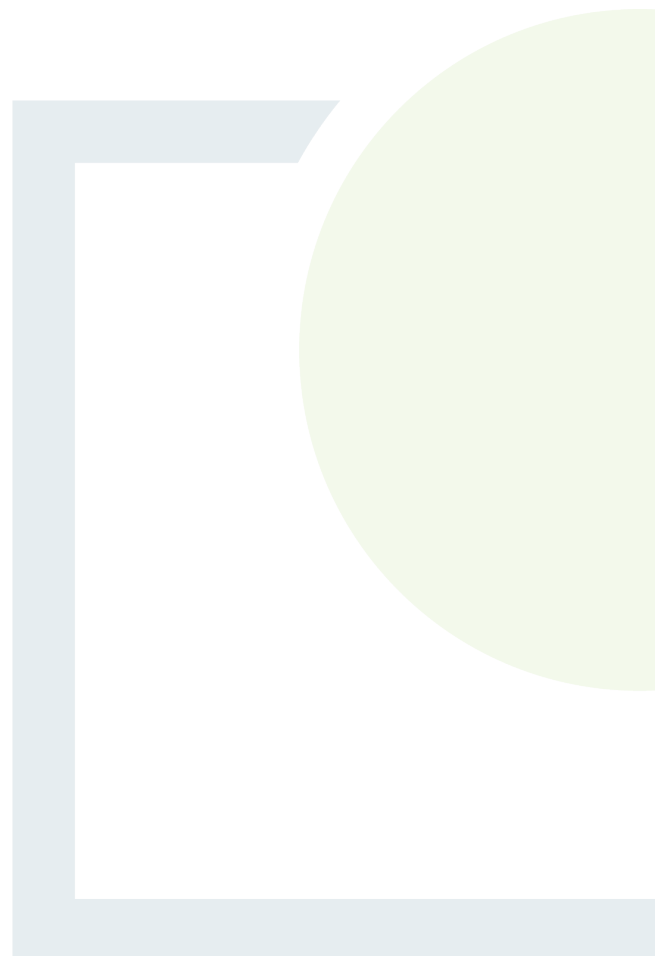


DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

APPENDIX 1

INTRODUCTION

Appendix 1.1 – Curriculum Vitae



APPENDIX 1.1

Curriculum Vitae



Jim Hughes

Director of Energy & Planning



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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 Shelmalare 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



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A SUSTAINABLE FUTURE

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



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

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



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A SUSTAINABLE FUTURE

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



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

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



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

- **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 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.

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

Project Engineer responsible for site layout design for the proposed 16 MW Ralphtown 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



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

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.

- **Cashlie, 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.



Evan Rossiter

Senior Project Planner

CV 01



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

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



Robyn Nicholl

Principal Planner



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A SUSTAINABLE FUTURE

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.



Anthony Ryan

Project Planner



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A SUSTAINABLE FUTURE

Profile

Anthony graduated with First Class Honours from both the Master’s in Planning and Sustainable Development (MPlan) at University College Cork and the B.A. in Heritage Studies from Galway-Mayo Institute of Technology, Galway.

Before joining FT, Anthony worked as a Graduate Town and Environmental Planning Consultant for The Planning Partnership Planning Consultants, Cork and the Department of Strategic Planning & Economic Development in Cork City Council. Since joining FT in 2021, Anthony has worked on a number of wind and solar renewable energy projects. Anthony prepares planning statements and environmental assessments, and project manages these projects into the planning system.

Key Skills

- Research and report writing
- Microsoft Word, PowerPoint and ArcGIS
- Strategic Planning
- Project Management
- Full/Clean Irish driving licence and Safe Pass holder

Previous Experience

- **The Planning Partnership, Cork, 2020-2021**
Anthony was a Graduate Planning Consultant. His role involved working within the Town, Environmental and Retail Planning team on projects which involved a varying workload while working within the office or remotely delivering projects within a deadline and to a professional standard. His responsibilities required working on projects of varying scale and nature, and included stakeholder interaction, desk-based research, and site visits to prepare assessments and reports for residential, commercial, retail and mixed-use development, as well as renewable energy projects and Development Plan submissions.
Anthony used Microsoft office suite such as Word, Excel and PowerPoint and research tools such as ArcGIS to draft and prepare multi-source reports such as Planning Reports, Replies to Requests for Further Information (RFI) and Planning Status Reports. These required attention to detail and high standards of presentation and allowed Anthony to develop his communication, research and report writing skills and expand his knowledge of the Irish Planning System and Irish and Policies, as well as European planning and environmental legislation such as Birds and Habitat Directives.
- **Woodies D.I.Y & Garden Centre, Galway and Cork, 2008-2020**
Anthony was a Store Horticulturalist. He was responsible for managing all aspects of Garden Centre operations and maintaining a customer-focused shopping experience through practical gardening and plant advice, training, communication, and teamwork. He grew sales through increased customer footfall and loyalty by providing outstanding customer service, professional gardening advice, excellent stock quality and providing positive shopping experience.
Anthony generated year-on-year sales increases and annual savings by implementing stock management procedures and more efficient processes in reducing wasted resources to increase sales margins.

Key Information

Qualifications

Master’s in Planning and Sustainable Development (MPlan),
University College Cork,
2020

B.A in Heritage Studies,
Galway-Mayo Institute of Technology,
2017

Diploma in Commercial and Amenity Horticulture, Warrenstown Horticultural College,
1999

Employment History

2021 – Present

Fehily Timoney & Company, Cork
Graduate Planner – Energy and Planning Team

2020 – 2021

The Planning Partnership, Cork
Graduate Planning Consultant

2008 – 2020

Woodies D.I.Y., Cork
Horticulturalist

2019 – 2019

Cork City Council
Planning Clerical Officer

2006 – 2007

Queensland Federal Government,
Agricultural and Crop Inspector

2003 – 2006

Emerald Group Christmas Tree Growers, Co. Wicklow,
Field Supervisor

1998 – 2003

New Place Nurseries, UK
Horticulturalist



Anthony Ryan

Project Planner



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

- **Cork City Council, Cork, 2019**

Anthony was a Planning Clerical Officer working within the Department of Strategic Planning & Economic Development to finalise the city-wide Vacancy Survey for Cork City. He researched and updated all GIS data required information needed for accurate and detailed data regarding property vacancy and dereliction within Cork City. The survey's contributed to creating an understanding of levels of building vacancy and dereliction, allowing Cork City Council to develop and implement measures to reduce its prevalence and resolve the circumstances which lead to it emerging. Anthony also carried out surveys on visitor habits, patterns and demographics in Bishop Lucey Park and Kent Train Station. The survey's assisted in creating an understanding of the usage patterns and general requirements of both locations as part of proposed re-development and upgrade work to their functionality and the public realm.

- **Queensland Federal Government, Brisbane, Australia, 2006-2007**

Horticultural Inspector.

- **Emerald Group Christmas Tree Growers, Co. Wicklow, 2003-2006**

Field Supervisor.

- **New Place Nurseries, UK, 1998-2003**

Horticulturalist.

Previous FT Experience Essentials for this Project

Wind Energy Projects

Anthony contributed to various wind farm projects planning applications and assisted in the preparation and drafting of non-technical reports, finalising notices and forms, reviewing of planning drawings and collating of applications for submission. Anthony provided project management of a response to Further Information. Anthony worked on several projects where he directly contributed to client engagement and landholder interactions in relation to day-to-day client interface, ensuring that objectives were met and that projects were delivered to time, cost and quality targets. Anthony has carried out site visits and gained end-to-end knowledge of the planning application and commissioning process, including experience of client and landowner interaction in relation to site evaluation and constraints assessments (ArcGIS and Landdirect.ie), land management and Site Notice and planning compliance. Anthony has contributed to EIAR chapters to include Chapter 1, 'Introduction', Chapter 2 'Site Selection and Alternatives' and Chapter 4 'Policy and Public Consultation'.

- **On-Shore Wind Farms 2021-2022**

Anthony provided Planning Support for several Wind Farm developments nationwide which included the drafting of non-technical reports, finalising notices and forms, reviewing of planning drawings and collating of applications for submission. Anthony provided project management of a response to Further Information.

- **Ballinagree Wind Farm 2020-2022**

Provision of Planning Support including the drafting of statutory SID notices and forms. Review of planning drawings and collating of application for submission of this 22-turbine wind farm in Co. Cork.

- **Coom Green Energy Park 2021**

Collation and project management of a response to Further Information on this 20-turbine wind farm in North Cork.

- **Extension of Use Application**

Anthony provided planning support for an 'Extension of Use' Application for a Temporary Met Mast on the following project:

- Coom Green (P21-141)

Anthony participated in drafting and submitting the following:

- **Environmental Impact Assessment Reports (EIAR)**

Anthony participated in drafting non-technical chapters for the EIAR into the effects a proposed project may have on the environment for the following projects:

- Coumnaagappul Wind Farm, Co. Waterford (P2360): Chapter 1, 'Introduction', Chapter 2 'Development Description' and Chapter 4 'Policy', Chapter 17 'Interactions of the Foregoing'.
- Garryhinch Wind Farm, Co. Offaly (P21-180): Chapter 1, 'Introduction' and Chapter 4 'Policy'.
- Littleton Wind Farm, Co. Tipperary (P20-211): Chapter 1, 'Introduction' and Chapter 4 'Policy and Public Consultation'.
- Annagh Wind Farm, Co. Cork (P2359): Chapter 1, 'Introduction', Chapter 2 'Site Selection and Alternatives' and Chapter 4 'Policy'.
- Ballinagree Wind Farm, Co. Cork (P2114): Chapter 1, 'Introduction', Chapter 17 'Interactions of the Foregoing'.



Anthony Ryan

Project Planner

- Fahy Beg, Co. Clare (P20-003): Chapter 1, 'Introduction', Chapter 2 'Site Selection and Alternatives' and Chapter 4 'Policy'.
- Milltownpass (20-030): Chapter 1, 'Introduction', Chapter 2 'Development Description' and Chapter 4 'Policy'.
- Shanclon, Co. Galway (P20-306): Chapter 1, 'Introduction', Chapter 2 'Development Description' and Chapter 4 'Policy'.
- Cloonkett Wind Farm, Co. Clare (P22-125); Chapter 4 'Policy', Chapter 6: 'Population, Human Health' and Chapter 17: 'Telecommunications, Aviation and Material Assets'.
- **Substitute Consent Report / Applications**

Anthony participated in the preparation of Substitute Consent Planning Reports and documents to support the application to An Bord Pleanála under Section 177C of the Planning and Development Act 2000 (as amended):

 - Littleton Wind Farm (P20-211): Planning Report for leave to apply for Substitute Consent for historic peat extraction activities (and all associated bog development works) that have been carried out on lands within Littleton Bog Group, Co. Tipperary.
 - Garryhinch Wind Farm, Co. Offaly (P21-180): Report to support application for leave to apply for Substitute Consent under Section 177C of the Planning and Development Act, 2000 (as amended) to regularise the planning status of historic peat extraction (and ancillary bog development works) in the Garrymore Bog, County Laois and neighbouring Garryhinch Bog, County Offaly.
 - Littleton Peat Extraction (P23-035): Report to support application for leave to apply for Substitute Consent under Section 177C of the Planning and Development Act, 2000 (as amended) to regularise the planning status of historic peat extraction (and ancillary bog development works) that have been carried out on Longford Pass, Littleton, Lanepark and Derryvella Bogs in Co. Tipperary.

Solar Energy Projects

Anthony contributed to various solar farm planning applications nationwide, including the Project Management of a portfolio of 4 solar farms in Co. Tipperary, which required the preparation of the Planning and Environmental report and finalising of statutory forms, documents and drawings. This portfolio successfully received a grant of planning permission in 2021.

Anthony assisted with and project managed the preparation and submission of planning applications for solar PV renewable energy developments. Each solar application was accompanied by reports such as a detailed environmental and planning report which assesses the impact of the solar development on a multitude of factors including Archaeology & Cultural Heritage, Ecology & Biodiversity, Glint and Glare, Landscape and Visual Impact, Noise, Hydrology and Traffic/Road assessments. Each solar application was accompanied by drawings and further reports providing specific development details as part of the planning application where Anthony contributed to reviewing drawings and reports such as Ecological Impact Assessment (EclA), Appropriate Assessment Screening Reports (AA), Natura Impact Statements (NIS), Construction Environmental Management Plans (CEMP), Flood Risk Assessments (FRA). In addition, all application material has to be reviewed and checked to ensure a valid application can be submitted and ensure a successful outcome.

Anthony participated in drafting and submitting of the following:

- **Solar Stage I Feasibility Study**

Anthony carried out to a Stage I Feasibility Study to analysis the feasibility of developing a solar PV farm for the following projects:

 - Rahanisky Solar Farm, Cork County & City (P22-036)
 - South Galway Solar Farm, Co. Galway (P21-243)
 - Drummin (Castlebank), Co. Clare (P21-103)
 - Corkbeg, Co. Cork (P21-230)
 - Ballynookery, Co. Cork (P21-249)
 - Rathleash, Co. Laois (P21-302)
 - Clondardis, Co. Westmeath (P22-124)
- **Solar Stage II Feasibility Study**

Anthony carried out to a Stage II Feasibility Study to analysis the feasibility of developing a solar PV farm for the following projects:

 - Kilmorna, Co. Kerry (P21-282)
 - South Galway Solar Farm, Co. Galway (P21-243)
 - Drummin, Co. Clare (Castlebank) (P21-187)
 - South Galway, Co. Galway (P21-243)
 - Kilmorna, Co. Kerry (P21-182)
 - Shantallow, Co. Galway (P23-011)



Anthony Ryan

Project Planner



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

- Milltown Extension, Co. Meath (P22-261)
- **Solar Farm Planning Applications**

Anthony participated in and project managed the preparation and lodgement of planning applications for the following Solar Farm developments:

 - Milltown, Co. Meath (P20-030)
 - Clashwilliam, Co. Kilkenny (P21-191)
 - Rathdrinagh, Co. Meath (P21-126)
 - Cahir Solar Farm 1, Co. Tipperary (P21-061)
 - Carrick SLR 2, Co. Tipperary (P21-061)
 - Deerpark 3, Co. Tipperary (P21-061)
 - Ballyvalode, Co. Limerick (P20-142)
 - Kilcormac Solar Farm, Co. Offaly (20-316)
 - Rahanisky, Cork County & City (P22-266)
 - Killough Solar Farm, Co. Tipperary (P24-169)
 - Cappakeel Solar Farm, Co. Laois (P23-226)
 - Ballylongford Solar Farm Amendment Application (P24-371)
- **A Section 177AE application**

Anthony completed the Planning and Environmental Report and associated documents on behalf of Cork City Council in support of a Section 177AE application to An Bord Pleanála for approval of repair and rehabilitation works at Glyntown Bridge.

 - Cork City Council - Glyntown Bridge (P21-200)
 - Cork County Council - Ardcahan Bridge (P1959)
- **Strategic Infrastructure Development (SID)**

Prepared documents for Strategic Infrastructure Development (SID) applications to An Bord Pleanála for electrical infrastructure projects associated with solar developments for the following projects:

 - Kilcormac, Co. Kerry (P20-316)



Rita Mansfield

Subject Matter – Ecology



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

Profile

Rita is a Senior Associate Director (Ecology) and Project Manager at Fehily Timoney with twenty years previous experience as a technical lead within the environmental and planning services sector. She specialises in statutory consent and environmental assessment for large scale public and private infrastructure projects in the energy, water (including flood relief schemes) and transport sectors.

She is a qualified ecologist in environmental impact assessment, planning applications (conventional and strategic infrastructure development), climate adaptation, Appropriate Assessment, foreshore licensing, Water Framework Directive, integrated catchment management, and stakeholder engagement.

In the energy sector particular specialist experience in securing statutory consent for combined and open-cycle gas turbines, solar and wind projects, peat fired power stations, utility scale batteries and transmission (110 kV, 220 kV and 400 kV overhead line and underground cable) infrastructure.

In the transport sector, specialist experience in securing statutory consent (including CPO, EIA and AA), environmental detailed design and environmental contract administration in Light Rail and Highways.

In the water sector, specialist experience in securing statutory consent (including planning, CPO, EIA and AA) for sewerage schemes, municipal wastewater treatment, potable water treatment and distribution and flood relief schemes.

Key Skills

- Environmental Impact Assessment (EIAR)
- Appropriate Assessment (AA): Habitats Directive
- Ecological Impact Assessment (EclA)
- IED licence
- Foreshore Licence
- Construction Environmental Management Plan (CEMP)
- Ecological Clerk of Works (ECoW)
- Water Framework Directive
- Environmental design and mitigation
- ArcGIS Desktop /Collector/Online

Previous Experience

Energy Services

- **Killough Solar Farm, Co. Tipperary**
EclA and NIS for the Killough Solar Farm to include scoping ecology surveys and review of EclA and NIS.
- **Dennistown 110kV Grid and Substation / Harmony Solar**
Strategic Infrastructure Development application to An Bord Pleanála for 110 kV infrastructure to support a solar development in Wexford.

Key Information

Qualifications

H. Dip Environmental Protection and Pollution Control
Sligo Institute of Technology, 2008

BSc. (Hons) Applied Ecology,
University College Cork, 2003

Employment History

2020 – Present

Fehily Timoney & Company
Senior Environmental Specialist

2004 – 2020

Mott MacDonald Ireland Limited
Senior Environmental Specialist



Rita Mansfield

Subject Matter – Ecology



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

- **Wind Energy Development County Waterford / EMP**
Strategic Infrastructure Development application to An Bord Pleanála (including EIAR and NIS) for a 10-turbine array. Particular challenges include site topography and peat.
- **Feasibility Studies for Solar and Wind.**
Review feasibility studies for renewable energy developments. Advisory services on surveys required, methodologies in accordance with best practice and advise clients on risks.
- **Peat Extraction All-Ireland /Bord na Mona**
Project Lead for Appropriate Assessment (NIS) of peat extraction activities across ca. 75,000 hectares.
- **Celtic Interconnector PCI Project / EirGrid**
Principal Ecologist for the statutory consents which include foreshore application and Strategic Infrastructure Development application comprising ca. 575 km of submarine cable, underground HVDC / HVAC cable and converter station.
- **Rye Water Valley - Kellystown Project /Confidential Client**
Environmental assessment of options for the upgrade to the power supply to a manufacturing plant in Leixlip comprising new substation and underground cables connecting to an existing line. The site is within the Rye Water Valley SAC. Planning application to the Board under S.182A of the Planning and Development Act 2000 supported by Natura Impact Statement, EIA Screening report and Environmental Report.
- **Converter Station EcOW Services / Siemens**
Project Manager for the delivery of EcOW services for the Celtic Interconnector Converter Station project at Ballyadam, Cork.
- **Wind Energy Development County Galway / RWE**
Strategic Infrastructure Development application to An Bord Pleanála (including EIAR and NIS) for a 13-turbine array. Particular challenges include flood risk and karst geology.
- **Moneypoint – Oldstreet 400 kV Line Refurbishment /EirGrid**
Planning application for refurbishment works to the power line. The Moneypoint - Oldstreet overhead power line is approximately 102.5km in length and runs in a north-east direction from the Moneypoint substation in Kilrush, County Clare to the Oldstreet substation in Portumna, Co. Galway. An extensive Natura Impact Statement was required for this project.
- **Greenlink PCI – Peer Review EIAR & NIS**
Technical Peer Review services for the Greenlink Project of Common Interest. Greenlink is a subsea and underground electricity interconnector cable (with associated converter stations) linking the existing electricity grids in Ireland and Great Britain.
- **ESB Poolbeg Development – Bess and FlexGen**
EIAR and NIS to support four separate planning applications for the development of two flexible thermal generating systems and two battery energy storage systems within the Poolbeg Peninsula.
- **Huntstown Battery Energy Storage System /Viridian**
Senior Ecologist for the preliminary design, statutory planning approval and environmental assessments of BESS development within the Huntstown Power Station site.
- **Open-Cycle Gas Turbines and Utility Scale Battery Developments, 100MW at Kilkenny, Athlone and Cahir /Bord Gáis Energy/Centrica**
Senior Ecologist for the preliminary design, statutory planning approval and environmental assessments of various 100 MWe energy generation technologies (OCGT, gas engines and battery) at three sites across Ireland.
- **West Offaly and Lough Ree Power Plants /Bord na Móna**
Ecological Assessment of the harvesting and supply of peat fuel to West Offaly and Lough Ree Power Plants.
- **Wind Energy Development County Offaly / Bord na Móna**
Strategic Infrastructure Development application to An Bord Pleanála (including EIAR and NIS) for a 10-turbine array. Particular challenges include sensitive ornithology.
- **Open Cycle Gas Turbine Power Plant County Kilkenny / Greener Ideas Limited (GIL)**
Lead ecologist for the Environmental Impact Assessment (EIA), Appropriate Assessment, and planning application for the development of a 100MW OCGT power plant in County Kilkenny. This application was submitted to Kilkenny County Council on behalf of Greener Ideas Limited (GIL), a joint venture company comprising Bord Gáis Energy and Mountside Properties.
- **Cross Shannon Cable /EirGrid**
Senior Scientist for the planning and foreshore applications for this 400 kV submarine cable connecting Moneypoint and Tarbert substations.



Rita Mansfield

Subject Matter – Ecology



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

- **Upgrade of Woodland 400kV Substation / EirGrid**

Principal Ecologist (planning and environment) for Section 5 declaration application (planning) for proposed new bay at 400 kV substation.

- **Edenderry Power Plant, County Offaly / Bord na Móna**

Planning permission was sought for the continued use and operation of Edenderry Power Plant up to 2030. Assessment of the in-combination impacts of peat harvesting comprised a significant element of this project.

- **Renewable Exports Source (RES) Scheme – Strategic Environmental Overview:**

The Renewable Exports Source (RES) refers to the strategy for the delivery of large amounts of renewable (wind) generation from Ireland to the United Kingdom via sub-sea interconnector cables under the Irish Sea. SEO Objectives:

- Evaluate the potential impacts of developing wind energy transmission systems interconnecting to the UK on environmental resources and communities;
- Identify sensitive receptors;
- Identify areas of good potential for future development;
- Inform the future network designs and configuration.

Water Services

- **Gort Lowlands Flood Relief Scheme / Galway County Council**

Assessment and development of a flood relief scheme to manage the existing flood risk in Gort Lowlands, and also the potential for significant increases in this risk due to climate change, ongoing development and other pressures that may arise in the future. Project Manager for the environmental services for the feasibility stage of the scheme, which investigates the diversion of overland flood flows in to Kinvarra Bay in Galway. Project deliverables include Appropriate Assessment, Public Consultation, EIAR, Marine modelling, Public Exhibition.

- **Local Network Reinforcement Project / Irish Water**

Environmental lead responsible for environmental and planning reports for wastewater network infrastructure projects throughout Leinster, including site and route selection reports, technical notes, Natura Impact Statements, planning strategy reports and planning applications.

- **Enniscorthy Flood Defence Scheme /OPW**

The development of flood defence scheme to alleviate flooding in Enniscorthy Town. The scheme includes the removal of the Seamus Rafter Bridge, underpinning of the main Wexford to Dublin railway bridge over the River Slaney and the construction of a new road bridge which transverse the River Slaney SAC and approach road ties in to the key strategic routes in the south east on the N30 and N11.

- **Clonakilty Flood Relief Scheme, Ongoing.**

The scheme will protect to the town of Clonakilty from both river and tidal flooding, and includes the construction of a dam, modification to several bridges, 2km of riverbank improvement works, and four pumping stations. Environmental Manager involved in the preliminary design, planning process, detailed design, tender process, and contract administration. Currently overseeing Ecological Clerk of Works role on the construction stage.

- **South Western River Basin District Catchment Flood Risk Assessment and Management (CFRAM) Study / OPW.**

The objective of this study was to accurately map flood risk and to develop management strategies and measures to mitigate flood risk in the South Western RBD. Environmental Manager responsible for the assessment of flood risk in the South West of Ireland as it pertains to environmental impact, the assessment of flood risk management options through multi-criteria analysis (MCA), stakeholder consultation, Appropriate Assessment and Strategic Environmental Assessment.

- **Caraholly Flood study / Mayo County Council**

Preliminary design of a €1million flood relief scheme in Co. Mayo. Senior ecologist responsible for the Natura Impact Statement and environmental considerations report for the planning package to Mayo County Council. S

- **Inniscarra WTP Sludge Treatment / Irish Water**

Senior ecologist for the planning application for sludge treatment facilities.

- **River Basin Management Plan - South Western River Basin District.**

A four-year catchment management study leading to the publication of the River Basin Management Plan and the development of measures to achieve good water quality status in order to comply with the implementation of the Water Framework Directive (2000/60/EC). The purpose of this Directive is to establish a framework for the protection of all waters in order to prevent and reduce pollution, protect the aquatic environment, improve the status of aquatic ecosystems, and promote sustainable water use. Environmental Scientist responsible for the delivery of several national studies and the development of the River basin Management Plans. The project involved detailed data management which was supported through the use of geographic information systems (GIS).



Rita Mansfield

Subject Matter – Ecology



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

- **Millstreet WWTP Upgrade/ Irish Water**
Senior ecologist for the Appropriate Assessment (NIS) and Planning Application for the proposed upgrade works to the Millstreet WWTP. The WWTP discharges in to the Munster Blackwater SAC
- **South Westmeath and Lanesborough/Central Longford Water Supply Scheme / Irish Water**
Environmental Lead for the design and procurement of a new waste water treatment plant (WTP) and intake works, upgrade/expansion works to two WTPs, decommissioning of five WTPs and the provision of an extensive network of pipelines and linkages across a large area from Athlone to Mullingar and northwest to Lough Forbes. The upgrade works were being provided to a secure and adequate supply of drinking water in compliance with EU (Drinking Water) Regulations, 2014.
- **Waste Water Discharge Licencing Project, Irish Water**
Project Lead for work programme involving the preparation of reports assessing the impacts of the waste water discharge points from residential agglomerations on protected shellfish waters along the Irish coast.
- **Rossaveel Fishery Harbour / Department of the Marine**
Senior Ecologist for the Environmental Impact Assessment and planning application for the development of a 200m deep water quay in Rossaveel. The EIA assessed both marine and terrestrial environmental impacts across a range of sensitive parameters, i.e. biodiversity, archaeology, traffic, noise and vibration etc. This project is critical to ensuring that continued viable operation of one of Ireland's Fishery Harbour Centres. Planning was granted in 2018.
- **Greystones Harbour Development / Wicklow County Council**
Scientist for the environmental impact assessment. This development included coastal protection works and the development of a 400 berth marina in addition to a significant commercial and residential provision. Key concerns included populations of sand martin, sea kale and public amenity.
- **Waterford City Infiltration Remediation / Waterford City Council**
The infiltration study involved the assessment of the existing combined sewer collection system in Waterford City centre, and recommendations on its upgrade to reduce infiltration to acceptable levels. Employers Representative responsible for scoping, procurement and management of CCTV survey to identify defective sewer in the Waterpark Catchment. Prepared recommendation report for remediation measures, including a cost-benefit analysis to ensure value for money. Prepared contract documents using the Works Designed by the Contractor (CWMF) form of contract for the rehabilitation of the sewers which includes the procurement of specialists. Responsible for preliminary H&S Plan which encompassed significant traffic management issues as well as confined space entry requirements.
- **Effluent Characterisation Study /Environmental Protection Agency**
Project co-ordinator and lead scientist for this year-long study into the characteristics of wastewater discharges from municipal waste water treatment plants across Ireland. The output of the study was an estimation tool to assist WWTP operators in estimating the mass emissions released from their treatment plant. This information is required to be reported to the EPA under law (Pollution Release and Transfer Regulations).

Transport Services

- **Dunkettle Interchange Upgrade Scheme / John Sisk & Son Holdings Ltd**
Environmental Lead for the Detailed Design on the Design & Build contract 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 Burys 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 watercourse or intertidal area; pedestrian and cyclist facilities; and modification of existing Silversprings junction on the N8 Lower Glanmire Road.
- **Cork Southern Distributor Link Road / Cork City Council**
Gene is the Project Manager for the Southern Distributor Link Road, a proposed new road link between the N27 and Sarsfield Road with the potential to also link to the N71 and Cork Airport. Gene is responsible for delivery of the route selection process as per Phases 1-2 of the NTA's Guidelines for the Management of Public Transport Investment and Cost Management Guidelines and Phases 0-1 of DPER's Public Spending Code 2019.
- **Wexford Town to Rosslare Strand Greenway / Wexford County**
Environmental Coordinator for the development of a proposed greenway extending between Wexford Town and Rosslare Strand Train Station. The appointment covers PSDP, Route Selection, Preliminary Design, Environmental Assessment, including preparation of an EIAR and Statutory Consent Processes.
- **N11/N25 Oilgate to Rosslare Harbour / Wexford County Council**
This project involves the development of the N11/N25 national primary road between Oilgate and Rosslare Harbour Co. Wexford. The scheme is approximately 30km of motorway/dual carriageway with a major crossing of the River Slaney.



Rita Mansfield

Subject Matter – Ecology

Technical Lead responsible for the delivery of environmental services necessary to deliver Phases 1 to 4 of Transport Infrastructure Ireland's Project Management Guidelines (PE-PMG-02041) and Phases 1 to 4 of the National Roads Authority's Project Management Guidelines 2010 (NRA PMG 2010). The project is currently at Phase 1.

- **Western Rail Corridor Redevelopment, Ireland / Iarnród Éireann**

Feasibility study and business case assessment for reopening of the disused railway line between Athenry and Claremorris in the west of Ireland. Senior Ecologist, responsible for the qualitative assessment of the effects on biodiversity and the environment from the proposed reopening of the railway between Athenry and Claremorris. Assessment was carried out using GIS data and through consultation with national environmental protection agencies.

- **N25 New Ross Bypass PPP Scheme / TII**

Construction of approximately 14.8km of National Route, 13.6km of Dual Carriageway and 1.2km of Single Carriageway and associated works. It includes an Extradors bridge structure which consists of two 230m spans with an overall length in region of 900m. It also includes over 40 other structures comprising of 1 Railway Bridge, Underbridges, Overbridges, Underpasses, Culverts, Retaining Walls, Environmental Barriers, Sign Gantries, and VMS. Environmental Specialist, responsible for the certification of design and construction insofar as it pertains to environmental matters.

- **N71 Footpath / Cycleway: Glengarriff village to NPWS Nature Reserve /Cork County Council**

Feasibility assessment and assessment of design alternatives for the development of pedestrian and bicycle access between Glengarriff village and the nature reserve. The alignment passes through the Glengarriff Woods SAC and as such the assessment of alternatives in Appropriate Assessment is required.

- **Cork Bridge Rehabilitation, Cork, Ireland / Cork County Council.**

Repair of approximately 50 road bridges located around the Cork region. The list of structures included predominately masonry structures dating from the 13th to 19th centuries, including a number of protected structures. Environmental Team Leader, responsible for the preliminary ecological appraisal (PEA), screening for Appropriate Assessment, Natura Impact Statements, and Ecological Impact Assessment (EclA) including invasive species survey for proposed repair works to the bridges in County Cork. Devised and implemented mitigation (under licence from NPWS) for the exclusion, protection, and enhancement of several bat roosts at various bridges.

- **N18 Gort to Crusheen Dual Carriageway, Galway County Council**

Scientist for the environmental impact assessment for 22km road scheme in County Clare and Galway.

- **N22 Baile Bhuirne to Macroom Road Development (Ph 5-7) / Cork County Council**

The scheme is an approximately 22 km Type 2 Dual Carriageway, to be constructed offline. It will require construction through challenging terrain which varies through the scheme from hilly, remote land with rock outcrops at the western end, to low lying pasture lands to the east of Macroom. Significant ecological constraints on the scheme include Kerry Slug, Freshwater Pearl Mussel, and Lesser Horseshoe Bat. Responsibilities at this stage (Tender Assessment) in the scheme development include co-ordination of the ecology team, preparation of contract documents, provision of technical environmental advice, consultation with key stakeholders (e.g., NPWS), assessment of Tenders.

- **Limerick Depot Metropolitan Area / Limerick City & County Council.**

Design and development of a consolidated operations depot for the Metropolitan Area operations including Cleansing & Parks, Housing Maintenance, Road Maintenance, Burial Grounds, Water, Drainage, Surface Water Maintenance, Storage of Emergency Equipment and Salt Barns. The Depot will occupy a space between 4 – 6 acres. Senior Ecologist responsible for the management of environmental impact assessment of the proposed development.

- **Bergen Bybanen Light Rail System Phase 3 & Depot, Norway / Hordaland Fylkeskommune, 2016.**

Detailed design and construction of the Bergen light rail transport system in Norway. The project comprised 7.1km of double track from Rådal to Flesland airport, including 2.8km of tunnels and over 1km of structures and the development of a tramwash and workshop at a site in Flesland (approximately 20540m²). Environmental Specialist responsible for the construction management environmental specification, applications for discharges to waters for construction and operation of the scheme, constraints study for the workshop site and light rail line and environmental sustainability recommendations for the workshop.

- **N11 Arklow- Rathnew PPP Contract / BAM, 2013.**

Provision of 16.5km of high-quality dual carriageway between Arklow and Rathnew in Co. Wicklow, a motorway service station, and a grade-separation of the N7 Newlands Cross Junction in Dublin. Senior Ecologist, responsible for pre-construction environmental surveys and environmental and ecological design for:

1. Section A – dual carriageway approximately of 16.3km in length between the north end of the existing Arklow Bypass and the southern end of the existing Newtownmountkennedy to Ballynabarny road scheme.
2. Section C – new motorway services area on the existing M11 near Gorey, Co. Wexford.



Rita Mansfield

Subject Matter – Ecology



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

3. Section D – upgrade to the Newlands Cross junction (N7 Nass Road junction with the Belgard / Fonthill Road [R113]) to a grade separated junction.
- **East Coast Railway Line between MP19¼ and MP22½, County Wicklow / Iarnród Éireann, 2014.**

Appropriate assessment for emergency railway safety fencing works on the main railway line between Dublin City and Rosslare Harbour. This project required an assessment to identify and control ecological impacts on an area of land protected under the habitats directive candidate special area of conservation (cSAC) and the bird's directive special protection area (SPA). Of particular relevance to the project is the habitat 'perennial vegetation of stony banks. The railway line sits on top of a shingle beach which is known to support this vegetation type.

In addition, the shingle beach is an important nesting area for Little Tern (*Sternula Albifrons*). Significance of impact was assessed, and mitigation measures were prescribed.
 - **National Roads Authority Development of and Consolidation of (D&B) and (PPP) Works Requirements, 2010.**

Technical advice and support in preparing consolidated works requirements for use on contracts tendered using both the PPP and the D&B mechanisms. Responsible for the development of clauses to ensure protection of the environment at design and construction stages of road scheme development. This included run-off and sediment control, mitigation for specific protected species e.g., otter and bat, mitigation for water crossings, management of extracted material, measures to control noise and lighting impacts, landscaping measures, control of invasive species, control of noxious weeds, pre-construction, and post-construction survey requirements.

Other Services

- **Grid Implementation Plan 2023-2028 / EirGrid**

Project Manager for the Strategic Environmental Assessment and Appropriate Assessment of the Grid Implementation Plan 2023-2028 for the Electricity Transmission System in Ireland.
- **Local Authority Environmental Management System, Environmental Protection Agency**

Project Scientist for the development of a web-based environmental management system for local authorities in the tracking and managing of the implementation of their statutory environmental protection functions. This project involved extensive training of personnel from all local authorities in Ireland in environmental legislation and environmental enforcement prioritisation for compliance with the European Commission Recommendation on Minimum Criteria for Environmental Inspections.
- **Mid-Western Area Strategic Plan**

MWASP was a strategic land use and transportation plan for the Mid-West region with the objectives of ensuring sustainable and balanced growth in the region for the period 2010 – 2030. The requirement to undertake an Appropriate Assessment (also referred to as Habitats Directive Assessment) derives from Article 6 (3) and 6 (4) of the Habitats Directive (92/43/EEC). All Natura 2000 sites located within 15km of the MWASP boundary, including those within the boundary itself, were identified. The potential impacts of the plan policies and strategies were assessed, and mitigation prescribed, as necessary.
- **Irish Offshore Oil and Gas Strategic Environmental Assessment (IOSEA6)**

Technical Peer Reviewer for the SEA Scoping for the Department of the Environment, Climate and Communications (DECC) Plan for Issue of Petroleum Exploration and Production Authorisations in Irish Offshore Waters for the period to 2030 (currently in Draft). The SEA assess any potential impacts associated with activities conducted under petroleum exploration and production authorisations within Irish offshore waters.
- **AER / WWDL Technical Assistance (ongoing) Client / Irish Water**

Project manager responsible for the co-ordination and management of annual environmental returns (AER) returns from Local Authorities in the Southern Region of Ireland between 2014 to present. Prepared reports to satisfy licence conditions including shellfish water assessments, storm water overflow risk assessments and priority substances reports.
- **Guidance the Licensing of Discharges to Surface Waters and to Sewer / Water Services Training Group**

Manager for the development of guidance for local authorities on their functions and responsibilities under water pollution legislation. Developed supporting technical training and delivered training to in excess of 500 local authority staff through the Water Services Training Group's five regional training centres.



Alice Clarke

Senior Ecologist



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

Profile

Alice holds a Masters’ Degree in Ecological Management & Conservation Biology and a Bachelors of Biochemistry from Queens University Belfast. She is a well-rounded general Ecologist with over 6 years’ experience working in Ecological Consultancy roles. She has authored hundreds of AA Screenings & NIS reports, EclAs and Biodiversity Chapters for EIAR, across both NI & RoI, for a wide range of clients, including wind farms, quarries and greenways. Alice is very familiar with the process of ecological assessment and the relevant legislation. She also acts in an advisory capacity, reviewing AA Screenings, NIS reports, EclAs, and Biodiversity Chapters, providing feedback prior to submission. Alice is highly proficient in a range of survey techniques as per the relevant best practice guidance, both in NI & RoI, including bat surveys, mammal surveys (particularly badger and otter), bird surveys, habitat surveys & invasive species surveys. She holds or has held wildlife licenses in both NI & RoI issued by NIEA/NPWS, including for smooth newt torchlight/egg search surveys (NI only), badger sett closure, and bat derogation and disturbance licenses. Alice is currently a Senior Ecologist with Fehily Timoney and Company Ltd.

Key Skills

Alice has experience in the XX projects including:

- Report Writing and Reviewing
- Project Management
- Bat Surveys
- Mammal Surveys
- Bird Surveys
- Habitats, Invasive Species Surveys & Others
- Data Analysis/GIS

Previous Experience Essentials for this Project

- **Kilmore Quay Tourism Resort Complex (2025)**
Ecological survey work and preparation of AA, NIS, EclA and BMP for the construction and operation of a large scale resort on the Kilmore Quay coast in Co. Wexford (granted)
- **Oranmore Large-scale Residential Development (LRD) (2024/2025)**
Ecological survey work and preparation of AA, NIS, EclA and BMP for construction and operation of an LRD adjacent to Galway Bay, Co. Galway (granted).
- **EPA Biodiversity Management Plans (2024/2025)**
Ecological surveys of EPA Offices and their grounds and provision of advice relating to biodiversity enhancement measures to be applied at each of the offices, including preparation of bespoke Biodiversity Management Plans in accordance with the All-Ireland Pollinator Plan for each office and provision of advice relating to implementation (Co. Mayo, Co. Monaghan, Co. Cork, Co. Kilkenny) (complete).
- **Ulster Canal project (2022)**
Ecological survey works including supervision and leading of badger sett closures (under licence) to facilitate construction and development of the Ulster Canal in CO. Monaghan (complete).

Key Information

Qualifications

MSc Ecological Management & Conservation Biology
Queens University, Belfast, 2018

BSc (Hons) Biochemistry, Queens University, Belfast, 2016

Professional Memberships

Associate member of CIEEM (ACIEEM)
Newt Licences (RoI & NI)
Bat Licences (RoI & NI)
Badger Sett Closure Licenses (RoI & NI)

Employment History

2025 – Present

Fehily Timoney & Company
Senior Ecologist

2023 – 2025

DNV
Senior Ecologist

2021 – 2023

Woodrow Sustainable Solutions
Ecologist

2020 – 2021

INIS Environmental Consultants Ltd
Ecologist

2019 – 2019

Kane Ecology Ltd
Assistant Ecologist

2019 – 2019

Estación Biológica de Doñana
Research Assistant

2018 – 2018

Lough Neagh Partnership
Research Assistant



Alice Clarke

Senior Ecologist



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- **Craignagapple Windfarm (Owenreagh I & II Repowering) (2023)**
Ecological survey work and preparation of a Biodiversity Chapter for EIAR for the decommissioning, repowering and construction of old and new turbines at Craignagapple Windfarm in Co. Derry (ongoing).
- **NISA Offshore Wind (2021/2022)**
Ecological survey work of the proposed onshore grid routes and turbine delivery routes to facilitate the construction of an offshore windfarm in Co. Dublin (ongoing).
- **Quarryplan Quarries (2021-2022)**
Quarry projects ranging from inactive quarries requiring permission to recommence quarrying, proposed extensions of existing quarries, and substitute consent applications for historical quarries. Preparation of AAs, HRAs, NIS, EclAs and Biodiversity Chapters for EIAR, as appropriate, and provision of advice relating to restoration of quarries after cessation of works, in both NI and Ireland (ongoing).
- **Irish Lights Commission project (2021/2022)**
Preparation of and provision of feedback on 30+ AA Screenings and 5 NIS for the facilitation of ongoing maintenance and restoration works at lighthouses, beacons and buoys located throughout the coastal and marine areas around Ireland (complete).
- **Coillte AA Screenings (2020/2021)**
Preparation of and provision of feedback on 50+ AAs for Coillte to facilitate felling of blocks of commercial forestry across Ireland (complete).



Ida Wulff

Graduate Planner



DESIGNING AND DELIVERING
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Profile

Ida holds a Masters in Planning and Sustainable Development in University College Cork. She is a Graduate Planner with Fehily Timoney in the Energy and Planning sector. Ida has a keen interest in all areas of planning, renewable energy, and sustainable development.

Ida specializes in preparing EIAR Chapters for wind farms and associated developments to industry standards.

Ida has experience in preparing planning applications for active travel paths and greenways as well as remedial works within urban/rural settings.

She is currently a Graduate Member of the Irish Planning Institute and a Licentiate Member of the Royal Town Planning Institute.

Key Skills

Ida's key skills include:

- Planning Knowledge
- Report Writing
- Presentation
- GIS
- Community Consultation

Previous Experience Essentials for this Project

- **Littleton Wind Farm, 2026**
Prepared EIAR Chapters in line with industry standards.
- **Littleton Peat Extraction Substitute Consent, 2026**
Prepared rEIAR Chapters in line with industry standards.
- **Cloonkett Wind Farm, 2025**
Prepared EIAR Chapters in line with industry standards.
- **Coom Green Energy Park Grid Connection, 2026**
Prepared EIAR Chapters in line with industry standards.
- **Cliff Protection at Dunmore East, 2025**
Prepared planning documents related to remedial works and amenity area in ecologically sensitive area.

Key Information

Qualifications

MPlan Planning and Sustainable Development
University College Cork
September 2023 - June 2025

BSc International Development and Food Policy
University College Cork
September 2017 - May 2021

Professional Memberships

Royal Town Planning Institute
Licentiate Member

Irish Planning Institute
Graduate Member

Employment History

2025 – Present

Fehily Timoney & Company
Graduate Planner

2024 – 2025

Fehily Timoney & Company
Planning Intern



Philip McDowell

Project Engineer



DESIGNING AND DELIVERING
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Profile

Philip holds a Masters of Civil, Structural and Environmental Engineering and a Bachelors of Civil, Structural and Environmental Engineering from Trinity College Dublin. He is a passionate person who is focused on doing impactful work. He has two years' experience as a Civil Engineer with exposure to Structural Engineering at an Engineering Consultancy. He cares deeply for the environment, focusing on mitigating and where possible restoring damage done to the natural world. Philip is a Project Engineer at Fehily Timoney and Company.

Key Skills

- Causeway Flow
- AutoCAD
- QGIS
- HEC-RAS
- Tekla
- MasterSeries

Previous Experience

- **Dalymount Park Redevelopment, €64 million, 2025**
Civil engineer for planning design of full stadium redevelopment including demolition of existing stadium, enabling works on contaminated land, drainage and roads design.
- **Repair and Refurbishment of Markievicz Bridge, Sligo, 2025**
Engineering and planning services on the repair and refurbishment of the historic Markievicz Bridge. Works included design of instream works, repairs to historic masonry structure, works within a Special Area of Conservation and temporary traffic management.
- **Gulistan Depot Lands Masterplan, 2025**
Civil engineer for planning design of masterplan redevelopment of existing depot lands into 141 no. residential units and public realm. Works including roads and drainage design.
- **Residential Development at Lehaunstown, Cherrywood, 2024**
Civil engineer for planning design of 109 no. unit residential development. Works including roads and drainage design.

Key Information

Qualifications

Masters of Civil, Structural and Environmental Engineering, Trinity College Dublin, 2022

Bachelors of Civil, Structural and Environmental Engineering, Trinity College Dublin, 2021

Employment History

2025 – Present

Fehily Timoney & Company
Project Engineer

2023 – 2025

PUNCH Consulting Engineers
Graduate Engineer

2021 – 2021

Nicholas O'Dwyer Ltd
Engineering Intern



Pamela Shiel

Graduate Engineer



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Profile

Forename holds a Bachelor's degree in and a Master's degree in Civil, Structural and Environmental Engineering from Trinity College Dublin. She is currently a Graduate Engineer with Fehily Timoney and Company.

Key Skills

Pamelas core competencies and key skills include:

- Organisation
- Leadership capability
- Teamwork
- Time management
- Management
- Design skills
- Microsoft Office
- Creative thinking

Previous Experience Essentials for this Project

- **Integrated Environmental Solutions (IES)**
Pamela was working on 3D models of structures and large-scale areas, using IES vs Energy modelling. She was involved with pre-sales and delivering/writing reports.
- **John Paul Construction**
Pamela gained knowledge of site regulations and safety. She was involved in preparing site quality reports and was responsible for the supervision and training of new employees.
- **Electricity Supply Board (ESB)**
Pamela was involved in Transmission (OHL) design. This extended her mathematical problem solving. She was also involved with tower design and testing.
- **Lyra Wind Farm, €858,580.75, 2026**
Supported the preparation of EIAR chapters. Responsibilities included compiling baseline environmental data, preparing GIS figures, contributing to draft sections and ensuring alignment with EIA Directive requirements.
- **Littleton Wind Farm EIAR and Planning Services, €532,054.00, 2026**
Supported the preparation of EIAR chapters. Responsibilities included compiling baseline environmental data, preparing GIS figures, contributing to draft sections and ensuring alignment with EIA Directive requirements.

Key Information

Qualifications

BA, BAI, MAI Civil, Structural and Environmental Engineering, Trinity College Dublin, 2025

Employment History

2026 – Present

Fehily Timoney & Company
Graduate Engineer

2024 – 2024

Electricity Supply Board (ESB)
Overhead Line Design Engineering
Intern

2023 – 2023

John Paul Construction
Placement Engineer

2021 – 2022

Integrated Environmental Solutions
(IES)
Sustainable Engineering Intern



Aoife Hurd

Senior Project Engineer



DESIGNING AND DELIVERING
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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.
- **Drummalough, Lettermore and Srananagh Long Duration Energy Storage, Ongoing.**
Feasibility studies were carried out for two potential long duration energy storage sites at Drummalough 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



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- **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.



Cathal Creedon

Graduate Planner



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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 organized, 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

Coom Green Energy Park

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.

Fahy Beg Wind Farm

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.

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. 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. The application was successfully submitted to the local authority in early 2021.

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



Aaron T. Clarke

Chartered Principal Geologist



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Profile

Aaron is a Chartered Principal Geologist and a Member of the European Federation of Geologists, with over 21 years of experience providing specialist geoscientific input to multidisciplinary projects across Ireland and the UK. With more than a decade dedicated to ground engineering, he has developed particular expertise in supporting renewable energy developments alongside peat stability assessments and peatland restoration.

Aaron has been instrumental in the delivery of several high-profile infrastructure and environmental projects, including Cloonkett Wind Farm in Co. Clare and the Derryclare Peatland Restoration Project in Co. Galway. He has led numerous peat stability risk assessments, ground condition evaluations, and contributed to the preparation of robust Environmental Impact Assessment Reports (EIARs), particularly for upland and peat-sensitive sites.

His technical background is complemented by strong project and team management capabilities, gained through experience on both the consultancy and contractor sides. He has worked within the ground investigation sector and has supervised major earthworks operations as Designer's Site Representative on national road schemes, such as the Dunkettle Interchange, M7 upgrade and M11 extension.

Key Skills

- Project Management
- Rock Mass Assessment
- Peat and slope stability assessments
- Geotechnical assessment
- Geological and geomorphological mapping Earthwork supervision
- Ground Model and Conceptual Site Model development
- Desk studies & site surveys
- Scoping & management of ground investigations
- Environmental Impact Assessment Reports

Publications

- Clarke A, Parkes M, Gatley S, (2007) The Geological Heritage of Fingal, Geological Survey of Ireland Publications
- Clarke A, Parkes M, Gatley S, (2007) The Geological Heritage of Meath, Geological Survey of Ireland Publications
- Clarke A, Parkes M, Gatley S, (2007) The Geological Heritage of Kilkenny, Geological Survey of Ireland Publications
- Parkes M, Clarke A, (2005) The Geological Heritage of Kildare, Geological Survey of Ireland Publications

Key Information

Qualifications

MSc. Applied Geotechnics
Camborne School of Mines, UK (2012)

BSc. (Hons) Earth Sciences,
NUI Galway (2004)

Professional Memberships

PGeo – Institute of Geologists of
Ireland

EurGeol – European Federation
of Geologists

Employment History

2022 – Present

Fehily Timoney & Company
Principal Geologist

Jan 2018 – Jan 2022

AECOM Ireland
Senior Engineering Geologist

2016 - 2018

ARUP Ireland
Assistant to the Designers' Site
Representative

2015 – 2016

Geo Consulting Engineering Ltd.
Senior Engineering Geologist

2012 – 2015

EM Highway Services Ltd.
Engineering Geologist

2008 – 2011

Teck Resources
Lead Geologist

2007 – 2008

GHD Group Pty Ltd
Site Engineer

2004 – 2007

Geological Survey Ireland
Consultant Geologist



Aaron T. Clarke

Chartered Principal Geologist



DESIGNING AND DELIVERING
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Previous Experience

- **Cloonkett Wind Farm, Co. Clare, Value: €500K, Ongoing.**
Project Manager/Geotechnical Lead. Fehily Timoney and Company (FT) were engaged by Greensource to undertake an EIAR for the proposed Windfarm at Cloonkett, Co. Clare. As Project Manager, Aaron is responsible for the delivery of all site surveys and assessments, and final EIAR chapters. He is also responsible for the management of FT's multidisciplinary teams throughout the life cycle of this project. As Geotechnical Lead, Aaron undertook a desk study and site walkover to identify salient features to include relict failures, rock exposures, wet ground, general soil/rock types and geomorphology: and scoped, procured and managed a preliminary ground investigation to identify potential geotechnical constraints likely to affect the development.
- **Shanclon Windfarm, Co. Clare, 2025**
Principal Geologist. FT were engaged by RWE to undertake an EIAR for the proposed Windfarm at Shanclon. As part of the submission, Aaron was responsible for undertaking a Karst Assessment Report and the Soils, Geology and Hydrogeology Chapter of the EIAR. As part of the works, Aaron undertook a desk study and site walkover to identify salient features to include relict failures, rock exposures, wet ground, general soil/rock types and geomorphology: and managed a preliminary ground investigation to identify potential geotechnical constraints likely to affect the development.
- **Counmagappul Wind Farm, Co. Waterford, 2024.**
Principal Geologist. FT were engaged by EmPower to undertake an EIAR for the proposed Windfarm at Counmagappul. As part of the submission, Aaron was responsible for undertaking a Geotechnical Assessment Report, Spoil Management Plan and completion of the Soils, Geology and Hydrogeology Chapter of the EIAR. As part of the works, Aaron undertook a desk study and site walkover to identify salient features to include relict failures, rock exposures, wet ground, general soil/rock types and geomorphology: and scoped, procured and managed a preliminary ground investigation to identify potential geotechnical constraints likely to affect the development.
- **Derryclare Peatland Rehabilitation Project, Co. Galway, 2023.**
Lead Principal Geologist. FT were engaged by McCarthy Keville O'Sullivan (MKO) to undertake a geotechnical assessment of the proposed peatland rehabilitation site at Derryclare with respect to peat stability. As part of the geotechnical assessment of the proposed development, Aaron completed a series of walkover surveys, to identify salient features with respect to geotechnics such as geomorphological features, relict failures, rock exposures, wet ground, general soil/rock types and extent of any peat present. Based on the walkover findings, Aaron produced a Geotechnical & Peat Stability Report including recommendations on layout and mitigation measures in respect of peat storage and safe construction practices on site.
- **Keerglen Wind Farm, Co. Mayo, 2024.**
Principal Geologist. FT were engaged by ABO Wind to undertake a Peat Stability Assessment and Spoil Management Plan (to include an assessment on borrow pit viability and sizing). As part of the assessment Aaron undertook a desk study and site walkover to identify salient features to include relict failures, rock exposures, wet ground, general soil/rock types and geomorphology. Work on this project is ongoing and will involve a preliminary ground investigation to inform the planning application.
- **Dunmore East Cliff Protection, Co. Waterford, €300K, Ongoing.**
Project Manager/Principal Geologist. FT were engaged by the Department of Agriculture, Food and the Marine (DAFM) to provide consultancy services for the remediation of an approx. 100m length of unstable cliff section at Dunmore East Fishery Harbour Centre, Co. Waterford. As Project Manager, Aaron is responsible for successful delivery of all five stages of this project to include: Preliminary Design; Detailed Design; Tender Action, Evaluation and Award; Construction Supervision; and Project Handover. He is also responsible for the management of FT's multidisciplinary teams and all associated surveys and assessments. As Principal Geologist, Aaron is responsible for undertaking a robust geotechnical assessment of the exposed rock faces to include recording rock discontinuity data, assessment of groundwater flow, interpretation of ground investigation and photogrammetry data, and determination of potential rock failure mechanisms. He is also responsible for slope analysis using stereographic projection and finite element software methods to determine the most appropriate remediation design
- **Quarry Assessment, Co. Mayo, 2024**
Principal Geologist. FT were engaged by a Confidential Client to undertake an assessment of the western and northern faces of a quarry in County Mayo and report on potential stability issues likely to affect the adjacent lands owned by the Client. As part of this project, Aaron undertook a geotechnical assessment of the exposed rock faces, to include the recording of structural measurements of discontinuities.



Aaron T. Clarke

Chartered Principal Geologist



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Using these data, coupled with field observations and site photographs, Aaron produced a Stability Assessment Report. As part of the reporting, kinematic analyses of the rock faces were undertaken using stereographic projection methods to determine the risk of rock failure.

- **Dunkettle Interchange, Capital Value €215M, 2023.**

Designers Site Representative 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 Bury's Bridge in Dunkettle; one grade separated junction arrangement at the existing N25 to the east of the existing Dunkettle Interchange; four roundabouts – 2 at the grade separated junction and 2 at tie ins with the existing road network; 51 no. 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. Aaron was responsible for inspection and approval of all elements of the earthworks to include material assessment and inspections of pavement subgrade and the formation to structures. Aaron's experience with large earthworks operations was invaluable in the day-to-day operations of this project. It enabled him to advise the Contractor (SISK) as to material acceptability and placement requirements. His efforts during inspections ensured that the highest quality of work was completed and also reduced liabilities associated with poor construction practices.

- **SCPX Erosion Report, South Caucasus Pipeline Company, Azerbaijan, Capital Value <€10K, 2021.**

Lead Engineering Geologist/Technical Lead. Following construction of the South Caucasus Pipeline in Azerbaijan, an annual programme of erosion control monitoring surveys was completed. AECOM were commissioned to report the findings of these surveys, which were undertaken by a third party appointed by the Client. The objective of the reports was to summarise the findings of the erosion control monitoring survey and to analyse the findings in the context of the local ground conditions and recommend remedial actions to rectify significant erosion observed and/or to prevent deterioration of erosion control measures that are in place. Aaron was responsible for reporting on the second round of erosion control monitoring. This required a detailed understanding of soil erosion processes and appropriate control measures. Aaron recognised the limitations associated with reviewing and analysing third party data and made a number of key recommendations to improve the data transfer process thereby reducing overall risk to both the Client and AECOM.

- **M7 Upgrade/R407 Sallins Bypass Scheme, Kildare County Council & TII, Co. Kildare, Ireland, Capital Value €100M, 2019.**

Designers Site Representative Online upgrade of 16km of the M7 between J8 and J11, and construction of the Sallins Bypass (R407) and Sallins Link Road. Works also included extensive earthworks, five new bridges and new/updated drainage networks. Aaron was responsible for inspection and approval of all elements of the earthworks to include material assessment and inspections of pavement subgrade and the formation to structures. Aaron's experience with large earthworks operations was invaluable in the day-to-day operations of this project. It enabled him to advise the Contractor (SIAC/Colas JV) as to material acceptability and placement requirements. His efforts during inspections ensured that the highest quality of work was completed and also reduced liabilities associated with poor construction practices. His in-depth knowledge of the site's geology allowed for quick and decisive assessment of ground conditions; this was particularly evident during piling operations where over drilling was kept to a minimum thereby reducing overall piling costs.

- **M11 Extension Scheme, Wexford Co. Co. & TII, Co. Wexford, Ireland, Capital Value €350M, 2018.**

Designers Site Representative. The project involved construction of 27km of new motorway (M11), 11km of new single carriageway (N30) and 4km of new dual carriageway (N80). Works also included mass earthworks (cut/fil) operations, construction of multiple structures (including the River Slaney Underbridge) and an extensive new drainage network. Aaron was responsible for inspection and approval of all elements of the earthworks to include material assessment and subgrade inspections to structures. Aaron's experience with large earthworks operations was invaluable in the day-to-day operations of this project. It enabled him to advise the Contractor (BAM/Dragados JV) as to material acceptability and placement requirements. His efforts during inspections always ensured that the highest quality of work was completed and also reduced liabilities associated with poor construction practices. Aaron's background in rock mechanics and knowledge of the site's sometimes complex geology perfectly positioned him to undertake rock mass inspections at proposed structure locations and to supervise piling operations at the locations of two of the largest underbridges on site. This removed the requirement to bring in external technical personnel saving time and reducing overall budget costs.



Ian Higgins

Technical Director (Geotechnical)



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Profile

Ian is a geotechnical engineer with over 25 years' experience in the design and supervision of construction of bulk earthworks, geotechnical foundation design, geotechnical monitoring and reviewing, reinforced earth design and 3rd party checking of piling and ground improvement designs. Ian's experience also includes the design, supervision and interpretation of ground investigations, including desk studies, walkover surveys, hazard mapping of rock excavations and slopes.

Ian has experience in many areas of civil engineering including highways, railways, energy projects and commercial developments. Ian's responsibilities include managing junior engineers, reviewing work carried out for ground investigation, reporting and design. Ian has also experience in using a number of geotechnical software packages including slope stability, finite element, pile design and retaining wall design.

Key Skills

- Earthworks Design
- Geotechnical Foundation Design
- Ground Investigation Scoping and Procurement
- Peat Stability Assessments for Wind Farms

Previous Experience Essentials for This Project

- **Ian has been Project Manager and Technical Lead for Peat Stability Assessments of the following non-exhaustive list of sites. Ian's role on these projects varied but generally included undertaking Peat Stability Assessment and Peat & Spoil Management Plan for EIAR submissions. Site walkover, fieldwork including peat probing, peat sampling, geotechnical observations, coordination with ecological and hydrological discipline leads, 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.**

- | | |
|--|--|
| <ul style="list-style-type: none"> • Slievacurry Wind Farm • Derrysallagh Wind Farm • Coole Wind Farm • Carrigareirk Wind Farm • Knockshanvo Wind Farm • Sheskin Wind Farm Grid Connection • Bracklyn Wind Farm • Ardderroo Wind Farm • Sheskin Wind Farm • Glenora Wind Farm • Knockacummer Grid Connection • Dungloe Wind Farm | <ul style="list-style-type: none"> • Cahermurphy Wind Farm Extension • Derrykillev Community Wind Farm • Ballyhorgan Wind Farm • Derrinlough Wind Farm • Croagh Wind Farm Grid Connection • White Hill Wind Farm • Ballynalacken Wind Farm • Ballincollig Hill Wind Farm • Clogheravaddy Wind Farm • Ballivor Wind Farm • Monvallet Wind Farm |
|--|--|

Key Information

Qualifications

BSc. Engineering Geology,
University of Sunderland, 1996

MSc. Geotechnical Engineering,
Heriot Watt University, Edinburgh,
1997

Professional Memberships

Member of the Institute of Engineers
of Ireland

Fellow of the Geological Society of
London (FGS)

Employment History

2019- Present

Fehily Timoney & Company, Carlow

2013 – 2019

Applied Ground Engineering
Consultants Ltd. (AGEC)

2012 – 2013

AGEC Australia

2001 – 2012

Applied Ground Engineering
Consultants Ltd. (AGEC)

1998 – 2001

Geotechnics Ireland Ltd.



Ian Higgins

Technical Director (Geotechnical)



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- **N21 Adare Bypass**
Geotechnical design category 3 checker for motorway project in the southwest of Ireland, covering earthworks
- **A5WTC (Section 2, Strabane to Omagh)**
Geotechnical design of earthworks for a proposed dual carriageway D&B Contract. Slope stability assessments, material reusability, subgrade stiffness assessment and soft ground treatments.
- **M28 Cork to Ringaskiddy**
Provide geotechnical input into D&B tender for Contractor. Review ground investigation data, undertake design assessment including slope stability, material reusability, subgrade stiffness, rock stabilisation measures and karst risk assessment.
- **Dunkettle Interchange**
Part of Earthworks Design team for detailed design of Interchange Upgrade. Produced Design Reports covering the design of ground improvement for soft ground and slope stability assessments.
- **Ballivor, Sheskin South and Glenora Wind Farms**
Undertake 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.
- **N19 Shannon Airport Access Road**
Undertake 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.
- **Croaghaun Wind Farm, Annagh Wind Farm, Coom Green Energy Development**
Production of EIAR Soils & Geology Chapter for several wind farms.
- **Derrinlough Wind Farm, Croagh Wind Farm, Cahermurphy Wind Farm,**
Undertake Peat Stability Assessment and Peat & Spoil Management Plan for EIAR submissions. Site walkover, collation of data, stability assessment, assessment of peat and spoil volumes.
- **Almaty-Korgos Highway, Kazakhstan (ICC)**
Assessment the quantities of all temporary and permanent works executed by the Claimant relating to East-West Roads Project (Almaty-Korgos), part of the Western Europe-Western China International Transit Corridor.
- **A6 Dungiven to Drumahoe**
Part of Earthworks Design team for tender design submission. Assessment of ground investigation information for earthworks reusability and slope stability assessments.
- **Oweninny Wind Farm, Mayo**
Geotechnical design of access roads and turbine bases for Phase 1 of wind farm development (29 turbines)
- **Aberdeen Western Peripheral Route, Aberdeenshire, Scotland**
Part of Client's Representative Team, monitoring and checking of earthworks including material selection and testing. Liaison with contractors and preparing daily and weekly reports on work programme and health and safety issues.
- **M17/M18 Gort to Tuam PPP Project**
Geotechnical design category 3 checker for motorway project in the west of Ireland, covering earthworks and foundations for structures.
- **Kilgallioch Wind Farm, Scotland**
Geotechnical design of substation platform, access roads and turbine bases for 96 turbine wind farm.
- **Dersalloch Wind Farm, Scotland**
Geotechnical design of access roads and turbine bases for 23 turbine wind farm.
- **Dublin Waste to Energy Incinerator Project**
Geotechnical assessment of ground conditions, procurement of ground investigation, design of piled foundations, design load transfer platform and reinforced earth structures.
- **Black Law Wind Farm Extension, Scotland**
Geotechnical design of access roads and turbine bases for 23 turbine extension to an existing wind farm including site inspections and sign off during construction.
- **Diyar Al Muharraq Project, Bahrain**
Assessment of the ground conditions and site investigation data for a deep sewer line particularly regarding the environmental impact on the aquifer.
- **M11 Gorey to Enniscorthy Tender Design Check**



Ian Higgins

Technical Director (Geotechnical)



DESIGNING AND DELIVERING
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Geotechnical design check for motorway tender design submission.

- **A31 Magherafelt Bypass**

Geotechnical designer for earthworks and foundations for tender design of a 5.8km bypass.

- **A26 Dualling Glarryford to Drones Road**

Geotechnical checker for tender design submission

AGEC Australia Ltd. – Principal Geotechnical Engineer

- **Utah Point Stockyard 2, Port Hedland**

Project manager for the civil, structural and geotechnical design of the Stockyard 2 development at Utah Point. AGEC undertook the ground investigation design and supervision, earthworks design for the new iron ore stockyard construction with stockpiles up to 17m high and foundations design for the associated stackers, reclaimer and conveyors. AGEC also acted as site representatives during construction.

- **Esperance Port Access Corridor**

Geotechnical designer for the temporary works design for excavation support as part of the Esperance Port Access Corridor (EPAC) project, located in Esperance, Western Australia. AGEC undertook temporary works design for the access road upgrading and railway line realignment.

- **Adelaide Terrace Hotel, Perth**

Geotechnical engineer for a proposed new hotel in a Perth CBD restricted site. AGEC undertook the ground investigation design and supervision, soil parameters assessment and geotechnical design for the foundations for a 15 storey hotel with an underground car park 3 basement deep.

- **Mitchell Freeway Widening, Perth**

Geotechnical project manager for the temporary works design for retaining structures.

Applied Ground Engineering Consultants Ltd. (AGEC) – Senior Engineering Geologist

- **Corrib Gas Onshore Pipeline, Co. Mayo, Ireland**

Geotechnical advisor on construction aspects of onshore pipeline. Duties include monitoring and reporting on ground conditions during construction including weekly reporting with analyses and interpretation of data from telemetric and in-situ instrumentation. Construction compliance verification with respect to specification for earthworks materials and earthworks assessment. Liaison with contractor on geotechnical design issues.

- **N17/N18 Gort to Tuam High Quality Dual Carriageway**

Part of Geotechnical Team for Tender Design for approximately 27km of high quality dual carriageway. Assessing ground investigation data for preliminary earthworks design and outline structural foundation design.

- **Flughland Wind Farm**

Review and check of contractors proposed pile design and site supervision of the installation of bored piles for a windfarm development in County Donegal.

- **Slievecallan Wind Farm**

Site inspection of proposed wind farm including an assessment of peat stability. Geotechnical assessment of site by walkover inspection and report on Peat Stability at turbine locations and associated infrastructure.

- **A4/A5 NI DBFO Scheme 3 Realignment, Northern Ireland**

Senior Geotechnical Designer, value engineering, compiling earthwork design reports which included; cutting and embankment design – stability analysis of slopes, assessing settlement, pavement foundation design, assessing acceptability of material for re-usability, design for special measures such as soft ground issues, slope drainage and pile design for a pile supported embankment. Other duties included attending and corresponding with other disciplines, liaising with site staff and giving advice on earthworks.

- **Clonsilla to Dunboyne Railway Scheme**

Supervision of Site Investigation and Preparation of Interpretative Report for Railway Scheme. Includes the interpretation of ground conditions and design recommendations for all earthworks along the rail route, proposed bridge/culvert foundations, proposed and existing stations and proposed new roads.

- **Supervision of Site Investigations in Bailieborough, Cahir and Athlone**

For retail developments. Project manager, responsible for design and supervision of site investigations, interpretation of factual data and writing of interpretative reports for a series of retail developments on brownfield sites in Ireland.

- **Limerick Southern Relief Road**

Geotechnical checker for highway earthworks on scheme involving construction of stage constructed and monitored embankments over soft estuarine deposits.

- **N7 Nenagh to Limerick High Quality Dual Carriageway**



Ian Higgins

Technical Director (Geotechnical)



DESIGNING AND DELIVERING
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Part of Geotechnical Team for Tender Design for approximately 27km of high quality dual carriageway. Assessing ground investigation data for preliminary earthwork and outline structural foundation design.

- **M4/M6 Kinnegad-Enfield-Kilcock Motorway**
Geotechnical Designer's Site Representative for construction works. Responsible for ensuring the earthworks design was constructed in accordance with the design reports and the relevant specifications. Inspections carried out for all aspects of the earthworks, from removal of soft ground to sub formation and formation inspections for capping. Involved liaising with both the Design Manager for earthworks as well as the designer's site representative for structures, drainage and pavement design.
- **N4/M6 Kinnegad-Enfield-Kilcock Motorway**
Part of geotechnical design team for earthworks and structure foundation.
- **N25 Waterford Bypass**
Resident Engineer for the supervision of the Supplementary Ground Investigation for MMEPO/Tramore House (NRA).
- **R292 Sligo to Strandhill**
Slope stability assessment of sidelong ground embankment to be constructed on glacial till with restricted land access and weak subgrade.
- **N4/N6 Kilcock to Kinnegad Motorway**
Assessment of potential borrow areas for road construction material. Requirement to identify about 1M cubic metres of suitable and selected fill. Included walk-over survey, ground investigation and reporting of findings to tendering consortium.
- **St. Fintan's High School, Sutton**
Supervision of the remediation of ground subsidence due to underground tunnel works. Site representative for the school on remediation work, which included trenching, compaction by vibratory probe, placement of geotextile, compaction and reinstatement of ground. Report produced on findings.
- **M1 Northern Motorway, Gormanstown to Monasterboice**
Logging of rock faces in cuttings and determination of rock quality from borehole logs, laboratory results and field observations.

Geotechnics Ireland Ltd. – Engineering Geologist

- **Dundrum Town Centre Development**
Site representative during enablement works for town centre development in Dundrum. Involved hazard mapping of rock faces of up to 14m in height, monitoring of on-site blasting by contractor, monitoring of groundwater table fluctuations as excavation progressed, recording ground conditions in both soil and rock during excavation, and monitoring rock and soil slope stability.
- **Supervision of Site Investigations in Cookstown, Larne and Ballymoney for retail developments**
Project manager, responsible for design and supervision of site investigations, interpretation of factual data and writing of interpretative reports for a series of retail developments on brownfield sites in Northern Ireland.
- **M1 Dundalk Western Bypass**
Checking and processing of factual data for geotechnical interpretative report. Carried out desk study and walkover survey of route of proposed bypass. Checking of digital data (AGS) supplied by contractor.
- **M1 Dunleer-Dundalk Bypass Contract No. 3**
Logging of rock faces in cuttings and determination of rock strength and excavatability from borehole logs, laboratory results and field observations.
- **Xerox Production Facility, Dundalk**
Supervision and direction of site investigation including logging of trial pits, shell & auger and rotary core boreholes and dynamic probing for a major industrial development on the edge of Dundalk.
- **N25 Kilmacthomas Realignment**
Detailed logging of trial trenches excavated in rock alone route of major cutting. Assessment of rock strength and excavatability from field observations.

MICHAEL GILL PGeo

B.A., B.A.I., M.Sc., Dip. Geol, MIEI, MCIWEM
Civil Engineer/Hydrogeologist

22 Lower Main Street,
Dungarvan,
Co. Waterford.
Office: 058-44122 Mobile: 086-267 5989
michael@hydroenvironmental.ie

Michael is a Civil Engineer and Hydrologist/Hydrogeologist with 25 years' of environmental and hydrology consultancy experience. Hydro-Engineering expertise includes:

- Renewable energy projects – EIAR / peatland drainage and hydrology (100+ Ireland, 20+ N. Ireland), including construction phase drainage audits and substation and grid route assessments;
- Environmental impact assessment reports for numerous projects including roads, landfills, quarries, gas pipelines, and national transport/water infrastructure;
- Specialising in geology and hydrogeology EIAR assessments and discharge licence applications, and associated surface water and groundwater quality assessments;
- Hydrology, karst hydrogeology and Flood Risk Assessments (100+ FRAs);
- Wetland characterisation and impact assessments for Natura 2000 sites, including restoration options;
- Design and supervision of site investigation works, including trial pits, drilling works, geophysics, surface water and groundwater sampling, and scheduling laboratory analyses (soils and water);
- River water quality sampling and assimilative capacity assessments;
- Environmental assessments of numerous policies and plans including LAPs (Local Area Plans and SEAs);
- Design and assessment of drainage management systems, incorporating SuDS drainage features, water quality mitigation measures and flood attenuations and flood management systems for construction sites, including specific mitigation for protection of water quality in sensitive receiving waters;
- Undertaking of construction phase (monthly, quarterly, depending on project type and scale and sensitivity of receiving waters) drainage audits to assess mitigation success and overall water quality protection, and also if required recommending specific improvements needed;
- Local Authority licensing of treated wastewater discharges to groundwater and surface water;
- Water well drilling and site investigation procurement and supervision;
- Water resource assessment and development for public and private schemes;
- Source Protection Zone mapping for groundwater supplies (40+);
- Down hole well camera surveying and reporting;
- Management, supervision and analysis of pumping tests;
- Hydrological and hydrogeological monitoring and modelling;
- Site characterisation reports and wastewater and environmental engineering;
- Subsoil hydrology, assessment of groundwater vulnerability and nutrient impact accounting;
- Providing expert hydro-engineering evidence at oral hearings, legal cases, and arbitrations; and,
- Health and Safety roles including PSDP and PSCS.

Michael holds an honours degree in Civil and Environmental Engineering from Trinity College Dublin, as well as a research M.Sc. in Wetland Hydrology also from TCD. Michael also holds a diploma in Geology from University College Cork and a second M.Sc. in Applied Hydrogeology, from Newcastle University. Michael is a member of the International Association of Hydrogeologists (IAH) and was a member of the conference sub-committee from 2003 until 2009. He is also a Member of Engineers Ireland (MIEI), a Member of the Chartered Institute of Water and Environmental Management (CIWEM) and a professional member of the Institute of Geologists of Ireland (IGI).

Previous project collaborators have included local authorities, private developers, environmental consultants, architects, civil engineering consultants, and contractors requiring specialist hydrological and hydrogeological expertise.

CONOR MCGETTIGAN

B.Sc., M.Sc.

DOB: 05/03/1994

22 Lower Main Street,
Dungarvan,
Co. Waterford.
Office: 058-44122 Mobile: 086-2457718
conor@hydroenvironmental.ie

Conor is an Environmental Scientist and has over 5 year's of experience in the environmental sector in Ireland. His experience to date includes;

- Preparation of the Hydrology and Hydrogeology Chapter of Environmental Impact Assessment Reports (EIARs) for over 30 no. renewable energy projects in Ireland;
- Preparation of EIARs and hydrological and hydrogeological impact assessment reports for quarries, sand and gravel pits, residential and commercial developments;
- Completion of Flood Risk Assessment Reports for a wide range of development including renewable energy developments on peatlands;
- Completion of Water Framework Directive Assessment Reports for a wide range of developments including renewable energy developments on peatlands;
- Preparation of Hydrology and Hydrogeology Chapters of the remedial EIAR (rEIAR) for several projects including the historic peat extraction at the Ballivor Bog Group and at Lemanaghan Bog;
- Completion of site works including site walkover surveys, water feature surveys and drainage mapping;
- Geological field mapping and field investigations, including peat probing in peatland environments to determine peat depths and subsoil geological composition;
- Surface water and groundwater sampling, and surface water flow monitoring;
- Installation of water level monitoring piezometers in peatlands, river callows and sand dune systems using a variety of methods including hand augering and window sampling;
- Water level monitoring and datalogger programming, and water level data management;
- Supervision and logging of ground investigations (i.e. trial pits) for a range of developments ranging from proposed underpasses to large wind farm developments;
- Supervision and logging of borehole drilling; and,
- Producing method statements, risk assessments, and EHS plans/documents and acting as H&S officer on various sites.

Conor holds an M.Sc. in Applied Environmental Science (2020) from University College Dublin, graduating with a First-Class Honours degree in 2020. Conor has also completed a B.Sc. in Geology from University College Dublin (First Class Honours, 2016).

Conor has worked on over 30 large wind farm EIAR projects located in peatland environments. Conor has also works on the remedial Environmental Impact Assessment for several historic peat extraction activities at several cutover peatland sites in Ireland.

NITESH DALAL
B.Tech, PG Dip., M.Sc.

DOB: 02/06/1995

22 Lower Main Street,
Dungarvan,
Co. Waterford.
Office: 058-44122 Mobile: 089-2125438
nitesh@hydroenvironmental.ie

Nitesh is an Environmental Scientist and has over 7 years' experience in environmental consultancy and environmental management in India and over 1 year environmental consultancy experience in Ireland. His experience to date includes;

- Preparation of the Hydrology and Hydrogeology Chapter of Environmental Impact Assessment Reports (EIARs) for renewable energy projects in Ireland;
- Preparation of EIARs and hydrological and hydrogeological impact assessment reports for quarries, sand and gravel pits, residential and commercial developments;
- Completion of Flood Risk Assessment Reports for a wide range of development including renewable energy developments on peatlands;
- Completion of Water Framework Directive Assessment Reports for a wide range of developments including renewable energy developments on peatlands;
- Completion of site works including site walkover surveys, water feature surveys and drainage mapping;
- Geological field mapping and field investigations, including peat probing in peatland environments to determine peat depths and subsoil geological composition;
- Surface water and groundwater sampling, and surface water flow monitoring;
- Water level monitoring and datalogger programming, and water level data management;
- Supervision and logging of ground investigations (i.e. trial pits) for a range of developments ranging from proposed underpasses to large wind farm developments;
- Supervision and logging of borehole drilling; and,
- Producing method statements, risk assessments, and EHS plans/documents and acting as H&S officer on various sites.

Nitesh holds an M.Sc. in Environmental Science (2024), a PG Diploma in Health, Safety and Environment from Annamalai University, India (2021) and B.Tech. in Environmental Engineering (2016) from Guru Gobind Singh Indraprastha University, India (2016).

Nitesh has worked on large wind farm EIAR projects located in peatland environments.



Brian Cronin

Senior Environmental Scientist



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Profile

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

Key Skills

- Client Relations: Maintaining trusting relationships with clients through strong communication and professional attitude
- Report writing: Planning and Environmental Reports, EIA chapters (geology, hydrology, hydrogeology and wind micro-climate), contaminated land risk assessment reports, waste classification reports, environmental audits, IPC compliance reports, letter 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

- **Derryfadda Wind Farm SID application, > €500,000**
Assistant project manager coordinating the EIA team in preparing chapters for the EIAR. Intend to lodge SID planning application in 2027 for consent to develop this wind farm and all associated infrastructure.
- **Garryhinch Wind Farm SID application, > €500,000**
Assistant project manager coordinating the EIA team in preparing chapters for the EIAR. Personally responsible for hydrology chapter including field visits, oversight of drainage design and flood risk assessment. Intend to lodge SID planning application in late 2026 for consent to develop this wind farm and all associated infrastructure.
- **Lifetime Extension for the Gneevs Wind Farm, €150,000, 2024-2025**
Project manager coordinating the EIA team in preparing chapters for the EIAR and organizing all material for the 'planning pack' to lodge an application for extension to the existing 20-year consented operational lifetime of the wind farm. Wrote several chapters of the EIA, and prepared further information response also.
- **Bord na Mona substitute consent projects, €300,000, 2024-2025**
Assistant project manager coordinating the EIA team in preparing chapters for the Garryhinch Substitute Consent project, which aims to regularize the consenting status for historical peat extraction on the site. Writing a number of the EIA chapters for this project and for a similar project on another Bord na Mona site (Littleton).
- **Drehid Wind Farm SID application, €400,000, 2023-2025**
Project Manager: Seeking consent for the development of a Wind Farm and associated 110 kV substation from An Bord Pleanála (ABP) as Strategic Infrastructure Development (SID). Pre-application consultation with ABP, writing chapters of the Environmental Impact Assessment Report (EIAR) and coordinating the programme of works to get the SID application processed.

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 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



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- **Clondardis 110kV Substation SID application, €75,000, 2023**
Project Manager: Seeking consent for the development of a 110 kV substation from ABP as SID. Pre-application consultation with ABP, writing chapters of the Planning and Environmental Report and coordinating the programme of works to get the SID application processed.
 - **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.



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



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- 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, Coumnaagappul Windfarm, Croaghaun Windfarm, Dernacart Windfarm, Drehid Windfarm, Fahy Beg Windfarm, Gneevs 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 Licenced 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.



John Cullen

Senior Project Acoustic & Environmental Engineer



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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 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 (MIEnvSc)

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

Verdé Environmental Group
Environmental Operative



John Cullen

Senior Project Acoustic &
Environmental Engineer



DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

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, Rahanisky Solar Farm, Ballylongford Solar Farm Cortown Solar Farm, Barnadivane Wind Farm, Coom Green Park, Tullahennel Wind Farm, Dernacart Wind Farm and Coumragappul 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.

- **Verde 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.

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 accumulated over 29 years' continuous industry experience since graduating with a Master's degree in Archaeology in 1994. 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 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 as well as wind and solar farm developments (including associated grid connection and haul routes). His inputs to these projects have included liaising with developers, project designers, statutory authorities and other EIA consultants as well as the preparation of EIAR chapters based on programmes of detailed desktop research and field surveys.

The following are examples of some of his current and recent wind farm projects:

- Garryhinch Wind Farm, Co. Laois
- Castlepook Wind Farm, Co. Cork
- Fahy Beg Wind Farm, Co. Clare
- Annagh Wind Farm, Co. Cork
- Coom Wind Farm, Co. Cork
- Gort Uí Rathaile Wind Farm, Co. Cork
- Inse Mhór Wind Farm, Co. Cork
- Ballykett Wind Farm, Co. Clare
- Moanmore Wind Farm, Co. Clare
- Tullaghmore Wind Farm, Co. Galway
- Croaghaun Wind Farm, Co. Carlow
- Castlegarden Wind Farm, Co. Kilkenny
- Coomnagappul Wind Farm, Co. Waterford
- Dyrick Hill Wind Farm, Co. Waterford

Emma Cross - Bord na Mona (BnM)

Emma Cross is a Planning Programme Manager in BnM with over 8 years' experience in the environmental and planning sector. Emma has contributed to and co-ordinated the preparations of EIAs and technical reports for projects across a wide range of development including projects in the energy, natural resources, industrial and residential sectors. Emma holds a BA Natural Science awarded by Trinity College Dublin, an MSc Environmental Sustainability from University College Dublin and an Advanced Diploma in Planning and Environmental Law awarded by the Honorable Society of King's Inns.

Margaret Gleeson - Bord na Mona (BnM)

Margaret Gleeson (BnM) holds a B.Sc Hons in Earth Sciences and an MSc in Sustainable Energy and Green Technologies from University College Dublin. She has almost 7 years experience in the environmental and consulting sectors, predominantly as an EIA specialist, with experience in impact assessment and associated technical reporting across various projects.