



**FEHILY
TIMONEY**

**CONSULTANTS IN ENGINEERING,
ENVIRONMENTAL SCIENCE & PLANNING**

Energy & Planning



DEVELOPING SUSTAINABLE ENVIRONMENTS

Fehily Timoney is an Irish civil and environmental engineering, scientific and planning multidisciplinary consultancy, specialising in the delivery of complex projects for our global clients.

FT offers a total project management solution, acting as consultants from initial project planning and feasibility through to detailed design, construction supervision, commissioning and handover.

CENTRES OF EXCELLENCE CONSIST OF A WIDE RANGE OF SPECIALIST CAPABILITIES INCLUDING:
ENERGY & PLANNING | INFRASTRUCTURE | WASTE & RESOURCE MANAGEMENT | URBAN DEVELOPMENT

PROJECT PROFILES

ARKLOW BANK (EIS & PRELIMINARY DESIGN FOR OFFSHORE WIND PARK)

Location: Arklow Bank, Ireland

Client: Airtricity Developments (Irl) Ltd.

Status: Complete

Overall Project Value: €500M

The Arklow Bank is situated 13km offshore, to the east of Arklow, and covers an area approximately 27km long and 2.5km wide. The proposed wind park consists of 200 turbines with a tower height of up to 100m and rotor diameters of up to 120m. The turbines will be connected to one or more substations on the Arklow Bank. These substations in turn be connected to an onshore transformer via under-sea cables.

The project was the first application to the Department of Communications, Marine and Natural Resources for permission to construct an off-shore wind park. Due to the location of the wind park on the Arklow Bank much of the Environmental Impact Statement concentrated on issues such as; visual impacts, impacts on biodiversity and impacts on navigation and fisheries. In addition to the preparation of the EIS, **FT** also acted as Clients Representative (together with Ramboll) for the pre-tender stage of the Phase I works, which comprised the design and construction of seven turbines (now in operation).

FT was responsible for the project management of:

- Preparation of the Environment Impact Statement
- Bird surveys and impact assessments
- Full underwater archaeological assessment of the Arklow Bank
- Preliminary design of civil/structural/geotechnical elements



KILGALLIOCH WIND FARM

Location: Stranraer, Scotland

Client: Farrans Construction

Status: Complete

Overall Project Value: €420M

FT were employed by Farrans Construction to act as Civil/Structural and Geotechnical designers on the Kilgallioch Wind Farm Project. Kilgallioch Wind Farm is a development by Scottish Power Renewables (SPR), a unit of Iberdrola. The wind farm has an area of approximately 32km² with 70km of internal tracks and 96 Gamesa turbines. The 239MW wind farm will power 130,000 homes making it the second largest onshore windfarm in the UK. This landmark project was fully operational by 2017.

FT's services covered the detailed civil and geotechnical design of the turbine foundations (providing a number of solutions for each turbine type to optimise construction work, cut and fill, and concrete and steel tonnages), met mast foundation design, drainage, crane hard standings, bridge design, substation design and access roads.

FT was also responsible for the preparation of all civil and structural drawings and specifications for the civil and structural works.





FT is an Irish civil and environmental engineering, scientific and planning consultancy and one of Ireland's foremost consultancies in energy development, having been involved in the industry since the late 1990s. **FT** attributes our success in the sector to both the skills and in-depth knowledge of our energy team and the fact that we provide a one-stop-shop for almost all aspects of energy projects.

FT's provides consultancy services for a wide range of renewable energy projects including wind, solar, biomass and micro-hydro power. **FT** also provides professional services for gas pipelines, electrical grid infrastructure including battery storage and peaking plants.

FT provides a comprehensive consultancy service from preliminary assessment of a site and discussions with local authority, through preliminary design and preparation of the planning application and EIAR for a project, to detailed design, supervision, construction management and contract administration.

Main Background Photo:
Galway Wind Park

Key Services:

- Feasibility Studies
- Preliminary and Detailed Design
- Due Diligence including Pre-consent, Pre-construction, Construction and Operation
- Site Investigation
- Hydrology, Drainage and Geotechnical Design





FT has provided professional services including planning, design and environmental engineering to over 120 onshore energy projects, as well as one of the world's largest offshore developments at Arklow Bank off the east coast of Ireland as well as Detail Design and Construction Support Services for Galway Wind Park, Ireland's largest onshore wind farm.

FT's energy team is a leading player in the energy planning sector in Ireland. **FT** have developed a centre of excellence in this area, with a dedicated and highly experienced team to deliver projects for our clients. Having 30 years' experience in the industry, **FT** offers our clients a distinct advantage.

FT guarantees a personal service while delivering complex, affordable and sustainable projects for local and global clients. Our experience in renewable energy ensures that **FT** can provide expert planning advice on all issues relating to grid connection, power purchase agreements and statutory consents.

Key Services:

- Planning Strategy
- Planning Risk Assessment
- Project Management
- Stakeholder and Public Consultations
- Strategic Infrastructure Development Applications
- Environmental Reports





FT attributes our success in the sector to both the skills and in-depth knowledge of our energy, planning and ecology team and the fact that **FT** provides a one-stop for almost all aspects of the project. This allows **FT** to control the input and quality of each element of the project while ensuring consistency to the quality.

One of the cornerstones of **FT** is its environmental impact assessment expertise. **FT**'s environmental engineers, planners and scientists deliver high quality EIAR for our energy projects. Our environmental scientists provides services to clients and energy projects across a wide range of scientific disciplines.

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Key Services:

- Ecological Impact Assessment (EcIA)
- Appropriate Assessment (AA/NIS)
- Ecology Surveys including Ornithology
- EIA Screening and Scoping
- EIAR Preparation
- Noise Impact and Shadow Flicker Assessment
- Curtailment Strategy
- Air Quality and Carbon Management
- GIS
- Oral Hearing



CLIENT REFERENCES

FT prides itself on a high quality service to our clients. **FT**'s highly skilled and experienced Energy & Planning team has provided services for a wide range of projects for clients including:

- Scottish & Southern Energy (SSE)
- The Irish Peat Board (Bord na Móna)
- Irish Forestry Board (Coillte)
- Statkraft
- Brookfield Renewables Ireland
- EMPower
- RWE Renewables

FT's Energy & Planning team is experienced in meeting our clients' need throughout the due diligence process, undertaking thorough assessments of the information available in a confidential manner and advising our clients on any risk elements associated with the project under consideration.

Our experience in the energy industry means that we are adept at recognising the key issues associated with a project and in assessing the level of risk associated with these issues.



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