



**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

KILTEEL SOLAR

Location: Kildare, Ireland

Client: Harmony Solar Kiltel Ltd.

Status: Complete

Overall Project Value: €15M



The proposed development comprised of photovoltaic panels on ground mounted frames and associated ancillary infrastructures adjacent to the village of Kiltel, Co. Kildare. The site area, encompasses PV arrays and all associated new infrastructure, is approximately 31.2 ha. The solar farm is made up of up to 92,500 m² of solar panels with an approximate output of 20.7MW.

FT initially prepared a solar energy feasibility study that established the site's suitability for a large solar energy development. **FT** then assessed the design requirements during the preliminary planning stage, attending pre-planning meetings with Kildare County Council and providing planning advice to the client. **FT** also coordinated the preliminary studies on Glint and Glare, landscape and visuals and Archaeology that were carried out in the site. **FT** provided the design of the site entrance and access tracks as well as the overall design of the project and landscape elements. **FT** prepared the landscape and visual impact assessment including preparation of photomontages and landscape mapping. This was used in the preparation of the design of the solar farm and linked to ecology enhancement measures.

FT prepared and coordinated the full planning application and all associated documents which included a Planning & Environmental Report (ER) and Appropriate Assessment (AA Stage 1). The planning application was prepared on behalf of Harmony Solar Kiltel Ltd. in accordance with Irish and EU legislation and guidelines. Project management and coordination with the client requirements and subcontractors were done by **FT**. At a community level, **FT** organised and staffed a public information meeting with the local community on the project.

FT completed all GIS and CAD work in-house and submitted the planning application to Kildare County Council. The proposed development was initially refused planning permission by the planning authority, however **FT** prepared an appeal to An Bord Pleanála, who concurred with **FTs'** arguments and overturned the decision of Kildare County Council to grant full planning permission for the initial submitted layout.



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 land mark 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.

ENERGY



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 infrastructure including battery storage and peaking plants and energy from waste projects.

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

Main Background Photo:
Galway Wind Park

Key Services:

- Feasibility Studies
- Environmental Planning and Permitting
- Preliminary and Detailed Design
- Due Diligence including Pre-consent, Pre-construction, Construction and Operation
- Oral/Public Hearings
- Hydrology, Drainage and Geotechnical Elements
- Noise Impact and Shadow Flicker Assessment Curtailment Strategy
- Air Quality and Carbon Management
- GIS



PLANNING



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** is also leading consultancy for planning and development of solar energy projects.

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
- Conventional Planning Applications
- Strategic Infrastructure Development Applications
- Environmental Reports



ENVIRONMENT



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 Impact Assessment expertise, including our 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.

FT's in-house ecology team of experienced and suitably qualified experts have a comprehensive understanding of energy related projects and deliver a broad range of environmental services to its public and private sector clients.

Key Services:

- Ecological Impact Assessment (EcIA), Appropriate Assessment (AA/NIS)
- Ecology Surveys including Ornithology
- EIA Screening and Scoping
- EIAR Preparation



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 Mona)
- The Irish Gas Board (Bord Gais Eireann)
- Irish Forestry Board (Coillte)
- Statkraft (formerly Element Power)
- Brookfield
- Harmony Solar
- Highfield Solar
- ABO Wind Ltd.
- Gaelectric
- Various Co-ops
- Wind Farm Contractors
- Local Authorities
- Irish Wind Energy Association
- Irish Solar Energy Association

FT's Energy & Planning team is experienced in meeting our clients' needs throughout the due diligence process, undertaking through 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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