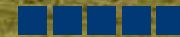




MORIARTY

CIVIL ENGINEERING CONTRACTORS

WIND FARM SPECIALISTS





MORIARTY
CIVIL ENGINEERING CONTRACTORS

Proud to be trusted as...
Leaders in the Wind Industry

700_{MW}

Installed or under construction by MORIARTY,
Experience you can't beat...





MORIARTY
CIVIL ENGINEERING CONTRACTORS



COMPANY PROFILE



Established in 1970 as a family business by Denis Moriarty, the company has its roots in plant hire, construction and civil engineering. From the beginning the business has been driven forward by the clarity of purpose and eye to the future first instilled and driven by the late founder.

Integral to our early and sustained growth is the ever expanding team of expert management who operate with an enthusiasm to surpass the client's wishes and the ability to achieve results.

The company has gained a reputation for a standard of excellence delivered in a cooperative and harmonious manner working with the Client as team players. Over the decades the company organically expanded operations throughout Ireland and the UK where it is now recognised as a quality brand with a proven delivery and unsurpassed civil engineering experience in the Wind Industry.

The company has the capacity and resources to deliver traditional Client designed projects or to take the lead and deliver design and build projects which are now common.



John Moriarty
Managing Director



Denis Moriarty
Director



Colin Scott
General Manager





MORIARTY
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MANAGEMENT & TEAM

The Company has evolved over its forty five year history from a simple plant orientated operation to become a highly managed and structured company which is the minimum required in today's demanding and challenging commercial environment. Without such structures being in place the company would not be placed in its enviable position as market leader in supplying civil engineering services to the Wind Industry.

Experience is paramount, each project has helped refine our team's capability to intuitively implement tailored engineering and cost effective solutions to suit our client's specific needs. Alongside the internal skills and resources we have established a network of specialist consultants and subcontractors which are an essential part of delivering consistently high standards. Like our own capabilities these specialists are proven suppliers that can be trusted with delivery.

As a company we actively permeate the organization with the concept that the client is an essential part of the team. Within this ideological framework all staff proactively collaborate with the client to ensure satisfactory results. This policy of an interdependent client relationship has contributed significantly to repeat business.



What makes us better?



OUR STRENGTHS

Expertise

Founded in 1970, and having become experts in renewable wind energy in Ireland and the UK over the past decade, affords Moriarty the seasoned expertise necessary to see challenging projects through to commissioning. A critical part of this is our permanent team of respected, committed management comprising of highly experienced project managers, engineers, foremen and ground staff.

Reputation

Forged through a commitment to cooperate with our clients and ensure their renewable energy vision is achieved is a cornerstone of our motivation. Risk management and problem solving are the bedrock on which we see projects through, even in the harshest of environments. These attributes have translated into mutual respect and peace of mind for our many long term clients. No two projects are the same but the same end result is required, a satisfied Client.

Innovation

Moriarty attribute a lot of our success to a policy of forward thinking, innovation and simple hard work and dedication. Throughout the years we have worked hard to maintain a fresh approach and stay at the leading edge of the industry and bring innovative engineering solutions for challenging and complex projects. Constant research and training is brought into our company as part of our investment in renewable energy technology to ensure our windfarms & grid connections are in line with the best possible standards achievable in the industry.

As trusted Wind Farm Specialists, our mission is to provide environmentally safe wind energy projects, delivering to our clients exacting requirements and deadlines.





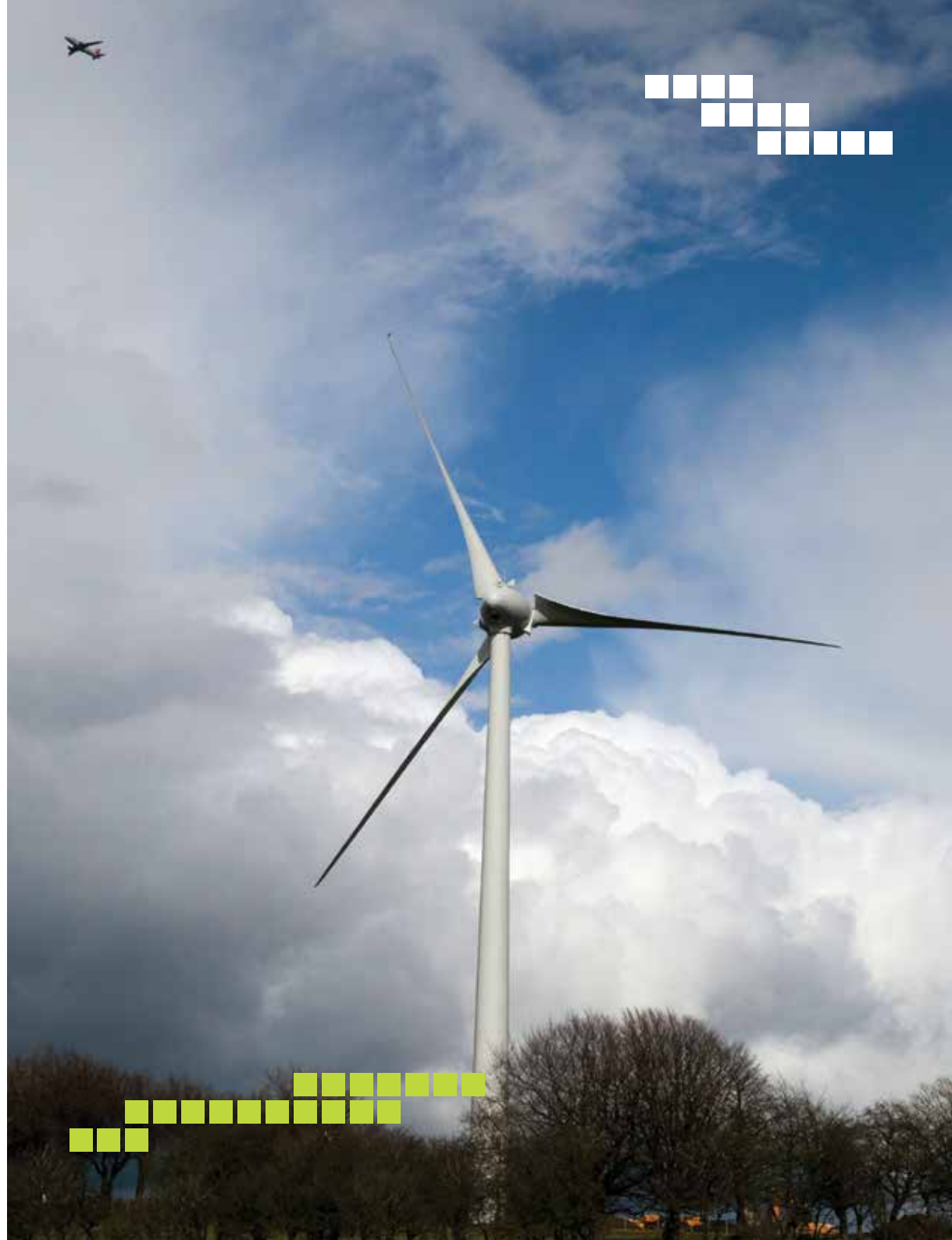
MORIARTY
CIVIL ENGINEERING CONTRACTORS

Leaders in...

Safety

Quality

Environmental





Project Portfolio

Previous wind Farm and Grid Connection Experience





Acres Wind Farm	Co. Donegal	Element Power
Athea Sub-Station	Co. Limerick	Powerteam/SSE
Barranafaddock Wind Farm	Co. Waterford	Element Power
Booltiagh Wind Farm	Co. Clare	Enercon/Bord Gáis Energy
Calliachar Wind Farm	Perthshire, Scotland	SSE Renewables
Cappawhite Grid Connection	Co. Tipperary	ESB Wind Development
Carn Hill Wind Farm	Co. Antrim	Gaelectric/Enercon
Cauteen Grid Connection	Co. Tipperary	ABO Wind
Clydaghroe Wind Farm	Co. Cork	Enercon
Cork Harbour Interconnector Projects	Co. Cork	ESB Networks/NKT Cables
Cork Harbour Wind Turbine Projects	Co. Cork	Enercon/Johnson & Johnson/GlaxoSmithKline/DePuy
Dunbeg Wind Farm	Co. Derry	Enercon/Gaelectric
Garracummer Grid Connection	Co. Tipperary	Bord Gáis Energy
Garracummer Wind Farm	Co. Tipperary	Bord Gáis Energy/Nordex
Gibbet Hill Wind Farm	Co. Wexford	ABO Wind
Glenough Grid Connection	Co. Tipperary	ABO Wind
Glenough Wind Farm	Co. Tipperary	ABO Wind
Gneeves Wind Farm	Co. Cork	Bord Gáis Energy
Gortahile Wind Farm	Co. Laois	ABO Wind



Project Portfolio

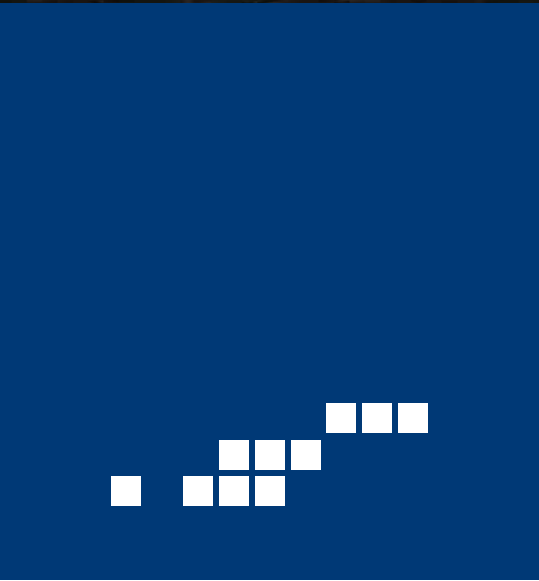
Grouselodge Grid Connection	Co. Limerick	ESB Wind Development
Hollyford Wind Farm	Co. Tipperary	Energia Renewables
Kealkill Wind Farm	Co. Cork	Mukdar Ltd/Gaoithe Glas Teo
Kilgarvan Wind Farm Phase 1 & Phase 2	Co. Kerry	Bord Gáis Energy/Coillte
Kill Hill Sub-Station	Co. Tipperary	Gaeltec Utilities/Bord Gáis Energy
Kill Hill Wind Farm	Co. Tipperary	Enercon/Bord Gáis Energy
Knockacummer/Glentane Wind Farm	Co. Cork	Nordex/Bord Gáis Energy
Knockacummer Grid Connection	Co. Cork	Bord Gáis Energy
Knockalour Wind Farm	Co. Wexford	Enercon
Knockaneden Wind Farm	Co. Kerry	Mainstream Renewable Power/Kirby Group
Knockawarriga Wind Farm	Co. Limerick	Bord Gáis Energy
Lairg Windfarm Highlands	Sutherland, Scotland	ABO Wind
Monaincha Wind Farm	Co. Tipperary	Element Power
Muingnaminnane Wind Farm	Co. Kerry	Saorgus Energy Ltd
Smithstown Wind Farm	Co. Kilkenny	Enercon/Bord Gáis Energy
Templederry Wind Farm	Co. Tipperary	Enercon/Templderry Windfarm Ltd.
Tournafulla & Knockawarriga to Trien	Co. Limerick	Bord Gáis Energy/SSE Renewables
Tursillagh 2 Wind Farm	Co. Kerry	Saorgus Energy Ltd
Thornog Wind Farm	Co. Tyrone	Energia Renewables





OUR CLIENTS





Acres Wind Farm Co. Donegal



Projects Details

- 6 no. GE 2.85MW 103 Turbines
- 2.5km Site Roads
- 2.5km Internal Electrical Ducting
- 5.2km 38 kV Grid Connection, Cable Supply & Installation
- Upgrade Public Road Delivery Route.





Athea Sub Station Co. Limerick



Projects Details

Construction of 110kV Wind Farm Substation
& Associated Compound Including -

GIS Building

Eirgid Building

IPP Building

110kV Transformer & Bund





Barranafaddock Wind Farm Co. Waterford



Projects Details

- 12 no. GE 2.85MW 103 Turbines
- 6km Site Roads
- 7km Internal Electrical Ducting
- 19km 38 kV Grid Connection and Cable Installation
- Upgrade Public Road Delivery Route





Booltiagh Wind Farm Co. Clare



Projects Details

2.0km of Floated Site Access Roads
6 no. Enercon E82 Turbine
Bases & Hardstands.





Calliachar Wind Farm Perthshire, Scotland



Projects Details

Construction of 14 no. Siemens
2.3MW Turbine Bases.





Cappawhite Grid Connection

Co. Tipperary



Projects Details

7km Long Trench for 5 way 110kV Circuits together with Communication Chambers, Link Box Chambers, Joint Bays and Related Works.





Carn Hill Wind Farm Co. Antrim



Projects Details

- Construct/Upgrade of 2.5km of New & Existing On-Site Access Roads
- 6 no. Enercon E70 2.3MW Turbine Bases and Crane Hardstands
- Site Drainage Works



Cauteen Grid Connection

Co. Tipperary



Projects Details

6km of 38 kV Underground Grid Infrastructure to provide Grid Access for four separate Windfarms to the Cauteen 110 kV Substation and Upgrade of the Public Road Access.



Clydaghroe Wind Farm

Co. Cork



Projects Details

2 no. Enercon E70 2.3MW Turbine Base





Cork Harbour Interconnector Projects

Aghada - Longpoint Grid Connection Co. Cork



Projects Details

1.2km 220 kV
Underground Interconnector
Joining Bays
Pumped Bentonite Surround to Cables





Cork Harbour Interconnector Projects



Aghada - Glanagow Grid Connection

Co. Cork



Projects Details

4km 220 kV

Underground Interconnector

Joining Bays

Pumped Bentonite Surround to Cables





Cork Harbour Interconnector Projects



Aghada - Raffeen Grid Connection & Marine Crossing Co. Cork



Projects Details

- 3km 220kV Underground Interconnector
- Shore and Marine Civil Works for 3.5km Harbour Crossing
- Joint Bays, Marine/Land Cable Transition Bays
- Pumped Bentonite Surround to Cables

Cork Harbour Interconnector Projects



Glanagow - Raffeen Grid Connection Co. Cork



Projects Details

220 kV Interconnector

All Inter Tidal and Marine Civil Works
for 4.8km Sub-Sea Cabling

7km Onshore 220 kV Cable Ducting.



Cork Harbour Wind Turbine Projects

Co. Cork



Projects Details

3 no. Enercon E101 Turbine Bases
and Associated Civil Works





Dunbeg Wind Farm

Co. Derry



Projects Details

6km of Site Roads and Hardstands
for 14 Turbine Windfarm.





Garracummer Grid Connection Co. Tipperary



Projects Details

Design, Procurement, Supply, Installation, Jointing, Testing and Pre-Commissioning of 17km of 38kV Electrical & Communications (Fibre Optic) Cable and Associated Ducting & Trenching from Garracummer Wind Farm to Cauteen 110/38kV Substation.



Garracummer Wind Farm Co. Tipperary



Projects Details

- Construction of 12km Site Access Roads
- 17 no. Crane Hard Stands
- 17 no. Nordex N90 2.5MW Wind Turbines
- 9km 20 kV Power and Fibre Optic Duct Installation
- Acted as PSCS for Forestry Clearance and Turbine Erection





Gibbet Hill Wind Farm

Co. Wexford



Projects Details

- 3km of New Access Roads
- 3km Upgrade of Forest Road
- 6 Crane Hardstands
- 20 kV Substation
- 6 no. Nordex N90 2.5MW.





Glenough Grid Connection Co. Tipperary



Projects Details

23km of 38kV Electrical & Fibre Optic Ducting
along with Communication Chambers, Link Box Chambers,
Joint Bays and Related Works.





Glenough Wind Farm

Co. Tipperary



Projects Details

10 x Nordex N90 • 4 x N80 Turbines
38kV Substation • 9km Site Roads
7 km Internal Electric Cabling
Upgrade Public Road Delivery Route





Gneeves Wind Farm Co. Cork



Projects Details

- 11 x Vestas V 52, 850kW
- 4km Underground Grid Connection
- 8km Site Roads
- 6km Coillte Delivery Route Upgrade

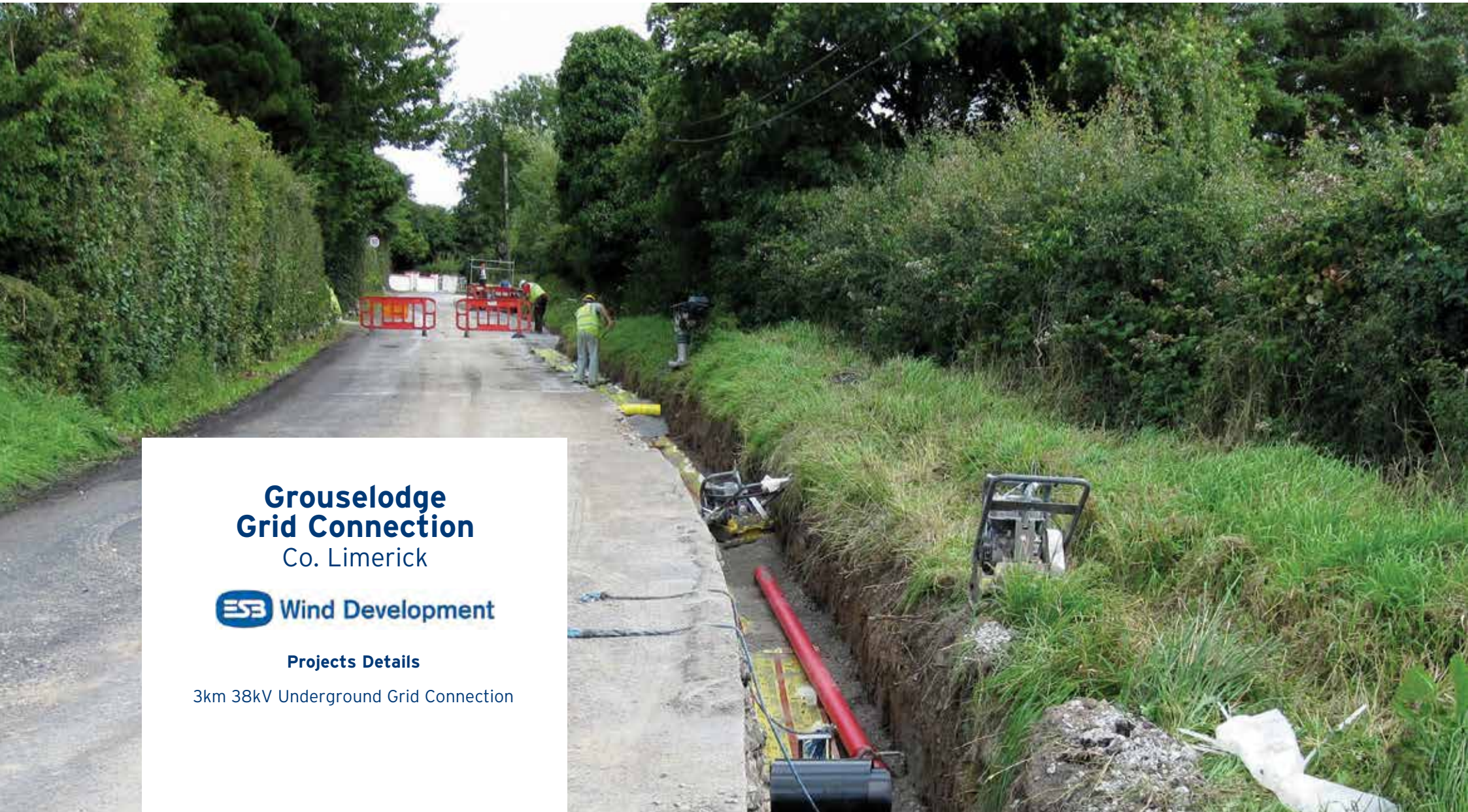


Gortahile Wind Farm Co. Laois



Projects Details

- 8 x Nordex N 90 2.5MW Turbines
- 38kV Sub-Station
- 3.5km Site Roads
- Upgrade Public Road Delivery Route



Grouselodge Grid Connection

Co. Limerick



Projects Details

3km 38kV Underground Grid Connection



Hollyford Wind Farm

Co. Tipperary



Projects Details

- 2km of Site Access Roads
- 3 no. Siemens SWT-3.0-108 3MW Turbine Bases & Hardstands
- 2km 20 kV Power and Fibre Optic Duct Installation
- Substation Construction





Kealkill Wind Farm

Co. Cork

Mukdar Ltd. & Gaoithe Glas Teo

Projects Details

- 10 x Gamesa G58, 950kW.
- 4.5km Upgrade & New Site Roads
- 2.2km Electrical Cabling
- 38kV Electrical Substation



Kilgarvan Wind Farm (Phase 1 & Phase 2) Co. Kerry



Projects Details

PHASE 1

15 Vestas V90 3mW • Clonkeen Sub-Station • 15km New Access Roads

PHASE 2

13 x Nordex N90 2.5mW • 10 x Vestas V52 850Kw
22km Interconnecting Cabling • 110kV Sub-Station Extension
13km Site Access Road on Bog up to 7m Deep







Kill Hill Sub-Station Co. Tipperary



Projects Details

110 kV Substation & Compound.



Kill Hill Wind Farm Co. Tipperary



Projects Details

- 16 no. Enercon E82 Turbine Foundations
- 9km Site Roads
- 2.5km 33kV Grid Connection
- 8km Internal Ducting
- Site Office Building



Knockacummer Glentane Wind Farm Co. Cork



Projects Details

23km of Site Access Road,
35 no. Nordex N90 2.5MW Turbine Foundations
26km 20 kV Power and Fibre Optic Duct Installation





Knockalour Wind Farm Co. Wexford



Projects Details

4 x Enercon E 82 Turbine Foundations



Knockacummer Grid Connection Co. Cork



Projects Details

11.5km of 110kV Grid Connection
with associated Joint Bays and
Communication Chambers.





Knockaneden Wind Farm Co. Kerry



Projects Details

- Construction of 2km Site Roads & Crane Hardstands
- 3 no. Enercon E82 2.3MW Turbine Base
- 1 no. Enercon E70 2.3MW Turbine Base
- 1km Grid Connection,
- 1.2km Interconnecting Cabling,
- 38kV Substation and Compound





Knockawarriga Wind Farm Co. Limerick



Projects Details

- 9 no. Nordex N90 2.5MW
- 4.5km New and Upgraded Site Roads
- 2.5km Cable Trenching and Laying
- 38kV Sub-Station
- Upgrade of Public Road Delivery Route



Lairg Wind Farm

Sutherland, Highlands, Scotland



Projects Details

- 3 no. Nordex N80 2.5MW Turbines
- 4km Site Access Roads along with One Bridge
- Control Building
- 1.5km Interconnecting Cabling
- 3km Grid Underground Grid Connection





Monaincha Wind Farm Co. Tipperary



Projects Details

15km of Site Access Roads,
15 no. Nordex N117 2.4mW Bases & Hardstands
5.0km of 38kV Grid Connection comprising of
4.0km overhead and 1km underground,
17km 20kV Power and Fibre Optic Duct Installation,
Substation Construction.





Muingnaminnane Wind Farm

Co. Kerry



Projects Details

- 14 x Enercon E48 800 kW
- 4 x Enercon E44 900 kW Turbines (14.8 MW)
- 4.5km New and upgraded Site Access Roads
- 5.5km Cable Trenching
- 38kV Sub-Station



Smithstown Wind Farm Co. Kilkenny



Projects Details

- 2.5km of Site Access Roads
- 4 no. Enercon E-82 Nordex WTG Bases & Hardstands





Templederry Wind Farm Co. Tipperary



Templederry Community Windfarm

Projects Details

- 1km New Site Road
- 20kV Sub-Station
- 2 no. Enercon E70 2.3MW Turbine Bases
- Crane Hardstands





The Longest Grid Connection in the Country

Tournafulla & Knockawarriga to Trien
Co. Limerick



Projects Details

- 29km Underground Grid Connection
- 22.5km on Public Road
- 6.5km Cross Country



Tursillagh 2 Wind Farm

Co. Kerry



Projects Details

- 8 x Vestas V52 850 kW Turbine (6.8 MW)
- 6km Siteroads, Crane Bases
- 38kV Substation Extension
- 5km of Onsite Cabling



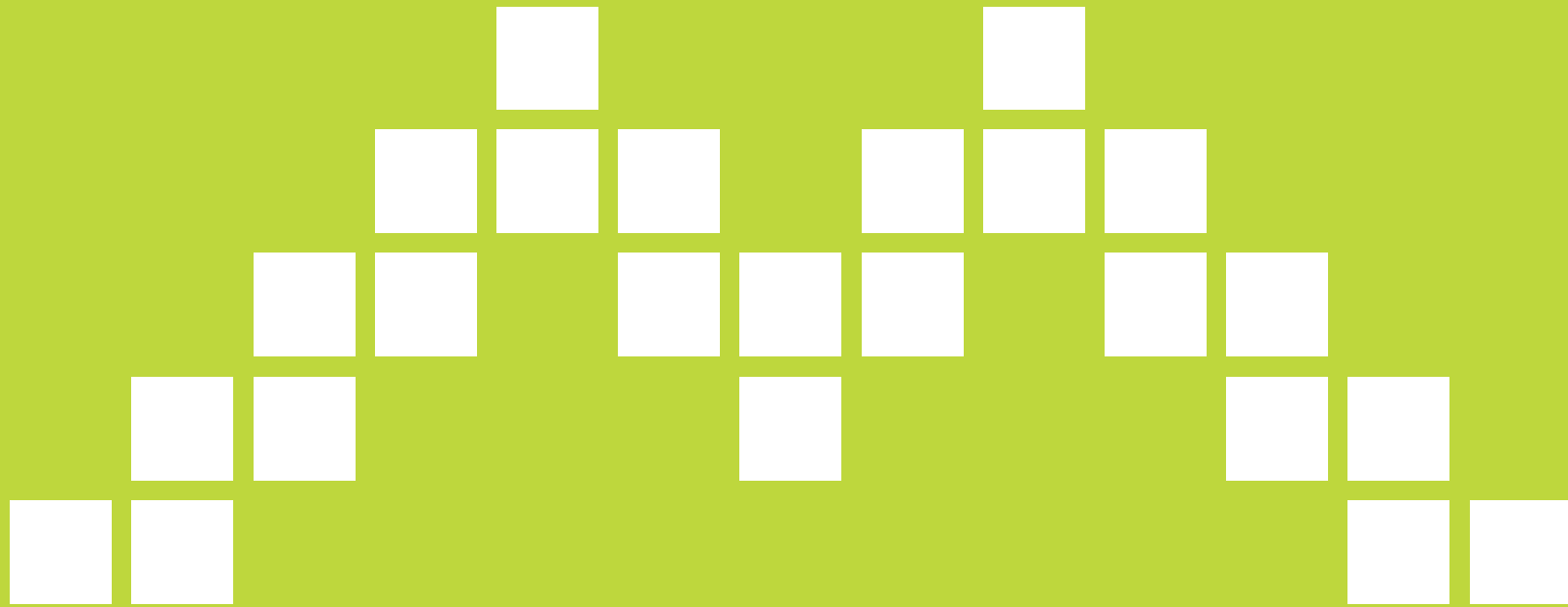
Thornog Wind Farm Co. Tyrone



Projects Details

- 8 Nordex N90 R65 2.5MW Turbine Foundations
- 33 kV Substation
- 4.5km Site Roads
- 4.5km Internal Electrical Ducting
- Upgrade Public Road Delivery Route







MORIARTY

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