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# THORNOG HILL WIND FARM PROPOSAL, DRUMQUIN, COUNTY TYRONE

## Introduction

Thornog Wind Farm Ltd. are proposing to develop a 5 turbine wind farm at Thornog Hill, Drumquin, Co Tyrone. The Thornog Wind Farm will produce an average of 10 megawatts of energy by renewable means every year. This is enough renewable and pollution free energy to power approximately 5,600 homes every year. This renewable wind energy will be fed into the national electricity grid. Canavan Associates Ltd. are preparing the Planning Application and coordinating the Environmental Impact Statement for this proposal.

## The Proposed Location

The proposed site lies approximately 8 kms southwest of Drumquin, Co. Tyrone and 7 kms northeast of Kesh, Co. Fermanagh. The ▲ symbol on the map on the back of this page shows the approximate site location.

## The Proposed Project

The proposed development will be composed of 5 wind turbines, access tracks and a new electrical substation. The life of the project will be 25 years. The wind farm will be connected to the National NIE electricity grid by underground cables. This will ensure that there are no overhead cables. The type of turbine to be used has not yet been finalized; however, the turbines will be three bladed and coloured matt grey. They will reach a maximum overall base to blade tip height of 107m. The tower or hub heights will be 67 metres. Rotor blade diameters will be 80 metres.

## Site Selection Process

The site at Thornog has been chosen because of the wind resources available in this upland location, the capacity of the electrical power grid to take the power generated and the principle of wind energy already established in this upland.

## Information Timetable

In parallel to research that has been ongoing in relation to the preparation of the Environmental Impact Statement and Planning Application, consultations have been ongoing with government bodies, the Planning Service and the local community. A Public Information Day has been scheduled to answer questions and provide additional information about the proposed wind farm. This event will present an opportunity for members of the public to see detailed plans of the proposed development before it is submitted.

## Environmental Assessment

The Environmental Impact Statement will contain site specific information on ecology, birds, archaeology, noise, geotechnical issues, visual and landscape assessment. A public information day will be provided to ensure that members of the public can have full details of the proposal before it goes into the planning system.

## Benefits

- This 5 turbine (10 MW) proposal will offer significant positive benefits to local and national air quality by reducing the production of 'Greenhouse gases.'
- The proposed wind farm will save at least 22,600 tonnes of Carbon dioxide, 78 tonnes of Nitrous oxide and 263 tonnes of Sulfur Dioxide every year by producing energy by renewable means rather than by burning fossil fuels.
- The development will make significant progress towards achieving the commitments of the Kyoto Protocol.
- The construction of the wind farm provides an opportunity for the employment of local labour and the use of local resources.
- The locally produced electricity will reduce our need to import costly fossil fuels.
- Land rental incomes for the landowners and rates for the local council will be generated for the 25 year lifespan of the project.

## Contact Details

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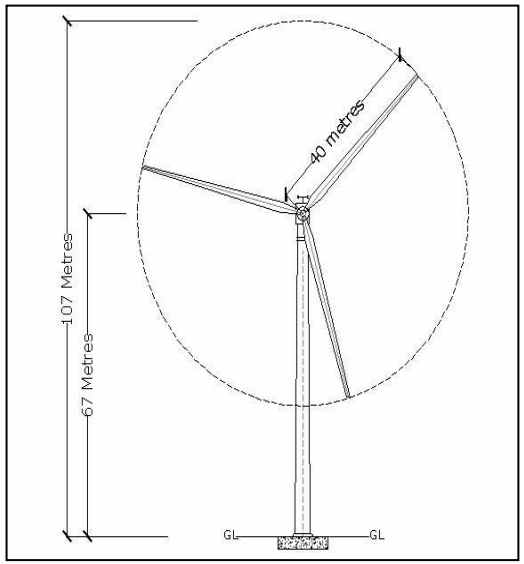
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# The Proposed Development

## Location of the Proposed Project




## Sample Drawing of a Typical Turbine




# Wind Energy in Northern Ireland and the UK

## UK Renewable Energy Policy

Renewable energy sources in the UK currently generate just over 3% of the total electricity supply, 30% of which comes from wind energy. New legislation, the Renewables Obligation, has set targets on the generation of electricity from renewables to 10% by 2010. The UK Government recently announced its intention to increase this to 15% by 2015. Wind energy is one of the best placed technologies to help meet these targets; the UK is the windiest country in Europe with over 40% of the available resource - enough to meet the country's electricity needs several times over. *

## Existing Windfarms in Northern Ireland




As of March 2005 there were three additional wind farms with planning approval in Northern Ireland. These wind farms, plus those show on the map above, total 12 wind farms at 142 turbines, with a yearly capacity of 135.4 MW. These wind farms produce enough renewable and green energy to power over 75,00 homes every year.

* Source: The British Wind Energy Association. www.bwea.org