

Lambrigg Wind Farm



Key facts

- There are **five wind turbines** operating at Lambrigg Wind Farm
- Each wind turbine measures **43 metres** from the ground to the centre of the turbine hub
- The blades measure **30 metres** each, which allowing for the width of the hub they are mounted to gives a total rotor diameter of **62 metres**
- The total height of each wind turbine (to the tip of the blades at their highest point) is **70 metres**
- The turbines were produced by German manufacturer Nordex and are each rated at **1.3 megawatts**, giving the wind farm a total capacity of **6.5 megawatts**
- The wind farm generates enough clean electricity to meet the average needs of some **2,500 homes¹**
- The wind farm began operating in **September 2000**.

Construction

The turbines were put in place during 2000 at Lambrigg Wind Farm. These images show the hub and blades being lifted into place.



The electricity produced by the wind farm flows through underground cables to a small sub-station located on the site. From the sub-station, the electricity feeds into an existing electricity line for distribution to homes and businesses.

Project Location

Lambrigg Wind Farm is located just off the M6 to the north of junction 37 in Cumbria.



Why do we need wind farms?

- ✓ **Clean** - Wind energy is one of the cleanest of all the commercial methods of generating electricity. It produces no harmful gas emissions which contribute to climate change, no effluent, no waste and no radioactive contaminants.
- ✓ **Abundant** - With 40% of Europe's total wind resource, Britain is well placed to reap the benefit of the most advanced and promising of all the renewable energy sources. There are 211 operating wind farms across the UK with a total capacity of 3,390 megawatts (MW) meeting the average annual electricity needs of some 1,895,565 homes².
- ✓ **Sustainable** - Wind farms supply electricity from a free and everlasting fuel; the wind. Wind turbines generate electricity safely, without producing atmospheric pollutants or depleting finite resources of fossil fuels.
- ✓ **Popular** - People like wind farms. Numerous public opinion surveys show that the vast majority of people support the development of wind energy in the UK.

Community

RWE npower renewables offers a range of community benefit packages at our operating onshore and offshore wind farms, these usually benefit those communities living closest to the site. Packages vary, depending on the size, type and geographical make up of local communities.

The Lambrigg Wind Farm Community Fund started at a base level of £6,000 (index linked each year in line with inflation) and will be available throughout the operational life of the wind farm.

The Lambrigg Wind Farm Community Fund is administered by local parish councils so decisions about how the fund is allocated are made by local people.

Recent projects include;

[Miles Tarn Community Group](#) used funding to create an upgraded playground facility

[New Hutton Village Institute](#) used funding towards re-sealing their building floor and upgrading the entrance porch

[Mary Rowland Almshouse](#) used funding towards refurbishment



Schoolchildren visit Lambrigg Wind Farm.

About RWE npower renewables

RWE npower renewables is the UK subsidiary of RWE Innogy and is one of the UK's leading renewable energy developers and operators, committed to developing and operating wind farms and hydro plant to produce sustainable electricity. The company operates 17 hydroelectric power projects and 22 wind farms in the UK, including the country's first major offshore wind farm, North Hoyle. RWE npower renewables is also working with marine energy technology partners to deliver new wave and tidal stream power projects in the UK. Through our existing projects and those in development, we are working in close partnership with communities and companies throughout the UK. As Government policy drives the UK towards a target of supplying 10% of electricity from renewables by 2010, and 15% by 2015, we will be at the forefront of realising this aim.

For further information about RWE npower renewables and RWE Innogy visit www.npower-renewables.com and www.rweinnogy.com For further information about RWE npower visit www.rwenpower.com



Notes

1. Energy predicted to be generated by the proposal is derived using wind speeds monitored in the local area and correlating to a Met. Office station providing longer term data. This enables a calculation to be made to estimate the average annual energy production for the site based on 26 turbines each of rated capacity 2.3MW. The energy capture predicted and hence derived homes equivalent or emissions savings figures may change as further data are gathered.

Equivalent homes supplied is based on an annual electricity consumption per home of 4,700 kWh, which is derived from a total UK domestic electricity consumption of 117.589 terawatt-hours (TWh) (The Digest of UK Energy Statistics 2005) and 25.2 million UK households (Mid-year Household Estimates published in 2004 by the Office for National Statistics).

²Taken from the BWEA website www.bwea.com

RWE npower renewables
Head Office
Trigonos
Windmill Hill Business Park
Whitehill Way
SWINDON
Wiltshire SN5 6PB

www.npower-renewables.com