

# Wind turbines



## How the technology works

In the UK we have 40% of Europe's total wind energy and much of it is still largely untapped. Modern wind turbines use the wind to turn aerodynamic blades that turn a rotor to create electricity.

## Requirements

Wind speed increases with height, so it's best to have the turbine high on a mast or tower that is free from excessive turbulence and obstructions.

However, small-scale building-integrated wind turbines suitable for urban locations are now available for installation in homes and other commercial buildings.

## Planning permission

Planning views and guidelines do vary between councils. Some Local Authorities require planning permission, while others simply require notification for wind turbines for either domestic or commercial properties.

## Grant funding

A 50% grant towards the cost of a wind turbine is available through the LCBP Phase 2 to the public sector, including schools, hospitals, housing associations, local authorities and charitable organisations, until the end of June 2009. Other schemes may be available, please contact us to find out more.

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## Key benefits

- 50% grants available
- Cuts fuel consumption
- Helps reduce CO<sub>2</sub> emissions
- Large and small-scale models available

## Contact us

Call 0845 070 2203\*

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Visit [britishgas.co.uk/energyefficiency](http://britishgas.co.uk/energyefficiency)

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# Case study: The Green Light Trust

## How we helped The Green Light Trust

The Green Light Trust in Lawshall is an organisation established to bring communities and landscapes to life through hands-on learning and the growing of woodlands.

In December 2007 a wind turbine was installed, positioned to catch the predominant southwest winds at a regular speed of 5m/s and generate renewable energy for the Trust. The Green Light Trust is now more energy efficient and has reduced its carbon footprint.

A wind turbine was installed, positioned to catch the predominant southwesterly winds at regular speeds of 5m/s



### KEY FACTS

Grant contribution	£5,617.50
Annual kWh generated	4,851
Model	6kW Proven
Annual CO <sub>2</sub> savings	2,085kg

## More success stories

So far we have installed 8 wind turbines as part of the LCBP Phase 2 programme:

- Chew Valley School, Bristol
- Faith Lodge, St George's Crypt, Leeds
- Hardenhuish School, Wiltshire
- Islington Borough Council, London
- Islington Council Football and Astro Turf Pitches, London
- Leventhorpe School, Hertfordshire
- Woolfardisworthy Sports and Community Hall, Devon

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