



# David Hunt

## Eco Environments Ltd

Northwest Energy Forum

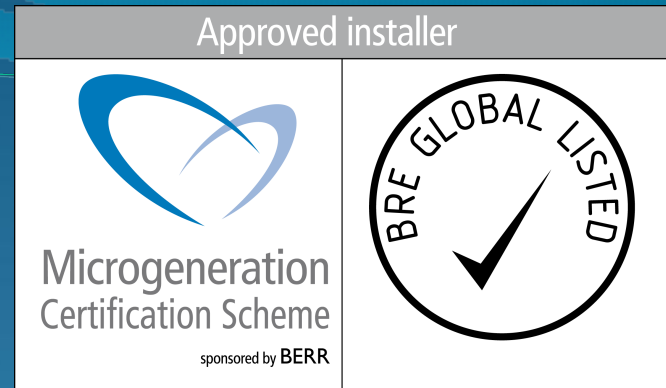
28<sup>th</sup> May 2009



# Who we are

Eco Environment are Double MCS accredited installers of solar and wind power and other renewable technologies and energy efficient products, such as heat pumps and rainwater harvesting.

We are based in Bootle and service the construction, property, commercial and domestic markets across the Northwest.



# What is MCS?

‘The Microgeneration Certification Scheme (MCS) is owned by the department for Business, Enterprise and Regulatory Reform (BERR formerly DTI) and is designed to evaluate products and installers against robust criteria for microgeneration technologies, providing greater protection for consumers and ensuring that the Government's (i.e. taxpayers) grant money is spent in an effective manner’ - BERR



## Microgeneration- What are the possibilities?

Ignoring heat generating renewables such as solar thermal, heat pumps, and even CHP.

I'll focus on the established and proven technologies of Solar Photovoltaics (PV) and small scale wind turbines.

Technologies that are easy to install and generate grid quality electricity.



## Microgeneration- What are the possibilities?

WIND- Looking at turbines of between 1.5kw and 15kw. Ignore house mounted units of less than 1.5kw as rather pointless!

The UK has 40% of Europe's wind. We have, particularly in the Northwest an enormous wind resource. With EST field trials suggesting a well placed 6Kw turbine will produce 16,000kwh per annum, and we have examples to support this.

62.5 6kw turbines would generate 1Mwh of electricity  
62 turbines of this size really doesn't take up much room!





## Microgeneration- What are the possibilities?

SOLAR PV- Solar is a far more predictable source of electricity, as such it is easier to look at numbers. PV could provide nationally

Every roof space- 460Twh, 116% of UK consumption!

E-S-W facing roof space- 374Twh almost 95%

And just looking at true south facing roofs, 35% of UK consumption.

It certainly wouldn't cost the £2.8 Billion for a new Nuclear power station! (not including decommissioning costs!)



Aerial view showing garden context.  
Garden is used for growing food to be prepared in teaching kitchen





# Barriers

- Information and Myths
- Ease of community grid connections
- Carbon Trust and ECA's
- Access to finance
- Planning
- Training



# Opportunities

- Growing awareness
- Energy Prices and fluctuations
- Feed in Tariffs /Phase 2 Grants /NWDA
- Legislation, Code for sustainable homes etc



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