



Energy Saving Trust Microgeneration and Renewables Media Fact Sheet 2011- 2012

Electricity-Producing Renewables

Photovoltaics (Solar PV)

- A typical solar electricity installation (2.9kWp) that is eligible for the Feed-in Tariff could generate savings and income of around £1190 a year, and save 1.3 tonnes of carbon dioxide per year.
- A typical solar electricity installation can generate around 75% of a home's annual electricity needs.
- Over its lifetime, a typical solar electricity installation could generate savings and income of around £28,000 and save 30 tonnes of CO₂.
- Each kWp installed can generate savings and income of around £410 per year and save almost half a tonne of carbon dioxide per year

Wind Turbines

- Wind turbines can be mounted on a mast or pole, or they can be building mounted.
- Building mounted turbines will be smaller in size and output – around 1kW.
- Most domestic pole mounted turbines will have a rated output of between 2.5kW and 15kW.
- Wind turbines should only be installed in areas with a wind speed of no less than 5 metres per second.
- A 6kW turbine sited in a suitable location could be expected to generate as much electricity as is used by three typical homes in a year.
- A well sited 6kW turbine could generate income and savings of around £3,200 per year when eligible for the Feed-in Tariff, and save over 5 tonnes per year of CO₂.

Heat Generating Renewables

Heat Pumps

- There are three main types of heat pump: air, water and ground source
- Heat pumps need electricity to run, but most of the heat they provide comes from ambient heat replenished by renewable solar energy.
- A typical air source heat pump could save £380 per year when replacing electric storage heating, but is unlikely to save money compared to gas heating.
- A typical ground source heat pump could save £480 per year when replacing electric storage heating, but is unlikely to save money compared to gas heating.

Wood Fuel

- Heating your home with wood fuel will reduce your carbon footprint because the CO₂ emitted when burning it is balanced by the CO₂ absorbed by the wood while growing.
- Pellet and log stoves are an attractive, low carbon alternative to electric heaters or open fires.
- When replacing electric heating with a wood pellet you could save around £580 per year on heating bills and save around 7.5 tonnes of carbon dioxide!

For more information, please contact:

- Call your local Energy Saving Scotland advice centre for free impartial advice: 0800 512 012
- For more about the Energy Saving Trust's key achievements: www.energysavingtrust.org.uk/scotland

For more info: **call the Energy Saving Trust press office on 020 7227 0398**

About the Energy Saving Trust in Scotland

The Energy Saving Trust is the UK's leading impartial organisation helping people save energy and reduce carbon emissions. Founded in 1992, we are a not-for-profit company limited by guarantee, set up to help reduce the UK's carbon emissions by reducing UK domestic and transport energy use. Our mission is to find the best ways to change people's behaviour and to introduce energy-saving measures into homes.

We do this by providing expert insight and knowledge about energy saving, supporting people to take action, working with business, government, local authorities and others to drive improvements in the energy saving market, and providing quality assurance and certification for goods, services and installers.

The Energy Saving Trust's work in Scotland is funded by the Scottish Government. It manages a network of advice centres in Scotland specifically designed to help consumers take action to save energy. This Energy Saving Scotland advice network aims to reach 250,000 people every year.

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