





PLANNING & BUILDING CONTROL GUIDE TO SUSTAINABILITY

This publication has been produced for the
West Yorkshire Building Control Services



A TEN ALPS PUBLICATION



Leeds
CITY COUNCIL





Solar Electricity (Photovoltaics or PV)

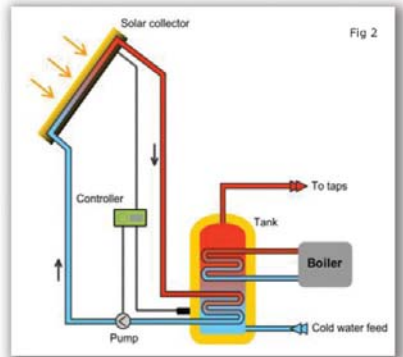
Energy from the sun can be used to generate electricity through a PV system. Solar PV systems convert the sun's rays directly into electricity through the use of solar cells made of silicone.

The Feed in Tariff (FITs) Fig.1 is the financial incentive scheme introduced by Government on 1st April 2010. The aim of the FITs is to increase the uptake of on-site electricity generating technologies including PV. To qualify for the FITs, the PV system must be installed by an MCS certified installer and supplier.

- **Generation Tariff:** - energy supplier gives money for every unit of electricity produced. The tariff varies it ranges from 29.3p/Kwh to 43.3p/Kwh Fig 1
- **Export Tariff:** - there is a payment of 3p/Kwh for all excess generated electricity.
- **Energy bill savings:** - less dependence on the conventional electrical power from the grid thereby allowing savings on energy bills.

Solar Thermal (Hot Water)

A solar water heating system uses solar collectors, normally mounted on a roof, to capture the energy released by the sun to heat water. Fig.2



Just One Call for Supply, Design & Install

Air Source/Ground Source' Heat Pumps with Under Floor Heating



*Not shown on illustration

A heat pump extracts heat from the outside air or from the ground in the same way that a fridge extracts heat from its inside. It can extract heat from the air even when the outside temperature is as low as minus -26°C.

- ✓ Low cost, low carbon heating and hot water.
- ✓ Save up to 100% on your Gas Central Heating Bills.
- ✓ Free energy from the outside.
- ✓ Raise your Energy Assessment Level.
- ✓ Simple Installation, Minimum maintenance.
- ✓ Increase the value of your property.
- ✓ Ideal for new build or retro fit.
- ✓ High efficiency 75% Free energy - 25% Electricity.
- ✓ The RHI will provide grants and tariff payments.

www.ecowarmonline.co.uk

Free Feasibility Study available within West Yorkshire

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