

PV SOLAR PANELS

Solar energy has only recently become a viable alternative solution to the traditional way of buying energy from the national grid. Solar photovoltaic (PV) cells convert energy from sunlight into electricity, reducing your carbon footprint, and your need to buy from the grid.

Photovoltaic cells are panels made from one or two layers of semi-conducting material, like silicon, that can be attached to a roof or walls. When light shines on them it creates an electric field across the layers. Although they work on a cloudy day, the stronger the sunshine the more electricity is produced.

The key benefits

Lower fuel bills

Roughly 75% of the electricity currently consumed will be self-generated and free. Installation of PV Solar Panels, could reduce electricity bills by as much as £600 per year.

Feed-in tariff scheme (FITS)

FITS is a government initiative aimed at encouraging the use of sustainable energy. The current tariff level is 41.3 pence per kWh, meaning that the government will pay homeowners 41.3 pence for every kWh of electricity the solar panels generate. This equates to an earning of £1664 per year, based on the fitting of an average system.

This current tariff will be paid for a minimum of 25 years, tax free and index linked, however is only open to new entrants until April 2012. After then, new feed-in prices will be reduced as take up increases, eventually stopping altogether at some point in the future. It is therefore advisable install a PV solar system as quickly as possible, especially as demand is set to soar as the deadline approaches.

Adding value to your home

Consumers are demanding greener homes and house prices are currently high, industry bodies are of the opinion that there has never been a better time to invest in a greener home.

"The combination of legislation, increasing fuel costs and a more educated house buyer, means that the demand for green homes will undoubtedly increase,"

Mr Harland-Khan (Chief executive, Sustain Worldwide).

Sell unwanted energy to the grid

Under the feed-in tariff scheme, the national grid will buy any electricity which is generated by solar panels and unused. Electricity can be exported to the grid for a minimum payment of 3 pence per kWh. The amount of income generated depends entirely on individual lifestyle and energy needs, but can earn upwards from £30 a year.

Combat rising energy costs

The cost of heating homes could rise to unaffordable levels, with gas and electricity bills reaching nearly £2,000 a year, unless drastic action is taken to shore up supply and overhaul the system, according to Ofgem. Reducing the amount of energy you buy from the grid by 40%, would be a sufficient way of counteracting these rising costs.

Environmental Benefits

Solar electricity is green, renewables energy and doesn't release any harmful carbon dioxide (CO₂) or other pollutants. A typical home PV system could save around 1tonne of CO₂ per year, which is around 25 tonnes over its lifetime. Turning on to solar power will drastically cut home or business carbon emissions, and help to create a safer environment for future generations.

References

http://www.decc.gov.uk/en/content/cms/what_we_do/uk_supply/energy_mix/renewable/explained/microgen/solar_pv/solar_pv.aspx

<http://www.energysavingtrust.org.uk/Generate-your-own-energy/Solar-electricity>

<http://www.energysavingtrust.org.uk/Generate-your-own-energy/Sell-your-own-energy/Feed-in-Tariff-scheme>

<http://www.energysavingtrust.org.uk/Resources/Energy-saving-news/Moving-home-and-energy-efficiency/More-consumers-demanding-green-homes>

<http://www.guardian.co.uk/business/2010/feb/03/energy-bills-unaffordable-system-overhaul>

Quotation

We can establish whether a property is likely to be able to benefit from a solar PV system over the phone, and if it is, we offer to undertake a site survey and provide a detailed quotation without charge or obligation. Quotations can also be included as a part of our eco audit, which determines the best energy saving solutions specific to individual property needs.

Product

There are a number of different systems available from different manufactures around the world, and the Government have had to set manufacturing standards that must be met in order to qualify for the feed-in tariffs. We only install systems that have achieved this certification. Whichever product we choose, you can be sure of having the highest output from the smallest area along with quality and value for money, which in turn will guarantee the maximum return on your investment for the next 25 years.

Installation

We offer full installation of PV solar panels, and use only fully qualified and trained teams to install your system with the minimum of fuss and disruption. Fitting solar energy is a straight-forward process, yet we recognise every property comes with its own set of challenges and unique requirements. We will attend to every detail sympathetically and your solar installation will be smooth and fast.

For enquiries and any further information, please don't hesitate to contact us.