

SOLAR

RENEWABLE HEAT INCENTIVE
DUE TO COME INTO FORCE

APRIL 2011

AN INFORMATION LEAFLET FOR THE FORTHCOMING
GUARANTEED PAYMENTS FOR RENEWABLE HEAT.

BY GENERATING YOUR HEAT FROM RENEWABLE SOURCES
YOU WILL GET PAID FOR THE HEAT YOU USE AND MAKE A
BIGGER DIFFERENCE TO THE ENVIRONMENT.

SOLAR THERMAL HOT WATER:



- High performance Evacuated Tube Collectors
- Available in range of sizes can be free-standing or on a pitched roof Key marked and EN12975 Certified
- Heat pipe design - offer low maintenance
- Will produce hot water even in cool sunny conditions



BARRY FRAMPTON LTD

Solar Thermal Installations

Solar panels are a popular way to invest in your home and your energy future - reducing your carbon footprint and dependence on traditional energy.

With current interest rates and unstable utility energy prices, micro generation and installing solar panels in particular, currently represent one of the best investments, increasing your properties value and reducing your energy bills.

A quality solar water heating system will provide up to 70% of your home's annual hot water, reducing your energy bills and CO2 and your families' carbon footprint for 25-30 years.

How Does Solar Work?

Solar Collectors work by converting sunlight into hot water. Each collector is made up of a number of evacuated tubes with a selective absorbent coating and copper heat pipe.

Light enters the tube and the coating converts it to heat, this in turn is transmitted to the heat-pipe, the vacuum in the tubes prevents this heat being re-emitted to the atmosphere, meaning that the collectors will work in cold outside temperatures.

Each tube with its heat-pipe is connected to a manifold through which fluid is pumped and warmed by the tips on the heat-pipes, the heated fluid is contained within a sealed circuit that connects to a dedicated solar coil on your cylinder.

What is the Renewable Heat Incentive?

It is a payment for generating heat from renewable sources. Like the Feed-In Tariffs, it is set by Government, however where it differs slightly is that it is administered by the official regulator Ofgem on sales of fossil heating fuels and is collected by the suppliers of these fuels. However, the Renewable Heat Incentive (RHI) is still for everyone homeowners, tenants, businesses, schools, hospitals, farmers or landlords. You earn a fixed income for every Kilowatt hour of heat you produce.

How much £ is the Renewable Heat Incentive worth?

First of all you will save money by not having to use any gas or oil, both of which are becoming increasingly expensive year-on-year.

Secondly, you will be paid up to 18p/kWhr for the hot water and heat you generate and use yourself. It depends on exactly what systems you use and how large they are as to what the exact tariff level is.

When do they start?

Tariffs will be paid starting in April 2011. However, any suitable system installed after the 15th of July 2009, will be eligible for the tariffs when they begin.

Is the Tariff fixed for this whole period?

Yes - once you start at a given tariff, it is guaranteed for the full period shown above, and will compensate for inflation. The proposed tariff levels* within the consultation document for the RHI incentive are as follows;

Insulation

Renewables and energy conservation go hand-in-hand and you should always aim to make your building energy efficient before or when installing renewable heating.

Certification

All equipment and installer must be MCS certified and work in underway to extend the upper limits of MCS certification (currently restricted to 45kW except biomass which is up to 300kW) to encompass more systems covered by the RHI.

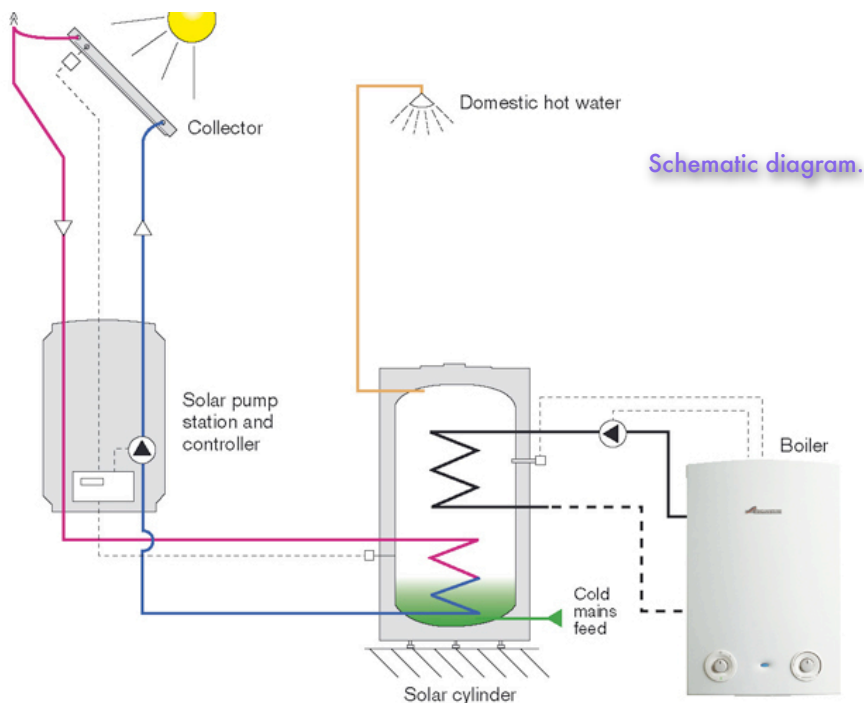
Solar Scale	Pence /kWh	Tariff Years
Up to 45kW	18	20
45kW - 500kW	17	20

* The Renewable Heat Incentive is still being designed so all the details described in this leaflet are provisional and may change once the consultation is published.

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The Solar System

The Panels work just like your existing heat source, except they are powered by free, clean solar energy rather than an expensive, dirty, carbon fuel.

The Solar System is your primary heat source. Your boiler, stove or immersion heater will automatically raise the water temperature if required. Even when solar energy levels are low the system will add some heat to the water, so your existing heat source will do far less work.

The system comprises of four main components: Solar Panels, Digital Controller, Circulation Module and a Hot Water Cylinder.



The RESOL controller for standard solar thermal systems. The controller DeltaSol® BS offers a clear operating concept and is equipped with the newly developed illuminated display with system-monitoring. Flashing symbols for sensors, pumps and valves enable an immediate display of temperatures, temperature differences and active outputs. Adjustment and control of the solar system can be easily carried out.

The better informed you are, the better you choose. And our pledge to you is you won't find better advice, better products or better service.



The Digital Controller

The Digital Controller is the digital heart of the system. It uses sensors to compare water in the panel with that in the cylinder.

When the panel is 3°C warmer than the cylinder, the solar pump switches on and the water circulates through transferring heat to the cylinder.

If the temperature difference is below 3°C the pump turns off to stop the water in the cylinder being cooled.

Barry Frampton Ltd offer competent professional installers to assess your situation and discuss with you the best configuration to meet your needs. This includes ensuring that the solar system is efficiently integrated with any auxiliary water heating sources to gain the greatest benefit.

Solar Water Heating

1. You would slash the cost of your current electricity bill
By installing renewable heat equipment, you will get paid for the heat you generate. So rather than forking out for your gas or oil, you will actually be better off with the average home expected to make a net profit of £600!
2. You won't be affected by fuel price changes as badly
The price of oil and gas in particular has fluctuated quite a lot in recent years. By having a renewable heat system that does not use either oil or gas, you won't be affected as much as you were previously.
3. You would be making a difference to the environment
99% of all the heat you currently generate comes from oil, gas fuel or electricity power stations. This means a woeful 1% comes from renewable sources. Through the RHI, the aim is to get 12% of the UK's generate from renewable sources by 2020.
4. 10 year warranty
All our collectors carry the Solar Keymark Certificate, and have been tested for both durability and performance in accordance with the industry standard EN12975-2 procedure. The Solar collectors we install have a 10 year warranty, and their life expectancy is in excess of 25 years.

Cost & Maintenance

Costs vary due to a range of factors such as size of collector, type of roof, existing hot water system and geographic location. The typical installation costs for evacuated tube systems will cost £3,500 - £5,000.

Our solar hot water systems come with a 10-year warranty and require very little maintenance. A yearly check by the householder and a more detailed check by us every 3-5 years should be sufficient.

Are there grants available?

There are a number of conditions you must meet in order to be eligible for a Low Carbon Buildings Programme grant. Full details can be found at www.lowcarbonbuildings.org.uk