

# *Pembrokeshire South East Energy Group*

## *Solar Water Heating- Case Study*

### **Using the power of the sun to provide hot water**

The UK Government's Department of Energy and Climate Change (DECC) makes key policy decisions and energy regulator Ofgem E-Serve administers the scheme. Policy documents can be found on the [UK Government](#) website. The eligibility requirements and rules of the scheme are on [Ofgem's website](#).

For easily accessible, up-to-date and understandable information visit the Energy Saving Trust website:-

**[www.energysavingtrust.org.uk/domestic/solar-water-heating](http://www.energysavingtrust.org.uk/domestic/solar-water-heating)**

Ideally install on a south-facing roof with no shading from trees or adjoining property.

### **Case Study**

2 Grant Solar OEMs with a total gross surface area of 4.68m<sup>2</sup> were installed on a south facing roof on 12<sup>th</sup> February 2010.

This gives an Installed Collector Power of 3.28 kWh.

Rating: 3.28 kWh  
Cost: £4,000

Projected solar contribution to domestic heating energy supply  
1,481.18 kWh per year

Actual from 12<sup>th</sup> February 2010 to 12<sup>th</sup> February 2011: 1,838 kWh

From April until October the gas water heating was switched off (apart from a very few 20 minutes periods following a rainy day).

Gas used from 30<sup>th</sup> March 2009 to 28<sup>th</sup> September 2009 2,477 kWh

Gas used from 29<sup>th</sup> March 2010 to 27<sup>th</sup> September 2010 666 kWh (mainly for gas hob).