



**Home owner  
bring renewable  
electricity  
supplies to 19<sup>th</sup>  
Century cottage**

**With the Feed-in Tariff launch in April 2010, Mrs. Flint was quick to realise that the returns from investing in a solar photovoltaic system were better than a high-interest bank account or ISA's.**

The cottage was built during the 1800's and has had considerable renovation and upgrading since it was first constructed. There are energy-saving measures used throughout the cottage, so topping-off with solar really was a logical choice for the homeowner.

Dawsetway's Renewable Energy Department proved itself by finding the ideal solution for the installation to proceed, discussing the works regularly with the customer. Once the works began the complete installation took less than a day.



### Installation Summary

<b>Installed</b>	April 2010
<b>Install time</b>	1 day
<b>Sited</b>	On Roof
<b>PV panel</b>	Topsolar 175p
<b>No. of panels</b>	10
<b>Total kWp</b>	1.75kWp
<b>Estimated kWh</b>	1,459kWhpa
<b>Annual benefit*</b>	£844.04

Having carried out a site-survey, Dawsetway designed a system that complies with the best-practice guidelines, and adhered to the Microgeneration Certification Scheme (MCS) standards.

The early 1800's end-terrace family cottage already has some energy-saving measures installed, such as loft insulation, low-energy lightbulbs and timeswitches, so adding a PV system was a logical choice for Mrs. Flint.

Mrs. Flint commented, "The feed-in-tariff really made having a photovoltaic system a simple decision. The financial returns should be a lot better than I would get by having the money sitting in my bank-account."

The 1.75kWp PV array faces South and will generate an estimated 1,459kWh of electricity per year which translates to £219 of saving from the purchase of electricity, and will benefit an estimated total of £15,064 over 25 years from the Feed-in Tariff. The building will also save 829kg of CO<sub>2</sub> and earn an estimated £23 per annum from the export of electricity. The total estimated benefit over 25 years is expected to be in excess of £21,100



\*Annual benefit is an estimate based on the FiT rates in place in July 2012 and an average rate of 15p per kWh charged by the energy supplier

The performance of a PV system is impossible to predict with certainty due to the variability in the amount of sunlight in different locations of the UK from year to year. This is index linked and assumes that 50% of electricity is generated by the PV array and 50% is exported back to the grid.

This estimate is founded upon the Government's standard assessment procedure for energy rating of buildings (SAP) and is given as guidance only. It should not be considered as a guarantee of performance. The latest FiT rates are available on the Department of Energy and Climate Change (DECC) website – [www.decc.gov.uk](http://www.decc.gov.uk)



Dawsetway Heating & Renewables Ltd  
Unit 9, The I O Centre, Skeffington Street,  
Woolwich, SE18 6SR

Tel: 020 8312 7700 Fax: 020 8312 7701  
[www.dawsetway.co.uk](http://www.dawsetway.co.uk)

