

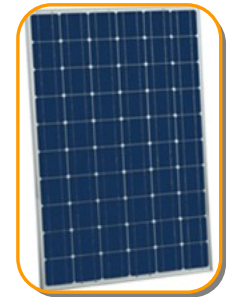


CASE STUDY - DOMESTIC PV (Photovoltaics)

Filsol Solar Ltd were approached by Mr H of Bridgend, South Wales to undertake the design, supply and installation of a domestic pv (photovoltaic) system on his domestic property. The specified system resulted in an output of 1.88kWp and comprises of 8 no. Sharp monocrystalline panels and a compatible SMA Sunnyboy 1700 inverter.

Following the initial enquiry at our head office, Mr H was contacted verbally to discuss the requirements and potential suitability of such an installation. As both Filsol and Mr H were happy of the suitability of the project, a survey was arranged and carried out at the property. During the survey stage the information was gathered and formulated for future reference which enabled the system design to take place. This included establishing measurements and available suitable roof space (i.e. Shading levels, pitch, orientation) for the panel mounting. The proposed location of the inverter and control system, the estimated cable runs and if issues with location, scaffold were envisaged. Following this process the data was collated at our commercial office and a formal quotation was prepared.

The system was installed in less than 48hrs and was supplied with a performance warranty on the panels of 25 years, 5 years on the inverter and a 2 years parts and labour guarantee. As Filsol are fully accredited under the MCS, this system has now been fully registered to receive FIT and export tariff payments via Mr H's electricity provider.



Based on the Feed In Tariff incentive available and the system size installed Mr H has begun to receive the maximum 41.3p/kWh. It was estimated that this system could achieve a potential array output of over 1,600kWh. An estimated 50% of this output will be sold back to the national grid (currently at 3p) and 50% to serve as the avoided costs (estimated at 13p) that would not be spent on the current electricity bill.



System Installed & Commissioned Cost:	£9,660.01
Estimated 25yr combined income and savings:	£28,661.64
Estimated System Payback Period:	10 years

Project Overview:

Client: Mr H, Bridgend, South Wales

Project: Pitched roof mounted domestic PV (Photovoltaic) system.

System: 1.88kWp system (incorporating 8 x 235Wp Sharp monocrystalline panels & SMA inverter).

If you would like to arrange a free no obligation survey or discuss how solar pv can benefit you, please contact Filsol direct on: 01269 860229 or email enquiries@filsol.co.uk

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