

# Solar Power

## Case Study

### Domestic Solar Panel Installation

3 Millwell Park, Innerleithen, Scottish Borders



#### Project Overview

The householder was keen to install solar PV panels to provide some resilience against rising electricity prices and to benefit from the feed-in tariff (FIT) payments available. He was however concerned that the orientation of the available roof space on his property was not ideal for optimum yield and therefore the financial return may not justify the investment. SAC Consulting provided the following services.



#### Services Provided

- Structural suitability of roof was established
- Demand profile of the house was estimated
- A suitable scale and layout of PV installation was proposed taking account of connection constraints and available FITs
- A detailed yield estimate was made taking account of the geographical location, orientation, pitch of the roof and horizon profile
- Financial return was estimated based on FIT payments and potential energy savings
- Estimates were obtained from suitable installers
- A 4 kWp system was installed in December 2011

*Leading the way in Agriculture and Rural Research, Education and Consulting*

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#### Outcome

After one full year of trouble free operation the actual yield from the system has been recorded at 104% of the estimated figure. Financial return is also marginally ahead of the predicted

*“SAC Consulting’s yield and payback estimate has proved to be much more accurate than many of the “optimistic” estimates received from PV sales companies.” Mr J Campbell*