

Residential

A sympathetic solar roof by Next Generation Renewable Energy

Solar powered roof

In a picturesque Oxfordshire village this pleasant property was being fully restored by a local builder. They employed the GB-Sol accredited Installer Next Generation Renewable Energy (NGRE) to provide a Photovoltaic system as part of the rebuild of the old garage roof.

Greg Bishop of NGRE proposed the GB-Sol RIS (roof integrated system) as it provided an aesthetic compliment to the traditional recycled slate roof that surrounded the array. He commented that "This provided a sympathetic, acceptable appearance that fitted in well with the lovely village surroundings".

The BRE tested RIS system occupies a significant amount of the roof so saving the cost of slates that the array replaced.

The system is connected to the grid so providing the owner with a Feed in Tariff that will provide an attractive return on the investment as well as a low carbon footprint.



GB-Sol equipment used

GB-Sol panels – These are the very lowest carbon footprint panels, giving a positive tolerance above 125Wp output in peak sunlight. The output is warranted for 25 years. These laminates have the highest environmental protection.

Mounting system – GB-Sol roof integrated 'RIS' mounting rails and cap strips are extruded in South Wales using Welsh recycled aluminum. Engineered to be robust, long lasting, and fitted to the roof structure, the system is assembled on site from pre-configured components so only minor site work is required. It's lightweight construction means that it causes less load on the battens than the tiles or slates that it replaces.

System Design – Each kit was specified from matched components by GB-Sol design engineers to suit each roof aspect, and to fulfill NGRE's design brief. The system is complete with edge flashings so the overlaying perimeter slate tiles complete the weatherproofing of the roof. All components were cut and drilled in the GB-Sol factory allowing a quick and accurate installation on site.

Case Study 1203 NGS RIS

GB-Sol – low cost PV panels, bespoke PV panels, mounting systems and PV accessories