



SOL₂O
GREEN BUILDING SOLUTIONS

Solar Photovoltaic Berwick

Client Galliford Try/Four Housing Group

Contract Value £136,000

The Brief

SOL2O were tasked with designing and fitting solar photovoltaic systems to 21 social housing units, bringing them up to level 4 in the code for sustainable homes.

The Solution

Over a period of approximately one week SOL2O installed solar photovoltaic panels to the roof of the new build properties, a breakdown of works is shown below:

- Day 1: Roof of property is erected and SOL2O fit the PV panel mounting brackets onto the timber roof frame and the roofing contractor completes the roof structure, cutting the roof tiles around the PV brackets.
- Day 2: The solar photovoltaic panels are mounted to the previously installed brackets, a DC isolator is installed into the loft of the property and all wiring is connected.
- Day 3: Power to the property is activated, and all equipment is tested and conditioned.

Each property is being installed with a 9 panel solar photovoltaic array which is configured to output 1.66 kWp.

Utilising the Feed In Tariff (FIT), each of these properties is expected to generate a total yearly return of approximately £500.

The Result

The social housing units are now fitted with a fully MCS accredited solar photovoltaic array that can make use of the FIT, this will enable each of the 1.66 kWp systems to pay for themselves in approximately thirteen years.

In addition to this, all work conducted by SOL2O is under warranty for a period of 6 years alongside a manufacturers warranty of 5 years and a further 12 year guarantee that the panels will perform to 90% of their output capacity and a guarantee for the panels to output up to 80% of their capacity for 25 years.