



SOL₂O
GREEN BUILDING SOLUTIONS

PV Install - Phoenix House

Client Norham Holdings Ltd

Contract Value £36,000

The Brief

To Design and install a 70m² Photovoltaic system onto the roof of the property to lower their carbon footprint, generate a percentage of the buildings electricity and allow them to benefit from the Feed in Tariff (FIT)

The Solution

Over a time frame of one week, SOL₂O installed a 70m² photovoltaic array onto the west-facing roof of the Norham Holdings property - Phoenix House;

Day 1: Installation of roof mounting frames

Day 2 & 3: Installing PV modules onto the roof

Day 4: Installation of cabling, inverter and OFGEM meter

Day 5: Final connections and commissioning

The system comprises of 54 photovoltaic modules at 185w per module, which will produce around 10 kilowatts at peak (kWp) capacity and is forecast to generate approximately 8,000 Kilowatt hours (kWh) of electricity per year.

With current Feed In Tariff set at 36.1p per kWh generated the system has the potential to generate up to £2,900 of revenue per year and will save £720 on the buildings current electricity bills.

The manufacturers give a performance guarantee for the photovoltaic modules of 90% efficiency after 10 years and 80% efficiency after 25 years. Alongside the manufacturers warranty SOL₂O also offer a 6 year labour warranty backed up by the NICEIC.

The Result

The Photovoltaic system has saved Norham Holdings an approximate total of £3620 per annum and is estimated to cover 21% of the buildings annual electricity cost.

The system will have a pay back period of 10 years and furthermore is forecast to save over four and a half tonnes of CO₂ per year, and reduce the buildings carbon footprint.