

Catch some rays

Combined 3.96 kWh Solar PV and Solar Thermal Installation, Longnor, Staffordshire.



Combined 3.96 kWh Solar PV and Solar Thermal Installation, Longnor, Staffordshire.



The installed Solar PV system.

Homeco Energy was approached in March 2010 about helping to overhaul a large property in the Staffordshire village of Longnor.

The client had been recommended through the Sheffield Energy Centre Representative, Nick Parsons to speak to Homeco about how we could help.

After many months of liaising with the Peak Park Planning Authorities, Homeco was able to fix both the Solar Thermal and Solar PV installations. The Solar PV installation involved a complete overhaul of the main outbuilding.

We not only stripped the roof back, but re built and strengthened it internally in order for it to meet the increased wind and weight loads it would now be put under.

By Christmas 2010, the Solar PV Installation was complete. In April 2011, Homeco Energy was back at Longnor, to complete the project by installing the Solar Thermal system.

Having had to wait for the relevant permissions from the Bat Protection Society we were able to carry out the necessary work within the attic space.

Homeco helped to design and configure the Solar Thermal system to work in conjunction with the newly installed Ground Source Heat Pump. Both systems supplied heat to a newly installed 300 litre triple coil cylinder located within the separate garage.

49 Wollaton Road, Bradway, Sheffield S17 4LF
0114 2935019

homecoenergy.co.uk info@homecoenergy.co.uk

**Homeco**
energy

Catch some rays

Combined 3.96 kWh Solar PV and Solar Thermal Installation, Longnor, Staffordshire.



The pipe work for the Solar Thermal system needed to be run from the main loft space to a separate garage located away from the house.



The newly installed insulated solar thermal pipe work within the plastic downpipe.

In order to connect the panel to the cylinder we had to run the solar pipe down the outside of the property in its own insulated pipe work and then within an underground pipe within a recently dug trench.

The chart shows the expected electricity generation of this system and the income that is produced by the feed in tariff. Note also that an electricity saving is made since the client no longer has to pay for the amount of electricity that his system produces.

System Size	3.96kWh
Annual Generation kWh	3,301
Expected Electricity Saving @ 12 pence per kilowatt*	£198
Feed In Tariff Income @ 43.3 pence per kilowatt	£1,429
Year 1 Income and Savings	£1,679
Year 5 Income and Savings - cumulative *	£8,959
Year 10 Income and Savings - cumulative *	£19,472
Year 25 Income and Savings - cumulative *	£63,458
Expected Pay Back time for this project	7 yrs 8 mths

* Based upon expected 50% usage of total electricity generated.

** The feed in tariff is guaranteed for 25 years and is index linked and therefore rises each year. We have taken a 3% inflation figure for this illustration.

49 Wollaton Road, Bradway, Sheffield S17 4LF
0114 2935019

homecoenergy.co.uk info@homecoenergy.co.uk

**Homeeco**
energy