

CASE STUDY

# ECO BARN CONVERSION

**LOCATION:**  
Cheshire

**SYSTEM SIZE:**  
6.5 kW

**COMPONENTS:**  
20 x panels  
2 x batteries

**ANNUAL CO2 SAVINGS:**  
2700 kg



The owners of this old piggery have taken a blank canvas and turned it into 'the house they always wanted'.

Reducing their environmental footprint was an important motivation behind the build. Cactus Energy was delighted to provide a solution, including all structural surveys, design, planning and equipment.

The 4-bedroom bungalow features 20 x 310 W in-roof solar panels and 2 x 2.4 kW batteries to give its inhabitants greater control over their energy storage and usage. A ground-source heat pump also provides renewable heating.

Further down the line, the owners hope to integrate an electric vehicle chargepoint with their solar panel system in order to deliver free, clean fuel to their car!

The system will generate 5770 kWh electricity annually, saving the owners over £800 on their energy bills and offsetting 2708 kg of CO2 per year. That's equivalent to planting 3.5 acres of forest every year!

Owner Philip Horne commented:

**"After contacting 5 different companies for quotes, Cactus Energy were the most informative and easiest to work with. They offered competitive prices without compromising on quality. Tom is always available to talk and provides an excellent level of service. I wouldn't hesitate to recommend them for any renewable energy projects."**

