

# CASE STUDY:

## Alistair Fleming Design Ltd.



BHESCo teamed up with Alistair Fleming Design, an award-winning kitchen designer and manufacturer, to reduce the energy costs and environmental footprint of their workshop and high street showroom based in Lewes.

### The Site

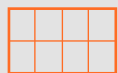
The workshop is a converted barn consisting of uninsulated walls and a corrugated iron roof. Heating had been provided by a biomass boiler which was removed. The high street shop is made of solid brick and had no radiators on site when the property was acquired.

### BHESCo Recommendations

To meet the heating requirements of the workshop BHESCo installed an air conditioning system which can be used to heat the warehouse in winter as well as cooling it in summer. The system is part-powered by a 28kW rooftop solar PV array.

Identifying the best heat solution for the showroom was challenging as the show cabinetry prohibited the installation of radiators at the periphery of the rooms. To resolve this, BHESCo recommended installing a series of fan convector heaters which are powered by a Sunamp thermal energy storage unit. Sunamp is a new super-compact electric heating technology that can deliver highly responsive space heating with superb efficiency and proven savings of up to 75% on utility bills.

### Technology Installed



28 kW solar PV



7 x air conditioning units



79 LED lights



3 x fan convector heaters



4 x Sunamp heat batteries



Heat zone controls

### Lifetime Savings

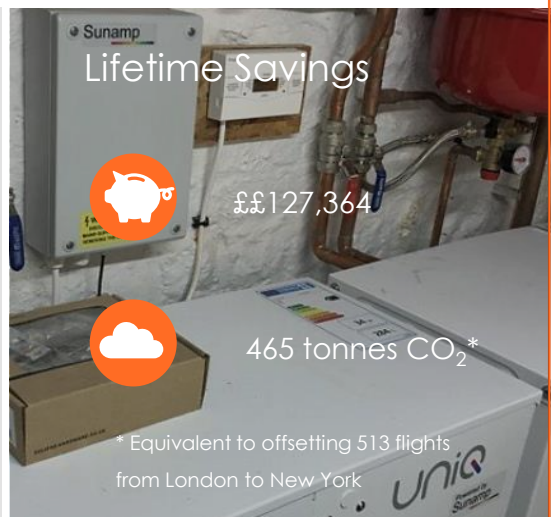


££127,364



465 tonnes CO<sub>2</sub>\*

\* Equivalent to offsetting 513 flights from London to New York



A more detailed version of this case study is available on the [BHESCo website](https://www.bhesco.co.uk)

## Delivering improvements at no upfront cost through BHESCo's 'Pay As You Save' finance initiative

The energy efficiency and energy generating technologies will deliver immediate cost savings to the school. A portion of these savings is then used to repay the cost of the project to BHESCo on a monthly basis, plus 5% interest paid to our shareholders annually for funding the project.

Over the finance term, the upfront cost is repaid in its entirety to BHESCo, and the school becomes the owner of the equipment able to enjoy 100% of the savings for its remaining operational lifetime,

"We partnered with BHESCo for this project and were very impressed by their knowledge and expertise. BHESCo took the time to understand our energy needs and delivered on what they promised".

**Alistair Fleming,**  
Business Owner



## Delivering greater financial benefit by capitalising on government subsidy support mechanisms

The combination of energy generating and energy efficiency measures that were installed for this project will enable Alistair Fleming Design Ltd to enjoy a significant reduction in their annual energy costs, while also dramatically reducing their carbon emissions.

One of the key factors which made this community energy project so economically appealing was its eligibility for both the solar power 'Feed-In-Tariff' and the 'Export Tariff'.

Get BHESCo working to reduce your energy costs  
and environmental impact today