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# Save up to 65% on heating your warehouse

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**Global Energy Systems design and manufacture air source heat pumps in the UK. Air source heat pumps are a renewable, cost effective and an efficient way of heating. Air source heat pumps can fully replace a gas boiler, LPG, Oil, Electric or other forms of heating and can save up to 65% on your current heating bills.**



Global Energy Systems' air source heat pumps are commercially used throughout the UK, and the following is a case study on the savings that they can offer, as the Air source heat pump heats Helical Technologies' warehouse and they have huge savings on their heating bill as a result.

## Key Features

- Warehouse/production building
- 3500 sq m floor area
- Fan mounted ceiling convectors
- Estimated annual running costs £14,311
- Potential savings, including RHI: £17,756pa
- Simple and cost effective integration into existing heating systems
- Zero Carbon emissions on site
- Compatible with solar PV



Alistair Morris Managing Director of Helical Technology Commented as follows: “We had purchased the new 3500 sq meter facility in 2012 and the gas warm air heating system had been condemned and a new heating system had to be purchased. The cost was going to be £60,000 to replace the gas heaters which would have left us with no savings on yearly heating bills so we looked into the possibilities of renewable heating. The Global Energy Systems air source heat pump looked a good alternative as it costs the same as the gas heaters but gave us a huge saving advantage on a yearly heating basis, and the pay-back on the initial capital outlay for the equipment and installation was going to be four to five years. We had also initially looked into biomass and ground source heat pumps however these did not look viable options due to the high cost. Global Energy Systems was the only company which had a bespoke 100kW air source heat pump which was large enough to heat our warehouse with no back up. To date the heat pump has been extremely efficient and a steady air temperature has been maintained throughout the winter months”.

The warehouse has been operational through the winter of 2014/15 whilst being heated by the air source heat pump.

The target is to hold the internal space at a working temperature of 19 deg C rather than office temperatures. This is done through the use of ceiling mounted fan convectors which both deliver the heat and destratify the air. Through the winter months with outside air temperatures as low as -6 deg C, internal building temperatures of 19 deg C have been held. The systems are however designed to work efficiently even with outside air temperatures as low as -20 deg C.

The estimate for annual heat pump costs is approximately £14,000 pa. Data suggests these costs are correct with no supplementary gas heating used despite periods of freezing weather.

When running costs, potential RHI payments of £11,353 and Climate Change Levy charges are taken into account annual savings of nearly £18,000 are anticipated.