



## *Tomorrow's Technology Today*

**Discover our range of Air Source Heat Pumps  
for your next project**



MADE IN BRITAIN



*Global Energy*  
Systems

# Welcome to Global Energy Systems: We Design, Manufacture and Install Air Source Heat Pumps

Our systems are designed to suit a wide range of projects, from factories to hotels to swimming pools and agricultural sites.



All of our  
heat pumps  
are designed  
or built here  
in the UK



Reduce  
Carbon  
Emissions

BY UP TO

60%

## Key Benefits

- Single unit solutions up to 100Kw
- Remote monitoring and optimisation service
- Online emissions and costs tracking
- Bespoke software for multi-fuel systems
- Integrate with existing heating systems
- Zero emissions on site



## CPD Certification

At Global Energy Systems, we are members of the CPD Certification Service. This enables us to train in aspects of energy and ensure that we can give you the highest standard of service and advice.



## Some of the sectors we currently work in



### Industrial

Air source heat pumps are ideal for office premises, business parks, commercial enterprises, factories, and many more.

Heating commercial premises with a heat pump can significantly reduce heating costs and increase your organisation's green credentials. The low level constant heat will also create a better working environment for employees.



### Communal Heating

District heating, also known as community or communal heating, is a system which delivers communal heating for a number of self contained properties using one main system. Communal heating is suitable for networks of all sizes, whether you're a developer of housing, commercial or mixed-use developments, Global Energy Systems can tailor our systems to your needs.



### Education

Air source heat pumps can provide heating and hot water whatever the size, style or age of the property. Our systems will significantly reduce heating bills as well as improving the overall environment. Something worth considering when you think that, as an example, heating and hot water accounts for around 75% of energy usage in schools. Maximising revenue and reducing costs is essential within any public sector organisation. By installing a heat pump system, you will qualify for the Non-Domestic Renewable Heat Incentive (RHI). This will provide payments for 20 years on a quarterly basis.



### Agricultural

Air source heat pumps are ideal for farm and industrial businesses.

They can significantly reduce heating costs, generate a new income stream and cut your carbon footprint. They are ideal for providing heating for everything from farm houses to animal houses, and warehouses to greenhouses.



### Hospitality and Leisure

Air Source Heat pumps generate plenty of hot water as it is required, meeting the demands of busy buildings which are often constantly in use, this makes a heat pump ideal for businesses such as cafes, restaurants, leisure centres and many more.

## Our Product Range



### 18Kw Winchester

- Designed for UK climate down to -2 0°
- High mounted evaporator to prevent cold air recirculation
- British designed and built
- Ideal for existing heating systems
- Eligible for government grants
- Works with underfloor heating and radiators

### 70Kw Lincoln

- Air Source heat pump for large scale commercial use
- Specifically designed for UK climate
- Suitable for wet systems, pools or pre-heat



### 18Kw Caernarfon

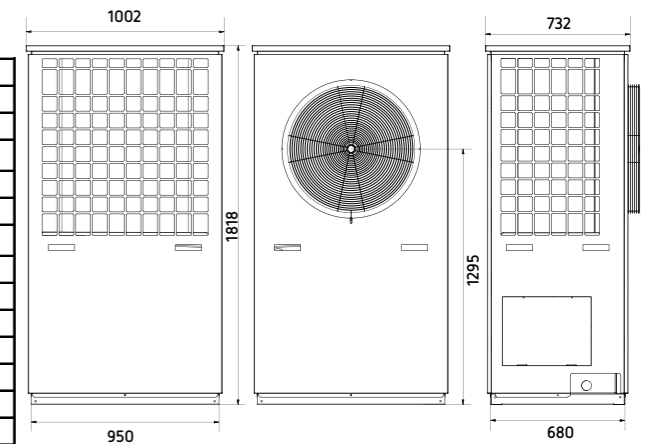
- Designed for UK climate down to -20°
- High mounted evaporator to prevent cold air recirculation
- British designed and built
- Ideal for existing heating systems
- Eligible for government grants



## Datasheet Caernarfon

### Air Source Heat pump

|  |                                       |      |
|--|---------------------------------------|------|
| Product Name                                     | Caernarfon                            |      |
| Product Number                                   | CAER410MOD1                           |      |
| Heat Pump Space Heater - 55°C                    | ErP Rating                            | A++  |
|  | SSHEE <sup>*2</sup> (η <sub>s</sub> ) | 127% |
|  | SCOP                                  | 3.26 |
| Heat Pump Space Heater - 35°C                    | ErP Rating                            | A++  |
|  | SSHEE <sup>*2</sup> (η <sub>s</sub> ) | 162% |
|  | SCOP                                  | 4.11 |
| Heating (Air -3°C/ Water 35°C)                   | Rated Output (kW)                     | 13.7 |
|  | Power Consumption (kW)                | 4.6  |
|  | COP                                   | 3.0  |
| Maximum Outlet Temperature (°C)                  | 65                                    |      |
| Weight (kg)                                      | 230                                   |      |
| Heat Pump Voltage / Frequency                    | 230V AC / 50Hz                        |      |
| Max Running Current (A) Compressor / Booster     | 34 / 27                               |      |
| Max Electrical Power (kW) Compressor / Booster   | 8.2 / 6.1                             |      |
| Sound Pressure Level @ 1m (dba) * <sup>1,3</sup> | 54                                    |      |
| Operating Ambient Temperature (°C)               | -20 / +30                             |      |
| Maximum Starting Current (A)                     | 14.3                                  |      |



| Model      | H    | W    | D   |
|------------|------|------|-----|
| Caernarfon | 1818 | 1002 | 732 |

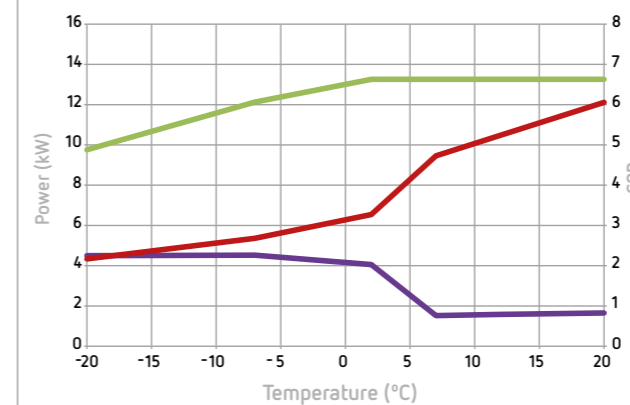
All sizes in mm

\*1 - Tested at Outdoor temp 7deg.C DB/ 6deg.C WB, Inlet / Outlet water temp 30/35deg.C as per BS EN 14511.

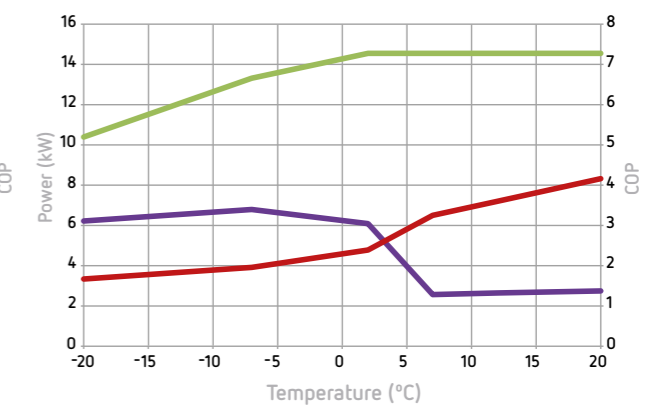
\*2 - Seasonal Space Heating Energy Efficiency

\*3 - Sound power level is 61.5dBA as tested to BS EN 12102

Caernarfon Performance at 35°C Outlet Temperature



Caernarfon Performance at 55°C Outlet Temperature



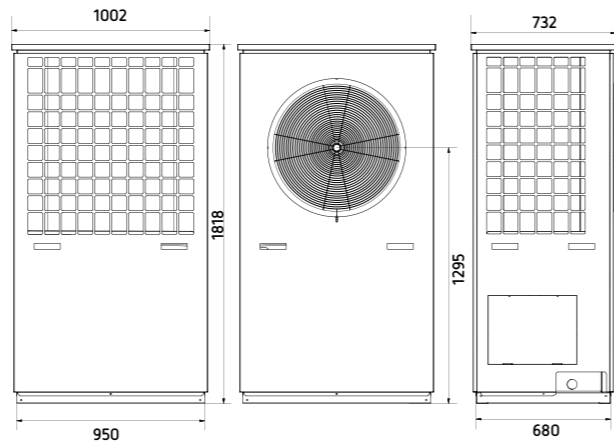
— Power Output (kW) — Power Input (kW) — COP



# Datasheet Winchester

## Air Source Heat pump

|  |                                       |      |
|--|---------------------------------------|------|
| Product Name                                   | Winchester                            |      |
| Product Number                                 | WIN410MOD1                            |      |
| Heat Pump Space Heater - 55°C                  | ErP Rating                            | A++  |
|  | SSHEE* <sup>2</sup> (η <sub>s</sub> ) | 127% |
| Heat Pump Space Heater - 35°C                  | ErP Rating                            | A++  |
|  | SSHEE* <sup>2</sup> (η <sub>s</sub> ) | 162% |
| Heating (Air -3°C/ Water 35°C)                 | Rated Output (kW)                     | 13.7 |
|  | Power Consumption (kW)                | 4.6  |
| Maximum Outlet Temperature (°C)                | SCOP                                  | 3.0  |
|  | COP                                   | 3.0  |
| Weight (kg)                                    | 230                                   |      |
| Heat Pump Voltage / Frequency                  | 3/PE 400V AC 50Hz                     |      |
| Max Running Current (A) Compressor / Booster   | 11 / 27                               |      |
| Max Electrical Power (kW) Compressor / Booster | 8.2 / 6.1                             |      |
| Sound Pressure Level @ 1m (dba) * <sup>3</sup> | 54                                    |      |
| Operating Ambient Temperature (°C)             | -20 / +30                             |      |
| Maximum Starting Current (A)                   | 5                                     |      |



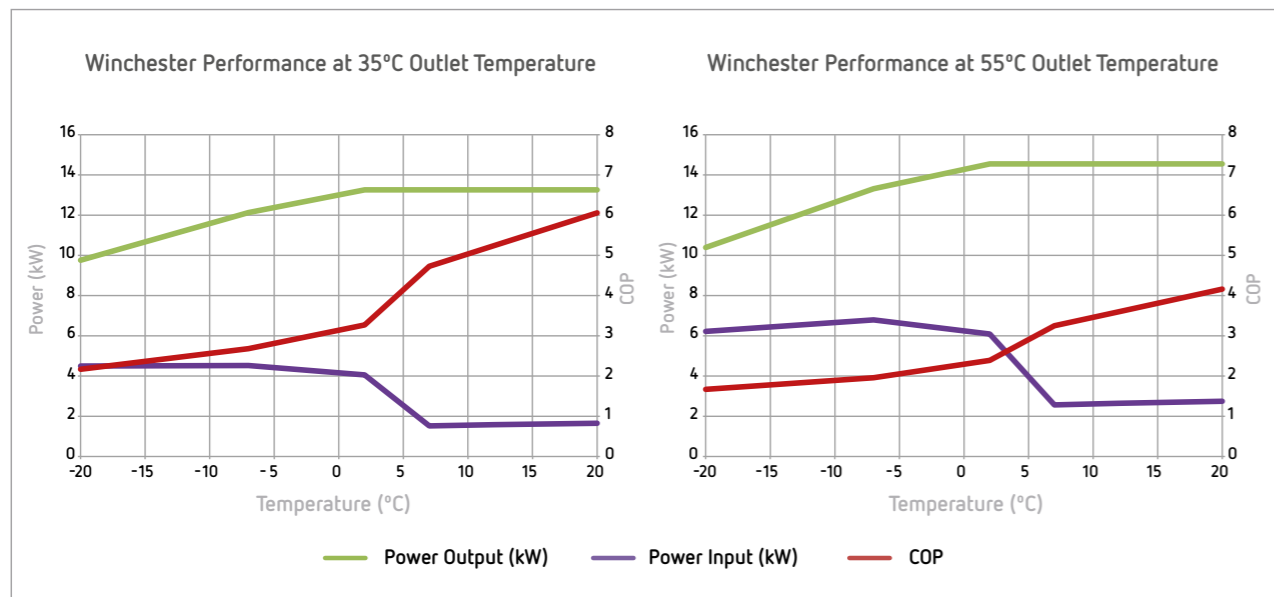
| Model      | H    | W    | D   |
|------------|------|------|-----|
| Winchester | 1818 | 1002 | 732 |

All sizes in mm

\*1 - Tested at Outdoor temp 7deg.C DB/ 6deg.C WB, Inlet / Outlet water temp 30/35deg.C as per BS EN 14511.

\*2 - Seasonal Space Heating Energy Efficiency

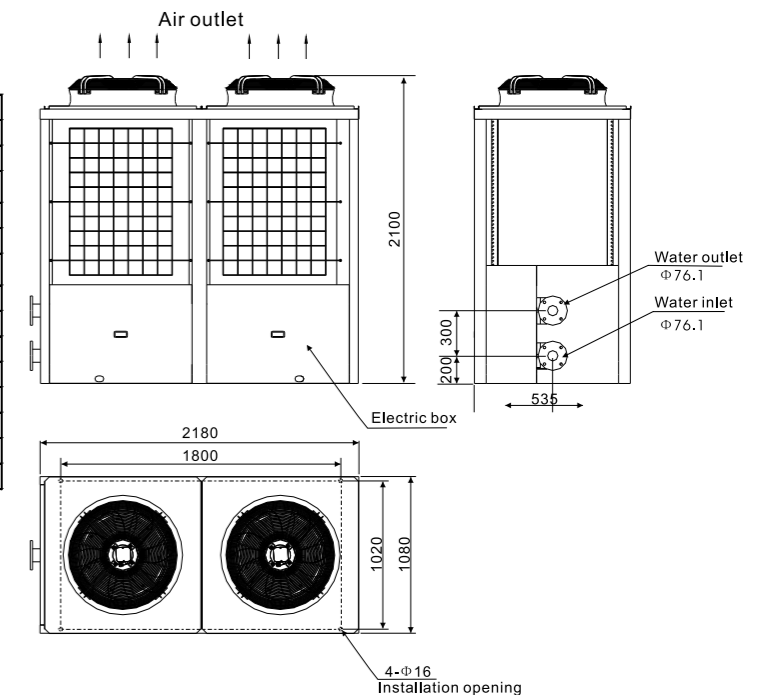
\*3 - Sound power level is 61.5dba as tested to BS EN 12102



# Datasheet Lincoln

## Air Source Heat pump

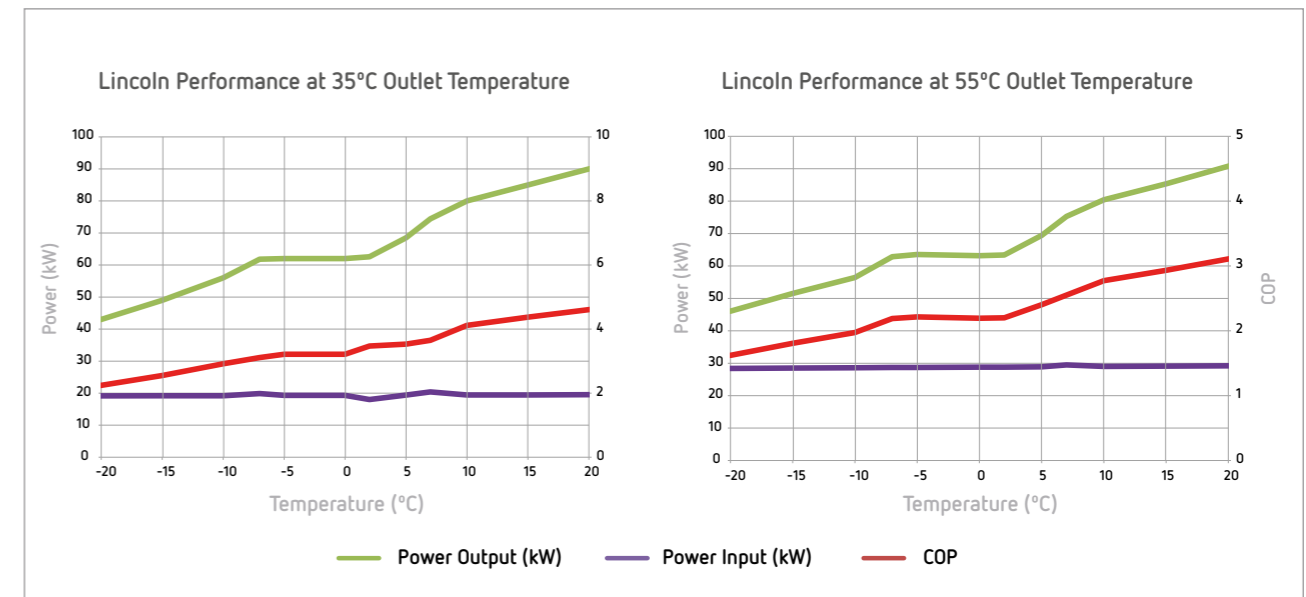
|  |                                       |      |
|--|---------------------------------------|------|
| Product Name                                   | Lincoln                               |      |
| Product Number                                 | LCNR410MOD1                           |      |
| Heat Pump Space Heater - 55 °C                 | ErP Rating                            | A+   |
|  | SSHEE* <sup>1</sup> (η <sub>s</sub> ) | 114% |
| Heat Pump Space Heater - 35 °C                 | ErP Rating                            | A+   |
|  | SSHEE* <sup>1</sup> (η <sub>s</sub> ) | 138% |
| Maximum Outlet Temperature (°C)                | SCOP                                  | 2.92 |
|  | COP                                   | 3.51 |
| Weight (kg)                                    | 900                                   |      |
| Heat Pump Voltage / Frequency                  | 415V AC 3N / 50Hz                     |      |
| Max Running Current (A) Compressor / Booster   | 74                                    |      |
| Max Electrical Power (kW) Compressor / Booster | 41.5                                  |      |
| Sound Pressure Level @ 1m (dba)                | 73                                    |      |
| Operating Ambient Temperature (°C)             | -20 / +35                             |      |



| Model   | H    | W    | D    |
|---------|------|------|------|
| Lincoln | 2100 | 2180 | 1080 |

All sizes in mm

\*1 - Seasonal Space Heating Energy Efficiency



## Case Study



**Saving  
£10,207\***

with a 2.9 year  
payback

\*Estimated

### Talacre Beach Swimming Pool

The owners of this holiday home park were interested in reducing the amount spent on oil to heat the large swimming pool.

After a site survey Global Energy Systems predicted that alongside the oil boiler, 2x Caernarfon heat pumps would largely reduce oil costs to heat the swimming pool all year round.

As well as being accredited onto the Non-domestic RHI scheme the holiday home is benefiting from extra savings Predicted savings of £10,207 with a 2.9 year payback.

## Case Study



**Saving  
£4,924\***  
per year

\*Estimated

### King George Hotel

Situated in the Lake District and a popular hotel for walkers to stay over, the owner wanted to ensure that he had constant hot water for his guests as well as heating. We integrated 1x Caernarfon to work alongside the oil boiler.

This installation is accredited to the government grant and has annual savings of £4,924.

Please Note: Non-Domestic Renewable Heat Incentive has now closed to new applicants.

## Case Study



### New Build Development

Whilst developing 12 luxury new build homes, the developer wanted to offer the potential clients a renewable energy heating system which would be more cost efficient long term and environmentally friendly. Each of the large houses has 1x Caernarfon Air Source Heat Pump installed which provides heat to Under floor heating and provides all the domestic hot water needs.

Running costs are estimated to be much lower than alternatives such as Oil. Global Energy Systems are working closely with the developer and are on hand to assist with the running of the systems thanks to the unique Eco Watch service we offer which enables us to login to each unit live, and control the system should it be needed.

## Case Study



**Saving  
£8,000\***  
per year

\*Estimated

### Delichon Ltd

This new build warehouse with built in offices are being entirely heated by 3x Caernarfon Air Source Heat Pumps.

The wet heating system consists of fan convectors in the roof space to heat the storage areas, while radiators keep the offices at temperature.

Opting for air source heat pumps over alternative fuels there is an estimated £6,000 to be saved on heating alone. This with the added benefit of the non-domestic RHI, payments of £2,500 a year for 20 years, has provided this property estimated savings over £8,000 a year.

## Case Study



**Saving  
£6,086\***  
per year

\*Estimated

### Railway Workshop

This vehicle engineering company was looking at ways to reduce the running costs of heating their workshop. Global Energy Systems determined we could heat this size of a workshop with 3x Winchester heat pumps which provide heat via 4 x fan units.

The estimated annual savings against previous running costs is £6,086 and this installation is eligible for the domestic RHI incentive which will receive payments for 20 years.



## Case Study



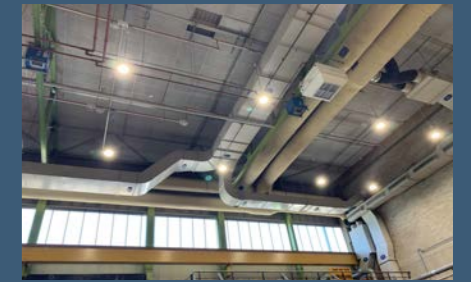
**Saving  
£13,464\***  
per year

\*Estimated

### Test Centre Facility

This commercial building which is a test centre for cars had high energy bills from heating the large space. Global Energy Systems Designed and supplied 3x Lincoln Air Source Heat Pumps to provide heating via fan convectors.

Estimated annual savings are £13,464 which include payments from the government grant.



Please Note: Non-Domestic Renewable Heat Incentive has now closed to new applicants.

## Case Study



**Saving  
£6,000\***  
per year

\*Estimated

### Agricultural

This large new build with 9 rooms came straight to Global Energy Systems to heat the pig rearing mats. The farmer has been using our Air Source Heat pumps for years on different buildings, this one being the biggest he wanted to ensure that he could save as much money on his energy costs as possible. 5x Caernarfons were installed and have been keeping the temperatures set by our Heating control strategy.

Annual savings for this install are £6,000 which includes payments from the RHI Non domestic scheme this installation is accredited to.

## Case Study



**Saving  
£7,428\***  
per year

\*Estimated

### Recreational Accommodation Centre

Heating 2 x accommodation blocks on electric night storage heaters was proving expensive for this company who wanted to reduce their running costs They looked at Air Source Heat Pumps as an alternative, Global Energy Systems installed 4 x Caernarfon Air source heat pumps (2 for each block) to provide hot water and heat through radiators.

The annual savings against previous costs are £7,428 which includes payments from the non domestic RHI which this installation is accredited onto.

## See the Savings with the Eco Link online portal



### Remote Monitoring

- ✓ Get live stats of your energy bill online
- ✓ Free 3 year subscription
- ✓ Performance monitored daily to ensure optimum use
- ✓ Control your heating from your smartphone, tablet or laptop

Remote monitoring available on selected products

## Don't just take our word for it



I chose Global Energy after researching them online as well as the model of heat pump that I wanted. The service I experienced was first class and the installer was excellent in explaining what was available to me. So far the heat pump is definitely meeting my expectations and is turning out to be excellent value for money.

**Mark Addison**

Global Energy stood out for me due to the design of their pumps. My pump is green, which looks great on the farm, and it is also designed in the UK for UK climate. It provides not only hot water but also underfloor heating, no need for a boiler inside – making it a space saver. The installer was very good and they all know what they are talking about. Afterwards they continue to look after the system and keep an eye on it from their office to check it's all working properly.

**Mark Weil**

Excellent from start to finish. Good communication and help when needed. Planning, delivery and installation all went as promised and all the teams were polite, considerate and hardworking. Plenty of hot water all the time - heating as needed and no need to worry about the cost or the availability of oil.

**Pam Johnson**

I chose Global Energy Systems to install my ASHP because they were efficient, British and I had confidence in the representative who quoted on the installation. Their customer service was excellent and the representative visited us and discussed the options available to us in full. Although our product is at the expensive end of what is available, this was made clear to us and we looked at cheaper models prior to making the decision. So far our ASHP is surpassing expectations, providing us with endless hot water and reliable heat - even in freezing temperatures!

**Tanya Williams**

Global Energy seemed to me to be the obvious choice after getting a decent quote and looking at their online reviews. They provided me with detailed advice throughout the process and made me feel at ease during and after the installation of the heat pump. So far it is proving to be excellent value for money and is certainly living up to what I expected.

**Anonymous38**

We have had our Eco boiler for four years now and we have received excellent service from Global Energy Systems. The boiler is a huge success and on the very odd occasion we have had to contact them it's always been a very personal, friendly and helpful relationship with their after sales team and we could not recommend them highly enough!

**John**

Reviews from [www.yougen.co.uk](http://www.yougen.co.uk) and TrustPilot







For more information visit: [www.globalenergysystems.co.uk](http://www.globalenergysystems.co.uk)  
or call +44 (0) 3333 444 414

