

CARBON LADDER

The route to greater energy efficiency...



Climb the ladder... to achieve greater energy efficiency

We guarantee that our carbon ladder approach will identify savings in excess of the cost or we will refund our fees

www.energyteam.co.uk

energy TEAM 
total energy management

Step 1

It is important to understand how energy efficient a business is as organisations look to manage energy costs and improve their environmental credentials.

Energy Audit

- Assess the overall energy demand and key areas of energy consumption, making use of energy analysers, data-loggers and other measuring equipment as appropriate
- Assess the energy management procedures and energy efficiency measures already implemented
- Analyse the total energy usage by area and application
- Compare current performance against external benchmarks
- Identify and assess roles and responsibilities for energy management
- Review the operation and capabilities of any 'Building Energy Management Systems'
- Analyse the potential of renewable energy opportunities and technologies such as CHP, Solar PV, Ground Source Heat Pumps and Wind
- Consider measures and new technologies that could be implemented in order to deliver cost and environmental benefits/opportunities

Step 2

Compilation and presentation of an energy management report with detailed action plan. This provides an assessment of the potential energy/carbon reductions along with details of the specific measures required for implementation providing illustrative costs.

Detailed Energy Management Report and Exploring Grants & Loans

We consider the differences in shape, size and age of the buildings across the estate and then look at what products will best fit and add value to your business.

Some of the technologies that we will investigate are as follows:

- Power Supply (Voltage Optimisation, Power Factor Correction)
- Measuring & Monitoring (Metering Solutions)
- Lighting & Lighting Controls
- Motor Speed Controls (Variable Speed Drives)
- Compressed Air
- On-site Generation
- Boiler Controls
- Air Conditioning System Filters
- Water
- We review potential funding sources, including grants and interest free loans from:
 - The Carbon Trust
 - Salix Funding
 - Climate Change Levy Agreements
 - Feed-In Tariffs
 - Renewable Heat Incentive
 - Enhanced Capital Allowances



Step 3

The main emphasis will be on implementing change to reduce energy consumption and CO₂ emissions.

Reduce Energy Consumption

Agree which energy saving measures/projects to implement that were identified within the detailed energy management report taking on board the organisations investment budget and payback ambitions.

Step 4

Measurement of energy use is fundamental to all successful energy management programmes and the following are just some of the areas that need to be reviewed regularly.

Manage Energy Consumption



Monitoring

- Assess quality of existing energy and cost data and implement improvements, where appropriate
- Implement procedures to actively monitor and control energy consumption
- On-going development of the energy management system
- Identify how much the 'Carbon Tax' from the CRC Energy Efficiency Scheme will cost the organisation in allowance costs

Reductions

- Establish feedback, fault reporting and corrective action systems
- Develop operating instructions
- Implement maintenance changes

Targets

- Compare current performance against historic data, business units, other own sites/divisions and external benchmarks
- Develop energy/carbon reduction targets
- Set targets at division/site/function levels, where appropriate
- Implement new/improved technology for building fabric, services and business processes

Training

- Engage staff with training and awareness programmes - priorities for high energy users
- Develop a low-carbon culture
- Monitor effectiveness and re-train where appropriate

Step
4

Manage Energy
Consumption

Step
3

Reduce Energy
Consumption

Step
2

Detailed Energy Management
Report and Exploring Grants
& Loans

Step
1

Energy Audit

energyTEAM can provide a simple route to energy efficiency through the introduction of an energy management process that will identify, understand and reduce energy consumption and costs.



If you would like to find out how *energyTEAM* can assist you with your energy consumption please contact us on:

+44 (0) 1444 871 311

www.energyteam.co.uk