

EDP Health Safety & Environment Consultants

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## Energy Management Services

July 2010



## ENERGY MANAGEMENT SERVICES

Our Energy Management Services are all about saving you money and saving the environment at the same time through practical cost reduction programmes.

Being independent consultants, our services are not influenced by the products or services of any other organisation. You can be confident that our solutions are the best and most appropriate for your circumstances.

### ■ Aim

From the smallest discrete project through to a major nationwide roll-out programme, our aim is always the same - to identify and agree cost saving targets and then to achieve them on behalf of you, our client.

The basic method is to identify practical means whereby you minimise energy consumption and costs, without sacrificing the benefits you currently enjoy.

### ■ Approach

We have extensive experience in a wide range of sectors and therefore we are able to work cooperatively with those who are currently responsible for your energy management. We are able to identify those areas where you can introduce efficiency savings and negotiate cost reductions.

As we work with you, our approach is to:

- Understand your existing energy usage and costs
- Identify those areas where you are able to save energy without significant impact on your business activities
- Draw up and implement energy saving improvements
- Continually monitor the savings, looking for additional opportunities and avoiding adverse influences

### ■ Results

The focus of our energy consultants is to identify savings with payback periods of 1 year or less, thereby ensuring that energy and carbon savings can be achieved within the cost constraints of most companies.



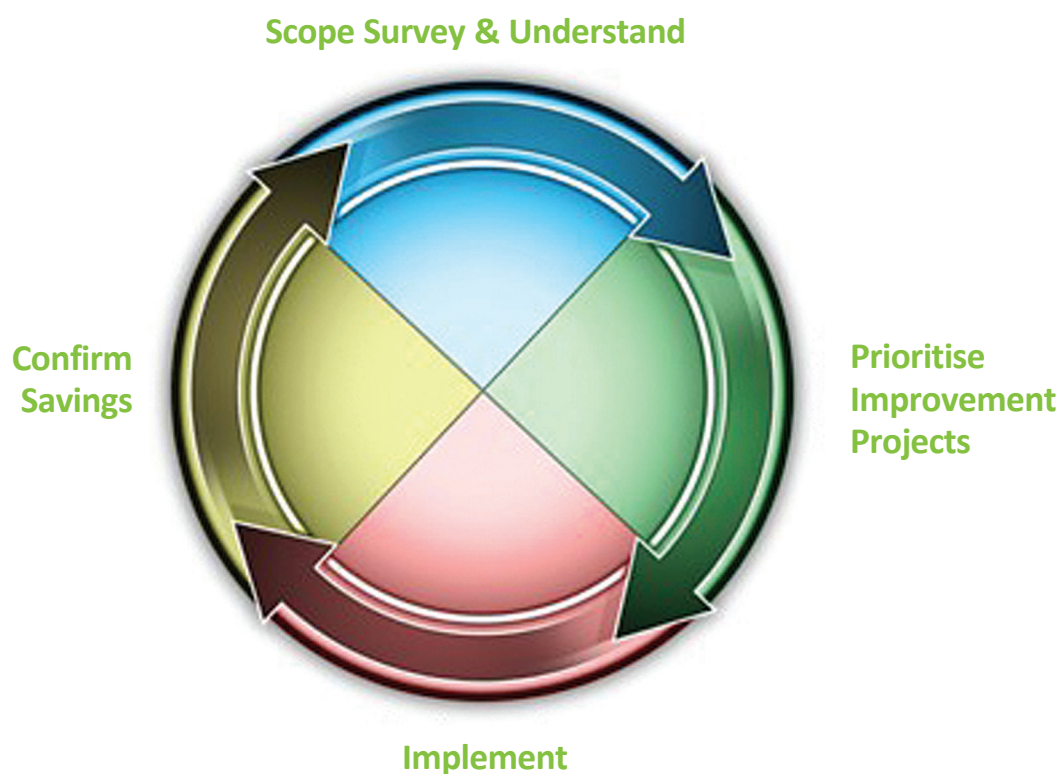
## HOW CAN WE HELP YOU ?

Whatever your energy consumption and costs at present, we genuinely believe we will be able to identify energy and cost savings.

We will be able to confirm this as a result of our initial survey when we learn the scope of your energy usage and gain an understanding of the possibilities and constraints.

In the unlikely event that your current operations are so efficient that we are unable to identify potential savings, then we will not make any charge for our initial survey.

Our approach is then represented below:



## ■ Scope, Survey & Understand

Before conducting an actual survey, we will meet with members of your senior management team to establish your current energy management arrangements and, of course, to agree the scope and constraints of what you are aiming to achieve by way of cost savings.

Following agreement at managerial level, we will conduct a survey of your site, or multiple sites in the case of distributed operations. We use energy mapping techniques to pinpoint how and where energy savings can be achieved.

The other essential element is to establish a benchmark by examining records of your past energy usage and costs.

Before progressing further, we will install an automated monitoring and targeting system that tracks energy consumption going forward. This system quantifies the savings you are achieving by implementing our advice and recommendations

## ■ Prioritise Improvement Projects

We work with your senior management team to prioritise the improvement measures we have identified during the survey of your premises.

Factors we take into account include:

- The potential benefit in terms of cost savings and impact on the environment
- The levels of investment needed up front and ongoing, which are related back to your financial provisions
- The return on your investment
- Any other factors of a less general nature such as temporary business impacts or need for education of staff

## ■ Implement

From experience, we know that we are able to implement most changes without needing to disrupt your day-to-day business operations.

In fact, apart from occasional reference to management for any additional information we may need, we rarely have to involve your staff so that they are not distracted from their core business activities.

We start with rapid payback opportunities, such as optimising existing contracts or identifying billing errors. One of the benefits of this approach is to improve your business's cash-flow and so provide much needed funds for other initiatives that may require some level of investment.

## ■ Confirm Savings

Our automated monitoring system makes it easy to plot and verify that real cost savings are being achieved with the completion of each of our recommendations.

This serves to boost your confidence in our service and is also valuable information to pass on to your employees, customers and stakeholders.

The automated system highlights any adverse factors affecting your energy usage or costs. Such factors may arise from internal changes such as introduction of new equipment, working practices, processes or staff changes.

There are also many external factors that need to be monitored such as changing energy markets and fluctuating exchange rates.

By monitoring the effects of these factors we are able to maintain improvements we have already achieved and, in many cases, realize even greater cost savings.

## THE ENERGY MANAGEMENT SERVICES WE OFFER

We do not provide a "one size fits all" solution for Energy Management. Every customer has their own energy usage profile and we offer services that are selected and tailored to suit your unique requirements. Our portfolio of services addresses every aspect of Energy Management and includes:

### ■ Carbon Reduction Commitment Health Check

All organisations whose electricity use at any site was measured through at least one half hourly meter (HHM) during calendar year 2008 will be required by law to submit data to the Environment Agency before the end of September 2010 deadline date.

Companies falling under CRC who fail to submit data on time face a maximum fine of £5,000 plus an additional £500 for each subsequent working day that an organisation fails to register up to a maximum of 80 days.

Many companies appear to be ignorant of the imminent requirement to make an information disclosure or indeed how to accurately calculate their electricity consumption for calendar year 2008. Equally, many companies who are part of a larger group of companies are uncertain as to how CRC will affect their operations and who should be submitting the relevant information to the regulator on their behalf.

EDP has therefore designed its Carbon Reduction Commitment Health Check to provide peace of mind and a clear action plan for compliance for any business potentially affected by the legislation.

### EDP's CRC Health Check includes:

- An assessment of your energy use in order to identify your potential level of participation in CRC and your requirement to make a:
  - Basic information disclosure
  - Full information disclosure
  - Full participant disclosure
- A report outlining what needs to be done within your organisation to comply with CRC via a tailored 'compliance pack guide'
- Advice as to what the 'next steps' should be and the ongoing management and financial obligations for the organisation
- Submission of the relevant information for a basic or full information disclosure to the regulator on your behalf, thereby ensuring that you comply with the relevant reporting requirements

## ■ Carbon Reduction Commitment Management Service

Our energy consultants are acting as CRC Agents for companies who find that the technical expertise we possess makes the compliance process much more straightforward and allows them to concentrate on their normal day to day business operations. Our CRC Management Service can be tailored to meet your individual company's needs but normally includes:

- An assessment of energy use across your organisation to form a view of your level of participation within CRC (i.e. information disclosure or full participation)
- Assistance with initial online client registration via the Environment Agency portal
- Formal nomination of our energy consultants as your company's 'agent' for CRC compliance
- Submission of all relevant data to Environment Agency on your company's behalf
- Strategic advice on how to minimise the cost of CRC compliance
- Advice on early action metrics including
  - Automated monitoring and targeting
  - Carbon Trust Standard (or other equivalent scheme) certification
- Establish an 'Evidence Pack' for your company as required by the CRC
- Monitor and record energy use in 2010/11 for qualification of second phase of CRC
- Submit footprint report to Environment Agency on behalf of your company by end of July each year detailing all relevant energy related emissions, exemptions under Climate Change Agreements (if applicable), major changes in organisational structure etc.
- Submit annual report to Environment Agency by end of July each year detailing CRC emissions only
- Manage the purchase and selling of allowances to cover your CRC emissions
- Provide advice on actions to be taken before March 2012 in order to ensure best league table position
- Provide advice on actions to be taken before March 2013 when first capped phase begins
- Prepare bid schedule for auctioning of allowances in April 2013 and manage purchase of allowances

## ■ Energy Surveys

Our initial energy surveys are much more than academic exercises. Our consultants draw on a wealth of engineering and commercial experience to help in identifying energy usage patterns and areas where cost effective improvements can be achieved.

Our findings are fully documented and include practical, robust energy saving proposals for consideration by your senior management. Where we are able to present alternative solutions, we also provide the pros and cons for each option, along with our professional recommendations.

We include an outline plan for implementing our recommended solutions and our proposal for undertaking the work on your behalf. Once this is approved we are then ideally positioned to implement the solutions so that you are able to realize savings in the shortest possible timescale.

## ■ Energy Project Implementation

Whether we are supporting your internal facilities team or providing turnkey projects, our energy consultants have the technical knowledge and energy market experience to ensure your projects deliver maximum savings with minimal disruption to your business.

We have extensive knowledge of which products actually deliver tangible results & have been around long enough to know when a supplier offer appears too good to be true. We therefore strive to provide the necessary information, in order for Senior Management to make informed decisions about investing in energy efficient projects.

In order to eliminate risk to our clients, we guarantee the savings on all of our projects at the point of project specification. So whether it is variable speed drives or voltage optimisation technology, we have the experience to ensure your projects are a success.

Our key strengths within this field are:

- Improvement of compressed air systems
- Improvement of space heating systems
- Optimisation of building and process heating/cooling systems
- Industrial heat recovery
- Lighting optimisation
- Whole site voltage optimisation
- Improvement of site lighting
- Optimisation of energy efficiency within production/manufacturing processes

The majority of these projects payback within 12 months on capital purchase and within a month under lease/rental agreements.

## ■ Intelligent Procurement

When it comes to buying gas or electricity, our long term relationships with the main energy providers mean we are able to negotiate highly favourable rates for our customers. We also have in-depth knowledge and understanding of the wholesale energy markets, which enables us to take into account anticipated price fluctuations when negotiating long or short term contracts.

Whether you operate a single site or have many locations across the UK, we are confident that we can obtain the most favourable prices for your circumstances over the long haul.

## ■ Climate Change Agreements

Many organisations are unclear about Climate Change Agreements (CCAs) and the Climate Change Levy (CCL). Without specialist knowledge, it can be difficult to ensure maximum benefit for your organisation and the environment whilst also keeping costs down.

The Climate Change Levy (CCL) adds an additional 6 - 8% onto your energy bills, but some energy intensive sectors are able to claim a partial rebate to offset this cost. We are able to monitor the situation on your behalf and thereby minimise the costs whilst ensuring you remain compliant. We are also able to advise your decision makers. For example, we can suggest the best combination for you when purchasing carbon credits and implementing energy saving initiatives.

## ■ Automated Monitoring & Targeting

Due to the vagaries of supplier meter reading, estimated bills and the like, it is very difficult if not impossible to base efficient energy management on supplier invoices and other manual records. This is why we have developed our own, industry-leading Automated Energy Monitoring and Targeting system.

This is a flexible system that is often able to incorporate existing meters/loggers and is designed to satisfy Government Legislation to roll out half hourly metering of energy usage and to generate formal returns (Display Energy Certificates).

We can custom fit the system to your individual requirements and then install and commission the equipment, including:

- Checking the calibration of meter points
- Setting the system for exception reporting according to agreed parameters
- Training your staff on using and maintaining the system
- By installing an efficient monitoring system you are able to:
  - Focus your resources to maximise savings
  - Tune your maintenance regime for best advantage
  - Monitor the savings from your energy management initiatives

## ■ Energy Bureau Services

Our Energy Bureau Service combines the full range of Energy Management services, which we then operate on your behalf. The benefit to you is in releasing your valuable internal resources to concentrate on your core business in the confidence that your energy management is in the hands of experienced professionals.

As competition increases between energy providers, comparing contract terms and conditions becomes ever more complex as providers vie to offer enticing innovations. We are able to cut through the complexity and variation to identify the true cost of your energy usage from all available sources.

As well as monitoring changes in your energy consumption we are constantly checking what the energy providers are doing so that we can renegotiate contracts and/or change providers to ensure your best interests are always being satisfied.

In this area, the services we provide include:

- Contract optimisation
- Validating monthly billing
- Resolving invoice queries
- Generating energy usage reports
- Notifying you of exceptional conditions that may require investigation
- Conducting investigations and resolving disputes



## ABOUT EDP

EDP is a specialist Health, Safety and Environment Consultancy with over 20 years of practical, hands-on experience. Wherever you are located, our health, safety and environment advisors are on hand to provide guidance, support and training.

### ■ Environment

Organisations are placing increasing importance on Environmental Management and many need help to establish a viable system for controlling their impact on the environment.

We tailor our services to the needs of each organisation, whether they already have an environmental strategy or don't even know where to start. We have the necessary experience from having helped many companies to improve their environmental performance. Our approach is to present a number of alternatives for achieving environmental goals so that each company can choose what is best for them.

### ■ Health and Safety

With much Health and Safety legislation based on European directives, in addition to the UK we can service organisations in EMEA (Europe, Middle East and Africa) and in the Asia Pacific region. By partnering with a number of clients in these regions, we have gained expertise in working with a variety of legal systems and codes of practice.

### ■ Construction

Unlike other consultancies working in the Construction sector we are able to provide a wide range of consultancy services to clients needing advice on all matters relevant to the built environment including CDM, construction and operational safety issues.

### ■ Training

Competency of your staff is vital, from Director Duties to First Aiders and everything in between. We offer all the training and mentoring you need to manage your own health, safety and environmental systems. Where appropriate, we can also offer computer based training (CBT) facilities, for example to ensure computer users are aware of the health and safety issues associated with their workstations.

### ■ Overall

We are able to develop cost-effective solutions that are tailored to your individual needs, without being bureaucratic and which positively impact your culture and bottom line. We encourage and sponsor our employees to improve their expertise and maintain knowledge through a programme of Continual Professional Development (CPD).

Head Office UK:

**EDP Health Safety & Environment  
Consultants Ltd**  
Lakeside, Alexandra Park,  
Prescot Road, St. Helens,  
WA10 3TT

Registered in England No. 03799102

**Telephone:**

General 01744 766000

Fax 01744 766025

**Email:** [enquiries@edp-uk.com](mailto:enquiries@edp-uk.com)