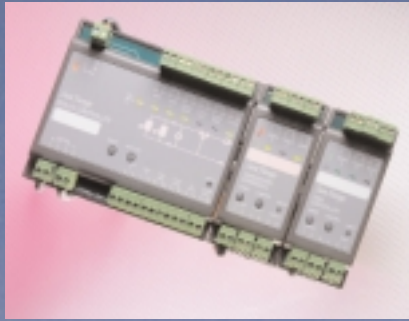


ENERGY MANAGEMENT



saving money saving energy saving the environment



THE ENER·G GROUP

At ENER·G we deliver sustainable and energy efficient technologies on a business-to-business basis worldwide. Our four key technologies offer an energy solution for all markets:

Cogeneration

On site generation of electricity and heat for the public and private sector.

Renewable Energy

Utilising biogas and biomass to produce 'green' electricity for our clients worldwide.

Energy from Waste

Extracting the energy value from pre-sorted biodegradable municipal waste.

Energy Management

Using intelligent building controls and other innovative technologies, we provide risk free energy management with guaranteed savings. We are at the forefront of bringing energy management to industry, commerce and the public sector. Our combination of experience and technology delivers real savings and environmental benefits for all our customers.



THE NEED TO MANAGE ENERGY

Climate change is at the heart of UK and EU legislation introduced to achieve the Kyoto emissions targets. Energy efficiency is widely accepted as the most cost effective way of achieving these targets.

In the UK various fiscal measures such as the Climate Change Levy and Enhanced Capital Allowances have been introduced to encourage investment in energy efficiency. In Europe, the Emissions Trading Scheme and the Building Performance Directive are the focus of EU policy.

The technical potential to manage energy is well established. It is estimated that across the UK economy, energy use could be reduced by around 30%, and within the EU, by at least 15% in the medium term.

WHAT IS ENERGY MANAGEMENT ?

Managing energy is about delivering savings, savings which can provide real benefits to a business both in terms of its operating costs, and environmental, in terms of reduced greenhouse gas emissions. Better still, far from being difficult to achieve these benefits are easily realised and at ENER·G we have a range of solutions tailored to deliver maximum savings, fast.

Our process starts with a thorough analysis of how a building uses energy. Then, inefficiencies are identified, actions agreed and targets set. Finally, ongoing monitoring measures performance and ensures efficiency is achieved and maintained.

Actions taken to improve efficiency can vary. Some cost nothing, some are low cost and others require greater investment. Technology is

often the key, but people also have a part to play. Good energy management will normally deliver savings through a combination of actions.

Improving energy efficiency can bring many benefits:

- Lower energy costs
- Reduced carbon emissions
- Improved working conditions
- Better control
- Legislative compliance
- Aiding ISO 14001 accreditation
- Demonstrating corporate and social responsibility



APPLYING ENERGY MANAGEMENT

Energy management can be applied to any building irrespective of its size or complexity however, at ENER·G we specialise in providing energy management solutions to private and public sector applications such as:

- Factories
- Warehouses
- Retail outlets
- Mixed use sites
- Schools, colleges and universities
- Public buildings



OUR APPROACH TO ENERGY MANAGEMENT

Our energy management solutions can be tailored to suit. Key technologies include:

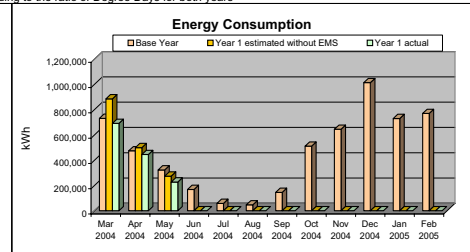
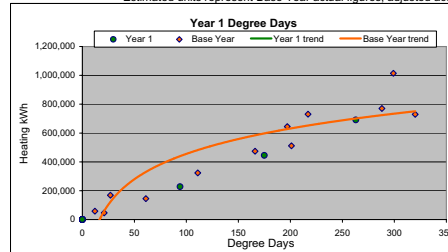
- Automatic meter monitoring – we can remotely read meters both primary and secondary. This data can be used to validate bills and to negotiate tariff changes and new supply contracts. A saving of 2-3% is typical
- Monitoring and targeting – regular and detailed analysis including load profiling and reporting. We will manage the site's energy, make recommendations for action, set targets and monitor performance
- Building energy management systems (BEMS) – a core ENER·G solution. Savings can be easily achieved by controlling and monitoring:
 - HVAC plant – heating, ventilation & air-conditioning
 - Lighting
 - Compressors

A BEMS can deliver typical savings of 30%
- Energy centres – for the ultimate solution ENER·G can provide a complete energy centre providing all energy needs from heat to power, from chilled water to steam



Year 1 energy report for Sample Site												
CCL rate		100% (default = 100%, no exemption). CCL = 0.15 p/kWh for Gas										
Process usage		0 kWh per month										
If space heating usage is known, enter it under Fuel Usage and put "0" in Process												
	Fuel Usage kWh	Heating kWh	Degree Days	Estimated usage without ENER·G			ENER·G Efficiency		Year 1 cost analysis (incl. CCL and VAT)			
				Base Year kWh	Degree Days	Y1 estimate kWh	Savings kWh	%	Tariff p/kWh	Actual spend	Estimated spend	Cost Saving
Mar 2004	691,277	691,277	263	730,913	217	885,853	194,576	22%	1.1048	£10,192	£13,061	£2,869
Apr 2004	445,039	445,039	175	474,183	166	499,892	54,852	11%	1.1048	£6,562	£7,370	£809
May 2004	227,241	227,241	94	323,227	111	273,724	46,483	17%	1.1048	£3,350	£4,036	£685
Jun 2004			0	168,879	27				1.1048	£0		
Jul 2004			0	57,747	12				1.1048	£0		
Aug 2004			0	46,545	21				1.1048	£0		
Sep 2004			0	145,098	61				1.1048	£0		
Oct 2004			0	511,217	201				1.1048	£0		
Nov 2004			0	644,561	197				1.1048	£0		
Dec 2004			0	1,013,888	299				1.1048	£0		
Jan 2005			0	729,725	320				1.1048	£0		
Feb 2005			0	769,993	288				1.1048	£0		
Total	1,363,557	1,363,557	532	5,615,975	1,920	1,659,469	295,911	18%		£20,104	£24,467	£4,363

Notes
Degree Day data is based on a control temperature of 15.5°C
Estimated units represent Base Year actual figures, adjusted according to the ratio of Degree Days for both years



GUARANTEED SAVINGS

Whatever energy management solution is adopted, we are confident in our ability to deliver and therefore, in most cases the energy savings we identify are guaranteed.

The products provided as part of an ENER·G solution are proven to deliver savings. Many are included on the UK's Energy Technology List. This list, administered by the Carbon Trust, has strict criteria to ensure all approved products are low carbon technologies.

In addition, our BEMS systems have many features aimed at delivering maximum efficiency from the plant they control. These features have helped many customers achieve savings in excess of 35%.

AUTOMATIC MONITORING

Most energy management solutions are provided on a fully inclusive basis:

- Regular reporting
- Online report generator
- 24/7 remote support
- Dedicated support line
- Client training
- Maintenance
- Free replacement of faulty equipment
- Free equipment upgrade

Whichever energy management solution is implemented all are backed up by monitoring systems based on our NETcaretaker and NETmail systems.

On site, NETcaretaker constantly monitors the system for parameter changes, alarms and faults. These are e-mailed to our support centre. Connection methods available for NETcaretaker include:

- Connection to the site's IT network
- Dedicated BT phone line
- GSM/GPRS

E-mails received from NETcaretaker are automatically analysed by NETmail. NETmail determines changes that affect energy use and alerts our support team immediately. The support team use these alerts to help manage the site and analyse energy use. Our InSite engineering tool remotely interrogates the site, diagnoses problems and helps correct issues that occur.

By harnessing the power of the Internet and e-mail, ENER·G's solutions achieve and maintain maximum savings.

INNOVATIVE DEVELOPMENT

In a market dominated by technology ENER·G uses innovative 21st century technology to deliver solutions. Our dedicated development team are constantly evolving our systems to make the most of breakthrough technology and help maximise the savings potential of every site.



Our BEMS technology is revolutionary and proven. Pre-programmed, application specific controllers offer flexibility and allow systems to be easily extended. Easy to use user interfaces include VuSite, our PC based graphical tool, that allows management of building occupancy times and temperature setpoints.

ENER·G's commitment to development ensures that our technology leads the way.

GUARANTEED ENERGY SAVINGS AGREEMENT

Energy management solutions from ENER·G are normally implemented under a Guaranteed Energy Savings Agreement.

These agreements provide a number of key benefits that include:

- Savings guarantee
- No capital investment required
- All inclusive monthly index-linked fee
- Net profit from month one
- Transfers commercial and technical risk to ENER·G



Typically our agreements have a 5 year term but every agreement includes a savings guarantee to provide peace of mind. The guarantee ensures that should we not deliver the guaranteed savings level the agreement can be terminated and the difference between the guaranteed and actual level of saving refunded.*

Guaranteed Energy Savings Agreements include the following services:

- Control
- Monitoring
- Reporting
- Equipment
- Installation
- Maintenance and upgrades
- Support
- Training

While over 90% of our customers opt for a Guaranteed Energy Savings Agreement, some choose to purchase a solution from ENER·G. If this is the preferred route then a Remote Service Support Agreement is available to support and maintain your investment.

*subject to terms and conditions

CLIENTS

Our clients cover a wide range of companies – from multi-national corporations to SMEs. Companies enjoying energy savings include:

ADLER MANUFACTURING LTD
AIRSCREW PRODUCTS LTD
ANTALIS
ASHLAND UK LTD
ASTRALUX DYNAMICS LTD
AUTOFLOW LTD
AVF GROUP
B MASON & SONS
BACARDI MARTINI
BEIRSDORF UK LTD
BHD FLINT LTD
BOLTON SCHOOL
CARDALE DOORS LTD
CEANDESS LTD
COMPUTER 2000
CORSTON SINCLAIR
CORUS AUTOMOTIVE
DIAMOND POWER SPECIALITY
DUCTILE STOURBRIDGE COLO MILLS
DUTTON CARPETS
EUROPOWER HYDRAULIC
FUTABO TENNECO UK LTD
GIST LTD
HAVELOCK EUROPA
HELLA MANUFACTURING LTD
HORATIO MYER
HUHTAMAKI UK LTD
ITT INDUSTRIES
IVECO FORD
JCB COMPACT PRODUCTS
JUST ROLLERS
KRUPP CAMFORD
LEAR CORPORATION
LINK 51
MICRO METALSMITHS
MORELOCK SIGNS
MORRIS & SPOTTISWOOD
NSK STEERING
OIL STATES INDUSTRIES
P C HENDERSON LTD
PILKINGTON'S TILES LTD
QUADRANT EPP UK LTD
SATO UK LTD
SHARP ELECTRONICS (UK)
SLUMBERDOWN
SMETHWICK DROP FORGE LTD
SOLATRON MOWBRAY LTD
ST GEORGE'S HOTEL
TIMKEN (UK) LTD
WALKER MACLEOD
WARBURTONS
WELLAND MEDICAL LTD
WILD MANUFACTURING
WIPER SUPPLY SERVICES LTD
WOOD GROUP
WOODBIDGE FOAM

ENERGY MANAGEMENT

THE ENER·G GROUP WHAT MAKES US NUMBER ONE

- Our unique combination of in house technology and services means we are a single port of call for any business looking to increase energy efficiency
- We are world leaders in the field of delivering sustainable and energy efficient technologies with a wealth of experience and a proven track record
- From energy efficient generation to management of energy consumption we have a solution to help your business
- Our financial stability offers you long-term security
- We are able to offer the best financial, operational and environmental benefits without capital investment
- Continual Research and Development means we offer the very latest technology in the industry



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