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Energy Save UK.org

Saving Energy doesn't have to cost the Earth

An Introduction to a cost affective and eco friendly life

Introduction

- This presentation will make you aware of the technology, available from Energy save Uk .org.
- We design develop and manufacture our products to suit customers individual needs.
- Our aim is to help develop Energy Saving products. Our vision is to help UK and European based Corporate industrial (SME) companies as well as Governmental organisation to help promote:
- Reduction of energy and meet the challenges of the Kyoto Protocol by treating their energy using our eco friendly Technology and services.

Topics of Discussion

- **KYOTO PROTOCOL**
- **ABOUT ENERGY SAVE UK**
- **PRODUCTS & SERVICES**
- **CASE STUDIES**
- **CLIENT BASE**
- **OUR GLOBAL AMBITIONS**
- **CONCLUSION**

Kyoto Protocol

- **United Nations Convention on climate Change, sets legally binding targets and time scales for reducing the greenhouse-gas emissions Of industrialized and developing countries.**
- **The Protocol requires mandatory targets on CO2 gas emissions for the world's leading economies,**
- **These country's have accepted the set targets.**
- **The targets range from -8% to +10% of the 1990 emissions levels, with a view to reducing their overall emissions of such gases by a minimum of 5% below existing 1990 levels between, 2008 – 2012.**
- **Further mandatory targets are expected to be renegotiated and established for periods ending 2012. These are to be negotiated well in advance of the periods concerned.**

ABOUT ENERGY SAVE UK

- Energy Save UK.org was established by individuals who are concerned with the effects of climate change on our planet.
- During the initial stages the company provided energy saving services which helped such companies reduce their CO2 emissions, at the same time reducing their rising utility costs.
- The company now works with SME's as well as major corporate clients. We have increased the range of products and services to cover various ways to reduce energy and its relative costs, thus reduce the green house gases.
- The company can treat anything, from heating and lighting (offices, car parks, shopping centres, hospitals, street lighting, industrial plants, factories etc) plus electric motors (lifts, escalators, air conditioning refrigeration).

PRODUCTS & SERVICES

Energy Save UK.org has a wide range of products and services to help large-scale industrial companies to domestic homes to help reduce energy. These are as follows:

- Light Energy Saving Device (Lightwiz)
- Independent Management System for heating
- Air Quality Extraction (VTECH - POD)
- AC/DC Motor Inverters
- Power Factor Correction
- Voltage Optimisation Correction Unit
- In-house engineering /design/consultancy/production and installation
- New technologies are also in development

PRODUCTS & SERVICES

LightWiz plus

Lightwiz is a light saving, energy saving device this will give savings of up to 30%+.

Lightwiz has the following features:-

Lightwiz is designed using the latest micro chip microprocessor technology .

Lightwiz intelligently manages current flow to the lighting circuit.

Lightwiz fits to existing lighting circuits with minimal disruption.

Lightwiz includes direct control option which allows the user to interface to manual control switches. Fault output option timer / Light sensor control.

Daylight - nightlight, time delay saving, direct human switch control to saving maximum to level bypass to full light no saving.

a simple remote control and monitoring interface to any building or energy management system

PRODUCTS & SERVICES

LightWiz (continued)

- Lightwiz is specifically designed to reduce the running costs of any type of lighting also reducing CO2 gas emissions e.g; Fluorescent, Incandescent, Tungsten, Halogen, HID, Sodium High Pressure, Sodium Low Pressure, Mercury Vapour, and Metal Halide.
- The pay back period for the energy saving unit is typically under two years, but can be as little as eight months, for show rooms and street lighting where the lights are kept on for longer periods. Interestingly, in some parts of the world electricity companies have even bought Lightwiz units themselves and rented them out to customers under long term supply contracts.

PRODUCTS & SERVICES

Independent Management System

- Intelligent single / multi boiler management System for heating with a 20-40% saving.
- This is an independent management system, compatible with gas, LPG, oil and warm air. It uses a unique variable thermal response control program which intelligently manages boilers and warm air burners, maximising efficiency whilst ensuring the demand of the heating system is met in full. The system takes in to account all variable factors including level of demand, external/internal temperatures and hot water requirements.

PRODUCTS & SERVICES

Air Quality Extraction (VTECH-POD)

- Air Quality Extraction pod. A vortex is what is created when water spins very fast in a vessel, because centrifugal forces the water to rise up the walls of the cylinder, causing a conical v shape to form. This vortex has two properties. A high pressure area on the outside of the vortex caused by the centrifugal force and the low pressure in the centre of the vortex, Its this low pressure area that draws the dissolved air from the water. The pressure drop being sufficient to make the air come out of the solution, and be freed within the centre of the vortex, this in turn increases the efficiency of the system by up to 25%. It extends its life by removing the cause of corrosion. The system will run virtually silent.

PRODUCTS & SERVICES

Inverter technology

- Inverters with up to 40% saving. The latest in, Inverter technology. This compact sinewave DC-AC inverter provides a true sinewave out put more difficult or sensitive loads ideal in all applications, main product features are pure sinewave output, output frequency: 50/60 Hz switch selectable, input/output fully isolated, low power saving mode to conserve energy high efficiency:> 90%, capable of driving highly reactive and capacitive loads at start up, tri-colour indicators display input voltage and output voltage level, loading controlled cooling fan , advanced micro processor, protection: input low voltage, overload, over temperature and reversed polarity.

PRODUCTS & SERVICES

Power Factor Correction

- Power Factor Correction with a 10-25% saving. Power factor correction (PFC) is the process of adjusting the characteristics of electric loads that create a power factor that is less than 1. A high power factor is generally desirable in a transmission system to reduce transmission losses and improve voltage regulation at the load. The more efficient your electricity the less voltage used.
- As an example if your power factor is .75 then you are using 25% more voltage to run your machinery, the more voltage you use the more you increase your electricity bill.

PRODUCTS & SERVICES

Voltage Optimisation Correction Unit

- Voltage Optimisation Correction Unit can give up to 30% savings. All of our electrical equipment is designed to operate at a voltage at the lower end of the statutory range. So does everything operate better? Well the answer is yes.
- In the U.K we do nothing about high voltage being supplied. What we have found is that, up to 15% of energy is being wasted because the voltage is too high, (our premises are “overfeed”).
- Over voltage does for electrical machinery, what too many calories does for man - costs you more, makes you tired, and less efficient, so you die younger.

PRODUCTS & SERVICES

In-House Engineering & Consultancy

- Energy Save UK provides in-house engineering, consultancy, production and installation of energy saving technology. Our highly trained consultants undertake feasibility studies to ascertain the customers energy consumption and current costs and then recommend various options to help reduce energy and provide cost savings.
- Highly trained engineers carry out installation on the clients premises.
- A long-term relationship is established with the client with a continuous monitoring of the installed technology and guaranteed savings.

PRODUCTS & SERVICES

Other Future Services

- Electricity Generation/ Turbine technology
- Waste disposal/Heat generation (Utilisation of rubbish plastic/wood/paper/anything that burns)
- Water purification/generation
- Numerous Other technologies under development

PRODUCTS & SERVICES

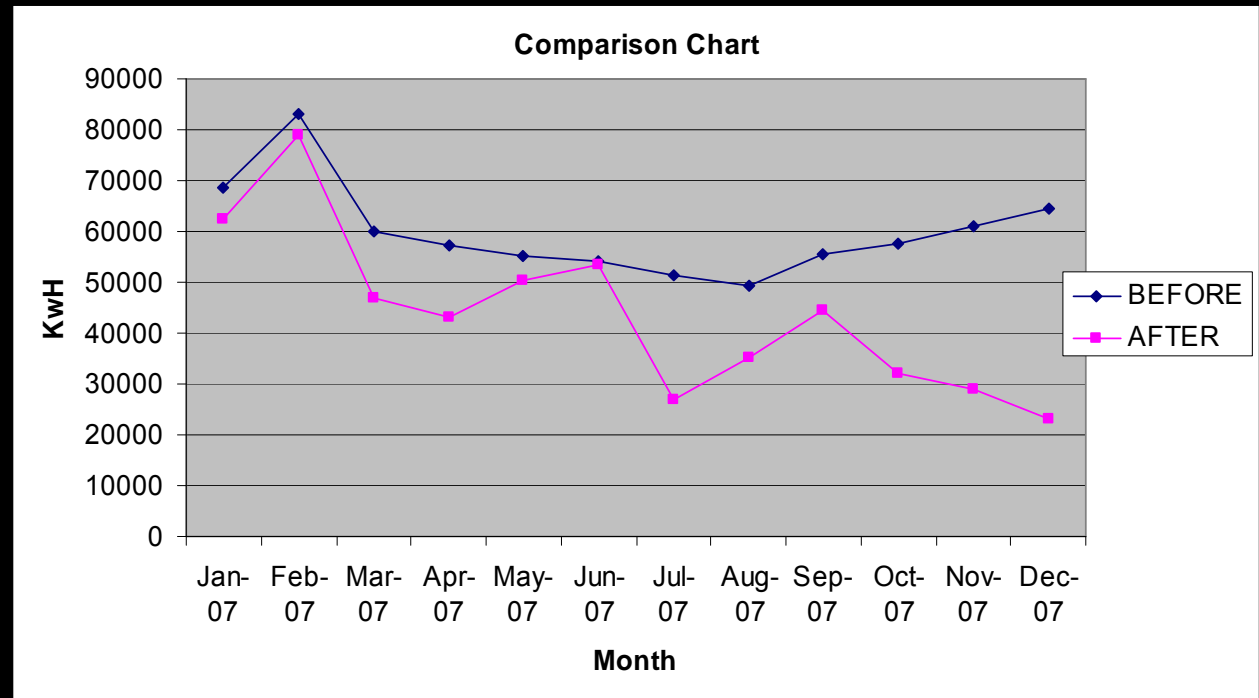
Case Studies

Client	Device	Energy Saving
GM Powertrain (Hungary)	Lightwiz	42%
Suzuki (Hungary)	Lightwiz	39%
Bayer PLC	Lightwiz	66%
Southern Electric Contracting	Lightwiz	37%
Kraft Foods	Lightwiz	35%
Knauf Cwmbran Plant	Lightwiz	51.8%
UK MOD	Lightwiz	49.3%
Honda	Heating	35%
Tesco	Heating	21%
Southern cross homes	Heating	23%
Quarriers Scotland	Heating	25%
Coutts bank	Heating	20%
Microsoft	Heating	27%

PRODUCTS & SERVICES

Case Studies (continued)

Example graph showing reduction in energy (kilowatts per hour) for a typical client with before treatment and after treatment



PRODUCTS & SERVICES

Client Base

- ING Bank
- Coutts Bank
- Governmental Departments (Lighting, AC, Heating and Street Lighting)
- Honda
- Tesco
- Shopping Plazas (St Enoch's Centre, Riverside Shopping Centre)
- Kraft Foods
- UK Ministry of Defence
- Knauf Cwmbran Plant
- Bayer PLC
- Southern Electric Contracting
- GM Power Train Factory Hungary
- Suzuki Hungary
- Many more ...

PRODUCTS & SERVICES

Our Global Ambitions

- Energy Save UK plans to expand its clients portfolio by extending our reach throughout the U.K and Europe in the short- term and further a field long-term. With the implementation of the Kyoto Protocol, every country in the world will have to follow tight guidelines in reaching zero emissions.
- We want to build a long-term relationship with our clients in order to provide both our technical expertise and energy saving devices in order to help large corporations and industrial plants reduce their total energy consumption and reduce costs.
- We aim to diversify our eco-services to cover wind power, solar energy, water purification, waste disposal, domestic housing ... and many other services in the not-so-distant future.

PRODUCTS & SERVICES

Conclusion

In summary:

- Energy Save UK presents itself as an energy management firm that prevents problems before they occur by objectively and unobtrusively managing an organisation's power management strategies through state of the art patented technologies.
- Our current list of blue-chip clients are proof that our technology and services can reduce energy bills and allow companies to conform to the Kyoto Protocol.
- Our one-stop eco services can deliver and manage all your eco needs and help you become certified when the new legislation for compliance comes into force in 2008.