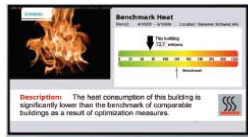


Metering – a ‘smart’ idea

An Integrated Building solution

Building the Solution

Intelligent energy management, innovative energy saving functions and effective processes reduce energy costs



● Green Building Monitor is an energy efficiency information solution for building operators to demonstrate their performance:-

- Design



● Solar protection, automatic blind and shutter positioning can potentially achieve an energy reduction of 5-8%:-

- KNX Control



● Solar tracking, automatic louvre angle positioning can potentially achieve an energy reduction of 8-10%:-

- KNX Control



● Heating control; timed operating can potentially achieve an energy reduction of 5-10%:-

- REV room programmers
- KNX Control
- Design
- Synco



● Power Management LV; accurate reporting and monitoring can potentially achieve an energy reduction of 15-18%:-

- Metering
- Panelboards/switchboards
- Cable management



● Access Control, Security, Occupancy control, CCTV, Intrusion



● External lighting linked with access control can potentially achieve an energy reduction of 15-18%:-

- OSRAM
- Security



● Voltage Optimisation; potential energy saving of 5-15%



● Constant light control dimmed according to level and presence can potentially achieve an energy reduction of 14-20%:-

- KNX control
- OSRAM



● Automatic lighting switched according to level, presence and central off can potentially achieve an energy reduction of 15-25%:-

- KNX control
- OSRAM



● Intelligent heating controls linked with access control and presence detection can potentially achieve an energy reduction of 15-20%:-

- Synco
- KNX Control
- Design

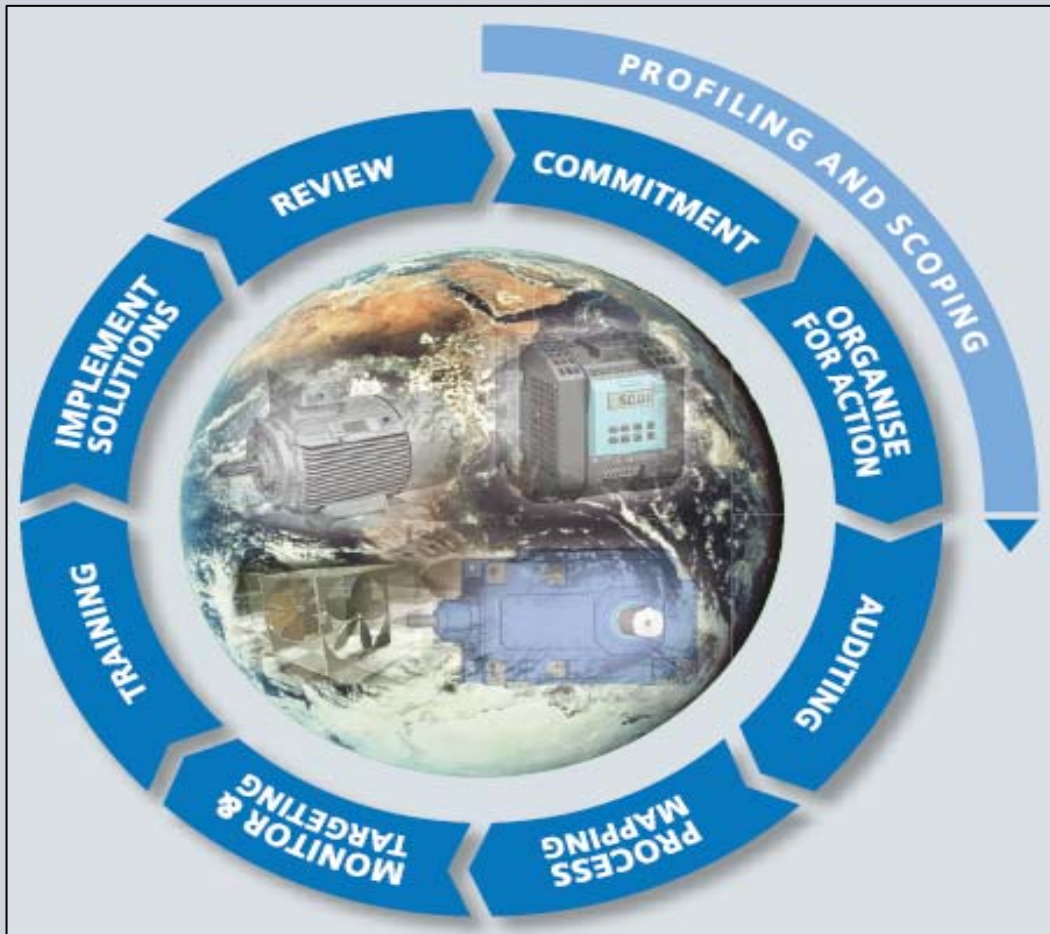
Energy Team

- **Building Controls (KNX)**
 - Lighting Control
 - Solar Shading
 - Synco
- **Control Product & Systems**
 - Design
 - Design Insight
 - Green Building Monitor
- **Security Products**
 - SiPass
 - Sistory
 - SigNet
- **Heating Controls**
 - RDH/RDJ room thermostats
 - REV programmers
 - TRVs
- **Power Management**
 - SIVACON
 - SENTRON
 - Crabtree/Wylex/Volex
 - Powermanager
- **OSRAM**
 - Osram DULUX
 - LUMILUX
 - POWERSTAR
 - POWERBALL
 - Halogen ES
 - QUICKTRONIC
 - LED



Cost Reductions achieved through a systematic approach are typically 4 times greater than compared to 'ad hoc' stand alone measures. The process involves a combination of on site audits, data analysis and strategic recommendations forming the basis of a long term continuous improvement programme. You can achieve significant energy savings while at the same time benefit from a pleasant room climate, optimum comfort and maximising your contribution to "carbon" reduction targets.

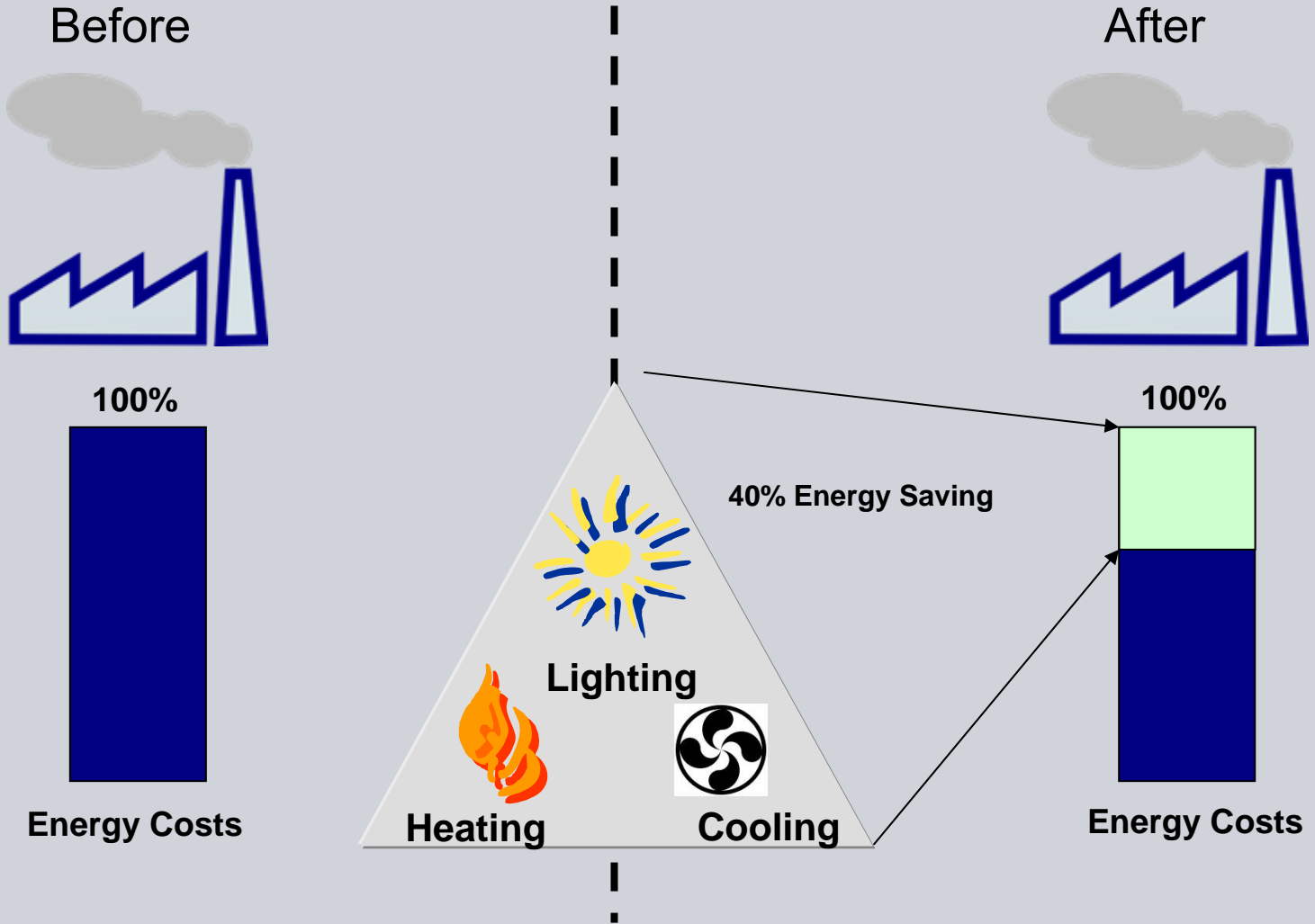
Systematic Approach



- A systematic approach delivers maximum cost reduction
- This process forms the basis of a long term continuous improvement programme
- Simplifies environmental compliance issues
- Follow BS EN 16000
- The more control the greater the savings
- Plan → Do → Check → Action

“Cost Reductions achieved through a systematic approach are typically **4 x greater** than compared to ‘ad hoc’ stand alone measures”

Reduced Energy Consumption



Thank You

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