

Our energy reducing technologies help organisations manage energy better

UK businesses spend an estimated £12.6 billion pounds on energy, running their organisations¹. Energy may be a small proportion of total business costs, less than 3% for an average UK manufacturing firm²; yet the UK Government believes that these costs will rise 25% by the end of the next decade³.

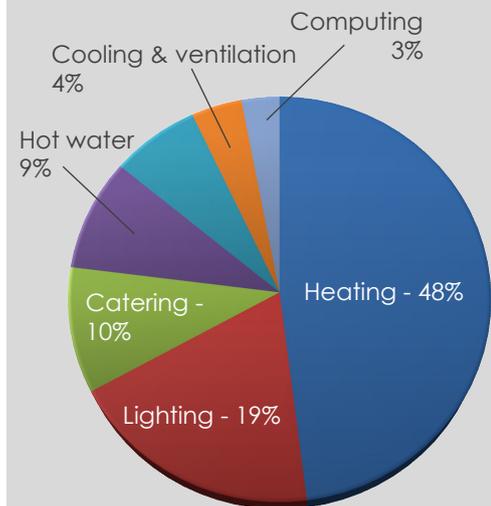
The Government also believes that the most effective way of reducing energy bills is to improve energy efficiency. Abtec's range of energy reducing technologies can help organisations meet that need.

Improving energy efficiencies

83% of a typical organisation's energy use is spent on heating, cooling, lighting and computing⁴. We have a proven track record in helping enterprises and public sector bodies reduce energy use in these areas. Our services aren't limited to new build projects; we can retrofit these in existing building stock too. Our energy management services include:

- Energy metering and monitoring
- Energy management and consultancy
- Energy reducing automated building controls
- Remote monitoring and management of energy use

Business Energy Use Analysed



Typical saving with our energy management tools

Heating	30%
Lighting	40%
Water heating	30%
Cooling	30%
Computing	80%

For more information about how our energy reducing technologies could help your organisation please contact Abtec on 01858 438 500.

Cooling

- Automated blind and natural ventilation
- Occupancy detection means air-con doesn't work when room is empty

Heating

- Heat recovery units convert waste heat into space heating
- Combined heat and power creating energy

Lighting

- Dimmed when ambient light levels are strong enough
- Presence detectors ensure lights aren't left on



Water heating

- Demand based water heating, only supplying what is needed
- Phased control to ensure maximum efficiency

Computing

- Thin client PCs and virtualised servers
- Video conferencing removing the need for face to face meetings

BeMS

- Automating the building's controls
- Visibility of energy use, on site and remotely

Along with our sister organisation, Abtec Building Technologies, we've been helping organisations manage their IT and reduce energy for over 20 years. Our engineers have the accreditation and knowledge to manage your IT or energy project, including:

- Cisco, VMware, Microsoft accreditation
- Open standard building technology protocols; KNX, Tridium, Modbus, BACnet, DALI
- Part L building compliance

This expertise was rewarded at the KNX Awards 2014. Our work with energy efficient technologies at The Crystal, London, has helped create one of the world's greenest buildings. Other recent projects include:

- **Overhauling Darlington Building Society's IT infrastructure. Centralising its IT and communication resources, creating a low energy, easier to manage environment**
- **The design, deployment and management of the IT and communications infrastructure for National Grid's latest, award winning offices**
- **Providing the building intelligence at the new Northumbria Specialist Emergency Care Hospital**

"Working with Abtec has been a pleasure. The team's project management skills, significant KNX, DALI and IP networking expertise make Abtec easy to recommend for other projects"

Andy Chandler
Technology Manager Siemens

SIEMENS

1. & 4. Energy Consumption in the UK (2013); Department of Energy and Climate Change; UK Government 25 July 2013
2. & 3. https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/172923/130326_-_Price_and_Bill_Impacts_Report_Final.pdf

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