

WELCOME

Implications

- **Rising prices**
- **Changing Climate**
- **Resources available**



Energy Audits



What's happening?

- **Commitment**
- **Energy Survey**
- **Action plan**
- **Ongoing support**
- **Networking**
- **Evaluation**

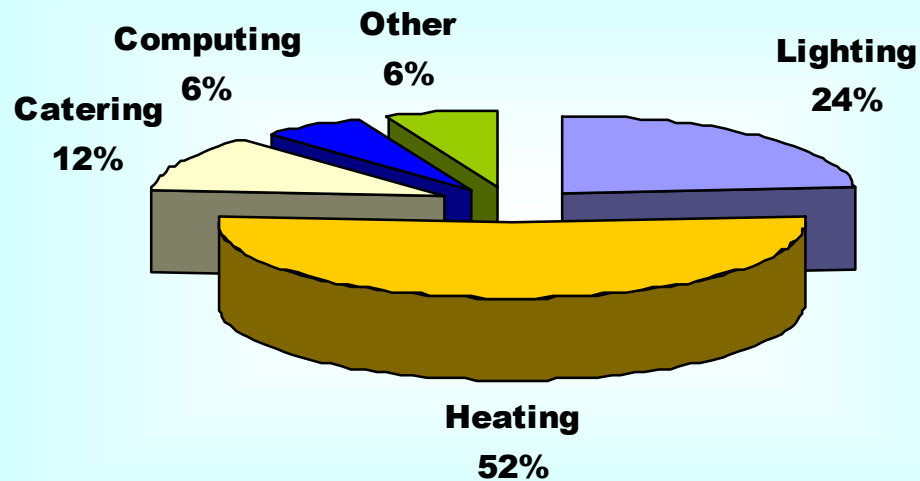
Where are the savings?

- **Tariffs and bills**
- **Energy efficiency**
- **Sustainability**



Energy Audits

What kind of savings are there?



Energy use at schools

Source: Carbon Trust

Energy Audits

What kind of savings are there?



600w x 24h x 365d x 0.06p =

£315.36



Energy Audits

Pilot study – Overview

What is the problem?



Pilot study – Overview

Reading reports

*Install Boiler control systems - It is evident
that your t53456 converter output blah blah blah
blah blah blah blah blah ...*

Energy Audits

Pilot study – Overview

Reading reports

Improve lighting control

While the lighting at your school is ...

Cost saving (£/yr)	Energy saving (kWh/yr)	CO ₂ Reduction (t/yr)	Implementation cost (£)	Payback period (months)
£ 6043	63724	27	£ 6000	12

Base on reducing the energy used for lighting (accounting for 17% of the total energy consumption in a typical school) by 10%:
 $3\,748\,495 \text{ kWh} \times 17/100 \times 10/100 = 63724 \text{ kWh}$

Implementation costs are £20 per PIR, for 300 PIR controls

Energy Audits



What can be done?

- **The best equipment (in the best place)**
- **The right controls (set correctly)**
- **Watchfulness**

Energy Audits

Opportunities

- **Oxfordshire Resource Efficiency Club (< £50k, > £20k)**
- **Workshops**
- **Waste auditing**

**Contact EiE at:
01865 483 299
eie@brookes.ac.uk**

