

ENERGY & SUSTAINABILITY AT THE UNIVERSITY

- The energy and water bill for the University is **over £6 million** a year
- Due to rising prices and consumptions, expenditure on gas & electricity has more than **doubled in the last 3 years**
- We have a key duty and responsibility to reduce our **environmental impact** and our contribution to **climate change**.



In a year we use...

- *29 million kilowatt-hours of electricity (equivalent to over 3,500 households' use)*
- *400 million litres of water (enough to fill over 500 swimming pools)*
- *5 million cubic metres of gas (like burning 200,000 bags of coal)*

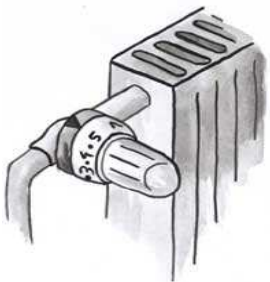
...and we are responsible for emitting 22,000 tonnes of carbon dioxide from our gas and electricity use (enough to fill over 4,000 hot air balloons)

What Can I Do...?

Energy savings of at least 10-25% are achievable in any organisation simply through improved awareness and day-to-day practices of staff. There are many fairly obvious ways in which we can all contribute, but which we may forget in our normal busy working day:



- **Lights** – turn them off if not needed, even if you are just leaving a room for a few minutes.
- Turn off your **PC and printer** at night unless you are definitely going to be working from home via remote desktop
- Switch off your **PC monitor** when you are not using it, for example when you go to meetings or for lunch
- Turn off photocopiers, lab equipment etc at night and at weekends
 - **Radiators** – turn them down or off if not needed. If rooms are still too hot report this to the Estates Helpdesk rather than opening windows.
 - Make sure that any **radiators** or heating grills are not blocked or covered by furniture such as filing cabinets that will absorb the heat.
 - If too cold, **report it** as there may be a fault. Don't use electric heaters.
 - Ensure **doors and windows** are closed if any heating or air conditioning is on
 - **Water** – turn off taps and report any dripping taps and leaks.
 - Use the **recycling** facilities available (paper/cardboard in offices, communal recycling bins in various locations)
- Use **public transport, walk, cycle or car share** wherever possible
- Consider the energy and environmental impact of any **purchases**
- For more ideas see <http://www.bath.ac.uk/estates/energy/>



Remember: **report any problems** to the appropriate person in your department or to the Estates Helpdesk (if not urgent use the 'green button' on the Estates web page; in emergencies call x3232).

to report a fault to the
Department of Estates

CLICK



What are we already doing...?

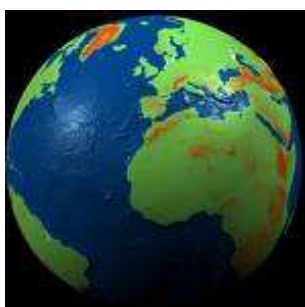
We are doing a number of things to try and reduce our environmental impact:

- **'Our Big Energy Challenge'** – we are a major participant in a Bath-area awareness-raising project. Through this we have trained 55 Energy Champions throughout all departments, trained 400+ other staff, distributed awareness-raising materials, and improved our communications of energy data, and made a real step change in many people's everyday practices.
- **Carbon Trust Carbon Management Scheme** – we were the very first UK University in 2003 to go through this scheme
 - We are accredited under the **Energy Efficiency Accreditation Scheme** (one of only 200 UK organisations to be so recognised)
 - We have run a successful **energy-saving competition in student residences** for the last 2 years
 - All **new buildings** and **major refurbishment** projects of our older buildings are designed for minimum environmental impact and energy use
 - We are continuously improving our **lighting**, replacing inefficient **boilers**, installing **water-saving devices** and updating **controls** etc.
- We have an extensive **metering network** and are currently improving our data capture and analysis – now 300 of our own meters are on our **new automated monitoring system**
- The University buys electricity on a **'green' tariff** for its main supply contracts
- We are undertaking feasibility studies for the development of **renewable energy** on the campus. Options include wind power, solar power, additional investment in large or micro CHP units and the possibility of powering boilers using biomass materials. We already operate a large CHP unit, and have recently installed solar hot water systems on 3 large student buildings.
- We are reviewing our **Green Transport Plan** and run a Uni carshare scheme, and various other schemes to encourage cycling, walking and public transport
- We are expanding our waste **recycling** schemes
- We have a **Sustainable Procurement** policy
- **Student Union** achieved 'Bronze' award for Sustainability
- Accommodation & Hospitality aiming for **Green Tourism** award this year



The results so far...?

- **Electricity use is down 7% in 2 years** (despite historical upwards trends and new build being added) - **£160k and 700 tonnes CO2 saved** annually
- **Water use is down 9% in one year** - **£65k and 32 million litres saved**
- Student Residences Energy Competition – **10% saved across 3000 rooms**
- Electricity use in Sports Village **cut by 15%**
- **BREEAM 'Excellent'** (top **eco-design** standard) achieved for new £21m Woodland Court student residence building
- **BREEAM 'Very Good'** achieved for recent refurbishments in residences



For any more details on these or related matters, see <http://www.bath.ac.uk/estates/energy/>, or contact Peter Phelps, Energy & Environment Manager in Estates on x6085 or p.phelps@bath.ac.uk