Welcome to the

Energy Toolkit
Green Desktop Computing

July 2010

Why do we need an Energy Toolkit?

10:10 Campaign

- University generated 79,140t CO_2 in 2008/9

- The University must:
  - Reduce CO_2 by 3%-10% by 2011 (compared to last year) **10:10**
  - Reduce CO_2 by 34% by 2020 (compared to 1990) **UK**
  - Reduce CO_2 by 80% by 2050 (compared to 1990) **UK**

Why do we need an Energy Toolkit?

- CRC Energy Efficiency Scheme
- EU Emissions Trading Scheme
- HEFCE – reduction of CO_2 is linked to our performance!

Why reduce CO_2 emissions?

- Halt dangerous climate change
- Conserve finite natural resources (oil & gas)
- Save money
- Meet internal and external energy targets
- National league tables - reputation

Who's the Toolkit for?

- FMs, BMs, IT Officers, Labs, Administrators, staff and students
- Practical guidance for departments
- Quick wins – for everyone
- Longer term opportunities
- Case studies
- Resources

Who's responsible for the CO$_2$ emissions?

- Electricity accounts for 70 - 90% CO$_2$

- User electricity accounts for 40 – 55% CO$_2$

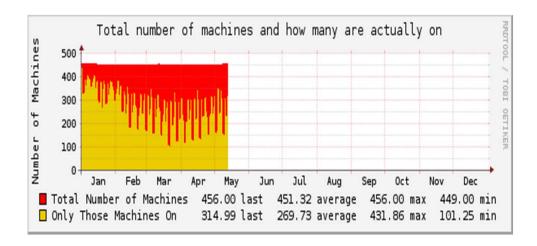- Server room can account for 16 – 25% CO$_2$
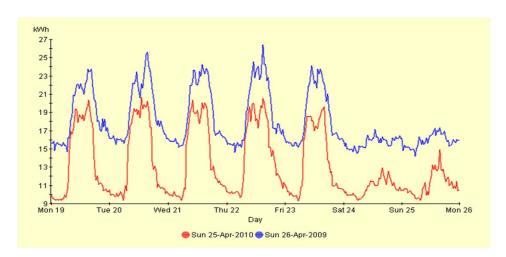
Raising awareness

- Use your greatest asset – staff & students
- Posters available from the website

Green IT – Energy Savings

- Maths achieved a 26% reduction in electricity use in Dartington House following implementation of Green IT.

- Contact GreenIT @OUCS

Resources

- Case studies
- People
  - Sustainability Team
- Finance
  - Energy conservation fund
  - Salix revolving loan
- Website www.admin.ox.ac.uk/estates/environment/energy

Salix Finance - Loans

- Network PC power management
- CRT to flat screen LCD
- Virtualisation
- Thin computers
- Cooling plant upgrade
- Free cooling
- Replacement evaporative cooling

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