

The Energy Performance of Buildings Directive

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CARBON/OFF
100 HOURS OF CARBON CLEAN UP



Introduction

- Welcome to the Energy Event
- CIBSE is very pleased to be working closely with ESTA
- EPBD is a great opportunity to highlight excellence in building design and operation
- CIBSE is here to help you achieve excellence

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100:00

hours of carbon clean-up

One of the ways we are trying to help

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100 hours campaign

The campaign consists of several toolkits

- information, guidance, stickers, posters, free aids, and a programme of staff involvement activities designed to help companies reduce their energy use
- 2 toolkits of information and guidance to help companies cut the cost of getting their Energy Performance and Display Energy Certificates

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Structured Approach

- Suggested routes:
 - First steps, further steps and bigger steps

Which guide companies to:

- Prepare for the campaign
- Reduce lighting related CO2 emissions
- Reduce equipment related CO2 emissions
- Reduce heating, cooling and ventilations CO2 emissions
- Reduce other sources of CO2 emissions.

Activities

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Only **boil** the water you need – save money

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Switching off a monitor at night can save as much energy as it takes to toast 20 slices of bread

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Lights off when you leave – save up to 440kg of carbon per year

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Unplug it when you're not using it – save up to 80kg of CO₂ a year

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Don't turn on the air con – open a window instead

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£100-a-month fuel bill to become a reality as British Gas increases prices

British Gas increases prices by up to 44%

GASOLINE PUMP PRICES RISE AGAIN, BUT SPOT MARKETS SOFTEN

[Octane Week](#), [February, 2003](#)

Let's face it, there's simply not enough oil and gas to go around

We have reached 'peak oil', and fuel prices look certain to rise for the foreseeable future, says Max Oakes

Fears of new cold war as Russia threatens to switch off the gas

July 18, 2008

Energy crunch bites as fuel bills rise by a third



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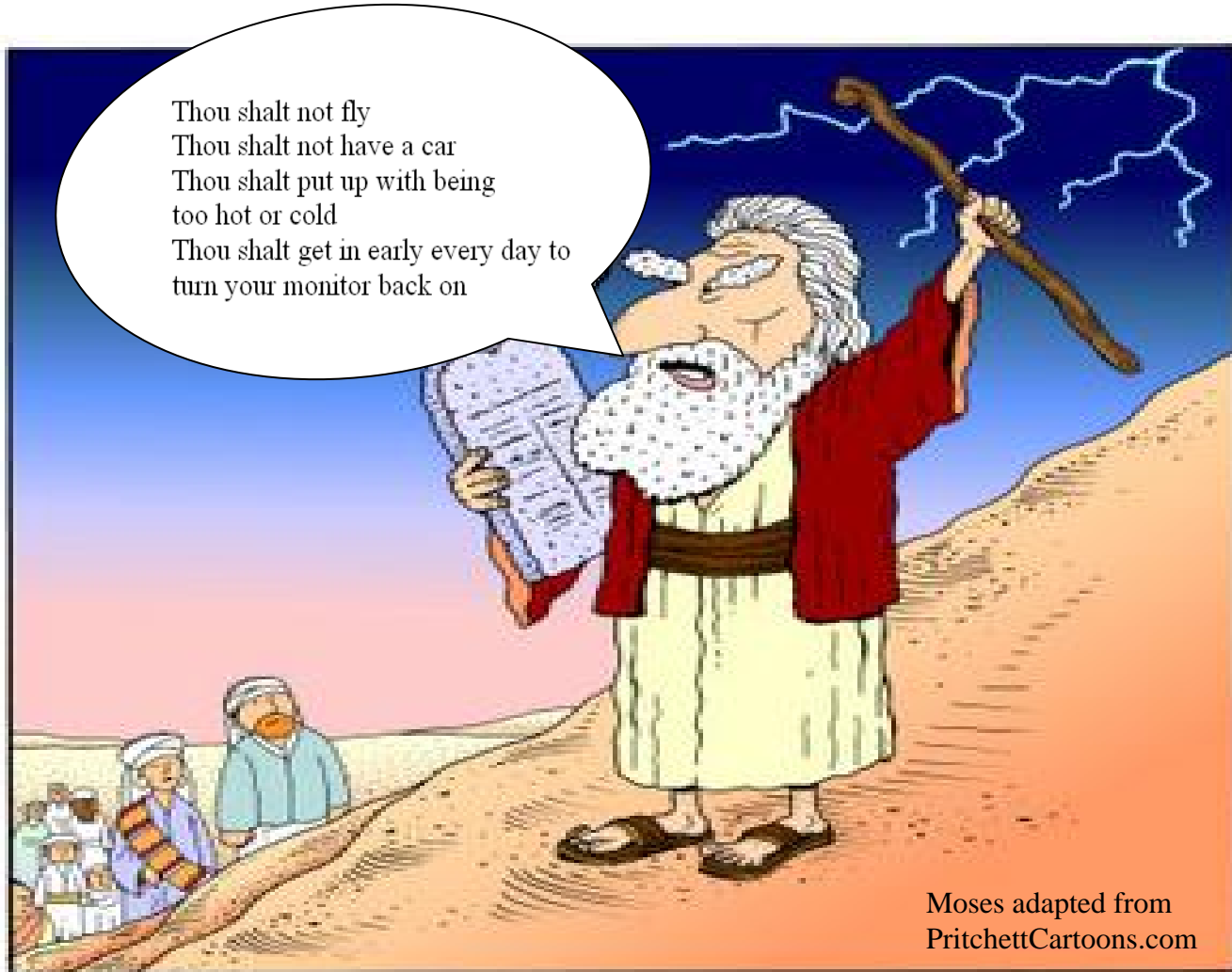


We all agree on profit

- Companies can cut 20% off their fuel bills by simple low and no cost measures – principally by taking care
- That's 20% more profit
- But without
 - Expert advice, and
 - Commitment from top and effort from all staffthis saving will not happen

The issues we all face

- Advice on what to do is not always consistent
- Some steps are costly and may not fit a particular business – all solutions must be tailored
- While many staff are often highly committed to saving the planet, conflicts can arise over energy saving in the workplace



Thou shalt not fly
Thou shalt not have a car
Thou shalt put up with being
too hot or cold
Thou shalt get in early every day to
turn your monitor back on

Moses adapted from
PritchettCartoons.com

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Fun and cost savings

- The campaign offers two incentives to save carbon:
 - Fun and a sense of achievement for the staff involved and
 - Energy cost savings and a way of cutting the cost of regulatory compliance for the companies

EPBD Requirements

- By October 2008 all buildings over 1000m² from a publicly funded service is provided is required to have, on display, a Display Energy Certificate
- By October 2008, virtually all commercial buildings will need an Energy Performance Certificate whenever the building is sold or let

Certificates cost?

- Generally between £500 and £5,000 depending on:
 - The size of the building
 - The complexity of its services
 - The availability of data on the building including building plans, area information, energy use information and information on changes to the fabric or services

Value

- You have to have these certificates
- You don't have to do anything about them
- But, if you commit to reducing your carbon emissions by signing up to the 100 days, you will be given free guidance on preparing for certification and cutting the cost of getting a certificate.
- The real value of a certificate is in the report. If it is tailored to your needs, rather than a cheap generic report, it will provide a plan of action to achieve major energy and cost savings – a genuine benefit from the process.

Programme

Session 1 – 10.00 – 11.00am

- **The EPBD; what you have to do, and when**
 - Nick Cullen MCIBSE, Partner, Hoare Lea
- **EPCs; gathering information, how to calculate your grade and how to get the best possible grade; costs and benefits of certification**
 - Hywel Davies, Technical Director, CIBSE

Session 2 – 12.00 – 1.00pm

- ESTA presentations on DEC's, A/C and boilers

Session 3 - 2.30pm

- **Finding the right energy assessor and advice on how to qualify yourself.**
 - Jacqueline Balian, MD, CIBSE Services