

The Midcounties Co-operative

The reality of reducing carbon in business

**Oxford City Council
Low Carbon Breakfast
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Principle areas of carbon impact for Midcounties

- Energy use
- Business mileage
- Waste management
- Water

Energy

- ◆ **Midcounties energy use for 2006 – 07**
86 GWh
- ◆ **Cost**
 - Electricity - £6million +
 - Gas - £0.5million +

Energy

- **Midcounties made a commitment to reduce energy consumption by 20% by 2010**
 - **Energy efficiency measures**
 - Light Sensors fitted to toilets and storage area lighting in office buildings in Walsall and Oxford.
 - Time Clocks fitted to wines, beers, carbonates and non perishable chillers in Retail Food Stores
 - Energy efficient lighting is included in our specifications for new stores and refurbishments.
 - Refrigeration equipment replaced with energy efficient units listed by the ECA Energy Technology List



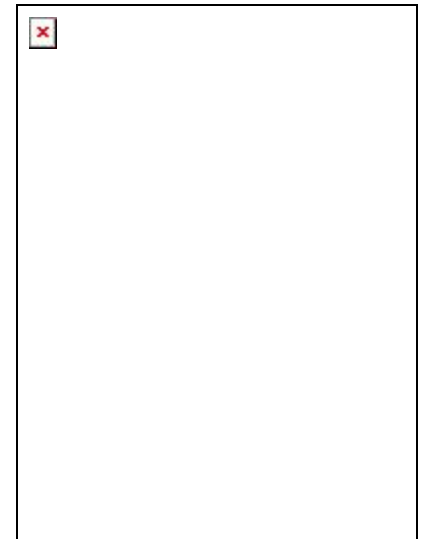
Energy Management & Monitoring

- ◆ Smart metering being installed in all food retail stores.
- ◆ Energy & environment steering Group
- ◆ Energy & Environment Champions

Energy Procurement

- **Electricity procured through the Co-operative Group in Manchester**
 - guaranteed 100% certified 'Green Energy at no extra cost – from wind, solar and small scale hydro generation
 - No climate change levy
 - Option on 5 year contract

Significant reduction in Carbon footprint



Renewable Energy

- Photovoltaic (PV) panels installed on the Motorworld canopy at Botley Road.



Renewable Energy

- Wind turbine
850Kw turbine – sufficient for up to 75% electricity needs of Co-operative House, Motorworld and Botley Store
- Planning application for wind speed test mast waiting to be heard by committee.



Business Mileage

- Currently use carbon offset company Carbon Neutral to address the CO₂ emissions from our business mileage.
- Investigating recording of business mileage electronically
 - Better journey planning
 - Car sharing
 - Greater use of tele and video conferencing
- Potential for off setting CO₂ through in-house environmental projects.

Waste Management

- Reduce
- Reuse
- Recycle
 - All have an effect on reducing carbon emissions
 - Manufacture
 - Transport
 - Disposal
- Food waste
 - Major issue
 - Methane CH₄ - 21x more potent greenhouse gas than CO₂
 - Valuable renewable fuel resource

Water

- **Significant carbon impact – often overlooked**
 - It is estimated that use of 1m³ of water releases 400g CO₂ into the atmosphere as a result of the energy used during the associated processes, pumping, purification etc.
 - Water - potentially a limited resource
 - Midcounties – estimated 4 million m³ water consumption 2007
 - 1600 tonnes CO₂
 - Rainwater harvesting and grey water recycling – becoming more cost effective and can significantly reduce CO₂ emissions from water use.