



## envirowise } Overview of the Programme

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## Partnership Objectives

- Important part of Millennium Stadium commitment to sustainability and environmental best practice
- Reduce environmental liabilities
- Reduce waste and costs from joint business activities
- Reduce environmental impact throughout the supply chain
- Waste costs UK business £15 billion every year



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## The Envirowise Model

- Unique project for Millennium Stadium and suppliers
- Launch (today)
- Free on-site support for qualifying suppliers
- Free training workshops
- Measure your success – become an exemplar supplier for the Millennium Stadium
- PR opportunities for exemplar suppliers
- Envirowise will support you!
- Slides at [www.enviromentor.co.uk/contacts](http://www.enviromentor.co.uk/contacts) and follow links for Millennium Stadium



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## Launch

- 10.00 → Welcome by the Millennium Stadium
- 10.20 → Introduction to the Supply chain programme
- 10.30 → Supply chain drivers and benefits
- 11.00 → Coffee/teabreak
- 11.10 → Workshop 1: Sustainable supply chain practices
- 11.30 → How Envirowise can support your partnership
- 11.40 → Workshop 2: Get it sorted – managing supply chain waste
- 12.00 → How to get started – hints, tips and cost savings
- 12.10 → Workshop 3: Action Plan
- 12.20 → Sign up for free Envirowise support, Q & A
- 12.30 → Lunch
- 13.15 → Tour of the Stadium  
*Approximately 45 minutes, including a look at the waste management of the Millennium Stadium.*



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## On-site Support

- Free on-site support for eligible companies
- Gather data – understand opportunities for resource efficiency and diverting waste from landfill
- Assistance to implement and measure improvements
- Confidential and impartial advice
- Action Plan and projected cost savings



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## Training Workshops

- Technical Training workshops – 2 days
- Strengthen your knowledge and skills
- Speakers are experts in their field
- Learn how to become more sustainable
- Opportunity to network with Millennium Stadium and other suppliers
- Help you develop sustainable improvement plans
- Bring your invoices and bills for confidential review





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## Resource Efficiency and KEPIs

2 November 2010 - morning

- Overcoming barriers, teams and champions
- Interactive waste audit
- How to measure wastes and costs
- Process mapping for raw materials & wastes
- Benchmarking performance
- Key environmental performance indicators
- Why your carbon footprint is important
- Workshop - choosing and measuring KEPI's





## Packaging

2 November 2010 - afternoon

- What do you use packaging for?
- Why is packaging an issue?
- Environmental drivers
- Financial drivers
- Packaging performance
- Core packaging eco-design strategies
- Workshop – assessing your packaging
- Carbon footprint your packaging
- Practical case studies





## Sustainable Purchasing

2 December 2010 - morning

- What is Green Purchasing?
- Why buy green?
- Principles of green purchasing
- Environmental performance
- Green Policy
- Workshop – whole life costing and practical purchasing


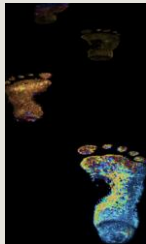





## Environmental Management Systems



2 December 2010 - afternoon

- Why bother with an EMS?
- What do you need to do?
- Different types of EMS
- Workshop
  - Environmental impacts and aspects
  - Environmental legislation
- Developing an action plan


## Measure Your Success

- Impact assessment - January and February 2011
- Contact all companies by telephone
- Measure aggregated financial savings, environmental improvements and future initiatives
- Case study of exemplar suppliers
- PR opportunity for exemplar suppliers


## The Enviowise Model Works!

The host organisations that have been involved over the years include some of the biggest names in the UK:





## Envirowise Supply Chain Partnerships

Have worked with:

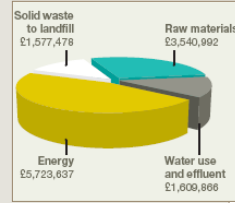
- 37 host organisations
- 612 suppliers
- Identified savings in excess of £12.45 million since 2002
- Realised actual savings of £9.19 million by 2006



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## Results – Reduce Waste and Resources



**Total £12.5 million in identified savings**  
**80% of ideas no or low cost!**

Table 1 Summary of cost benefits resulting from the Forum

INITIATIVE	SAVINGS (£)	CAPITAL COSTS (£)	PAYBACK (MONTHS)
Raw materials use	£3,540,992	£441,420	1-2
Water use and effluent	£1,609,866	£386,480	2-3
Energy consumption	£5,723,637	£209,000	Less than 1
Solid waste to landfill	£1,577,476	£186,737	1-2
<b>Total</b>	<b>£12,451,971</b>	<b>£1,203,637</b>	

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## Benefits of the Programme

- Sharing experiences
- Problem solving
- Networking with other companies
- Targeted to your needs
- Free, independent technical support
- Proven track-record to get results!



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## Join a winning team



[www.envirowise.gov.uk](http://www.envirowise.gov.uk)

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**Benefits & Opportunities**



## Climate Change



- Since 1900, over 1.7 trillion tonnes of CO2 have been emitted from burning fossil fuels, changes in land use and other human activities, increasing atmospheric concentrations from pre-industrial levels of around 280 parts per million to nearly 390 parts per million today.
- A range of observations and modelling studies strongly suggest the climate system is warming in response to the increase of greenhouse gases in the atmosphere:
  - Global average temperatures have increased by about 0.8°C since pre-industrial times, and the ten warmest years on record so far have occurred since 1995
  - Humidity, sea level and ocean heat content have all increased
  - Arctic sea ice, northern snow cover and glaciers have decreased.



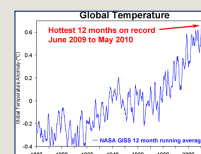
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## 2010 – One of hottest on record



- Extreme weather events such as those in Russia, Pakistan and China this year are consistent with evidence that the climate is changing, and remind us just how vulnerable society is to changes in the climate:
  - the floods in Pakistan have affected approximately 14 million people and at least 1,600 have died as a result.
  - flooding and landslides in China have killed more than 1,100 people and caused tens of billions of dollars worth of damage across the country.
  - the record heat wave in Russia may have taken 15,000 lives and cost the economy \$15 billion as wild fires and drought devastate the country.

**For the UK**  
**Grit your teeth - and your driveway!**  
P.S. last winter was the second warmest globally despite the bad weather experienced here in the UK



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## Does it matter? Yes



Climate change now reveals itself on a weekly basis

- Aedes aegypti mosquito found in the Netherlands
- Global plant productivity increased by 6% in two decades
- Students in the high Arctic report that a glacier retreating at 20 metres a year since 1926 was now retreating 40 metres a year.
- Anxiety about climate change may have lessened –
  - US, China, India show no decisive action.
  - Australia, where climate change is a political football
  - Copenhagen summit rhetoric has evaporated
- Intergovernmental Panel on Climate Change inquiry into errors in its retreat of Himalayan glaciers, 1010 new video and our own "Climategate" affair at East Anglia
- Yes the data are incomplete, the climate modelling uncertain, the predictions inconclusive but it also remains more urgent than ever.

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## How Prepared Are We?



- The UK's climate is already changing. Temperatures are 1°C higher on average than they were in the 1970s.
- Insured losses from weather-related events currently cost the UK £1.5 billion each year on average. The 2007 summer floods cost the economy over £3 billion.
- Two thousand people died in the UK as a result of the 2003 heat wave, an event that could become the norm by the end of the century.
- The largest effects in the UK will result from climate change elsewhere in the world. The impacts will be transmitted through global trade, resource flows, migration and political networks. The UK will have to prepare for these as well.



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## CDP 10 years on



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## Government Actions



- Climate Change Act
  - This places a legal duty to reduce national emissions to a target of an 80% reduction by 2050.
- Others – Energy Act 2010, The Energy Security and Green Economy Bill
- Current economic measures
  - Climate change levy, Landfill Tax (£48 tonne), CRC
- DEFRA Waste Review
  - A zero waste economy and includes business wastes
- Wales Proposed Waste Measure
  - Charges for single use carrier bags; waste targets for local authorities; prohibit or regulate the deposit of waste in a landfill; and site waste management plans for construction and demolition



**CARBON IS THE NEW ECONOMY**  
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### Waste Targets for Wales 2025


- Reduce waste by 1.5% every year (from 2007 level)
- Achieve 27% reduction (from 2007 level)
- All sectors in Wales will be recycling at least 70%
  - this includes **businesses**, households and the public sector.
  - the construction sector will be expected to reuse and recycle 90% of its wastes by 2025.
- Food waste collected separately and managed in anaerobic digestion facilities
- Set negative waste production targets,
- Minimising residual waste
  - residual waste will be phased out of landfill sites and sent to energy from waste' plants
- Landfill will be eliminated as far as possible
  - to reduce Wales' greenhouse gas emissions



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### Credit Crunch - Green Crunch?

- Green consumers are becoming mainstream in US, Europe
  - light bulbs, white goods saving energy, food etc.
- Credit crunch has stalled some markets
  - where sustainable initiatives are seen as a luxury and thrift is more important . Sales are down for first time since 2002
- Go green save money works
  - For example Persil with reduced packaging, energy and water efficient appliances
- Consumers now turning
  - See less need to upgrade: e.g. mobiles, TV's or SUV's (a 2005 BMW X5 V8 4.4i cost £48K new, now worth £17K)
- Food is complex
  - local to save carbon miles, Fairtrade to give a livelihood, should water be in bottles. Meat (CO<sub>2</sub>), fish (sustainability) will become bigger issues and more expensive.
- Brands will have to work harder than they do at present and be seen to be giving back
  - e.g. Life Water that funds clean water in Africa.




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### Business Action (Economist Intelligence Unit)

**Key findings - despite a severely deteriorated economic environment**

- Two-thirds of companies have energy efficiency initiatives
- Goals include switching to renewable sources of energy
- Companies have begun to measuring emissions not only from their own processes but from their products and services as well
- 40% of survey respondents say they have developed new products and services to reduce environmental problems, and 41% have improved the environmental footprints of existing ones
- 30% expect green products and services to remain a high priority
- Less than 25% have begun to prepare for possible disruptions from shifting weather patterns, while 18% have taken steps to protect their supply chains from such possible disruptions



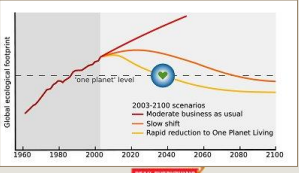
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### One Planet or Three


The 21st century has ushered in an era of decline in a number of crucial areas: global oil, natural gas and coal extraction; minerals and ores, such as copper and platinum; economic growth; yearly grain harvests; fresh water; climate stability; and population.

**10 principles of sustainability:**

1. Zero carbon
2. Zero waste
3. Sustainable transport
4. Local and sustainable materials
5. Local and sustainable food
6. Sustainable water
7. Natural habitats and wildlife
8. Culture and heritage
9. Equity and fair trade
10. Health and happiness



**One Wales: One Planet**  
The Sustainable Development Annual Report 2009-2010




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### Carbon Footprint


- Stage 1 completed – reduces directly controlled emissions
- Stage 2 – reduce emissions across the supply chain
- Stage 3 (Optional): Offsetting

Raw material → Distribution, manufacturing & retailing steps → Product use & disposal


Supply Chain



The UK's carbon footprint is 648 million tonnes of Carbon Dioxide (CO<sub>2</sub>) per year.



Current total: 2,400,000 tonnes CO<sub>2</sub> (average: 1,000/yr)



working with The Carbon Trust

100g CO<sub>2</sub>

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### Resources

We need to re-think products and processes

- not just clean but lean!
- Companies with creative methods to reduce resources will have a flying start
- Some companies now considering not only zero carbon but negative carbon – i.e. a contribution




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### First Convince Yourself



#### UK Individuals

- ⊖ Hopeless at recycling
- ⊖ Worse at reducing waste
- ⊖ Bottom of the waste league in Western Europe
- ⊖ The landfill rules - OK!



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### What About The Stadium



Waste fraction #	%	Tonnes of waste PRODUCED#	Tonnes of waste treated (disposed of) by #=						Total Net kg CO <sub>2</sub> e emissions by waste fractions
			Open Landfill	Closed Landfill	Energy from waste	Power only reusing waste	Anaerobic Digestion	Composting	
Paper and Card	%	55.4t	%	55.4t	%	%	%	%	56,440t
Kitchen/Bio-waste	%	18.5t	%	%	%	%	18.5t	%	63,020t
Construction waste	%	50.2t	%	%	%	%	50.2t	%	1,930t
Other organic	%	%	%	%	%	%	%	%	0t
Woods	%	%	%	%	%	%	%	%	0t
Textiles	%	%	%	%	%	%	%	%	0t
Plastic containers	%	18.5t	%	18.5t	%	%	%	%	26,725t
Plastic bottles	%	%	%	%	%	%	%	%	0t
Ferrous metal	%	%	%	%	%	%	%	%	0t
Non-ferrous metal	%	18.5t	%	18.5t	%	%	%	%	30,440t
Stainless	%	%	%	%	%	%	%	%	0t
Aggregate materials	%	%	%	%	%	%	%	%	0t
Non-combustibles	%	%	%	%	%	%	%	%	0t
Glass	%	19.4t	%	19.4t	%	%	%	%	10,185t
Tyres	%	%	%	%	%	%	%	%	0t
Estimated impact of other materials	%	%	%	%	%	%	%	%	0t
Total Net kg CO <sub>2</sub> e emissions by category		407,460t	0t	206,810t	0t	0t	3,835t	0t	%
Grand Total Net kg CO <sub>2</sub> e emissions									294,420t

- 200 tonnes of waste equivalent to 400 tonnes CO<sub>2</sub> per year
- 1.2 million miles by car, 2.3 million miles by bus, 4.1 million miles by train
- To offset £10,000 in an approved scheme

Figures from DEFRA

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### Where Does It Come From



Item	Quantity	Unit	Weight of product	Total (all items)	Total (all items)	% composition of waste	% composition of card in waste
Beer/Bottle Glass	150	200	140	470	50000	0.02	3.2
Beverly/Drink Card	8000	87	10	470	50000	7000	0.4
Beer/Dark PET bottles	7000	240	16	470	10000	10700	2.3
Beer/PET Bottles	2000	12	16	470	8000	2400	0.5
Alcohol/PET Bottles	7000	100	16	470	20000	8400	1.8
Corn starch plate glasses	80000	11	10	470	80000	3947	0.8
Corn starch trays	4000	1	10	470	10000	2500	0.5
Compost	80000	41	10	470	200000	8000	1.7
Hot dog Buns	2000	14	6	470	2000	1000	0.2
Hopkins	5000	1	6	470	24000	1640	0.3
Hot dog boxes	80	1	6	470	7000	7000	1.5
Hot dog roll boxes	8	250	6	470	17000	17000	3.6
Chips	200	1	1	470	800	800	0.2
Chocolates	2000	1	1	470	2000	1000	0.2
Plastic Trays	1000	78	20	470	30000	26250	5.7
Kitchen Boxes	200	1	6	470	8000	8000	1.7
Match Carriers	800	1	6	470	7000	7000	1.5
Sanitary Pads	8000	1	6	470	47000	47000	10.0
<b>All figures are approximate</b>					200000	34000	16.7
<b>Total Product packaging and 7 items Packaging</b>					<b>2.48</b>	<b>1.48</b>	<b>60.0</b>

- On a typical Event Day the visitors use
- 80,000 corn starch glasses, 10,000 cardboard carry trays, 17,000 PET bottles, 12,000 wine bottles
  - This becomes 4.5 tonnes of waste per event and 78% of the total stadium waste for the year.

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### Think About This?



When brushing your teeth and washing your face, how do you use the tap water?



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### The Tap - Turn it on and off!



By letting the water run, you waste more than 5 litres of water each time!  
In the course of one year, you will use 3,650 litres of water - enough to fill 18 big steel drums with water



If you brush your teeth twice a day, morning and evening, by using water in a cup  
2/3 cupfuls at ~0.5 litre  
~100 litres per year

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### Other Behaviour Changes



- Buy only what you need
- Eliminate Draughts
- Reuse Scrap Paper
- Use Showers
- Eliminate Junk Mail
- Double Sided Printing
- Set Thermostats Correctly
- Use Refillable Dispensers
- Use Cloths not Paper Towels for Cleaning
- Avoid Disposable Products
- Avoid unnecessary Packaging
- Buy Locally
- Wash Veg in a sink not a running Tap
- Switch off Appliances and Lights



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## Workshop - Sustainable Supply Chain Practices




## Workshop Questions

1. How do you assess or select products and services?
2. How do you assess your suppliers?
3. Can you list good and poor examples of supply chain practices for your business and what can you do to encourage improvement?
4. What is different or special (opportunities & constraints) about your supply chain?
5. What can you do or have you done to implement a sustainable supply chain?
6. How do you or could you provide assurance to your customers for your product or service?
7. What support do local business need to drive forward improvements in their supply chain?




## Sustainable Supply Chain - Key Elements

1. **Why?** – Values, Risks, Market, Cost reduction, Legislation
2. **How?** – Internal change first, identify suppliers, make it part of the business, Measure, Implement initiatives, set standards and accreditation
3. **Upstream** – Codes of conduct, Checklist for supplier management, Rate suppliers, Proof of practice
4. **Internal** – Strategic Partnerships, Develop logistics
5. **Product Stewardship** – Plan demand, LCA analysis, Disposal







**Overview of Envirowise Tools and Services**  
 Helen Grey  
 Envirowise Regional Manager  
 South Wales






## Workshop - Get It Sorted!

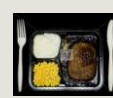





## Workshop Introduction

- Starbucks ran a competition this year (April 2010) to try and improve on the humble disposable cup with cash prizes of \$20,000 for the best entries. The paper cup was first produced as the Dixie cup in 1907 by Lawrence Luellen a Boston lawyer. They replaced the shared public glasses (dippers) that were commonly used at the time. Now 58 billion paper coffee cups are thrown away, un-recycled each year.
  - Do we have the solution?
- The packaging for a "microwave" dinner is programmed for a shelf life of maybe six months, a cook time of two minutes and a landfill dead-time of centuries.
  - Could we do better?







## Wal-Mart & Asda


- Packaging must be functional, cost effective and often tied in with branding, but we can also assess its environmental credentials.
- Recently Wal-Mart and now Asda have introduced their new packaging scorecards to assess supplier packaging.
- These are detailed questionnaires that all suppliers have or will have to complete online. Wal-Mart's packaging scorecard contains information for about 90% or about 300,000 items carried in Wal-Mart stores.


**Sustainable Packaging Scorecard**

Scorecard is focused on four key concepts:

- Material Type
- Material Weight
- Design for recovery/reuse
- Material Utilization

- 15% will be based on GHG / CO<sub>2</sub>
- 15% will be based on Material Value
- 15% will be based on Product / Package Ratio
- 15% will be based on Cube Utilisation
- 10% will be based on Transportation
- 10% will be based on Recycled Content
- 10% will be based on Recovery Value
- 5% will be based on Renewable Energy
- 5% will be based on Innovation







## Our Criteria

In this workshop we have selected 8 criteria that can be used:

- Design for sustainability** (good performance and cost, low impact materials, non toxic, little energy in manufacture, efficient, durable, easily recovered, reused, recycled etc)
- Design for transport** (logistics, light weighted, handling & storage requirements)
- Design for environmental best practices (effects on atmosphere/climate - ozone layer, greenhouse gases (CO<sub>2</sub> and methane), volatile organic compounds, etc.)
- Design for fair labour and trade practices** (worker impact: occupational health, safety, clean technology, etc)
- Design for renewable virgin materials** (Use of renewable resources in packaging, not derived from fossil fuels but natural sources like wood, paper etc.)
- Design for reuse** (repeated reuse of package, or reuse for other purposes)
- Design for recycling** ( recovery value, use of materials which are frequently and easily recycled)
- Design for composting** (Use of biodegradable materials )







## Scorecard

- Each group have been given a plastic bag containing a number of items that approximately serve the same function - a cup, a bottle for product, a drink etc. We would like you to consider each of the items and try and score them to determine which you think is the best method for the packaging. In terms of supply and point of use we will assume that the product is UK distributed and used here at the Millennium Stadium.

Design Criteria	SCORES 0-5			
	Material 1	Material 2	Material 3	Material 4
<i>For example</i>	Paper Cup	PET Cup	PS Cup	Corn Cup
Sustainability				
Transport				
Environmental Best Practice				
Labour & Trade				
Renewable virgin materials				
Reuse				
Recycling				
Composting				
<b>Score Totals</b>				






## Identify, List, Discuss and Score

- Identify each of the packaging materials you have been given and list the items at the top of the scorecard.
- Discuss the criteria and award the packaging a score of 0-5 (5 being the best) for each of the environmental criteria. You will have to make assumptions based on your experience where you are unsure of some of the facts.
- There are no clear "right" answers but certainly some materials are better than others. For example, a bio-degradable refuse sack can be composted, but is often landfilled, as it looks and feels like plastic. Materials need to be labelled clearly and the most appropriate disposal/recovery option identified.
- Feel free to swap your items as you complete each set.

Design Criteria	SCORES 0-5			
	Material 1	Material 2	Material 3	Material 4
<i>For example</i>	Paper Cup	PET Cup	PS Cup	Corn Cup
Sustainability				
Transport				
Environmental Best Practice				
Labour & Trade				
Renewable virgin materials				
Reuse				
Recycling				
Composting				
<b>Score Totals</b>				



### Starbucks' Winners!!!



- On the Starbucks' cup – the winner was.....not a cup but an idea to encourage people to bring their own cups.
- This winning idea was the Karma Cup, a simple concept for putting a chalkboard by the register at a coffee shop, having customers that use reusable cups make a mark on the board, and then giving a free coffee to every 10th customer that uses a reusable cup.
 
- A disposable but reusable cup made from rice husks and 100% biodegradable and can be composted in you garden came second. It has an RFID tag in the cup so that Starbucks can track how often you have used it and give you a discount – costs less than 5 pence.
 






### A Fast Start Hints and Tips for Your Action Plan





### Waste - Think Packaging.....?



- Can packaging be reduced or eliminated?
- Can the packaging received from suppliers be re-used?
- Can you use waste from other parts of the business, e.g. shredded paper from office waste, for infill to packaging?
- Draw a diagram of the packaging cycle and identify areas for re-usable packaging
- Discuss with your suppliers whether incoming packaging can be returned




### Green Purchasing - What Did The Salesperson Say?





### Resources Keep Alert – Look For ...



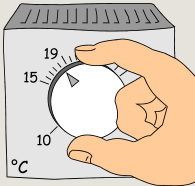
- Leaks
- Inappropriate use
- Water savings
- Tariff






### Resources - Watch Those Temperatures!


- Overheating by 1°C can increase fuel bills by 10%



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### Heating System Losses

- Combustion efficiency
- Boiler & distribution losses
- Idling losses
- Summer operation HWS
- Decentralisation
- Condensing boilers



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### Don't Use The "British Thermostat"



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### Resources - Lighting

The lights are on...but nobody's in!

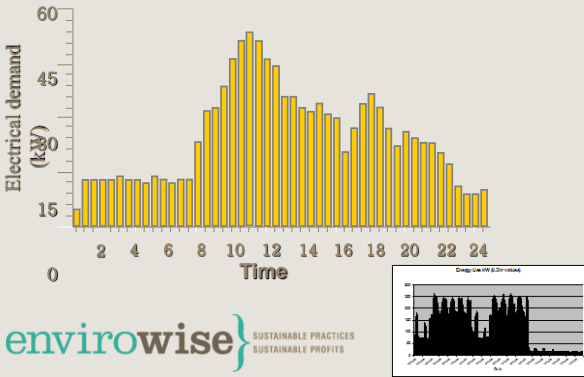


Switch off!



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### Resources – Check Your Bills and Use



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### Resources – Green Your Office!

- Paper - 7 reams of paper /person/year
- Waste - 200 kg waste paper/person/year
- Recycling - 60-70% recycling rate for paper, card, glass, toner, cans
- Water - 7700 litres (7.7 m<sup>3</sup>) /person/year




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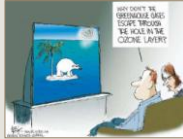
## Workshop



### Making An Action Plan - Your Actions Matter!

- You have systems to reduce the impact on the environment
- These are only as good as the way they are used by you
- Consider the environment and the bigger picture by reducing raw material use, water and energy
- Where you can't reduce consider reuse and recycling where possible
- We all can make a contribution.

• What's your first idea ? .....



## Questions & Discussion

