Environmental Efficiency in the Food and Drink Industry FDF's Five-fold Environmental Ambition

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Food and Drink Federation

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The UK Food and Drink Industry

- Represents 15% of the UK's total manufacturing sector
- Is the fourth largest food and drink manufacturing industry in the world
- Directly employs about 440,000 people
- Is an important trading partner with Europe…
- …and a key partner for UK farmers
- Comprises 6,500 companies, the majority being SMEs or micro enterprises

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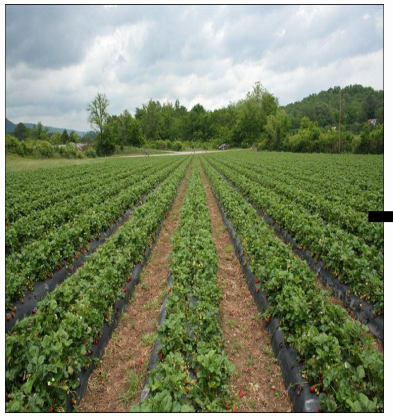
Manufacturing is part of a “food chain”
Each link in the chain must play its part…



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our five-fold ambition
for the environment

Making a real difference

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FDF’s Five-Fold Environmental Ambition

- FDF is being bold about making a real difference for the environment
- Our members have good environmental records individually
- This is a collective and more structured approach

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Our five-fold ambition

- **Carbon**

- to achieve a **20%** absolute reduction in CO_2 emissions by 2010 compared to 1990;

- to show leadership nationally and internationally by aspiring to a **30%** reduction by 2020;

- We will shortly be publishing our Year 3 progress report which will show how well we are doing on this key indicator.

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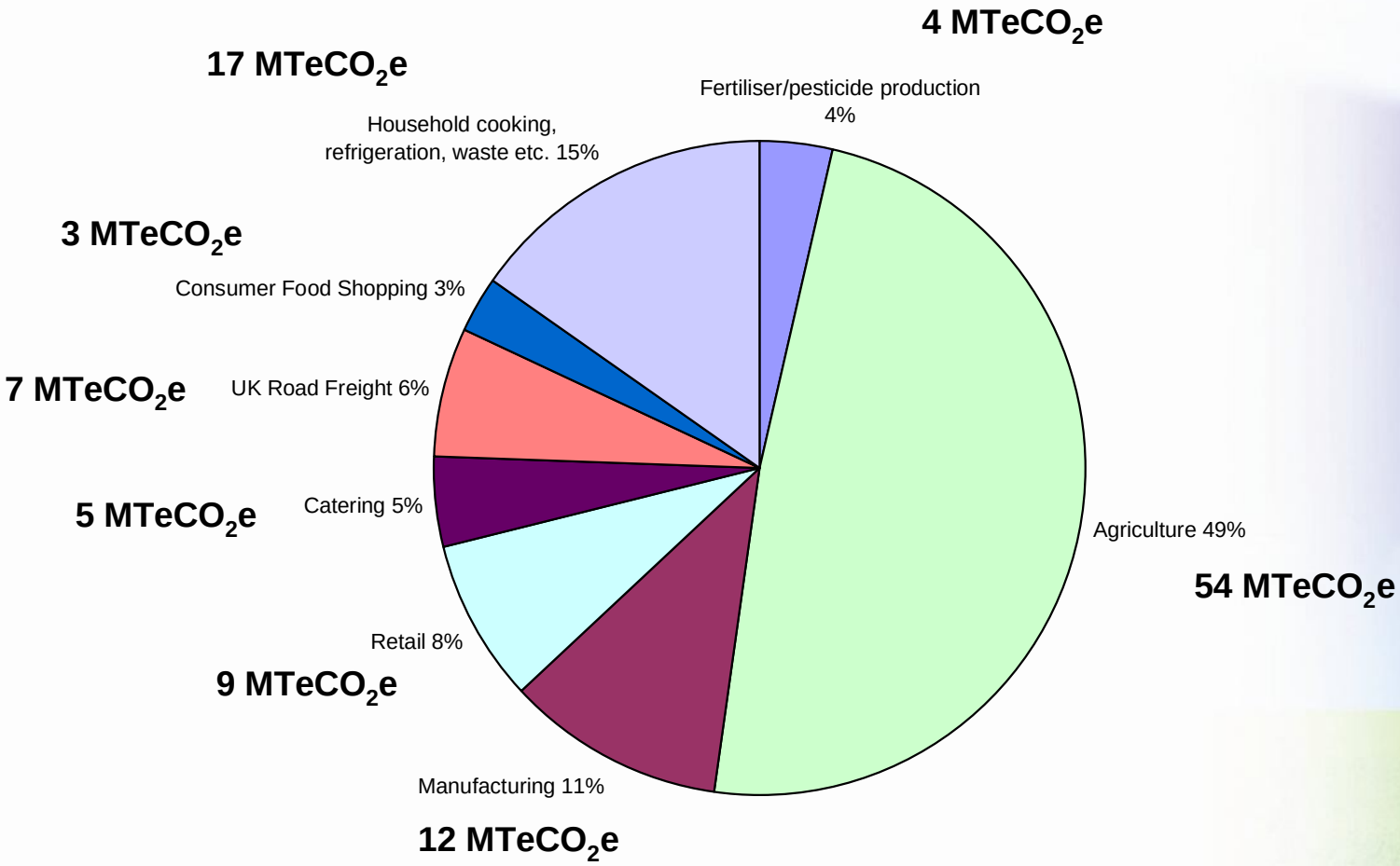
UK Food Chain Greenhouse Gas Emissions 2004



Total = 111 $MTeCO_2e$ – 17% of:

UK = 659 $MTeCO_2e$

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Our five-fold ambition

- **Landfill**
  - To seek to send zero food and packaging waste to landfill from 2015;
  - 2008 waste survey showed we prevented 500,000 tonnes of waste in 2006 and that 82% of waste was recycled or recovered at 236 sites.

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Our five-fold ambition

- **Packaging**
  - to make a significant contribution to WRAP's work to achieve an **absolute reduction** in the level of packaging reaching households by 2010 compared to 2005;
  - to provide **more advice** to consumers on how best to recycle or otherwise recover used packaging.

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Packaging in context

- Packaging from all sources is less than 3% of waste sent to landfill (wt/vol);
- Industry achieved a zero growth in grocery packaging waste 2006-08;
- Around 66% of used packaging was recovered or recycled in the UK in 2008;
- The UK uses less packaging per person than the EU - 15 average;
- Energy used to make packaging is about 10% of total supply chain energy. Hence food waste is a much bigger problem!

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Packaging functionality

- Protect and preserve
- Communicate vital information
- To satisfy lifestyle demand
- To offer convenience in use

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Young’s Seafood

Redesigned packaging for its Lightly Smoked Salmon Fillets (250g) reducing weight by 13%. Also introduced a 100% recyclable carton and reduced the packaging size by 26%.

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Warburtons

Launch of new 600g sized loaf helping to reduce food waste

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Nestlé UK Limited

Reduced the height by 10mm to save more than 200 tonnes of steel pa plus cut the weight of the small round tins saving 37 tonnes of steel pa.

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Greencore

Weight reduction of 70% during 2007,
saving 115 tonnes of plastic

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Coca Cola Enterprises

Saved more than 3,500 tonnes of glass and an estimated 2,200 tonnes of CO2 per year

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Reducing the impact of packaging - what companies are doing

- Redesigning and reformatting materials and products;
- Avoiding material combinations where environmentally beneficial;
- Optimising materials, pack size to improve overall resource efficiency;
- Using recycled content.

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Our five-fold ambition

- **Transport**
  - to **embed** environmental standards in our transport practices to achieve fewer and friendlier food transport miles;
  - to contribute to the FISS target for the food chain to reduce its external impacts by **20%** by 2012 compared to 2002;
  - 47 companies turning over £17bn have signed up to our checklist and clause for greener transport.

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Our five-fold ambition

- **Water**
  - to achieve **significant reductions** in water use;
  - to contribute to an industry-wide absolute target in the FISS to reduce water use by **20%** by 2020 compared to 2007.

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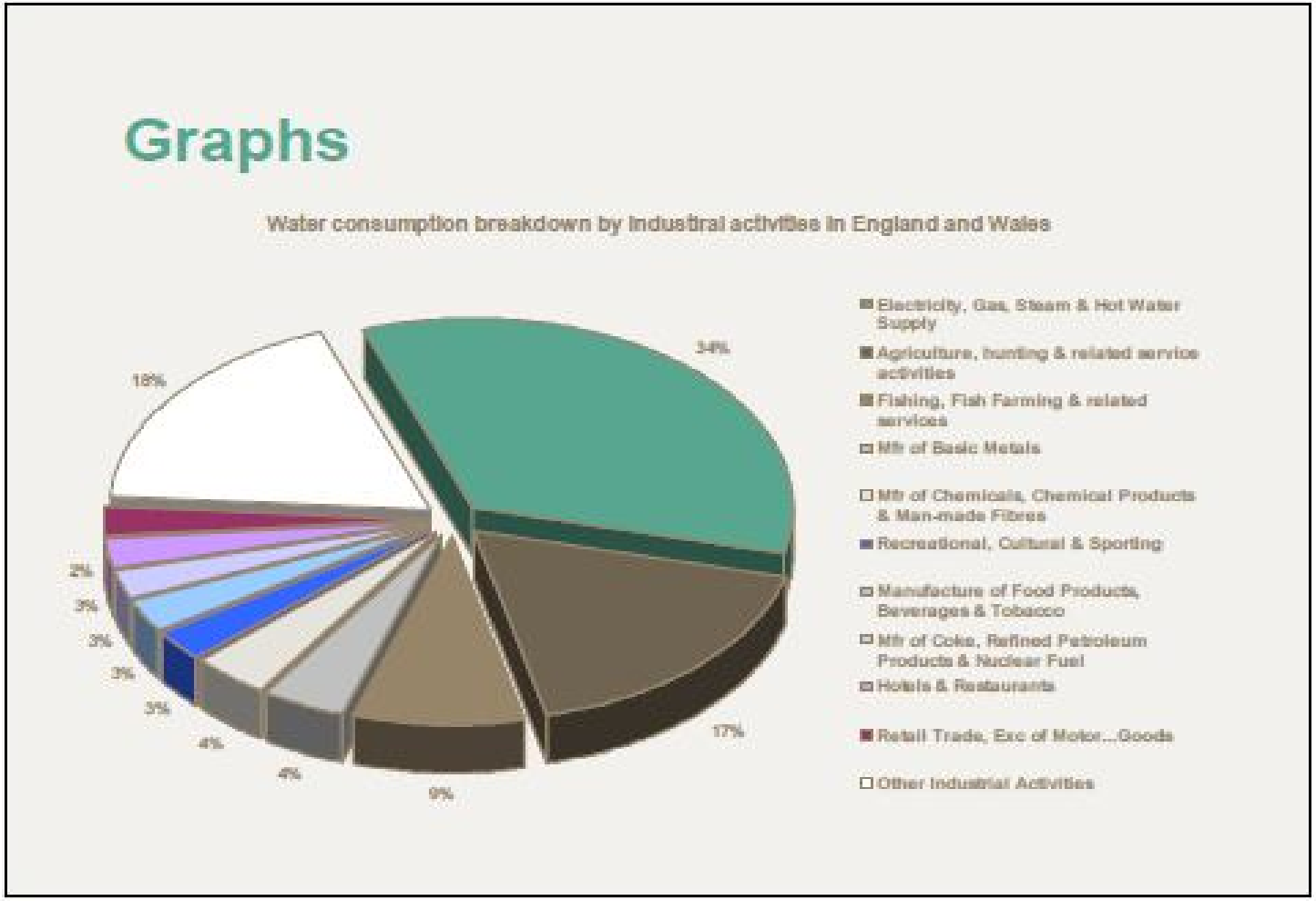
Water use in the Food and Drink Manufacturing Sector



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Delivering our water ambition

- FDF has worked closely with Envirowise and WRAP to develop a common framework for improving water efficiency best practice;
- Launched on 28 January 2008 as the Federation House Commitment (FHC);
- 21 FDF members with a combined turnover of over £15 billion signed up on day 1;
- www.FHC2020.co.uk.

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FHC2020 HELPING THE FOOD & DRINK SECTOR IMPROVE WATER EFFICIENCY

Member Login:
Email Address
Password

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JOIN US IN HELPING TO CONSERVE OUR NATURAL RESOURCES - REDUCE WATER USAGE BY 20% BY THE YEAR 2020

The Federation House Commitment (FHC) aims to reduce overall water usage across the Food and Drink Industry by 20% by the year 2020.

FHC will help the Food and Drink Industry to become a leader in national efforts to improve water efficiency. All companies from within the industry are encouraged to become members of the FHC. In doing so companies will improve their environmental efficiency and increase their profits at the bottom line.

Say yes to reducing waste, yes to increasing profits, and yes to a better environment for all of us. Become an FHC Member now.

2020

FEDERATION HOUSE COMMITMENT

REGISTER JOIN NOW

The Federation House Commitment represents a win win for us all - the environment and your company's bottom line. Register online to join now!

MEMBERS

More than 20 companies joined the FHC right from the launch - see who is on board and add your company to the list!

INTERESTING FACTS

A tap dripping two drops a second could waste nearly 10,000 litres of water in a year.

More water facts and tips

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envirowise SUSTAINABLE PRACTICES SUSTAINABLE PROFITS

Food and Drink Federation FDF

Delivering our water ambition

Federation House Commitment

- Developing a 2007 baseline of water use;
- Assessing water use at each manufacturing site;
- Developing site specific action plans;
- Delivering against action plans;
- Providing annual progress reports to WRAP on water and cost savings.

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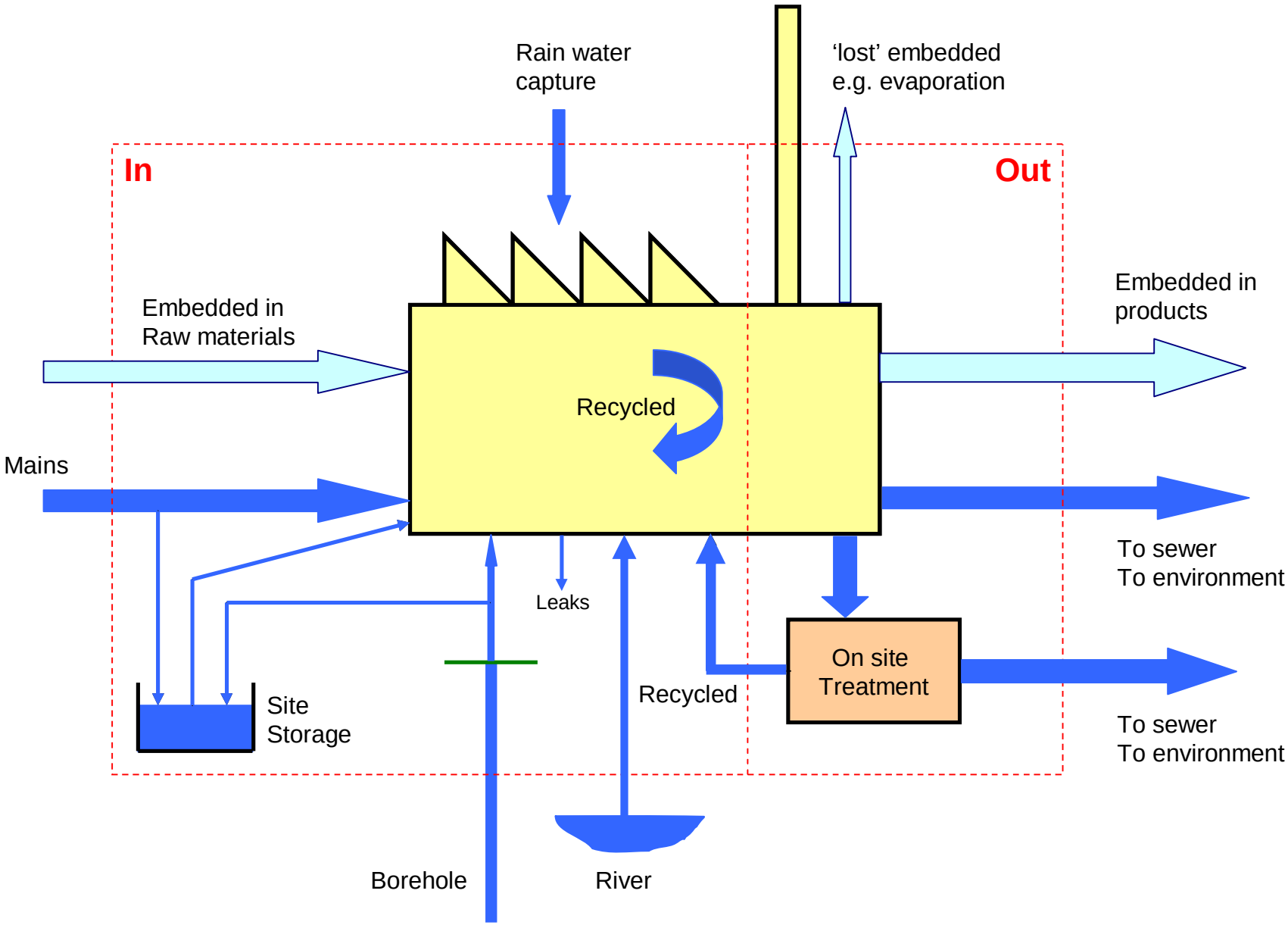
Site Water Balance – main flows



Case study: Cadbury

- **Cadbury Trebor Bassett invested about £2m in a waste water treatment plant at its site in Chirk:**
  - it produces high quality water which is used to feed boilers to raise steam;
  - water use has been reduced by 15%;
  - about 17m litres of water saved per year;
  - £10,000 in water costs saved per year.

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Case study: Walkers

- **Reflecting its philosophy that if you don't measure it you cannot manage it, Walkers:**
  - installed around 30 water meters to measure water use per shift at its Leicestershire sites;
  - developed engineering solutions to reduce water use;
  - changed attitudes and behaviour by making staff passionate about water conservation;
  - achieved water savings of about 700 m litres/yr.

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Five-fold – Way Ahead

- Year 3 Progress report to be published on 8 December;
- Will include outcome of review carried out this year looking critically at existing targets and wider issues;
- Looking to establish a “whole chain” approach with our suppliers and customers.

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What We Need

- A coherent policy framework which makes sustainable food production a key strategic priority for the UK, both to:

  - help contribute to national food security &

  - meet the challenges of climate change.

- Evidence based decision making, using proper life-cycle analysis tools.

- Efficiency of resource use throughout the chain.

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Which Also…

- Allows the UK to exploit its comparative advantages;
- Ensures a level playing field for UK businesses;
- Incentivises individuals to change their behaviour.

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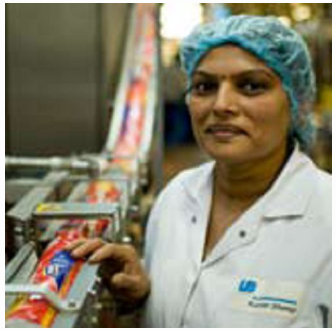
Thank you…..



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