

A large, vibrant sunflower head occupies the left side of the image, its bright yellow petals and textured center contrasting with a blurred green field in the background.

OPEN ▶

OUR FIVE-FOLD ENVIRONMENTAL AMBITION

PROGRESS REPORT 2013



The Food and Drink
Federation 1913 - 2013

Food and Drink
Federation



Delivering Sustainable Growth

INTRODUCTION

The food and drink industry is the UK's largest manufacturing sector and plays an essential role in supplying consumers with safe, nutritious, appetising and affordable food.

Through FDF's Five-fold Environmental Ambition, we have successfully delivered major improvements in resource efficiency as well as absolute reductions in carbon, food and packaging waste, water and transport in our processing operations. And we have achieved all of this while still increasing output to meet growing demand, both here and in export markets – the key to true sustainability.

Most of the major impacts associated with food production, however, take place in our supply chains and in the way consumers use and dispose of what they buy, rather than on or in our manufacturing sites.

With global pressures on food systems continuing to increase, we are committed to helping member companies adopt a whole chain approach to sustainable production and consumption – from sourcing policies and supply chain risk management, right through to consumer choice and expectations.

We need to produce more from less, and with less impact, using all the enterprise, innovation and leadership our industry has consistently shown. We also need to work with suppliers, customers, policy makers and others to deliver sustainable growth, which will provide a safe, healthy and secure food future for all.

"As the new chair of FDF's Sustainability Steering Group, it is great to see the industry coming together to raise our collective environmental performance through the sharing of expertise and insights and the drive for action by member companies. FDF's Five-fold Environmental Ambition remains our roadmap for delivering quantifiable achievements and this latest report again highlights the impressive progress made. This really is about doing the right thing, now and for generations to come. Improving the sustainability of our supply chains will also help strengthen authenticity and traceability and help ensure future food security. We need to work together to become evermore resilient, resource efficient and responsible in what we produce and consume. FDF seeks to continue to play a leading role in this area."

Leendert Den Hollander

CEO, Young's Seafood and Chair, FDF's Sustainability Steering Group

OUR WIDER AIMS

To address impacts in our supply chains and help consumers make more sustainable choices, we also aim to:

- **Supply consumers with safe, nutritious, appetising and affordable food and to help them make sustainable choices** which will secure these benefits for the future
- Lead by example, building on the success of FDF's Five-fold Environmental Ambition to **extend our influence across the supply chain** as part of a longer term food strategy
- Work with our suppliers, customers, employees, policy makers and other stakeholders to develop the necessary information, skills and business environment to **deliver continuous improvement** in the use of energy, water and other natural resources to help address the pressing global issues of climate change and loss of biodiversity
- **Encourage the development of life-cycle thinking** throughout the supply chain and try to remove systemic barriers to improving resource efficiency, from the sourcing of raw materials to the disposal of post-consumer waste
- **Promote innovation and technology** to reduce waste and extract maximum value from the resources we use and to help consumers get the most from our products

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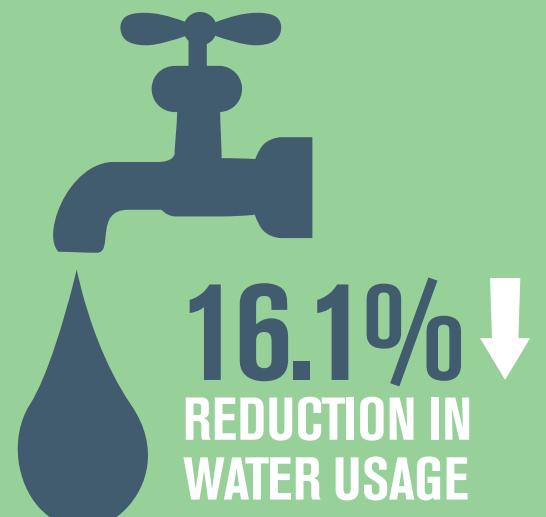
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Tackling direct environmental impacts in our members' own operations remains at the core of FDF's Five-fold Environmental Ambition – continuing to deliver significant financial savings as well as measurable progress against **class-leading targets** in carbon reduction, water saving, food waste, packaging and transport.

We have also been able to show that this can be achieved while increasing output - **decoupling growth from the impacts of production** – generating employment and income across the economy, while also adding value as the largest customer of UK agriculture.

OUR CURRENT TARGETS

CO₂ EMISSIONS

Achieve a 35% absolute reduction in CO₂ emissions by 2020 against a 1990 baseline.

WASTE

Seek to send zero food and packaging waste to landfill at the latest by 2015 and make a significant contribution to WRAP's Courtauld Commitment 3 target to reduce traditional grocery ingredient, product and packaging waste in the grocery supply chain by 3% by 2015, from a 2012 baseline.

PACKAGING

Make a significant contribution to WRAP's Courtauld 3 target to improve packaging design through the supply chain to maximise recycled content as appropriate, improve recyclability and deliver product protection to reduce food waste, while ensuring there is no increase in the carbon impact of packaging by 2015, from a 2012 baseline.

WATER

Achieve significant reductions in water use to help reduce stress on the nation's water supplies and contribute to an industry-wide absolute target to reduce water use by 20% by 2020 compared to 2007.

TRANSPORT

Embed environmental standards in our members' transport practices, including contracts with hauliers as they fall for renewal, to achieve fewer and friendlier food transport miles and to make a contribution to the Freight Transport Association administered Logistics Carbon Reduction Scheme target to reduce the carbon intensity of freight operations by 8% by 2015 against a 2010 baseline.

2013 PROGRESS

Latest figures show FDF members achieved a reduction in CO₂ emissions from their manufacturing operations of 32% compared to the 1990 baseline. This builds on last year's achievement of a 27% reduction. This keeps us firmly on track towards meeting our 2020 ambition of a 35% reduction.

As of 2012 FDF members have reduced the amount of food and packaging waste they send to landfill to only 3% according to our latest survey results. Signatories to Courtauld Commitment 2 delivered a 7.4% absolute reduction in supply chain waste over the three years of the commitment compared to 2009, substantially exceeding the 5% target.

Signatories to Courtauld Commitment 2 also delivered an on-target 10% reduction in the carbon impact of primary and single use transit packaging over the life of the Commitment compared to 2009. This is equivalent to saving some 594,000 tonnes CO₂e.

Between 2007 and 2012 Federation House Commitment signatories collectively made a 16.1% reduction in their water use (excluding that in product). This reduction is equivalent to 7.4 million m³ water or 2,965 Olympic-size swimming pools.

Results for the first year of the Logistics Carbon Reduction Scheme showed that it delivered a 2.8% reduction in overall CO₂e emissions in 2011 compared to 2010.

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CO₂ EMISSIONS

Reducing CO₂ emissions remains the cornerstone of our industry's efforts to increase the sustainability of food and drink manufacturing and contribute to the growth of a greener economy in the UK.

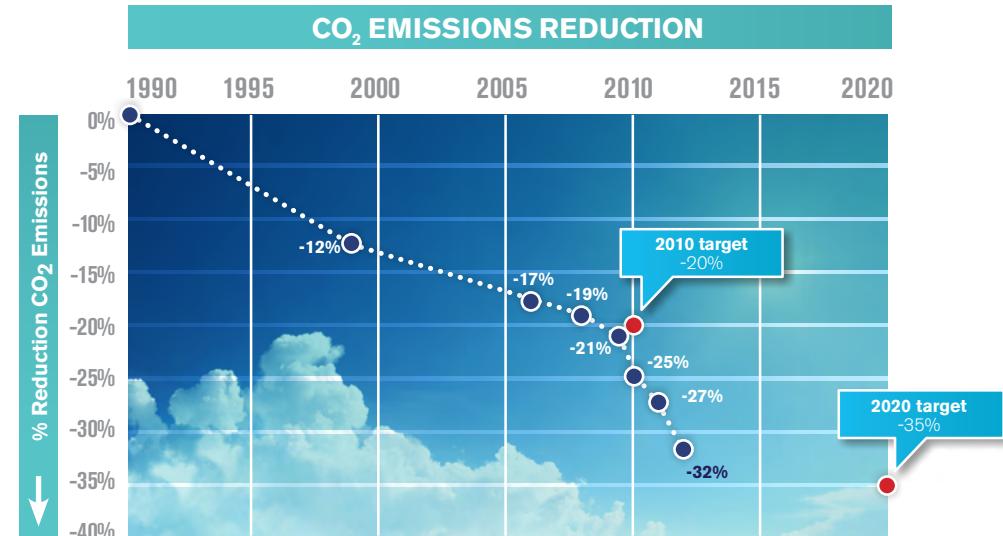
In 2012 FDF members achieved a reduction in CO₂ emissions from their manufacturing operations of 32% compared to the 1990 baseline. This builds on last year's achievement of a 27% reduction. This latest result keeps us firmly on track towards meeting our 2020 ambition of a 35% reduction.

Since the 2008 launch of the FDF Five-fold Ambition, absolute emissions have fallen by 527,000 tonnes of CO₂ - equivalent to the emissions arising from around 165,000 average homes in the UK.

The main focus of activity in 2012 has been the setting up of the new Climate Change Agreement (CCA). Participants in the FDF CCA are now

working towards a new challenging target of an 18% improvement in energy efficiency by 2020 against a 2008 baseline. If achieved, this improvement in energy efficiency will make a significant contribution towards the wider Five-fold 2020 CO₂ emissions reduction target.

In March 2013 the Department of Energy and Climate Change published its strategy on the Future of Heating. As part of this programme, FDF will be working closely with DECC on the development of 2050 low carbon roadmap for the UK food and drink manufacturing sector. FDF very much welcomes this initiative which will form the framework for setting emissions reductions goals beyond our current time horizon of 2020.



*About half of the decline since 2011 is due to changes in how CCA emissions are reported.
The 1990 baseline has not been changed

CO₂ AMBITION:

TO ACHIEVE A 35% ABSOLUTE REDUCTION IN CO₂ EMISSIONS BY 2020 AGAINST A 1990 BASELINE



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[READ FULL CASE STUDY ▶](#)

Unilever's ambition is to halve the greenhouse gas impact of its products across the lifecycle by 2020.

Through a combination of good manufacturing practice and capital investment, Unilever continues to reduce its carbon emissions.

Unilever is reducing carbon emissions – and water use – through metering, monitoring and targeting. At Port Sunlight, it has installed meters that track data to help understand usage. This informs decision-making processes to implement solutions for more efficient operations. The industry standard for carbon savings achieved through such meters is 10–20%.

During 2012, Unilever's Burton site reduced greenhouse gases by optimising biogas production from its anaerobic digester. This biogas is used in boilers to generate steam for use across the site. In 2012, 12% of all gas used was biogas produced on-site, an increase from 2% in 2011. This helped to reduce carbon emissions by over 300 tonnes year on year.

Three of Unilever's UK manufacturing sites have installed more efficient energy generation technology, introducing Combined Heat and Power engines. Furthermore, any additional electricity purchased is now sourced from renewables.



THE COMBINED HEAT AND POWER PLANT AT GLOUCESTER

"Our vision is to double the size of the company globally while reducing our overall impact on the environment. We have significantly improved the eco-efficiency of our operations in recent years, with plans in place to improve further, and we are fully committed to achieving, and where possible exceeding, the Five-fold Environmental Ambition targets."

Amanda Sourry,
Chairman, Unilever
UK & Ireland



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Premier Foods is moving towards a low-carbon and resource-efficient operation. This includes using water intelligently and looking at ways to reduce waste and packaging – without compromising product safety, quality and taste.

Between 2008 and 2012 Premier Foods almost halved its carbon emissions, achieving a 48% reduction. At its Carlton site, the company has retro-fitted a Flue-Ace system to its boilers. This captures waste heat from exhaust gases and uses this to heat other areas of the site.

Last year, its Rank Hovis Mill in Manchester installed a voltage optimisation system to four of its transformers. This initiative alone has delivered an 8% reduction in energy consumption. With the site using 24 million kWh of electricity per annum, this represents a significant reduction in carbon emissions of 1,264 tonnes per annum.



THE VOLTAGE OPTIMISATION SYSTEM HAS REDUCED ENERGY CONSUMPTION BY 8%

"Sustainability issues are becoming increasingly important for all our customers, consumers and other stakeholders. The Five-fold Environmental Ambition has been a motivating factor to help us minimise our environmental impacts. In order for our business to flourish it's important that we continue to deliver sustainability in everything we do!"

Gavin Darby, CEO, Premier Foods

WASTE

Sending **food and packaging waste** to landfill not only **wastes the resources** used in their production, but also **adds to total greenhouse gas emissions** through decomposition. Even though most food waste is generated by households rather than manufacturers, FDF members recognise the need to lead by example in their own operations.

FDF's waste reduction targets are delivered through the WRAP Courtauld Commitment, a voluntary agreement involving manufacturers, retailers and other supply chain partners.

Final results for phase 2 of the Commitment show an absolute reduction in supply chain waste of 7.4% since 2009, compared to a target of 5%. This equates to a weight reduction of some 217,000 tonnes and has been achieved despite an increase in production volumes over the same period.

Household food waste has shown a slower decline at just 3.4%, but this increases to 5.3% if unavoidable waste is excluded, against an absolute target of 4% for the reporting period.

WRAP has also just published new estimates showing a total reduction in avoidable household food waste of 21% since 2007. This suggests that more needs to be done to restore earlier momentum and meet WRAP's aspiration of halving the total by 2025. FDF supports this call and is ready to work with retailers, brands, governments and consumers to achieve it.

FDF undertakes its own surveys to collect data on members' food and packaging waste arisings in order to track progress towards our own zero waste to landfill target, which we aim to achieve by 2015 at the latest. We have just conducted our third such survey, in collaboration with WRAP. Full findings will not be available until early 2014, but headline results suggest that members continue to find new ways of preventing or diverting waste to other uses, sending only 3% to landfill in 2012 compared to 16.5% in 2006.

In addition FDF has been working with supply chain partners, charities, other industry bodies and WRAP to look at ways of increasing the amount of food redistributed by the grocery sector to those in need. A new set of guiding principles for redistributing surplus food has been agreed and FDF is promoting this to members.

We have also been active in supporting and developing wider food waste initiatives, such as the 'Every Crumb Counts' joint food wastage declaration launched by FoodDrink Europe and other European food chain organisations.

WASTE AMBITION:

TO SEEK TO SEND ZERO FOOD AND PACKAGING WASTE TO LANDFILL AT THE LATEST BY 2015 AND MAKE A SIGNIFICANT CONTRIBUTION TO WRAP'S COURTAULD COMMITMENT 3 TARGET TO REDUCE TRADITIONAL GROCERY INGREDIENT, PRODUCT AND PACKAGING WASTE IN THE GROCERY SUPPLY CHAIN BY 3% BY 2015, FROM A 2012 BASELINE.



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Committed to responsible environmental practices, McCain Foods works across the supply chain to implement integrated waste management techniques throughout its operations and with its supply partners.

Following a farm to fork approach, McCain Foods seek to reduce waste throughout the supply chain, from working with growers to maximise crop utilisation, to recovering potato starch from process water which is anaerobically fermented to generate biogas, which combined with three wind turbines, meets 80% of electrical requirement for their Whittlesey site (near Peterborough).

Potatoes are therefore used more efficiently at their factories, with 99% of food waste recycled into animal feed, by-products or renewable energy, resulting in under 60grams per tonne being sent to landfill. Through partnership with FareShare, surplus products are donated to support communities and reduce food waste.

McCain Foods invests in sustainable technology, anaerobic lagoons have been installed at two of their sites, along with a reverse osmosis plant, all contributing towards their goal of sending less than 1% waste to landfill.



ANAEROBIC LAGOON AT WHITTLESEY DURING CONSTRUCTION – THE LAGOON IS NOW COMPLETE AND COVERED

Bill Bartlett, McCain Foods Corporate Affairs Director

“McCain Foods is all about good people making good food whilst conducting good business and our commitment to removing waste at every stage of the supply chain is central to that ethos. Our goal is the successful long term development of our business in a way that is sustainable.”



Interface FOOD & DRINK

Scottish Food and Drink Federation
SDF
Delivering Sustainable Growth

Scottish Industry Advisory Group on Resource Efficiency

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The Scottish Industry Advisory Group on Resource Efficiency is a joint-initiative putting the development of resource efficiency best practice in the hands of business.

The Group formed in early 2013 and is a partnership between the Scottish Food & Drink Federation, Resource Efficient Scotland and Interface Food & Drink.

Having members identify key priorities and test solutions within their own operations ensures that the Group focuses only on issues that are important. It also means that solutions are both cost-effective and practical for food and drink manufacturers.

An early proposal resulted in Gordon & MacPhail, Mackies, Macphie of Glenbevie and Dean's of Huntly agreeing to participate in a collaborative trial for recycling contaminated plastics. As a direct result of this trial, eight companies in the Grampian region now participate in a milk-round collection for slightly contaminated plastics.

By working together, these companies have decreased the amount of waste sent to landfill which in turn, has reduced their company waste disposal costs.

“Being part of the Industry Advisory Group has proved beneficial to me as an individual but more importantly, it has been very valuable to Dean’s as a business. It has helped us both identify and solve several problems and I don’t doubt that more shall follow. A key benefit is the interaction with other businesses that experience similar challenges.”

Les McArthur, Operations Director, Dean's of Huntly



A COLLABORATIVE SYSTEM WAS ESTABLISHED TO DIVERT PLASTIC WASTES FROM LANDFILL

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PACKAGING

Packaging plays an essential role in the safety, quality and shelf-life of food and in conveying important information to consumers about issues such as use, storage, nutrition, ingredients and origin. In terms of environmental impacts, it contributes relatively little to the total product footprint. But it is a very visible use of resources and one which needs to be kept under constant review to ensure an optimal balance between function and impact.

Packaging also forms part of the WRAP Courtauld Commitment. The final out turn from phase 2 shows that food and drink manufacturers along with other signatories have delivered an on-target 10% reduction in the carbon impact of primary and single use transit packaging over the three year reporting period. This has been achieved despite an increase in production volume and is equivalent to saving some 594,000 tonnes CO₂e. Most of the reduction has been achieved due to the work of signatories in optimising packaging. The equivalent weight reduction was 10.7%.

The number of FDF members signed up to the On-Pack Recycling Label Scheme - a UK-wide consistent messaging system to help consumers recycle more - currently stands at 23.

FDF has been part of a unique consortium of packaging and food industry organisations, local authorities and retailers who together with WRAP helped develop and launch a new communications initiative entitled 'Fresher for longer' in March this year, under the Love Food Hate Waste programme.

The initiative, which is supported by a range of new creative materials, is designed to show how food packaging and the way consumers use it can help reduce food waste by maximising the shelf life of products once they get them home. It has been underpinned by some new independent research entitled 'Consumer attitudes to food waste and packaging', also commissioned by FDF and the other consortium members, comprising the largest such survey of UK consumers on this subject. This found that many consumers are not making best use of the information on pack, or the packaging itself, to keep food fresher for longer.

In recognition of the unique nature of this campaign Fresher for Longer received a special Editor's Award at the 2013 Packaging News Awards.

FDF and the other partners are currently working on a second phase of 'Fresher for Longer' due for launch in early 2014 and which aims to give the campaign more traction and buy in among local authorities, retailers and brands.

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PACKAGING AMBITION:

TO MAKE A SIGNIFICANT CONTRIBUTION TO WRAP'S COURTAULD 3 TARGET TO IMPROVE PACKAGING DESIGN THROUGH THE SUPPLY CHAIN TO MAXIMISE RECYCLED CONTENT AS APPROPRIATE, IMPROVE RECYCLABILITY AND DELIVER PRODUCT PROTECTION TO REDUCE FOOD WASTE, WHILE ENSURING THERE IS NO INCREASE IN THE CARBON IMPACT OF PACKAGING BY 2015, FROM A 2012 BASELINE.

PACKAGING: CASE STUDIES



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KP Snacks has an ongoing environmental programme and is working to reduce packaging across its range. Its three-phase packaging project has achieved significant results.

Phase 1 moved Hula Hoop seven-bag multipacks from pillow to flow-wrap format. This generated annual savings of 163 tonnes of cardboard, over 30,000 fewer pallets for delivery, 70 tonnes less film for packaging, and 580 fewer lorry journeys for delivery.

Then, in 2012, the company invested in new flow-wrapping equipment at its McCoy's crisp factory in Teeside. The result, a narrower, tighter six-pack multipack, requires less film, allowing more multipacks in each outer case. This meant 23.4% less packaging film, 10% less cardboard, 10% fewer pallets and 10% fewer trailer journeys.

A further phase in Q4 2012 involved reducing the height of the outer case to allow an extra layer on the pallet. Trials proved successful and KP Snacks implemented this early in 2013, meaning 17,000 fewer pallets a year, 329 fewer trailer journeys, and approximately 60 tonnes less corrugated board.

"We have ongoing programmes throughout our business to achieve improvements in our environmental profile and reduce our impact. Our packaging project is a great illustration of how it is possible to achieve a demonstrable reduction in packaging volume, transport movements (and emissions), which at the same time has long term business benefit in terms of reduced material and distribution costs and better product standout on shelf."

Nick Bunker,
Chief Executive, KP Snacks



OLD PILLOW PACK VERSUS NEW FLOW WRAP PACK

Coca-Cola Enterprises Ltd

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Working with the Carbon Trust, Coca-Cola Enterprises discovered that nearly half its total footprint comes from packaging. The company has committed to reducing the carbon footprint of its drinks by a third by 2020.

By re-designing its packaging, CCE are using less packaging than ever. Around 98% of its packs are easily recycled and its PlantBottle concept ensures that its 500ml plastic bottles contain up to 25% recycled content and 22.5% plant-based material. Continuum Recycling, a joint venture with Eco Plastics, has transformed UK plastic recycling. Recently reaching the milestone of half a billion bottles processed in its first year, the plant helps CCE save 33,000 tonnes of CO₂ a year – equivalent to taking 15,700 cars off the road.

CCE also work hard to engage with consumers – following its recycling promotions at the London 2012 Olympics, 70% of visitors surveyed said they would be more likely to recycle at home and 93% said they would be more likely to recycle while 'on the go'.



70% OF OLYMPIC PARK VISITORS SURVEYED SAID THEY WOULD BE MORE LIKELY TO RECYCLE AT HOME.

"We believe our business can only grow successfully if we embed innovation into every aspect of our business, from increasing our choice of drinks to reducing our carbon emissions and transforming recycling in Great Britain. As we pursue our 2020 vision for growth, we're intensifying our efforts right across our value chain. But even with some successes to date, our journey is far from complete. The truth is, it will never be complete. However, through continued work with many partners, it's our hope that we can still be a force for progressive, sustainable growth and positive change in the communities we serve."

Simon Baldry, Managing Director, Coca-Cola Enterprises Ltd

WATER

The water used in the manufacturing process is a relatively small part of total water use in the food chain. But increasing concern over the future balance of supply and demand here in the UK means that all our **water resources need to be used as efficiently and sustainably as possible.**

Our ambition to reduce water use in food and drink manufacturing operations is delivered through the Federation House Commitment (FHC). The FHC is a voluntary partnership between FDF and WRAP, set up in 2008 open to all companies in the sector. Between January 2012 and June 2013 an additional nine companies signed up, bringing the total number to 71 across 294 sites.

Signatories agree to achieve significant reductions in water use to help reduce stress on water supplies and contribute to an industry-wide absolute target to reduce water use by 20% by 2020 compared to 2007.

Between 2007 and 2012 signatories collectively made a 16.1% reduction in their water use (excluding that in product). This is equivalent to 7.4 million m³ water or 2,965 Olympic-size swimming pools.

Between 2011 and 2012 signatories reported a 1.5 million m³ reduction in water use.

The significant progress made under the FHC is even more impressive given that production has

increased by 6.1% over the same period. Per tonne of product water use has declined 0.52 m³/tonne, which equates to a reduction in water intensity of 20.9% compared to 2007.

Beyond the FHC, FDF's Every Last Drop campaign to raise awareness of effective water management along the food supply chain has continued to gain momentum. New videos targeting boardroom level decision makers were launched in 2013 featuring interviews with Defra Minister Richard Benyon and Chairman of William Jackson Food Group, Nicholas Oughtred. The campaign won 'Water Management Project of the Year' at the BusinessGreen Leaders Awards 2013.

FDF and its members have continued to input through BSI into development of the draft ISO standard on water footprinting. Following the 2011 Water White Paper FDF has also been engaging with both Defra and the Environment Agency on the development of policy options for making the water abstraction licensing system more sustainable.

WATER AMBITION:

TO ACHIEVE SIGNIFICANT REDUCTIONS IN WATER USE TO HELP REDUCE STRESS ON THE NATION'S WATER SUPPLIES AND CONTRIBUTE TO AN INDUSTRY-WIDE ABSOLUTE TARGET TO REDUCE WATER USE BY 20% BY 2020 COMPARED TO 2007.

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WATER: CASE STUDIES



Good Food, Good Life

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Nestlé has established Climate Adaptation Plans to ensure it uses water wisely, mitigating the business impact and food security consequences of likely future water shortages.

Through its 'Creating Shared Value' programme Nestlé is developing comprehensive Climate Change Adaptation Plans for all its UK sites by 2014. Harnessing the knowledge and expertise of cross-functional teams through interactive workshops, the company analyses key climate vulnerabilities in depth.

Using its own business tools alongside those of the Environment Agency and UK Climate Impacts Programme, Nestlé has adopted a thorough, systematic adaptation approach, measuring how past climatic events have affected its sites and assessing future risk.

A diverse range of actions have been identified from its adaptation plans across all the climatic drivers: heat stress, cold stress, flooding, drought, storms. Example actions include comprehensive investigation of Sustainable Urban Drainage Systems functionality at its Fawdon and Tutbury sites.

In the longer term, Nestlé's ambition is to extend this programme across its whole supply chain and engage local communities to build awareness of environmental issues.

THE SUSTAINABLE URBAN DRAINAGE SYSTEM AT OUR TUTBURY SITE



"The FDF Five-fold Environmental Ambition has helped us shape our sustainability strategy and track the progress we have made. We have a responsibility to extend our sustainability initiatives beyond our technical operations with the new challenges and uncertainties that climate change presents. Adaptation is key to our resilience ambition."

Inder Poonaji
Head of Safety, Health and Environment,
Nestlé UK & Ireland



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In 2012 Young's Seafood Limited adapted its award-winning Fish for Life programme on responsible seafood sourcing, transforming this into a whole-business philosophy on responsible management.

The company's Macrae Edinburgh site set a target of reducing water use by 5% year on year, identifying areas where it was possible to make savings in water use and implementing various on-site projects to do this.

Analysis identified that water used by the hygiene team accounted for 50% of the factory's overall water usage. The site reduced the water pressure used from 20bar to 16bar, which considerably reduced water volume, saving 2000 m³ of water annually without affecting its high hygiene standards. By adapting some of its machinery and hand wash sink pressures, the site has made significant additional reductions.

Through such projects, the Macrae Edinburgh site has met its target of reducing overall water use by 5% year on year. The combined efforts of these projects have saved the site an estimated 6500 m³ of water per year.



FROM SEA TO PLATE YOUNG'S SEAFOOD LIMITED IS DEDICATED TO RESPONSIBLY SERVING ITS CUSTOMERS AND CONSUMERS THROUGH ITS FISH FOR LIFE PROGRAMME

"Young's Seafood Limited is dedicated to responsibly serving our customers and consumers. We believe that success is about doing the right thing now, and for generations to come. Our Fish for Life programme and the Five-fold Environmental Ambition targets ensure that all our decisions are made with responsibility and sustainability in mind."

Leendert den Hollander
Chief Executive,
Young's Seafood Limited

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The contribution of transport to the environmental impact of food production is frequently over-estimated and in most cases accounts for only a small percentage of total footprint. But it does add directly to costs and also gives rise to a range of indirect effects, including traffic congestion. It is therefore a very clear example of where **improved efficiency makes good business sense** for everyone.

Members have continued to achieve fewer and friendlier food transport miles by including environmental standards in their food transport practices, whether undertaken by third party hauliers or provided by their own fleet. These improvements reflect the FDF 10-point checklist for Greener Food Transport which remains at the heart of our transport commitment.

During 2013 we realigned our transport ambition to include making a contribution to the Logistics Carbon Reduction Scheme target to reduce the carbon intensity of freight operations by 8% by 2015 compared to 2010. This was in order to maintain a hard target now that the IGD HGV mile saving target had been achieved in 2012. The Logistics Carbon Reduction Scheme is a collective, voluntary initiative, managed by the Freight Transport Association, open to any business

which purchases fuel for one or more commercial vehicles. Results for the first year of the Scheme showed that it delivered a 2.8% reduction in overall CO₂e emissions in 2011 compared to 2010. This suggests that the Scheme is well on track to meeting its 2015 target.

We are now looking at further opportunities to publicise the work of FDF members involved in the Scheme with a view to generating more support from food and drink companies and/or their third party hauliers.

TRANSPORT AMBITION:

TO EMBED ENVIRONMENTAL STANDARDS IN OUR MEMBERS' TRANSPORT PRACTICES, INCLUDING CONTRACTS WITH HAULIERS AS THEY FALL FOR RENEWAL, TO ACHIEVE FEWER AND FRIENDLIER FOOD TRANSPORT MILES AND TO MAKE A CONTRIBUTION TO THE FREIGHT TRANSPORT ASSOCIATION ADMINISTERED LOGISTICS CARBON REDUCTION SCHEME TARGET TO REDUCE THE CARBON INTENSITY OF FREIGHT OPERATIONS BY 8% BY 2015 AGAINST A 2010 BASELINE.

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[READ FULL CASE STUDY ▶](#)

In 2013 Kellogg used the Manchester Ship Canal to transport 2,500 containers of food, helping lower road miles 85% on this route, saving over 44,000 road miles.

Kellogg has shipped products through the Port of Liverpool for three years and now uses Peel Ports' 'green highway network', a special environmentally-friendly canal service.

In its quest for fewer, friendlier miles, Kellogg is also part of a pilot project testing longer semi-trailers for delivery. Each truck can hold 15% more product than a typical truck. Smaller customer deliveries have also been added to the mix, enabling a more sustainable route to market.

These changes are estimated to prevent the equivalent of 80 tonnes of carbon emissions per year and Kellogg already deploys the longer trucks on one key UK route and endeavours to roll out this project across other routes.

The focus on improving the environmental sustainability of its transport network has enabled Kellogg to take hundreds of trucks off the road while delivering food exactly where it is needed.



EACH TRUCK CAN HOLD 15% MORE PRODUCT THAN A TYPICAL TRUCK

"We have an opportunity – an obligation, even – to increase our positive impacts on society and the environment as we also work to grow our business."

John Bryant,
President and Chief Executive Officer,
Kellogg Company

FDF's 10-POINT CHECKLIST FOR GREENER FOOD TRANSPORT

1. MAXIMISING VEHICLE LOADING
2. HIGH RATIO OF TRAILERS TO TRACTORS
3. COMPLIANCE WITH THE LATEST EU EMISSION STANDARDS
4. USE OF VEHICLE TRACKING TECHNOLOGY
5. COLLABORATION TO REDUCE EMPTY RUNNING
6. RECORD AND AVOID DIFFICULT DROP POINTS
7. INCREASING USAGE OF RAIL AND/OR SHIP
8. ENCOURAGE INNOVATION AND BEST PRACTICE
9. DRIVER TRAINING
10. VEHICLE MAINTENANCE INCLUDING RETENTION OF CORRECT TYRE PRESSURES

[READ THE FULL CHECKLIST ▶](#)

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To meet future food security companies need to not only **drive sustainable business practices** within their own operations, but also within their supply chains.

Typically the environmental footprint of the manufacturing process represents on average less than 10% of the total end to end impact of food and drink production and consumption.

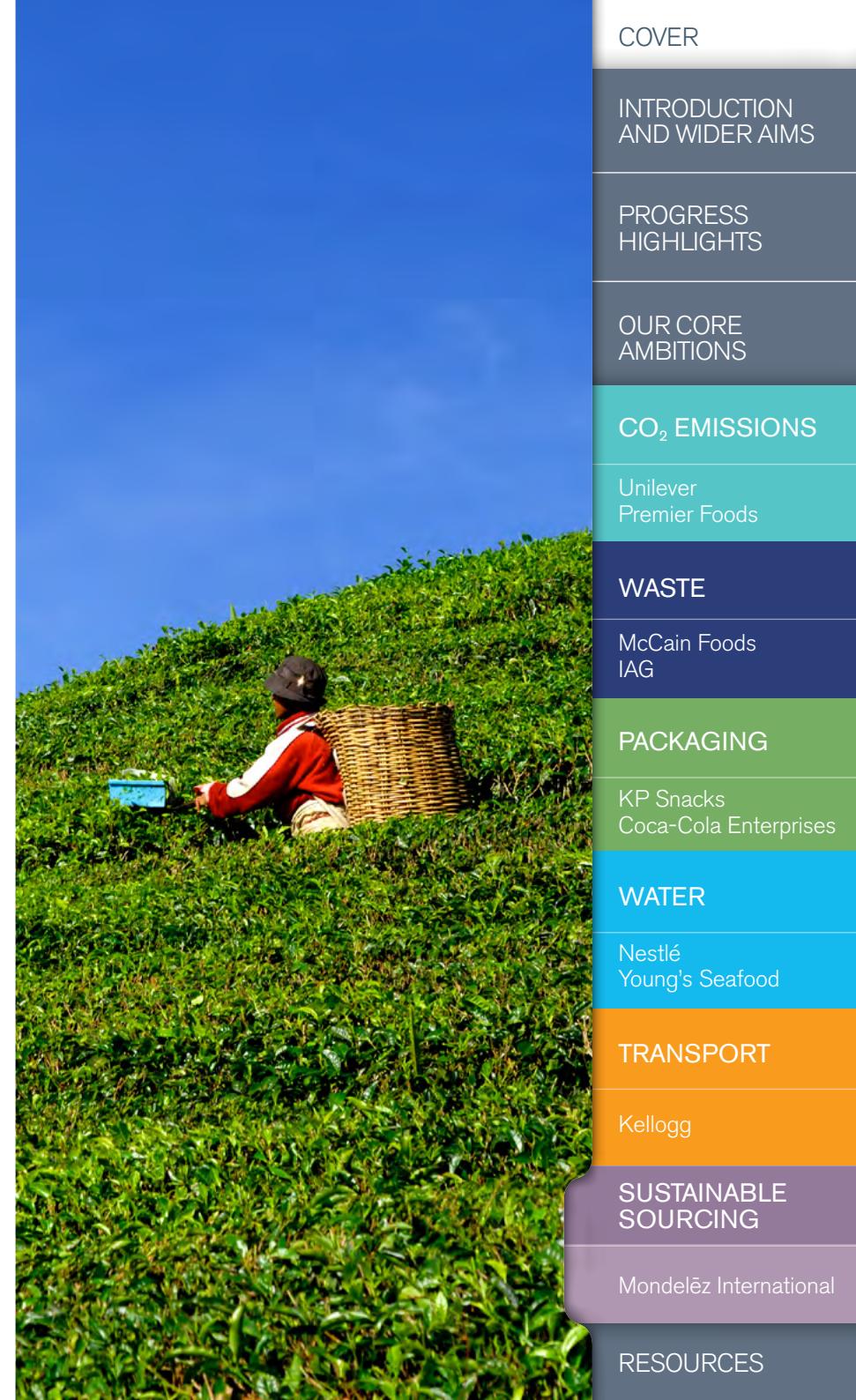
It therefore not only makes good business sense to address environmental and social risks in the supply chains companies are reliant upon, but it also helps to meet rising consumer expectations of corporate responsibility.

Following the launch in 2012 of our Sustainable Sourcing guidance leaflet FDF has been working on developing supportive resources both with members and with external stakeholders such as WRAP.

One major resource currently in development is a sustainable sourcing commodity tool to help food and drink companies identify, understand and address the potential environmental, social and economic risks associated with their supply chains.

We plan to trial the tool in 2014 with a limited number of commodities. It will then be expanded to cover many more food and drink commodities to help companies improve resilience in their supply chains and reduce the wider sustainability impacts of production - impacts that are often beyond a manufacturer's direct control

IT NOT ONLY MAKES GOOD BUSINESS SENSE TO ADDRESS ENVIRONMENTAL AND SOCIAL RISKS IN THE SUPPLY CHAINS COMPANIES ARE RELIANT UPON, BUT IT ALSO HELPS TO MEET RISING CONSUMER EXPECTATIONS OF CORPORATE RESPONSIBILITY

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Mondelēz International has initiatives in place to reduce its environmental impact, including supporting sustainable farming practices for key raw materials such as cocoa, coffee and wheat.

Manufacturer of Cadbury Dairy Milk, Oreo biscuits and Kenco coffee, Mondelēz International has an annual revenue of approximately \$36 billion, operating in over 80 countries.

In November 2012, it announced a \$400 million investment over ten years to improve the livelihoods and living conditions of over 200,000 cocoa farmers and about one million people in cocoa farming communities. 'Cocoa Life' brings a \$100 million investment to Côte d'Ivoire, the world's largest cocoa producing country, helping 75,000 farmers double their productivity through a farmer-centred partnership programme.

Likewise, its 'Coffee Made Happy' plan aims to inspire, innovate and shake up the way coffee companies do business sustainably. Mondelēz International has committed \$200 million to empower one million coffee farming entrepreneurs by 2020. The programme focuses on the next generation of farmers, providing training to boost their agriculture skills and business knowledge.



FREDDY AKUFFO, A COCOA FARMER SINCE 1969, BOOSTED HIS COCOA YIELD BY 22% SINCE RECEIVING FARMER TRAINING

"The Mondelēz International sustainability journey has put us on a path that is making a real difference. We're focusing on those areas where we can have the greatest impact and that mean the most to our business performance. We are proud of what we have achieved so far and the impact we are making both in the UK and around the world."

Maurizio Brusadelli,
President, Mondelēz
International United Kingdom & Ireland

FIVE STEPS TO MANAGING SUPPLY CHAIN RISK:

1. MAP YOUR SUPPLY CHAIN
2. IDENTIFY IMPACTS, RISKS AND OPPORTUNITIES
3. ASSESS AND PRIORITISE YOUR FINDINGS
4. CREATE A PLAN OF ACTION
5. IMPLEMENT, TRACK, REVIEW AND COMMUNICATE

[VIEW OUR SUSTAINABLE SOURCING GUIDE ▶](#)



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VIEW FULL CASE STUDIES: (click to view online)

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► **CLICK HERE** TO LEARN MORE ABOUT FDF'S SUSTAINABILITY WORK

ABOUT FDF

The Food and Drink Federation is the voice of the UK food and drink industry, the largest manufacturing sector in the country. Our sector directly employs up to 400,000 people, and as many as 1.2 million in ancillary services; it accounts for 16% of the UK's total manufacturing sector by value; and it is an invaluable partner to British agriculture, buying two thirds of what farmers produce.

Our membership comprises manufacturers of all sizes as well as trade associations dealing with specific sectors of the industry. In representing the interests of our members, we focus on the following core priorities:

- **Food Safety and Science**
- **Health and Wellbeing**
- **Sustainability**
- **Competitiveness**



Delivering Sustainable Growth

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