



Our mission is to accelerate
the move to a sustainable,
low carbon economy



The Carbon Trust

- › We are an independent, expert partner of leading organisations around the world, helping them contribute to and benefit from a more sustainable world

Advice

- › We advise businesses, governments and the public sector on their opportunities in a sustainable, low carbon world

Footprinting

- › We measure and certify the environmental footprint of organisations, products and services

Technology

- › We help develop and deploy low carbon technologies and solutions, from energy efficiency to renewable power
- › We have about 150 employees working around the world from offices in the UK and China

Advice

Business Advice



Helping businesses capture the opportunities in the move to a low carbon economy



Kingfisher

Working with the Carbon Trust since 2008 to put carbon management and green growth at the heart of its business strategy

- › In 2010/11 sales of independently verified eco products reached £1.1 billion, up 9% from the previous year and accounting for 10.5% of total retail sales across the Group



Coca Cola Enterprises

We worked with Coca-Cola to test whether contextualising environmental information using a Personal Carbon Allowance concept helps consumers make informed choices and deliver carbon reductions

- › The results of our study and consumer trial provided a wealth of insights for business and policy makers



TJX

Motivating front of house staff to play their part in making fashion sustainable, TJX encouraged employees to submit their own sustainability ideas, the 'Bright Green Champions'

- › Piloting this approach generated more than 274 ideas
- › Implementing the Top 10 initiatives delivered 12% cost reductions equal to almost £7,500 energy savings per store

Advice

Public Sector Advice

Enabling the public sector to develop carbon management strategies to cut energy costs and carbon emissions



Guy's and St Thomas' NHS Foundation Trust

We helped them to develop a carbon management plan, including the implementation of energy efficiency measures such as lighting controls, building controls and CHP

- › Energy costs already reduced by over £1.5m per year
- › Carbon emissions reduced by 20%

Department of Energy and Climate Change

We worked with DECC to improve the energy rating of their new headquarters. We helped them to produce a monthly operational rating so they could track their rating and then to implement a series of measures including building and heating controls, behaviour change and staff awareness

- › Three grade improvement in their Display Energy Certificate rating
- › Carbon cut by 327 tonnes a year
- › Annual savings of £74,000

Advice

Policy and Markets



Providing cutting-edge policy advice and insights on the transformation of markets towards a low carbon economy



UK Government

We have worked across a number of departments across UK Government including DECC, BIS, FCO and DFID, contributing to real policy innovations

- › Review of the UK climate change programme which led to the introduction of the Carbon Reduction Commitment
- › Our on-going work on the low carbon Innovation strategy will drive the bulk of the Government's investments in low carbon technology over the coming years

Investor and Business Communities

Our study "Climate change – a business revolution" explored how tackling climate change in key sectors can create or destroy shareholder value

- › Helped businesses incorporate climate change considerations in their core strategy and investment decisions
- › Helped investors to understand how company's attitudes to climate change can be a large factor in determining how well placed they are for the future

Mexican Government

Working with the Mexican Government, major utilities and international donors to create a multi-million pound programme including a large scale awareness raising campaign, off and on-site advice for SMEs and the provision of energy efficiency loans

- › Help SMEs Improve their energy efficiency and become more competitive

Footprinting

Footprint Measurement



Understanding the environmental impact of your organisation, products and supply-chain and how reducing it can create a better business



GREENHOUSE
GAS PROTOCOL

ICT Sector

Developing the world's first sector guidance for the GHG Protocol Product Standard, working with 12 leading global ICT companies (including BT, Cisco, Fujitsu, HP, Microsoft) and the WRI, WBCSD and GeSI

- › Enables a consistent approach to measuring lifecycle carbon impacts of ICT products and services
- › Provides a practical method to identify and reduce carbon and costs related to ICT



JCB

Footprinting of their machines uncovered the potential for product innovation focussed on increased fuel efficiency, giving JCB an improved customer proposition

- › Reduced cost of ownership for customer as a result of increased fuel efficiency
- › Increased re-sale value
- › Superior environmental credentials



Irish Food Board

Bord Bia Irish Food Board

We worked with Bord Bia to develop detailed carbon footprint models for beef and milk which were deployed across 30,000 farms

- › The resulting carbon footprints are being used to provide the farmers with valuable advice on where to capture cost and carbon savings

Footprinting

Footprint Certification



Providing independent verification that can make your business thrive in a low carbon economy



Dyson

We worked with Dyson to help them make their Airblade hand dryer low carbon by design. They used our product carbon footprinting to identify further efficiencies – savings that can be ploughed back into R&D. They also adopted our Carbon Reduction Label globally to highlight to potential customers the lower environmental impact of the product

- › Airblade is 80% more efficient than conventional hand driers
- › Independent certification adds credibility to their claims
- › Enabled Dyson to stay ahead of competitors
- › Driven others in the sector to innovate and improve the efficiency of their products



GlaxoSmithKline

We assessed and certified GSK's carbon footprint over a three year period across 65 countries, 200 sites and eight business divisions. The certified reduction validates their action towards the aim of company operations and the value chain being carbon neutral by 2050

- › 2.2M tonnes CO₂e were measured, and over 84,000 tonnes of CO₂e cut from GSK's carbon footprint saving £3.8M in energy costs.
- › GSK achieved a 4% reduction in absolute terms of its carbon footprint and a 17% reduction in CO₂ per £ of revenue over the assessment period – demonstrating that carbon emissions reduction can be achieved in parallel with business growth.

Technology

Implementation and Finance



Providing expertise, equipment suppliers and financing to help your business put energy efficiency plans into action



Astrum

We conducted a detailed study of the site and identified that air compressors used in operations and in making moulds for castings were consuming more energy than they should. To help fund the necessary changes, Astrum took a loan of £400,000 via the Carbon Trust covering the cost of installing two new variable speed air compressors

- › Reduced energy demand by 1,255,000 kWh per annum
- › Cut energy bill by £80,000 a year and the site's CO₂ emissions by 600 tonnes a year



Nailcote Hall

Our assessment of the site identified that investing £30,000 in re-lamping all the light fittings should bring a saving of approximately £12,000-14,000 a year. It would reduce the amount of staff time spent changing light bulbs with associated reduction in maintenance time

- › Expected payback on the project is around 2.5 years
- › Monthly payments are less than the monthly energy savings achieved from the new lighting



Ford

Our partnership with Ford Motor Group will deliver energy efficiency expertise and practical support to their network of car dealerships

- › The partnership has the potential to generate massive energy and cost savings across this network

Technology Innovation



Helping you create value from the clean technology revolution



Technology Innovation Needs Assessment

Using our technical expertise and knowledge, we worked with DECC to help inform the Government strategy on clean technology investment. Initial technology prioritisation was based on energy, carbon, and economic potential for the UK. For selected technologies, an in-depth analysis found specific actions needed to accelerate their commercialisation in a cost effective manner

Offshore Wind Accelerator

A flagship collaborative RD&D programme, Carbon Trust brought together eight offshore wind developers combining our expertise in delivering innovation and convening industry consortiums with the industrial partners' technical knowledge and resources. The Offshore Wind Accelerator was set up to drive down costs and accelerate deployment. We have managed the programme since its inception, increasing partner participation and funding. In 2011, the first example of a novel foundation structure developed by OWA was installed at sea

GE Ecomagination

GE and the Carbon Trust have a new \$5m pan-European partnership to accelerate European clean tech growth amid growing evidence that the region is struggling to keep up with other parts of the globe in this critical sector. We are working with GE to identify and evaluate early stage companies, then incubate and invest in those with the most potential

Government sponsored services in Scotland, Wales and Northern Ireland

In addition to the services offered globally, we provide specific services in Scotland, Wales and Northern Ireland, sponsored by the Devolved Administration Governments

- › Free advice and support to SMEs through our advice line and online content (Scotland and Wales only)
- › One-to-one support to large companies to help them implement energy-saving strategies (Scotland and Wales only)
- › Carbon reduction services specifically designed to meet the needs of the public sector (Scotland and Wales only)
- › Energy efficiency awareness and training workshops for SMEs (Scotland only)
- › On-site carbon surveys for SMEs (Scotland and Wales only)
- › Interest-free loans for energy efficiency equipment (Northern Ireland and Wales only)
- › Interest-free loans to finance the cost of Microgeneration Certification Scheme assessment fees (Wales only)

Our Investments

We have set up and invested around £60m in a number of innovative and pioneering low carbon companies



We acquire, refurbish and manage high quality office premises for tenants committed to eco-friendly operation



We develop, build, finance and operate tailored waste to energy projects, primarily via Anaerobic Digestion, for food and drink companies and other large bio-waste producers



We develop, construct and operate renewable energy projects, primarily onshore wind on public sector land



We develop and manufacture printed plastic solar technology designed to deliver flexible, lightweight, robust and lower cost solar cells principally for off-grid use



We develop low cost printed plastic photovoltaic technology and manufacturing processes designed to deliver flexible, lightweight, robust and lower cost solar cells

Future Blends

We commercialise new ways to produce low-cost transport fuels from waste biomass

Venture Capital Portfolio

We have made early stage venture capital and seed investments to accelerate the commercialisation of clean energy businesses in the UK



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