

Helping HE & FE to lead by example

Richard Rugg
Head of Public Sector
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The Carbon Trust



- The Carbon Trust was set up by government as an independent, public good company
- Our mission is to accelerate the move to a low carbon economy
- We work with organisations to reduce carbon emissions now & develop commercially viable low carbon technologies to reduce future emissions

Size of the prize..... Public Sector Estate England

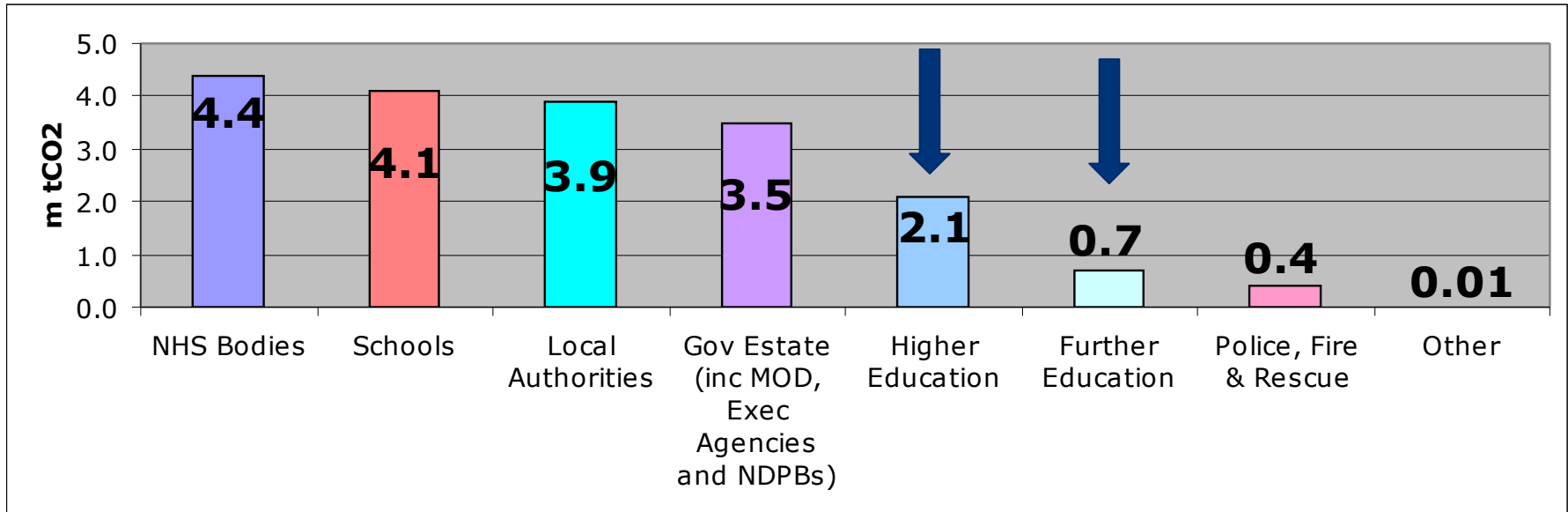


19.5m tCO₂

in buildings alone

£2.6bn

energy bill



8%

of non-domestic UK CO₂

The case for action

➤ Carbon

- HE and FE sector's direct carbon footprint is 2.8m tCO₂ per year
- The indirect footprint through procurement, water and waste is much larger
- Influence through education larger still

➤ Efficiency

- HE & FE spend £400m per year
- Whole life cost of energy saving measures is usually positive
- Carbon Reduction Commitment Energy Efficiency Scheme

➤ Navigating climate and carbon legislation

- Climate Change Act
- DECC Carbon Plan and public sector leadership
- HEFCE strategy

➤ Reputation

- CRC league
- Green League
- Green Gown

An aerial photograph of the ocean's edge, showing waves breaking onto a sandy beach. The water is a vibrant teal color, and the foam of the waves is white. The beach is visible at the bottom of the frame.

Carbon Trust support

Carbon Trust support available



➤ Carbon Surveys

- Accredited consultants to help you identify key energy saving opportunities

➤ Bespoke Service

- Tailored technical and employee engagement consultancy support
- Feasibility, specification & business case
- Design advice service & data centre design advice

➤ Public Sector Carbon Network

- A free online forum to promote best practise through the sharing of low carbon projects and approaches

➤ Public Sector Carbon Management

- Strategic and technical consultancy support to facilitate the development of 5 year carbon reduction strategies

Carbon Management – The process



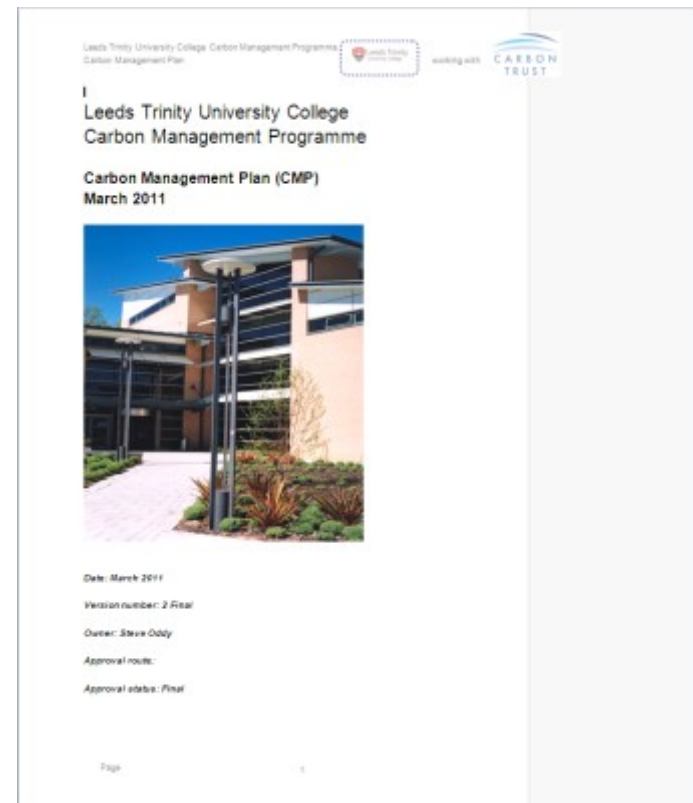
12 month programme -
Free technical and project management support -
Genuine partnership -
Sector specific approach -
Proven tools and templates

New 2011 Further Education Carbon Management programme



- Educated and Mobilised Team
- Established Senior Governance
- Baseline & BAU Projection
- Identified & Quantified Opportunities
- Business Case & Financing

CT approved Carbon Management Plan

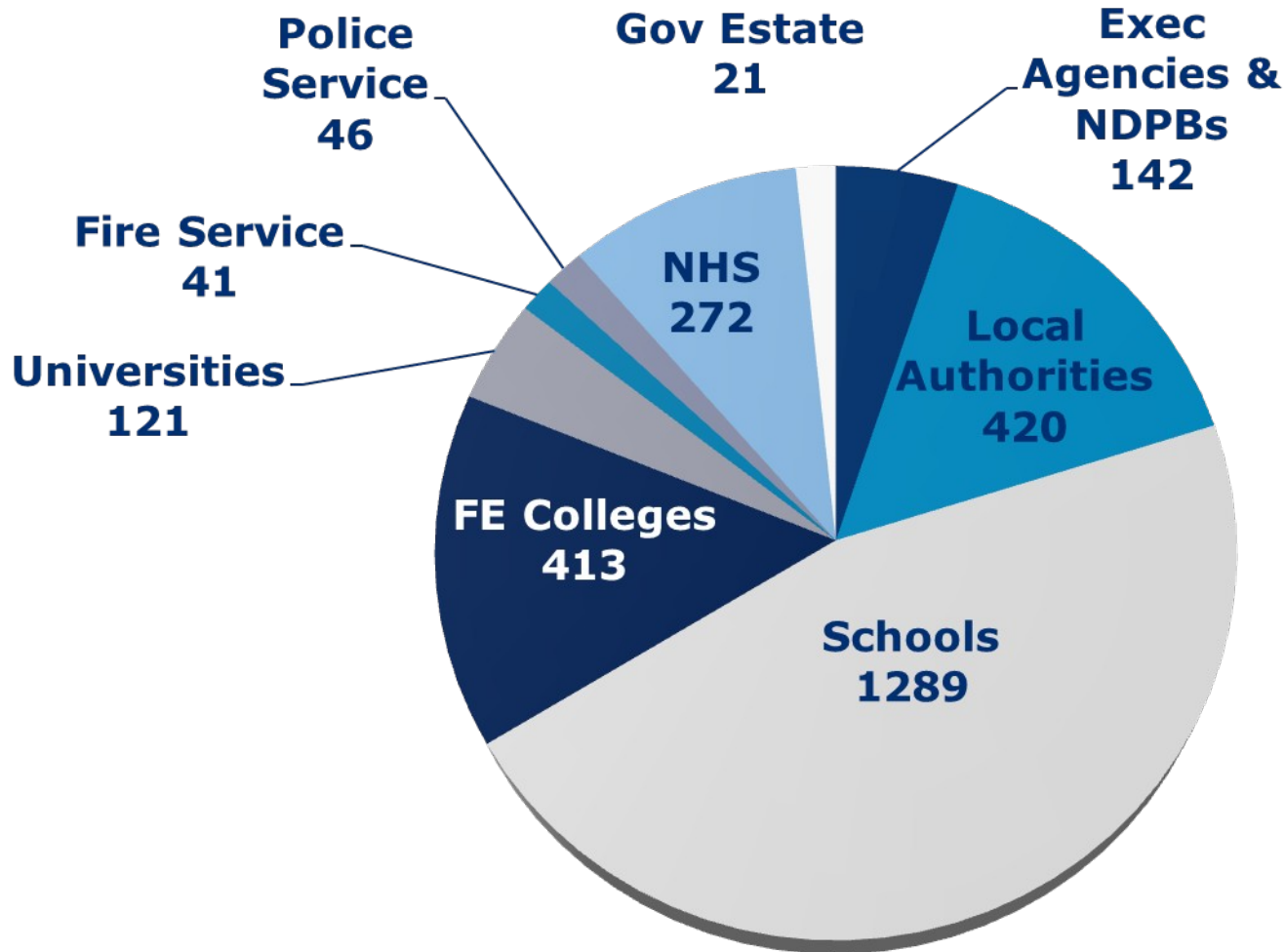


Progress to date & targets

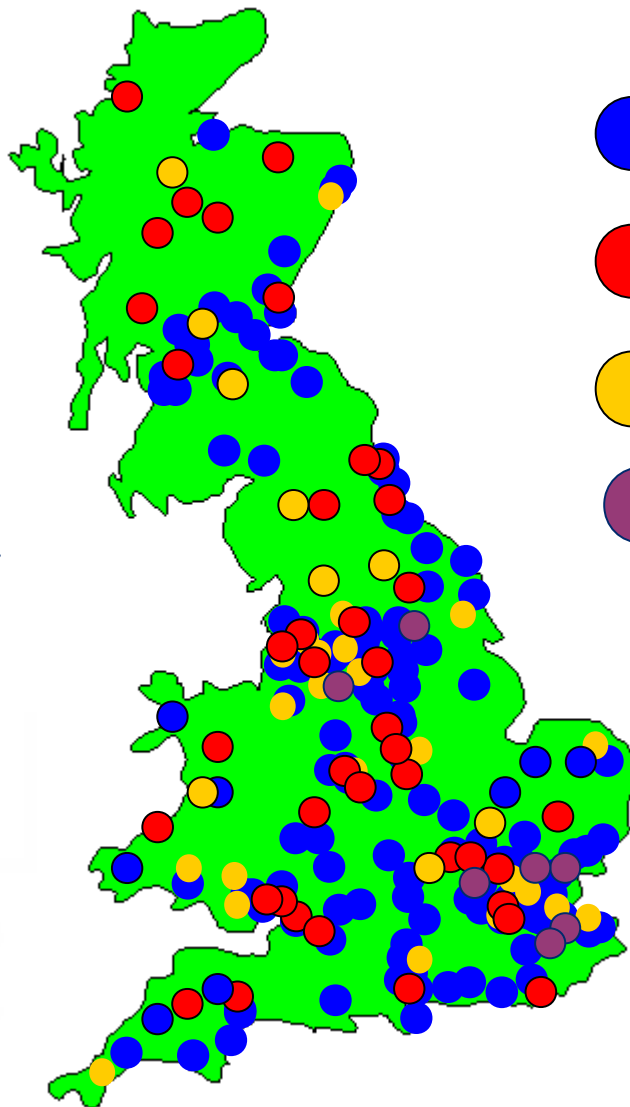
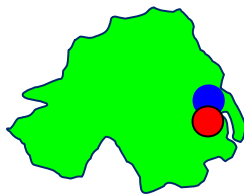


Who we're working with...

Over 2,500 public sector bodies



Of our 2,500 public sector customers 1/5 are Public Sector Carbon Management partners.....



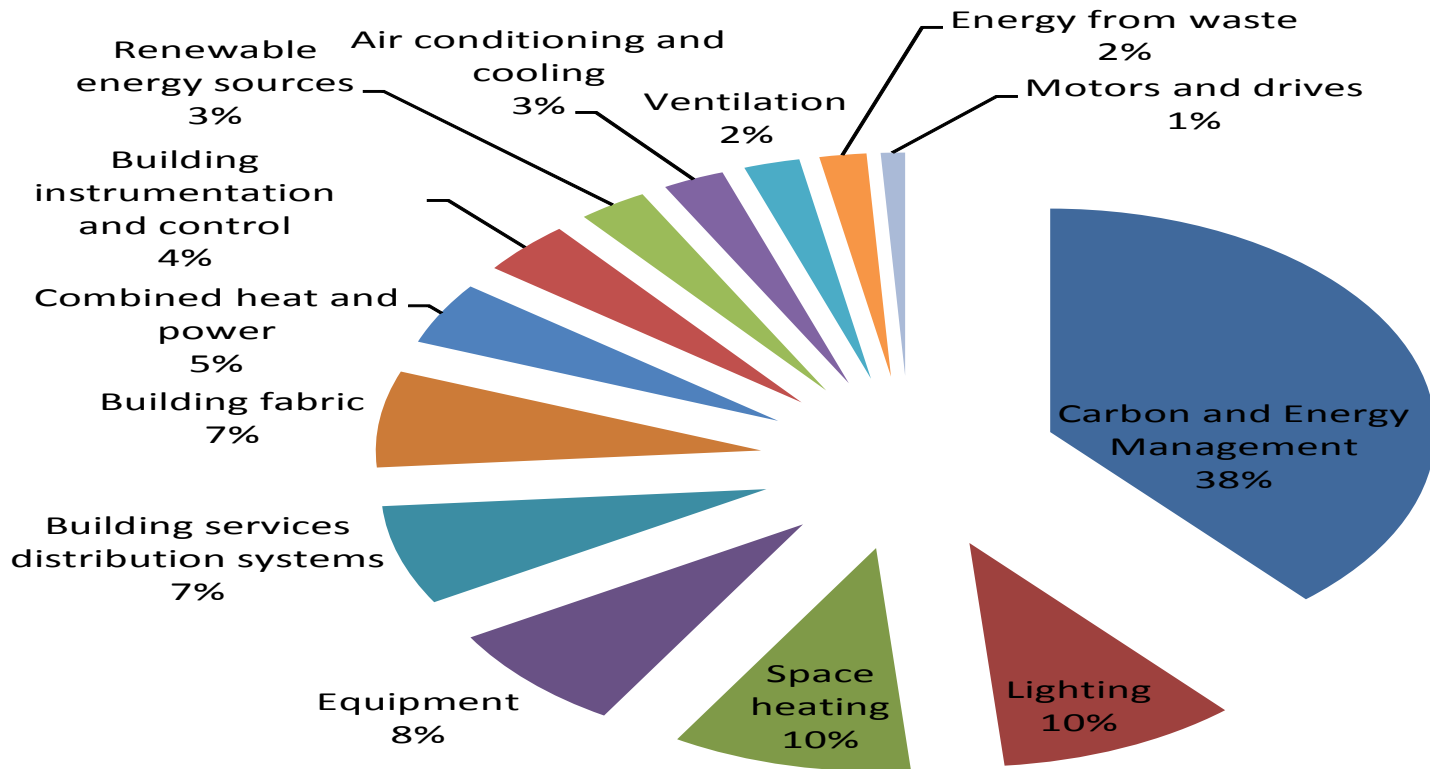
- 295 Local Authorities, Fire and Police Services
- 120 Universities
- 102 NHS Bodies
- 21 Government Bodies

Commitment to ambitious carbon reduction targets...



- These target reflect 5 year averages
- Within 2010/11 targets ranged from 5% - 50%

HE Carbon Management; Project Analysis



- 1044 Projects Identified
- Total investment value £88.4 million
- Total value of annual savings £15.5 million
- **Average Project Payback 5.7 years**

Saving carbon; saving money

Public Sector progress to date

All services, all years



Projects implemented to date

- **Carbon saved over project life >10m tCO₂**
- **Cost savings over project life - £400m net**
(total savings minus the project costs)
- **Average payback period 3.3 years**

Projects in the pipeline

- **Identified carbon savings over project life >46m tCO₂**
- **Identified cost savings over project life - £1bn net**
(total savings minus the project costs)
- **Expected average payback period range ~2-10 years**

Leading the way....



Leicester College



- In partnership with the Carbon Trust and using the outputs of a Carbon Survey it was able to reduce the college's carbon footprint by 438 tonnes CO₂



- In June 2009 Leicester College won a Green Gown Award on the basis of what it has achieved in reducing its carbon emissions.

Kings College London



- Annual energy bill over £3.7 million in 2005
- Identified carbon savings of 48,000 tonnes and cost savings of £4.4 million by 2011-12
- Developed cohesive carbon strategy
- Won CT Standard accreditation
- Awareness campaign linked to improved metering
- Lighting system and boiler upgrades
- Collaboration with South London and Maudsley NHS Trust, Kings College Hospital, and Guys and St Thomas on carbon reduction



Cranfield University



- Postgraduate research based University based near Milton Keynes
- Has developed a strategy to meet a 50% carbon reduction target by 2014:
 - Merging two sites into one
 - Solar hot water
 - CHP
 - New lighting
- Linking carbon reduction on their own estate to their wider research activities



Looking forward....

- 50 colleges on new FECM service in 2011
- Carbon Trust is talking with HEFCE and others about future carbon management support for the HE and FE sector - helping Universities to extend their ambition
- HEFCE Revolving Green Fund 2 - you can't apply yet, but an announcement due in June!

Increasing the scope of carbon reduction



- Getting to “Scope 3” – Commuting, student travel, procurement, waste, water
- HE sector strategy looks for the Environmental Management Statistics to start collecting scope 3 emissions from 2012/13.
- This is a major challenge for the sector - but also an opportunity to lead!
- HEFCE currently doing the ground work for this

Keep in touch....

www.carbontrust.co.uk

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