



Carbon Trust Update 2012-13

Larissa Lockwood
Public Sector Manager



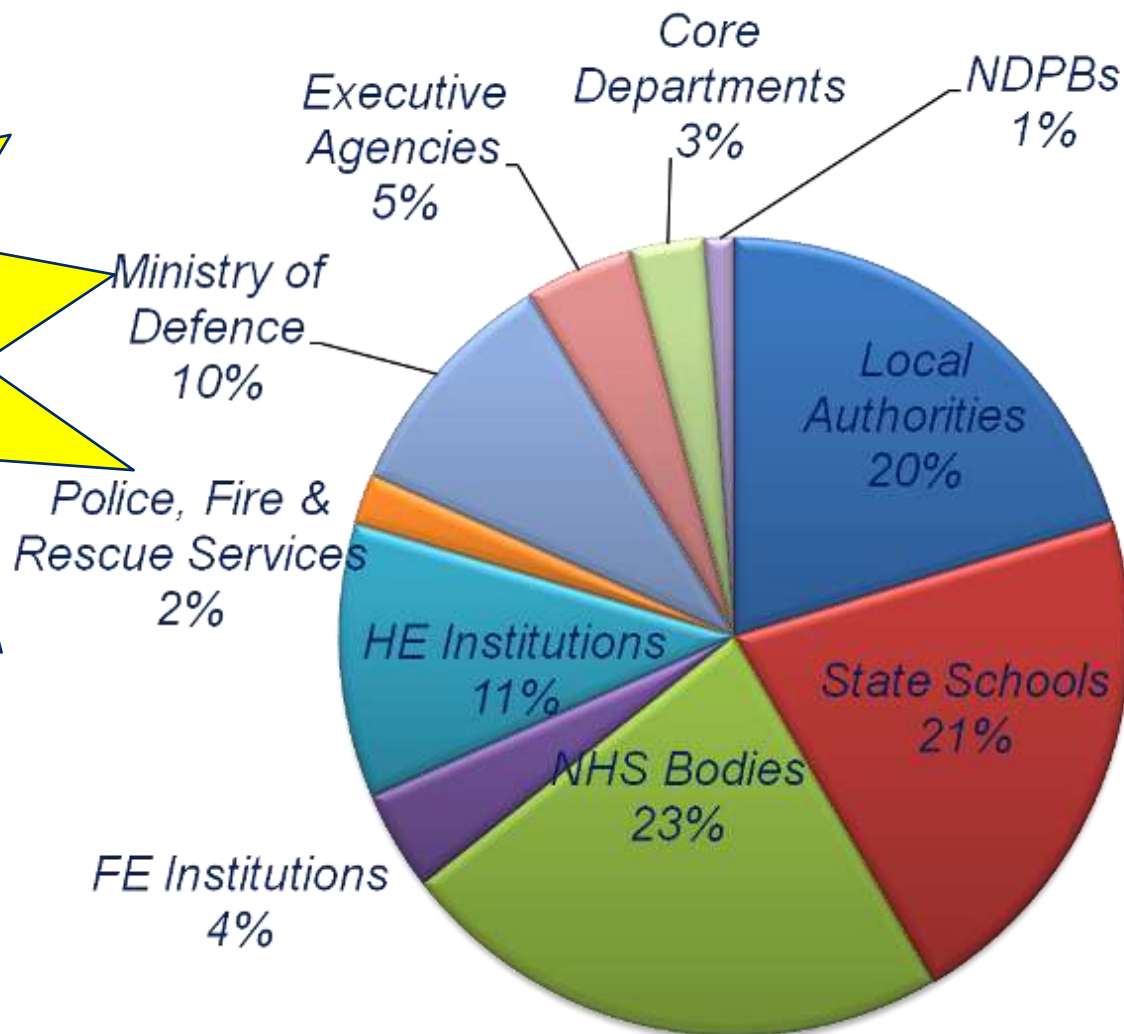


The Carbon Trust

- 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 and develop commercially viable low carbon technologies to reduce future emissions

Public sector estate carbon emissions and energy spend

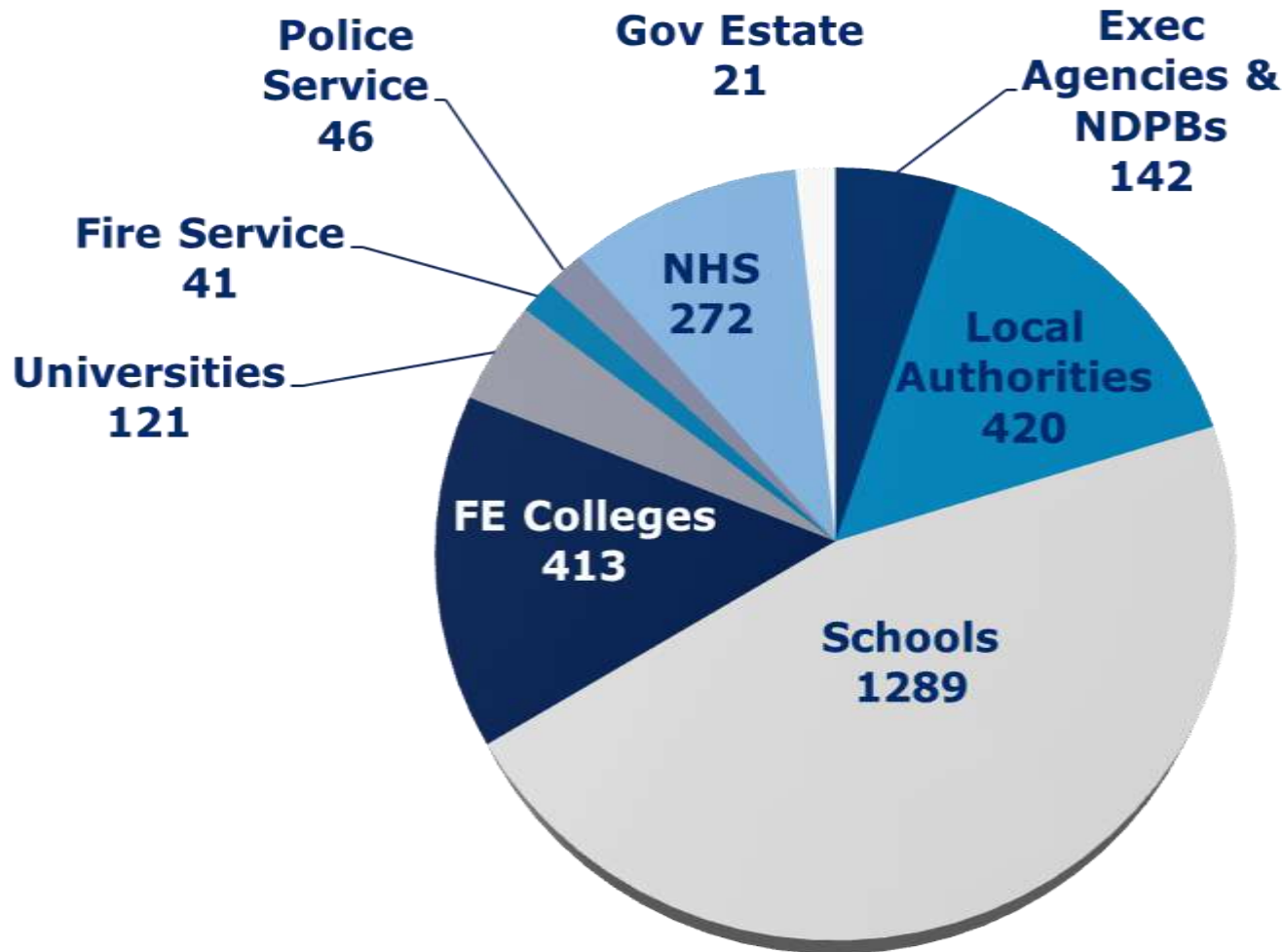
21 mtCO₂/yr
£3.2 bn/yr



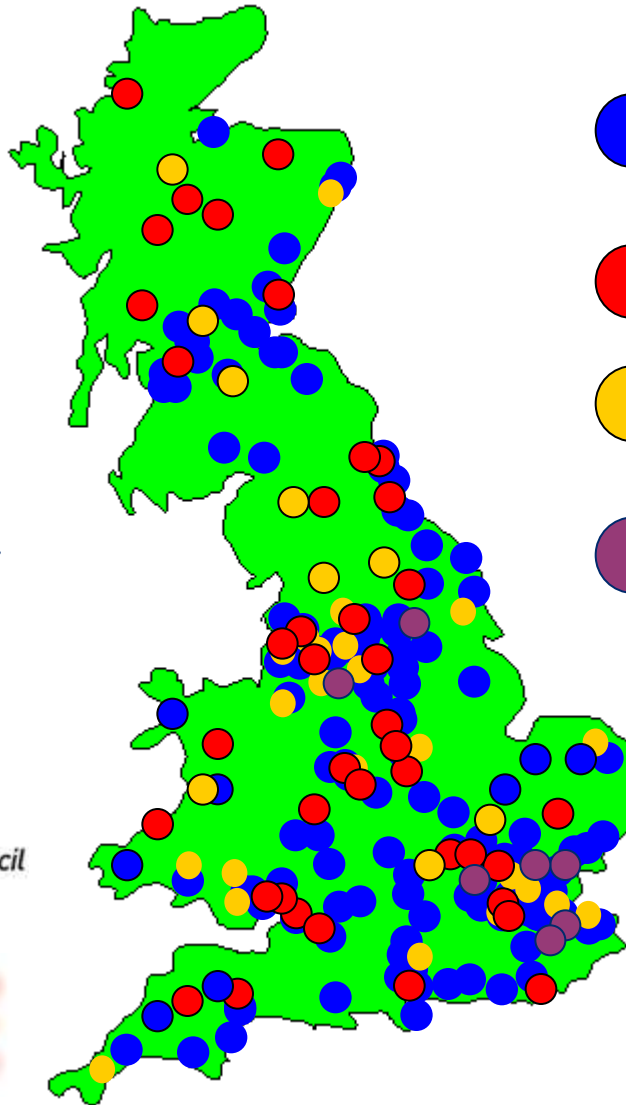
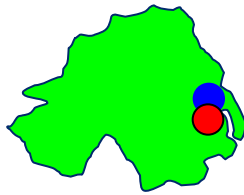
Who the Carbon Trust is working with...




Over 2,500 public sector bodies

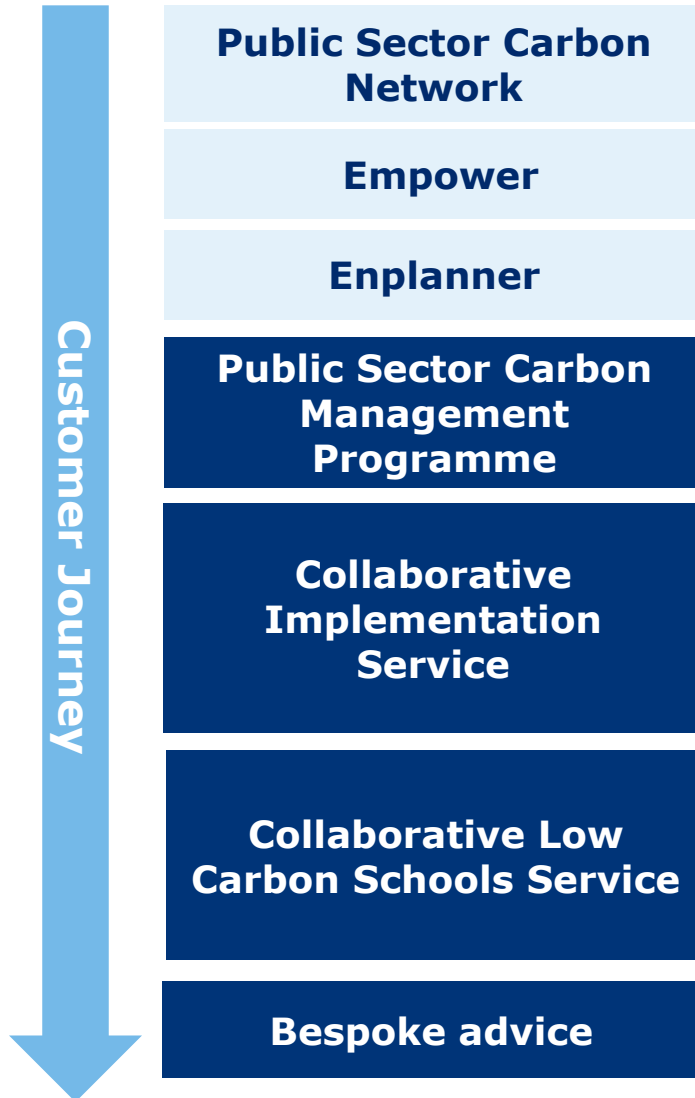


534 Public Sector Carbon Management customers.....



-  292 Local Authorities, Fire and Police Services
-  120 Universities
-  102 NHS Bodies
-  20 Government Bodies

Carbon Trust support for public bodies



- Web-based forum for public bodies to share best practice. Provides access to CT publications & tools <http://publicsector.carbontrust.co.uk/>
- On-line staff engagement tool www.carbontrust.co.uk/empower
- On-line tool for low carbon developments www.enplanner.com
- Carbon Trust's flagship engagement programme tailored for public sector bodies
- Collaborative service to help public sector bodies implement energy efficiency opportunities and embed low carbon behaviour
- Support for local authorities to engage with their schools estate
- Tailored one-on-one support to aid project implementation/identification: feasibility studies; design advice; surveys etc.

Public Sector Carbon Management Programme



Aim: To help you embed carbon management across your organisation to achieve sustained cost and carbon savings from your estate and operations.

Outcomes:

- Educated and mobilised team
- Active senior governance
- An engaged organisation
- Carbon baseline and future projections
- Identified, quantified and prioritised carbon reduction projects
- Business case to secure funding
- Five-year carbon management plan
- New contacts, networks and ideas

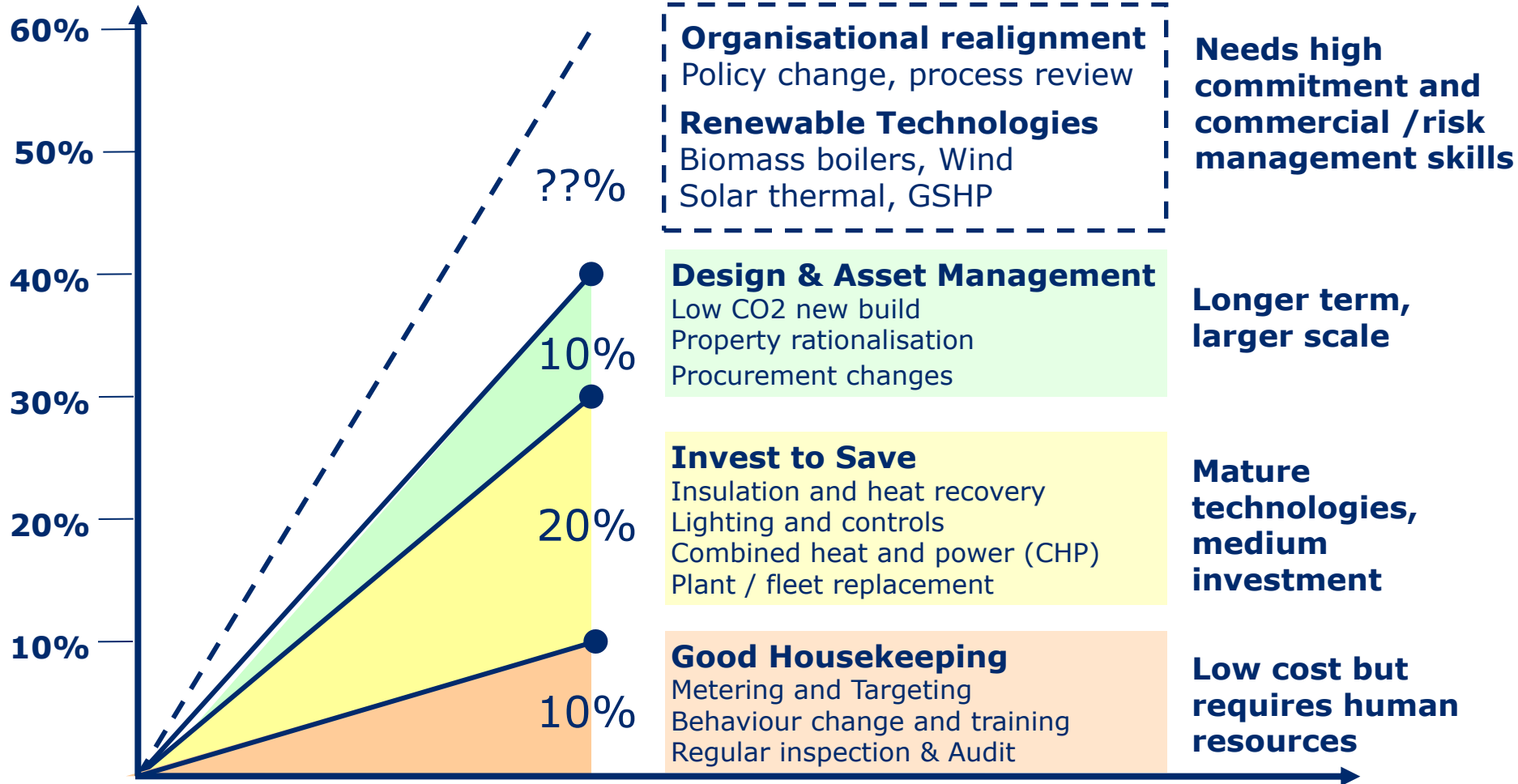


Carbon management process



- 10-month programme
- Technical and change management support
- Collaborative approach to facilitate knowledge exchange
- Workshops, webinars, toolkit
- Bespoke on-site support
- Genuine partnership

How can the targets be met?



Carbon Management Revisited



Aim: To update and reinvigorate your carbon management programme, enabling you to further cut carbon emissions, and make efficiency savings, from your own estate and operations.

Outcomes:

- Reengaged organisation with reinvigorated governance structures.
- Help you identify further opportunities to cut carbon emissions widening the baseline scope where required (e.g. scope 3 emissions) and plugging 'gaps' towards aspirational targets.
- Help you update existing carbon strategies and improve monitoring and benefits realisation.
- To reinforce the financial business case for carbon reduction.
- New contacts, networks and ideas.



Collaborative Low Carbon Schools Programme



Aim: To increase a local authority's capacity and knowledge around energy efficiency in their schools estate, while driving quick payback, low cost, energy saving measures.

Outputs:

- LA staff trained to understand opportunities for carbon reduction.
- Materials, presentations and framework to engage local schools.
- Robust delivery plan that builds the financial business case for action and provides a framework for delivering the programme to the wider schools estate.
- Opportunity to learn from other participants and alumni.



Results:

- Average carbon reduction of 12% (<32%) in schools within the first year.
- Energy savings payback cost of participation within 6 months.

Collaborative Implementation Service



Aim: To help organisations implement carbon reduction projects.



Outcomes:

- 5-year business case
- Co-ordinated implementation strategy
- Improved detail at project level
- Up-skilling of staff that aren't directly involved in CM
- Access to trusted suppliers



Content:

- 4 core modules – legislation, finance, technical, behaviour change
- 12 webinars; 6 workshops; 4 bespoke on-site days; 2 national events.

Call for Expressions of Interest



Requirements:

- Staff able to contribute to the process
- Senior management commitment
- Fees (TBC):
 - £12k PSCM (large orgs); £8.5k PSCM (small orgs)
 - £11k PSCM Revisited
 - £20k CLCSS
 - £10k CIS

Process:

- EOI to publicsector@carbontrust.co.uk by 29th Feb
- Recruitment workshops:
 - London
 - Manchester
 - 29th March, Durham



http://www.youtube.com/watch?v=RkVKRjhYRjM&feature=player_embedded

www.carbontrust.co.uk/empower



Empower

Welcome Ed Keating.

Find your way

- 1 Explore your office
- 2 Take the quiz
- 3 Tutorial
 - Carbon Comparisons
 - FAQ's
 - Myths
 - Top Tips
- 4 Personal action plan

TUTORIAL

TAKE THE QUIZ

PERSONAL ACTION PLAN

EXPLORE YOUR OFFICE

Home

Personal action plan

You've Saved... **92kg of CO₂**

Click to see how



Watch video



Save & close



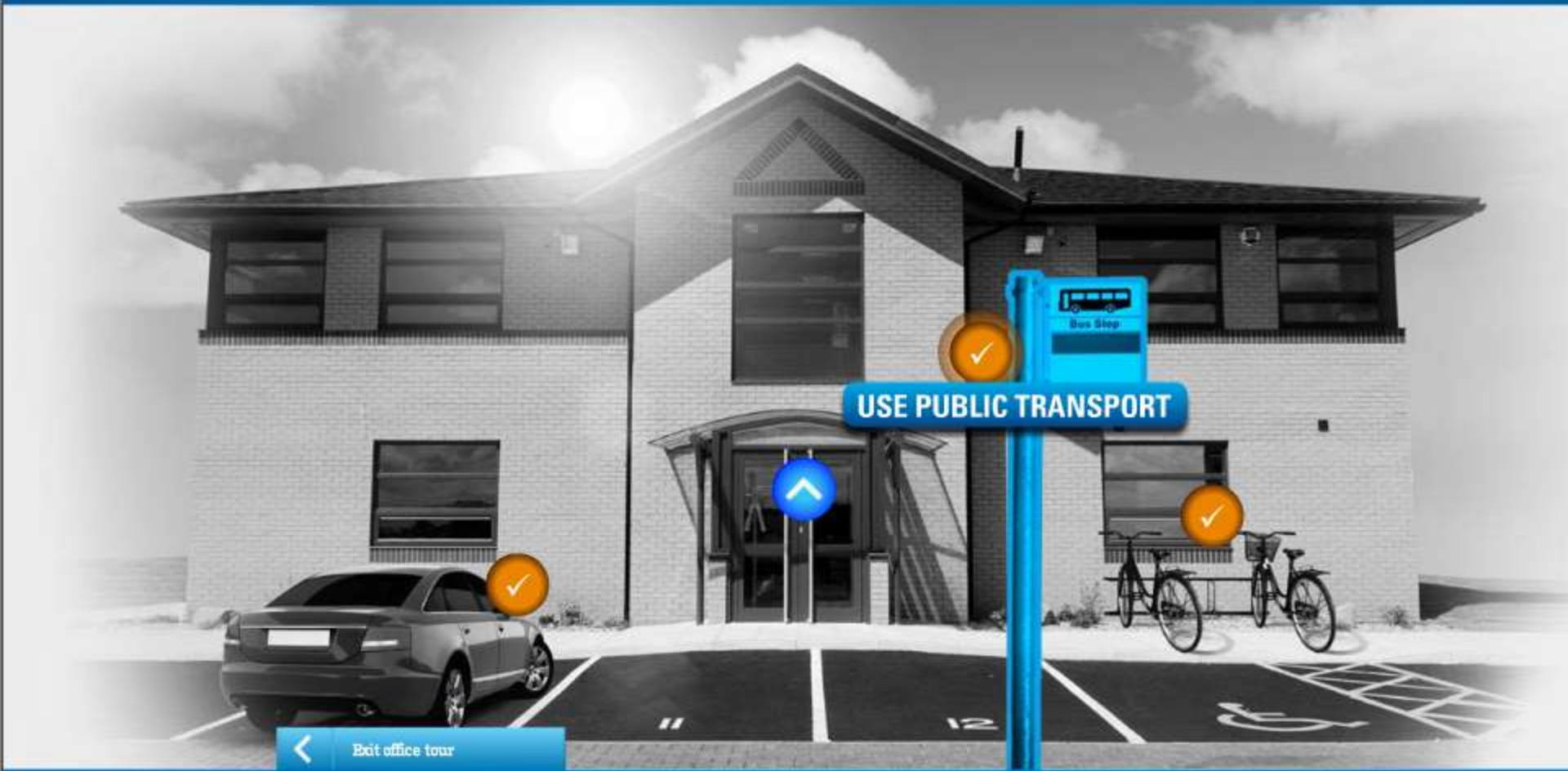
Share this





Tour | Exterior

Welcome Ed Keating.



← Exit office tour



Tour | Exterior

Welcome Ed Keating.



USE PUBLIC TRANSPORT

Using public transport such as trains, trams or buses instead of taking your car to work has a much lower environmental impact, never mind providing a far less stressful alternative than driving!

I will use public transport

- I already do this
- I'm going to start doing this
- It's not practical for me

[Update Pledge](#)

← Exit office tour

Home

Personal action plan

You've Saved... **92kg of CO₂**

Click to see how

Watch video

Save & close

Share this





Tour | Reception

Welcome Ed Keating.



Return to the car park



Empower

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Your Carbon Score

So far you've committed to making savings in your office which could amount to as much as:

1120 kgCO₂

Suggestions to your manager:

Exterior:

Reception:

Corridor:

Toilets:

Open Plan Office:

Pledge: I will switch off the lights where I can
 Comment: dgsjwhhd

Kitchen:

Desk:

Share with your manager

Virtual tour explored

- | | | | |
|--------------|---|---------------------|---|
| 1. Exterior | ✓ | 5. Open Plan Office | ✓ |
| 2. Reception | ✓ | 6. Desk | ✓ |
| 3. Corridor | ✓ | 7. Kitchen | ✓ |
| 4. Toilets | ✓ | | |



Your Pledges:

Exterior:

Pledge: I will speak to colleagues and find out who's interested.
 Commitment: It's not practical for me

Pledge: I will start walking or cycling into work.
 Commitment: I have no plans to do this

Pledge: I will use public transport.
 Commitment: I'm going to start doing this

Reception:

Pledge: I will switch off the lights in communal areas.
 Commitment: I have no plans to do this

Pledge: I will switch off the lights in meeting rooms.
 Commitment: I have no plans to do this

Pledge: I will use the stairs instead of the lift.
 Commitment: I'm going to start doing this

Email me my pledges



Energy Quiz

Welcome Ed Keating.

The Energy Saving Quiz

Flying from Manchester to London emits less CO₂ than travelling by coach as the journey time is shorter

- TRUE
- FALSE

Submit

Question 4 of 10

Home

Personal action plan

You've Saved... 1120kg of CO₂

Click to see how



Watch video



Save & close



Share this





Tutorial

Welcome Ed Keating.





Tutorial

Welcome Ed Keating.

The Lights Myth

? Switching fluorescent lights on and off regularly uses more energy than leaving them on.

A fluorescent tube uses several hundred times more energy if left on for 15 minutes than the energy required to restart it! Switch off the lights when you leave a room. Better still, speak to your manager about installing occupancy sensors.



Tutorial

Welcome Ed Keating.

<p>Action</p>  <p>If I switched off my computers and monitors when it's not in use, in one year I could save the equivalent CO2 produced from...</p>	<p>My Impact 1 person</p>  <p>Making 50 cups of tea.</p> <p>If everyone in my office was to follow suit then we could save the equivalent CO2 produced from...</p>	<p>Office Impact 100 people</p>  <p>1 years' worth of washing machine loads</p>
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01/10



Empower

Welcome Ed Keating.

Find your way

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Your pledges

So far you've committed to making savings in your office which could amount to as much as:

1120 kgCO₂

Equivalent to the CO₂ emissions released supplying Gibraltar with electricity for 5 minutes

How you compared to other users of Empower:

900 to 1000kg CO ₂	1
1000 to 1100kg CO ₂	1
1100 to 1200kg CO ₂	2
1200 to 1300kg CO ₂	1
1300 to 1400kg CO ₂	0

Your Quiz results

0 / 10

(Carbon zero)

Your suggestions to your manager

If you've made any energy saving suggestions to your manager within the explore the office section of Empower, remember to submit these from the Personal Action Plan section.

To encourage your manager to start acting on these suggestions, we will show them how much money can be saved on your office energy bill.



EXPLORE YOUR OFFICE

Home

Personal action plan

You've Saved... **1120kg of CO₂**

Click to see how

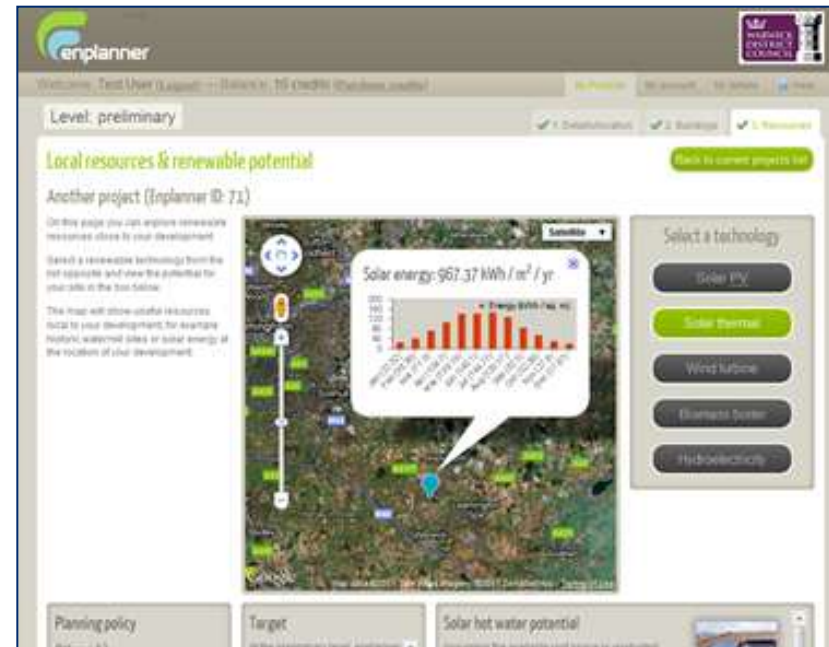
Watch video

Save & close

Share this



- Increase in renewable energy for new developments – policy, regulation & incentives
- Web-based planning toolkit – micro & small scale renewable energy
- Addresses skills shortage between developers / LA planners
- Automates and streamlines the renewable energy planning process



- Save costs, improves efficiency AND creates an effective, locally led, low carbon planning system

<http://enplanner.com>

Public Sector Carbon Network

www.publicsectorcarbonnetwork.co.uk



The screenshot shows the website's main page with a navigation menu and several content sections. The navigation menu includes Home, Comments, Topics, By Sector, Documents, People, Organisations, and Events. The main content area is divided into three columns: Latest Comments, Welcome to The Public Sector Carbon Network, and Comments organised by Topic.

Public Sector Carbon Network

Larissa Lockwood | [Edit Your Details & Preferences](#) | [Log out](#)

Search For:

Home | Comments | Topics | By Sector | Documents | People | Organisations | Events

Latest Comments:

- [Smart meters for schools](#)
Hi all, I was wondering if anyone could point me in the direction of a range of suppliers for smart meters - particularly those that would be suit...
- [Reply from NHS SDU/Ed Cox](#)
(I am posting this on behalf of Ed Cox who worked with us at NHS SDU recently) Dear Sion, I spent a couple of months at the SDU (Sep-Oct), and...
- [Using existing council visits to give environmental advice](#)
Does anyone have any experience in integrating environmental advice to businesses into existing Council visits? I am particularly interested in wheth...
- [Opportunity to host a free SME event with the Carbon Trust](#)
The Carbon Trust is developing an exciting new programme of events specifically to support local authorities reach out to SMEs in their area. The ...
- [FITs: Export Tariff](#)
Dear All, I'm investigating the feasibility of a couple of sub-50kW PV systems for our Council buildings. I was intending for all the electrici...
- [Wind Amplification Modules](#)
I'd agree with John that if it seems too good to be true it probably is. If 200kWh x 3,000 hours = 1,000,000 kWh per annum is a direct quote from t...
- [BMS and AMR.... integrated system?](#)
Oxford Brookes presently runs AES Energy Tracker (re-branded version of SystemsLink M&T software). Does anyone

Welcome to The Public Sector Carbon Network

The Public Sector Carbon Network is an amalgamation of the Local Authority Network, the NHS Network, the Government Estate Network and the Higher Education Network.

Changing Your Contact Details & Preferences

You can change your login and contact details, and choose the frequency with which you receive emails (including opting out), by clicking on 'Edit Your Details & Preferences' at the top of the screen.

Finding Useful Information

the top of the screen on every page of the site you will also find the network search utility. Just type what you are looking for in the 'Search For:' box and click the 'Search' button.

If you have any suggestions for improvements, any questions or problems, please get in contact at: admin@publicsector.carbontrust.co.uk

Comments organised by Topic:

- [Alternative Energy Supplies \(Renewables\)](#)
 - [Biomass \(Waste, Woodchip, Bales etc.\)](#)
 - [Heat Pumps](#)
 - [Hydro](#)
 - [Renewables Planning, Development and Targets](#)
 - [Solar](#)
 - [Wind Generation](#)
- [Building Related Technologies](#)
 - [Building Fabric & Specifications](#)
 - [Building Instrumentation And Control](#)
 - [Cooling & Air Conditioning](#)
 - [Electrical Distribution System Management](#)
 - [Heating](#)
 - [I.T. / I.C.T. \(Server rooms, computers etc.\)](#)
 - [Insulation](#)
 - [Leisure Centres and Sports Halls](#)
 - [Lighting](#)
 - [Measuring / Metering / Monitoring \(Automatic & Targetting\)](#)
 - [Office Equipment / Kitchen Appliances](#)
 - [Operation And Maintenance](#)
 - [Refurbishment](#)
 - [Tenant - Occupant \(Tenancy, agreements etc.\)](#)
 - [Waste](#)
 - [Water - from tap, flushing & consumption](#)

Carbon Trust Standard



Robust certification and public recognition of your achievements based on strict criteria and detailed assessor audit.



Assessment Criteria:

1. Provide an accurate footprint measurement including all required emission sources.
2. Demonstrate an absolute reduction of your footprint or equivalent relative efficiency improvement.
3. Demonstrate good carbon management to our standard including carbon governance, accounting, reduction methods and targets.

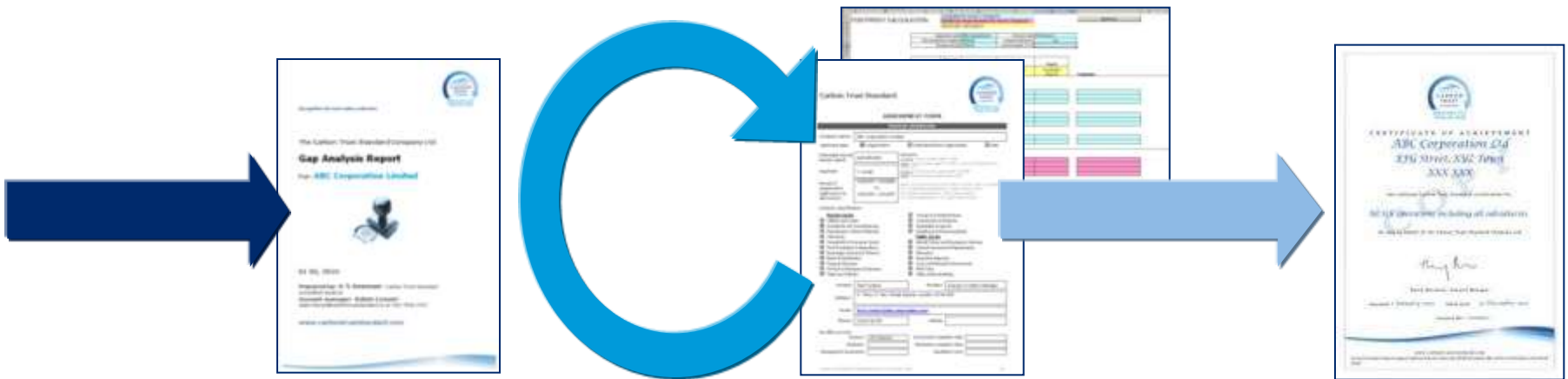
Certification process



Gap Analysis

Assisted Certification

Certification Only



**Organisational
Preparation**

**Footprint / Form
Completion**

**Submit
Assessment**

Benefits of achieving the Carbon Trust Standard



Corporate reputation

- Join over 500 carbon leaders
- Highlight commitment to good carbon management; gain positive PR

Leadership and differentiation

- Go beyond regulation and compliance
- Engage and motivate staff and stakeholders

Continuous improvement

- Benchmark your progress
- Improved energy efficiency and provide focus for further actions

Financial savings

- Promote a culture of energy savings
- Reduce your potential tax liability and cut your bills

Certificates issued to public sector organisations



Total	237
Armed Forces and Emergency Services	13
Central Government Departments	15
Education	64
Executive Agencies	25
Local and Municipal Government	81
NHS Trust	30
Other Public Buildings	8

Price List*



Organisation's annual energy expenditure	Certification Only	Assisted Certification	Online Certification **
Less than £50k	£1,000	£1,700	£450
£50k-£500k	£2,000	£3,500	n/a
£500k-£1.5m	£5,000	£8,000	n/a
£1.5m-£5m	£6,000	£10,000	n/a
£5m-£10m	£8,000	£12,000	n/a
More than £10m	£10,000	£15,000	n/a

* As at 01/11/10, for UK assessments

** Online certification is currently only available for smaller organisations

Verify your carbon footprint



Footprint verification service

- › Verification to the measurement rules of the Carbon Trust Standard
- › 1 or more years of data
- › Gap analysis phase, followed by verification
- › GHG Protocol compliant

Costs

- › Typically 2-6 days, dependent on:
 - › Company size,
 - › Footprint complexity
 - › Boundary / geography

Benefits

- › Assurance for CSR / annual reporting
- › Enhance credibility of footprint disclosure – e.g. via website
- › Verification statement - supports disclosure to 3rd parties – e.g. CDP, investors, stakeholders
- › First step towards full Carbon Trust Standard certification

Footprint Verified by



Carbon Trust Standard contact details and more information



- Website: www.carbontruststandard.com
 - Case studies
 - Rules and tools
 - Enquiry form
 - News & updates

- Helpline: 0800 019 1443

- Dedicated account management team

If you...



- Want to cut your carbon emissions, save your organisation money and comply with regulation,
- Visit www.carbontrust.co.uk/publicsector
- And/or send your EOI to publicsector@carbontrust.co.uk by 29th February





Thank you!

Larissa Lockwood

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www.carbontrustco.uk/publicsector