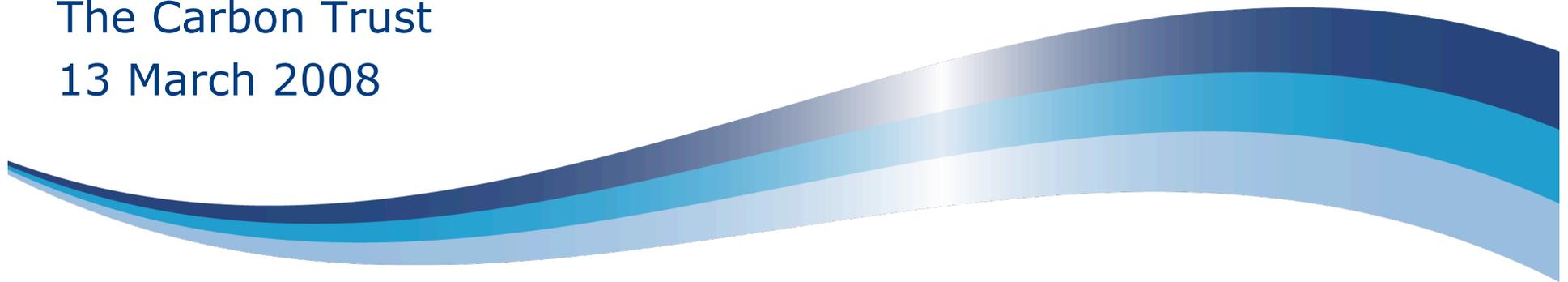




# Development activities and status of PAS2050

34<sup>th</sup> Discussion Forum: Life cycle assessment v CO<sub>2</sub> footprints

Dr Graham Sinden  
The Carbon Trust  
13 March 2008



➤ Overview

➤ PAS2050 developments

➤ Reduction and communication

# What is PAS2050?

- Publicly Available Specification (PAS)
  - consultative document
  - process and format based on the British Standard (BSI) model
  - any organisation can commission a PAS (subject to the BSI acceptance process)

## ***PAS2050: Specification for the assessment of the life cycle greenhouse gas emissions of goods and services***

- PAS2050 is co-sponsored by the Carbon Trust and the UK Department for the Environment, Food and Rural Affairs (Defra)
  - PAS2050 is based on existing (ISO14040-44) LCA standards
  - A steering group has been established
  - The Carbon Trust is the Technical Author
  - CT and Defra have joint sign-off of the finished PAS

# Multiple stakeholders working towards a single standard



## Extending the existing method through a transparent, consultative process

- Development overseen by an independent Steering Group, including academics, NGO, Government and industry (a second Steering Group has been established for Reduction & Communications frameworks)
- Two consultation periods with national and international stakeholders
- Technical development supported by working groups of experts, market research and pilots



# Current status of PAS2050: timeline



Today



## **March – August 2007**

- Carbon Trust published original methodology
- BSI appointed Steering Group make edits, creating 1<sup>st</sup> version of PAS

## **September 2007 -January 2008**

- Comments with selected stakeholders
- Comments resolution by SG, creating 2<sup>nd</sup> version of PAS
- Workgroups established

## **February – April 2008**

- Main consultation with ~800 stakeholders

## **May - ~July 2008**

- Comments resolution by S.G.
- Publication of PAS
- Building process for ongoing (international) management

## Next steps...

- The next (and final) consultation commenced on 18 February 2008:
  - To be involved...
    - Visit [www.bsi-global.com](http://www.bsi-global.com) or
    - Contact [Maria.Varbeva-Daley@bsi-global.com](mailto:Maria.Varbeva-Daley@bsi-global.com)
  
- PAS2050 will be re-drafted in light of this consultation
  - Steering Group to consider final draft
  - Aim to publish final PAS2050 in June-July.

➤ Overview

➤ PAS2050 developments

➤ Reduction and communication

# Some key developments



## ➤ Data

- Set 60% primary data requirement
  - Limited by homogenous market (commodities)
  - Limited by the need to physically measure the GHG emissions
  
- Establish hierarchy of secondary data sources
  - ELCD dataset at the top of a hierarchy
  - Other sources of data specified
  - Principles of data collection specified
  - No time limit

# Some key developments



- Functional unit
  - Adopts ISO14044 definition of functional unit
  - Functional unit includes full life cycle emissions
  - Potential for separate functional unit reporting for use and non-use phase emissions.
  
- Use phase
  - Widely diverging views!
  - Current draft includes the use phase
    - Specifies a hierarchy for establishing a use profile for a product
    - Requires that where the result is communicated, the use profile (or basis of use phase assessment) must be made available

# Some key developments



- Boundaries
  - Exclusion dealt with via “materiality rule”
    - except for capital emissions, human energy and animal transport
  - Establishes Product Category Rules as the primary definition of boundaries (where they exist)
  - Expectation is that further PCRs will be developed
  
- Arising from the first consultation and workgroups
  - Sequestration: for wood fibre products and cement
  - Land use change: default values for direct change
  - Carbon source: separation of fossil and biogenic C
  - Allocation: more prescriptive on co-products, energy, etc.
  - Claims of conformity: verification etc.

# Some key developments



- Other issues
  - Uncertainty
    - there was some concern about the impact of uncertainty in measurement
    - Some text added, but no requirement or guidance regarding carrying out an uncertainty assessment
  - Offsetting
    - Broad support for the exclusion of offsetting from the assessment standard, with some confusion over renewables
  - Renewables
    - Rules added for the treatment of renewables
    - Allocation of carbon benefit separated from other mechanisms (e.g. allocation of subsidy)

- Overview
- PAS2050 developments
- Reduction and communication

# Reduction & Communication



- Development of Reduction Rules and Communication framework is separate from the PAS development
- This work will run in parallel with the BSI PAS development process
- Work will follow a similar pattern to BSI approach
  - Steering group being established
  - Draft RR&C approach being prepared
  - Planned consultation on reduction rules
  - Plan to test different communications options with companies and consumers

# Making Business Sense of Climate Change



## Questions

Graham Sinden  
The Carbon Trust

[www.carbontrust.co.uk](http://www.carbontrust.co.uk)



# PAS Steering Group



PAS Steering group members have been appointed.

- Prof Jim Skea – Chair (Director, UKERC)
- Terence Illot (Defra)
- Paul Jefferiss (BP)\*
- Prof Roland Clift (Surrey University)
- Keith Allot (WWF)
- Michael Roberts (CBI)\*
- Steve Reason (FDF)
- Nick Monger-Godfrey (John Lewis)
- Prof Tim Jackson (Surrey University)
- Dan Staniaszek/Richard Johnstone (EST)

\* PJ & MR are Carbon Trust board members, but do not represent CT on the PAS SC

# Key questions to address in the reduction framework



<b>What is the baseline to measure reduction?</b>	<ul style="list-style-type: none"><li>• Previous analysis or “business as usual”?</li><li>• How do we treat changes outside the company’s control?</li><li>• How would changing data quality be accounted for?</li></ul>
<b>What is the reduction requirement?</b>	<ul style="list-style-type: none"><li>• No target – any reduction acceptable?</li><li>• Pre-set relative or absolute target?</li><li>• Reasonable effort definition? Linked to ease of reduction?</li></ul>
<b>Over what timeframe?</b>	<ul style="list-style-type: none"><li>• Pre-set timeframe, e.g. year on year, two years, etc.?</li><li>• Normal sector investment cycle?</li></ul>
<b>Evidence of reduction?</b>	<ul style="list-style-type: none"><li>• Data on reduction only, or also details of actions taken?</li></ul>
<b>What about products sold for a short time?</b>	<ul style="list-style-type: none"><li>• Exclude them from reduction requirement?</li><li>• Different communication options?</li></ul>
<b>Management systems?</b>	<ul style="list-style-type: none"><li>• Strategy/plans</li><li>• Monitoring systems?</li><li>• Performance management?</li></ul>

# Product-related emissions reduction (PERS) development



- Options paper based on internal evaluation amongst the project team.
  
- Most responses centred around the presentation of measurement
  - Benchmarking
  - Ranking
  - etc
  
- The PERS is currently being redrafted to read as a standard
  - Will go to the R&C-SG at the end of January
  - Considered by R&C-SG at 7 February meeting
  - PERS draft will be revised and put out to consultation