



# Carbon management and the scope 3 project

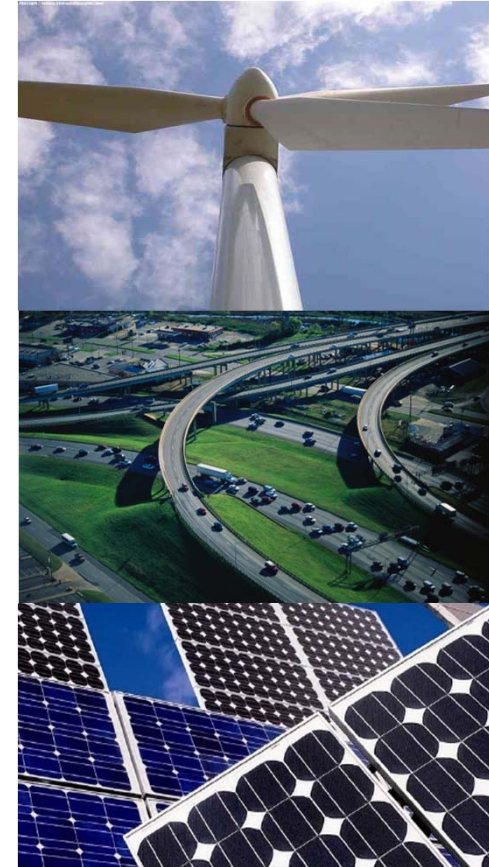
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**London Universities Environment Group**

**18 January 2012**

# Carbon reduction strategy

- Sector strategy agreed through consultation
- Published with UUK and GuildHE
- Sets out areas where we will work with institutions and others to achieve reductions
- Requirement for institutions to set their own targets and develop carbon management plans
- Funding incentives
  - Revolving Green Fund
  - Linked capital funding to carbon performance



# Classification of emissions

## *Scope 1*

- Direct emissions
- for example, gas use and fuel used in university owned vehicles

## *Scope 2*

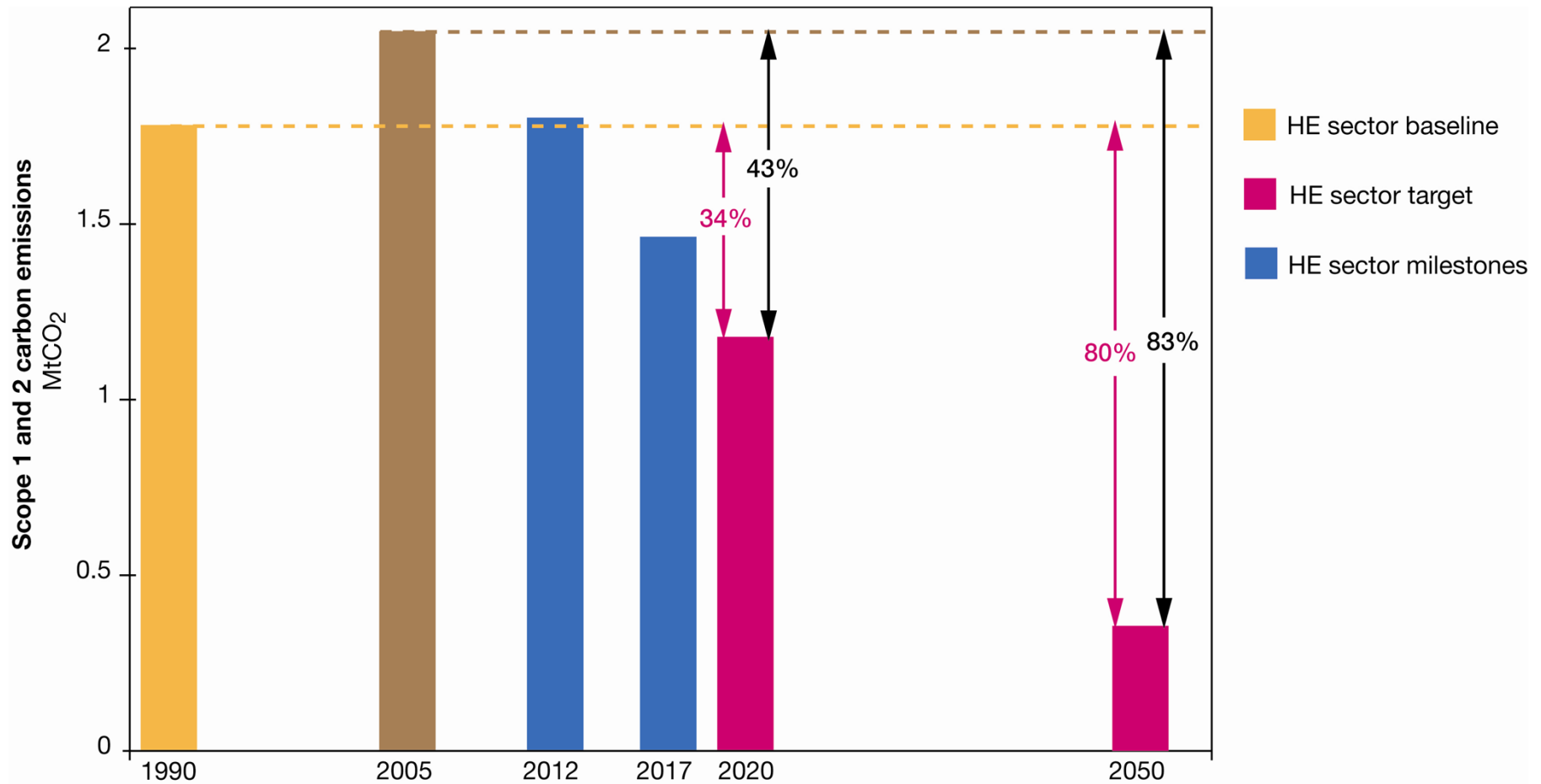
- Emissions from purchased electricity

## *Scope 3*

- All other indirect emissions that are a consequence of university activities (e.g. commuting, business travel, waste, procurement)



# Challenging targets



# Measuring scope 3 emissions

- Commitments in the carbon strategy
  - Baseline of procurement emissions by December 2012
  - Sector target(s) for scope 3 emissions by December 2013



# Measuring scope 3 emissions

- A sector baseline of procurement emissions
- EMS definitions for measuring emissions at institutional level from 2012/13
- Guidance on efficient and effective data collection practices
- Waste, water and procurement – Arup, De Montfort University and CenSA
- Transport - JMP

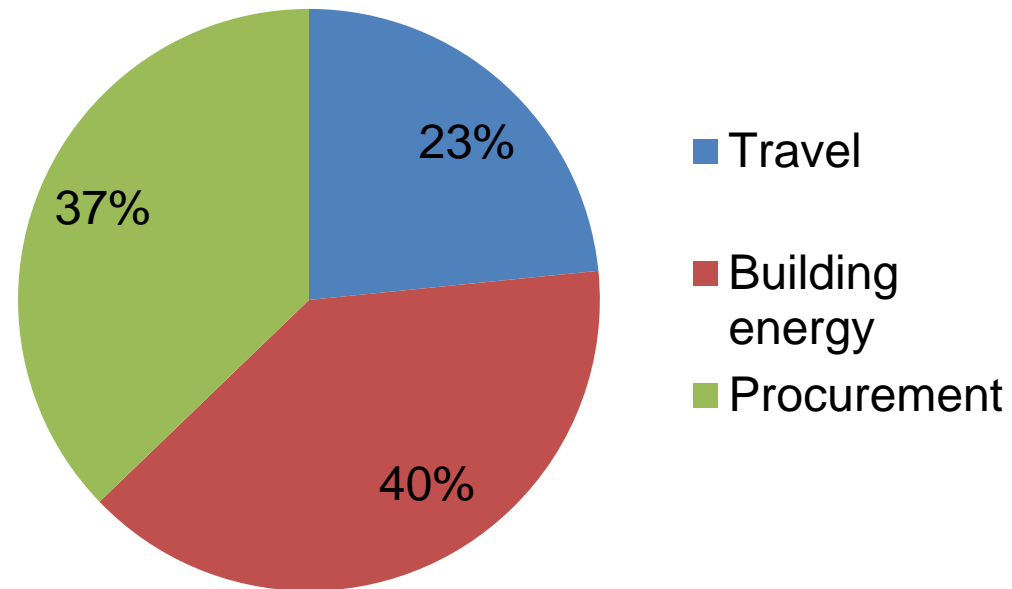


# Issues and opportunities

- Existing systems and processes for obtaining information
- Engagement with a wide range of HEIs and stakeholders
- Align with national carbon reporting guidance and protocols - Defra/DECC carbon conversion factors
- Considerate of the potential burden and cost for HEIs, looking to minimise this where possible
- Reporting provides management information
- Opportunity to demonstrate efforts alongside reductions in scope 1 and 2 emissions

# Sector emissions

**2005-06 - 5.4 MtCO<sub>2</sub>**





# HESA review of EMS

- EMS review group includes representatives from AUDE and EAUC
- Reviewing all data definitions:
  - Should the item still be collected?
  - Does the guidance need updating?
  - Should new data items be included?
  - Mandatory or optional?
- HESA to apply carbon conversion factors?
- Consultation on proposed changes in early 2012
- Changes to be implemented for the 2012-13 data collection



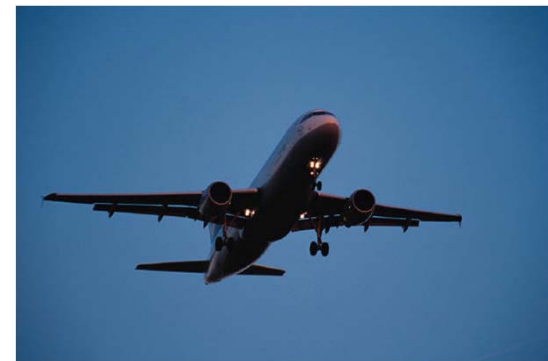
# Transport

## ***Scope 1 or scope 3?***

- Scope 1 - vehicles owned or leased by the HEI
- Scope 3 - other business travel

## ***Business travel***

- Travel paid for by the HEI and undertaken by staff and students
- For example, travel to attend conferences and meetings or students travelling to fulfill course requirements
- Excludes emissions from business travel that is paid for by a third party



# Transport

## *Commuting*

- Staff travelling to and from their home address to the institution
- Students travelling to and from their home (term-time only) address to the institution
- Travel survey data can be from the previous two years
- Does not include:
  - Students travelling from their term-time address to their home address
  - Travel associated with graduation
  - Non-academic student travel
  - Visitor travel



# Waste

- Emissions associated with the production and treatment of waste
- Due to the diversity in quantity and quality of waste data the good practice guidance provides a tiered approach:
  - **Basic approach:** where waste data is very limited for both residential and non-residential properties
  - **Medium approach:** where waste data and recycling data is available for non-residential and/or residential buildings
  - **Detailed approach:** where good quality waste in-house data is available



# Water

- Emissions associated with the supply of water
- Emissions associated with the treatment of wastewater



# Procurement

Emissions associated with the supply chain

- Developed a reporting framework to measure scope 3 emissions from the supply chain
- Based on the Annual Returns Database – spend data is submitted to the purchasing consortia annually
- Emissions calculated using an environmentally extended input-output (EEIO) model which uses top-down carbon intensity data combined with a breakdown of bottom-up expenditure data
- Incorporates and considers the full supply-chain impacts of each procured good/service
- Data quality?
- Hosting?



**Any questions?**



# Discussion

- What is your institution doing to measure and manage scope 3 emissions?
- What are the challenges around measuring scope 3 emissions and how could these be overcome?
- What are the potential opportunities or benefits from measuring and reporting scope 3 emissions?







## How to find out more

**Web-site** [www.hefce.ac.uk/pubs/rereports/2012/rd01\\_12/](http://www.hefce.ac.uk/pubs/rereports/2012/rd01_12/)

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