



SIEMENS

CRC Energy Efficiency Scheme as an income generator



Scheme background and principles

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About ESTA

**Contract
Energy
Management**

**Independent
Energy
Consultants**



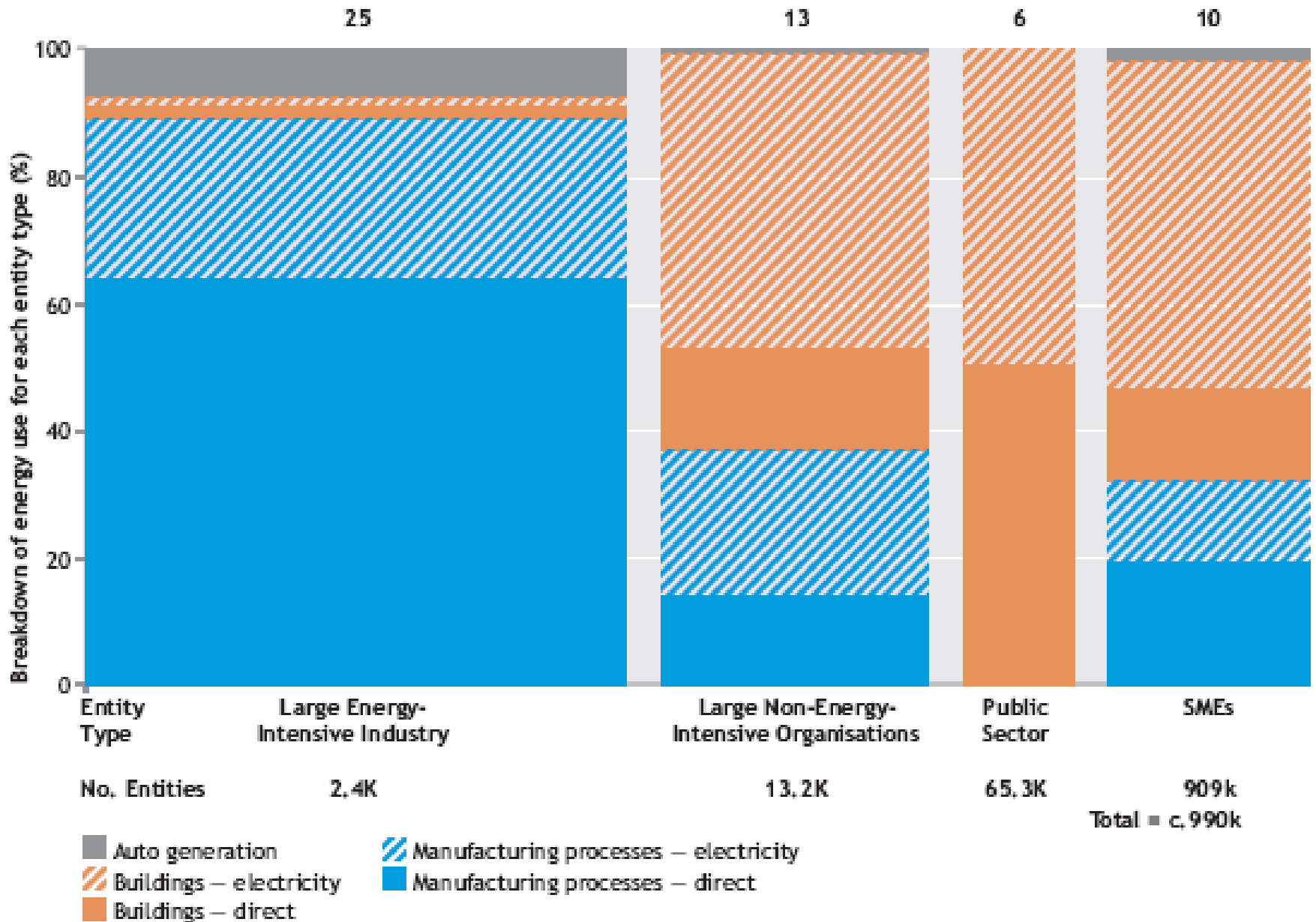
**Lighting
Controls**

**Metering and
Monitoring**

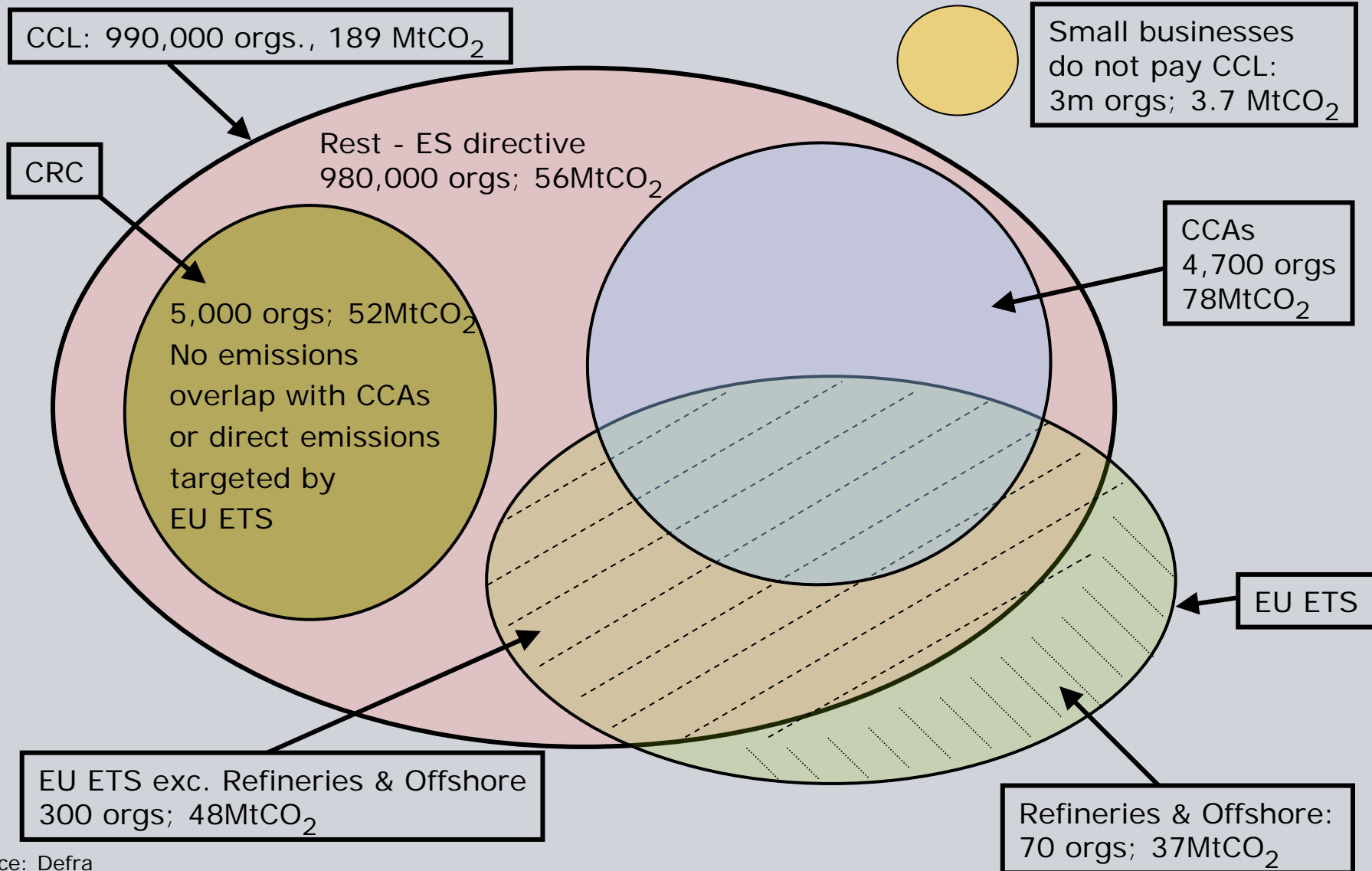
**Energy
Controls**

Source: Carbon Trust UK Climate Change Programme CTC518

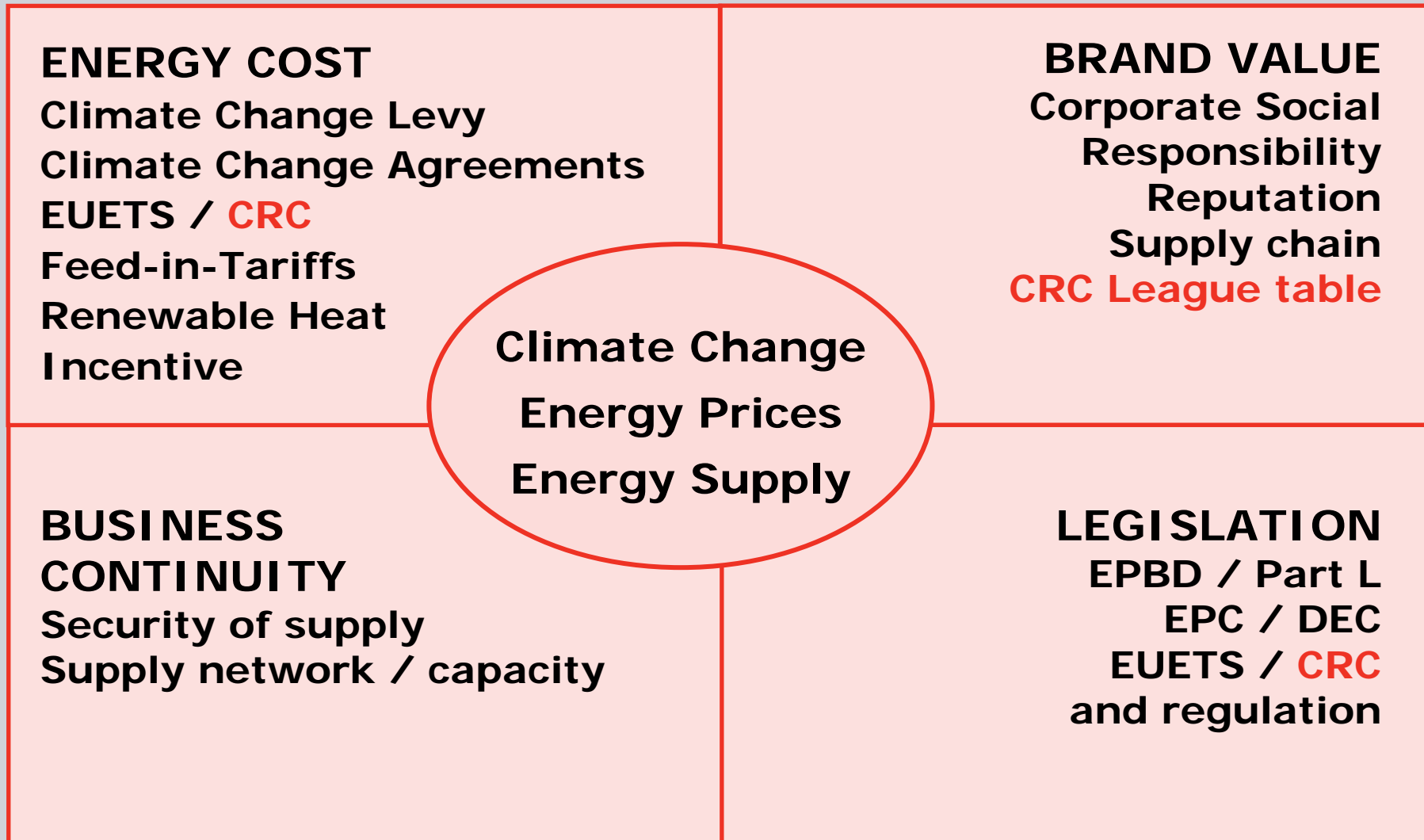
Carbon emissions by entity/user type, MtC. Total = 54MtC



UK Non-Domestic emissions by policy



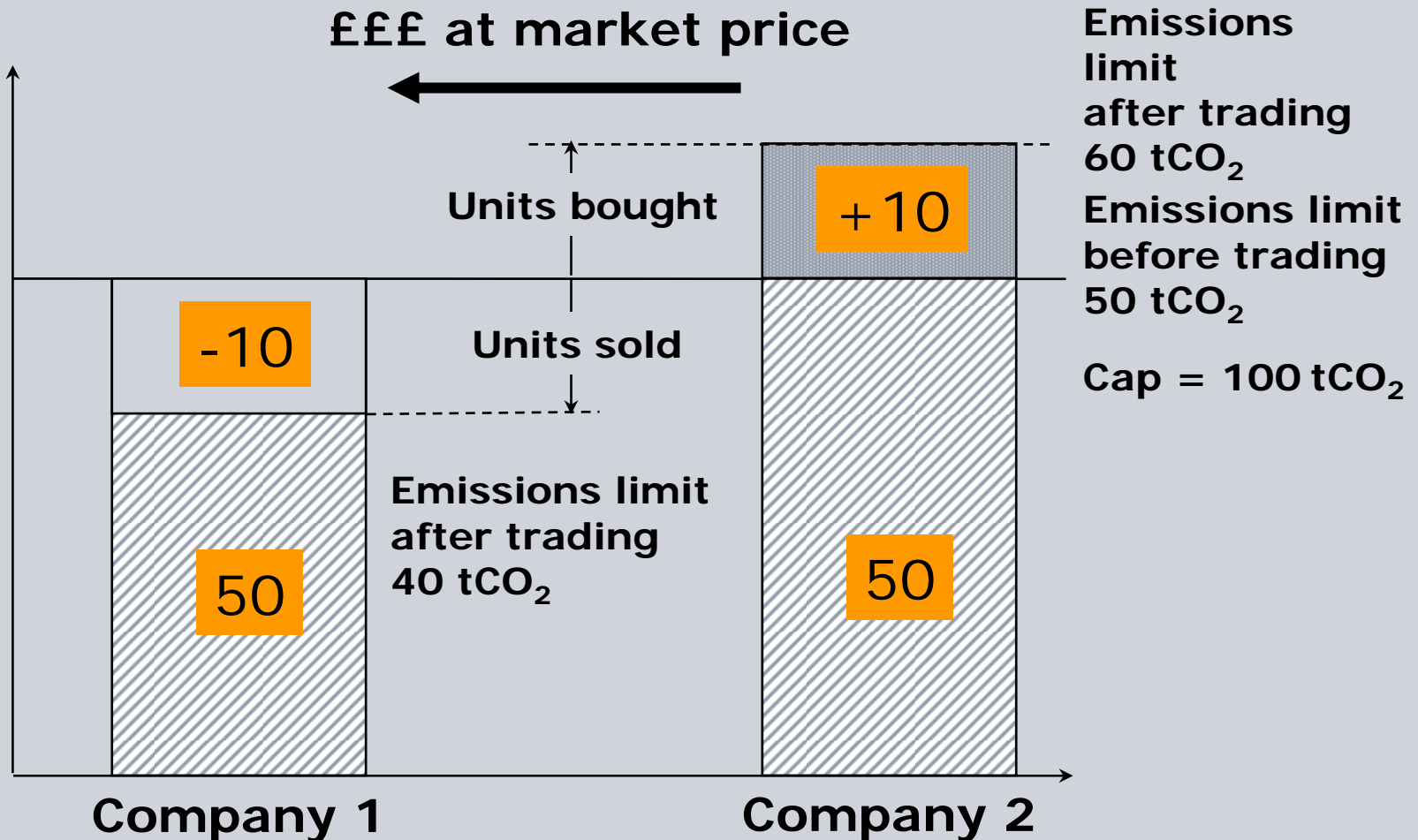
Energy Management Drivers



Emissions Trading: Cap and trade

Investment flows to lowest cost of carbon abatement

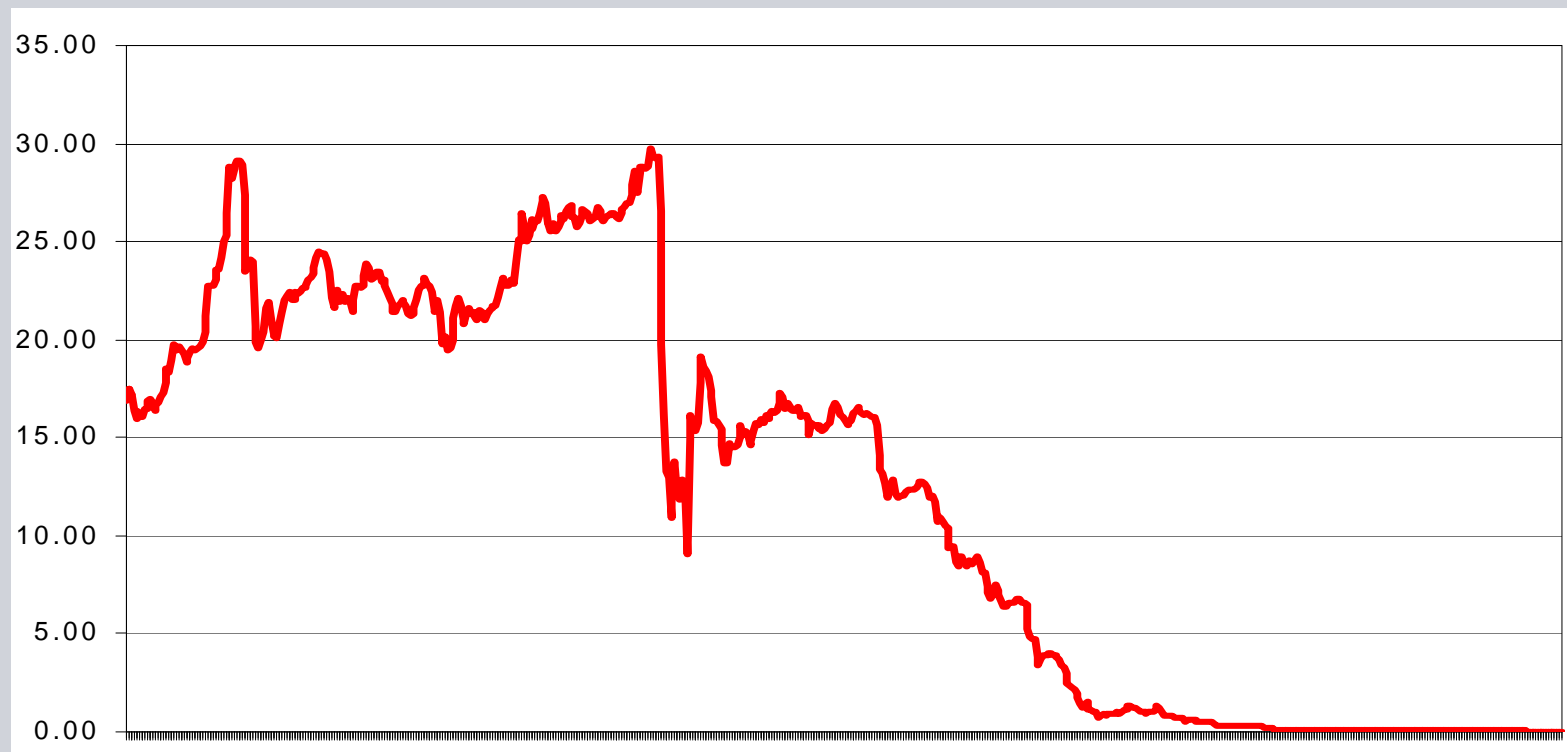
Carbon dioxide/ GHG emissions



EU Emissions Trading Scheme Ph 1 2005-2007

- Energy 'activities' in excess of 20MWth (installed) + specified industries
- Combustion only; CO₂ only; Cap and Trade system
- Allocated via National Allocation Plan NAP - about 800 UK sites
- Deemed a failure? collapse in carbon price BUT allow learning and familiarity

Euros / tCO₂
Jan 2005 to December 2007



EU ETS Ph 2 2008-2012

- New industries included; UK 238 MtCO₂ [vs. 245 MtCO₂ in Ph I]



Carbon Reduction Commitment

Qualification threshold:

- Over 6,000 MWh from ALL half hour meters [70kVA in NI] includes mandatory AND voluntary HH meters; at least 1 meter
- Generally participant is organisation with energy supply contract

Once 'captured' the emissions covered are:

- 'Core sources':
 - Electricity: Half hour meters; Non-domestic meters with max. demand [mainly profile 5-8]
 - Gas: All daily read meters; plus over 73.2 MWh pa.
- All other emissions to least 90% of all emissions incl. CCA/EUETS

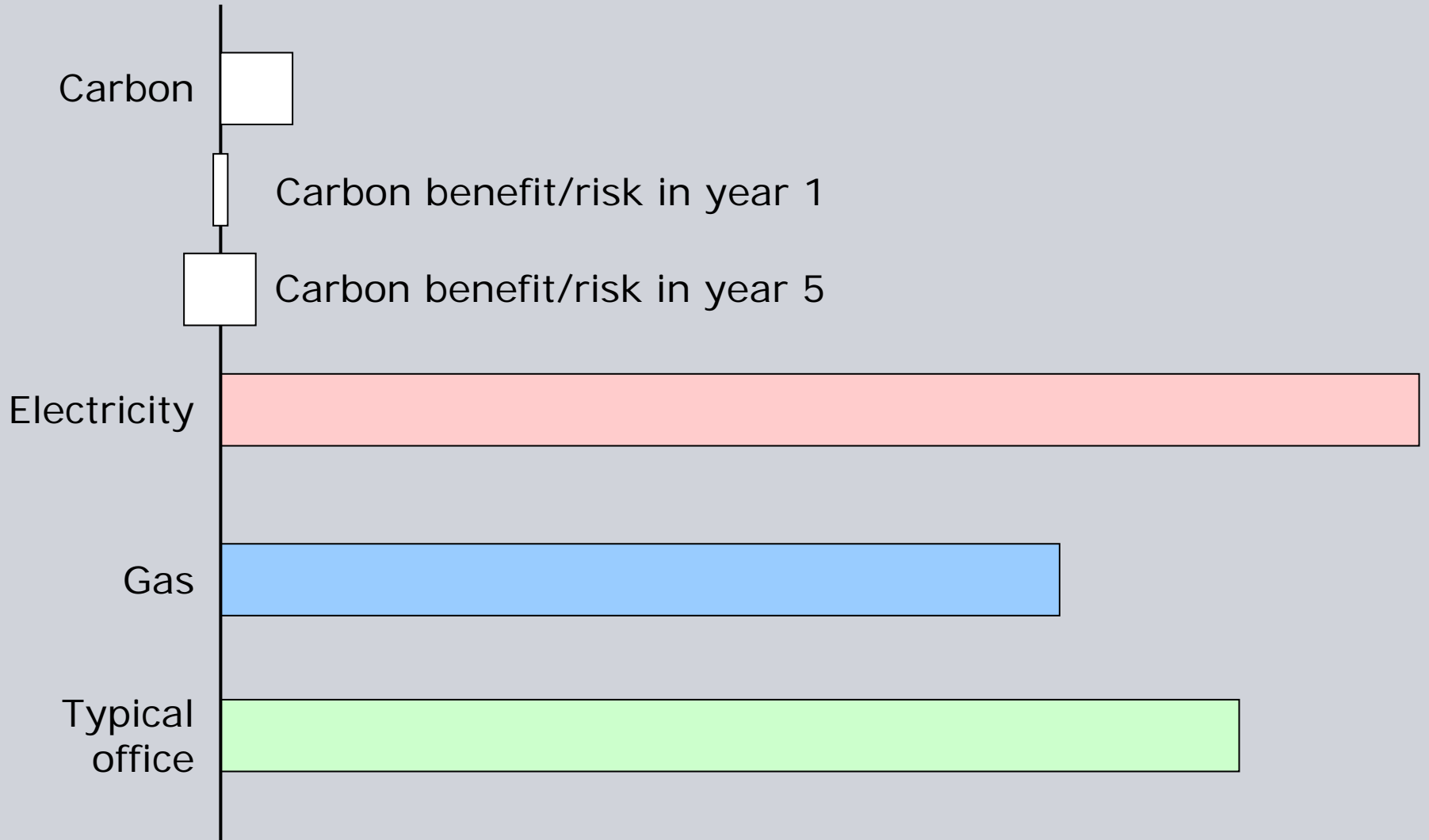
Excludes:

- Transport emissions; Direct emissions covered by EU ETS
- Organisations with over 25% emissions in CCA

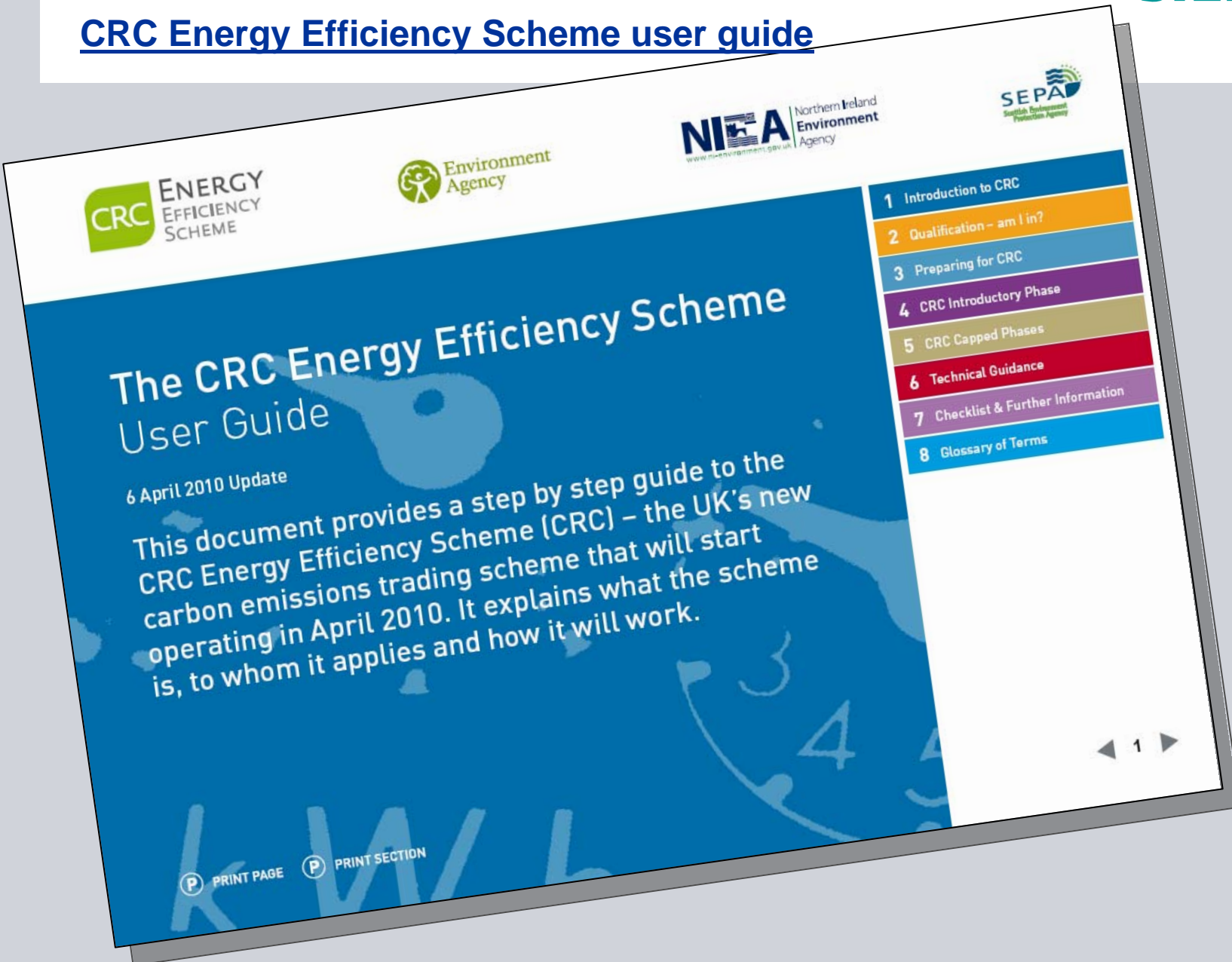
Funds recycling based on 'league table'

- Absolute emissions
- Growth
- Early action metric: 'AMR meter'; Carbon Trust Standard / BS EN 16001 with Kitemark

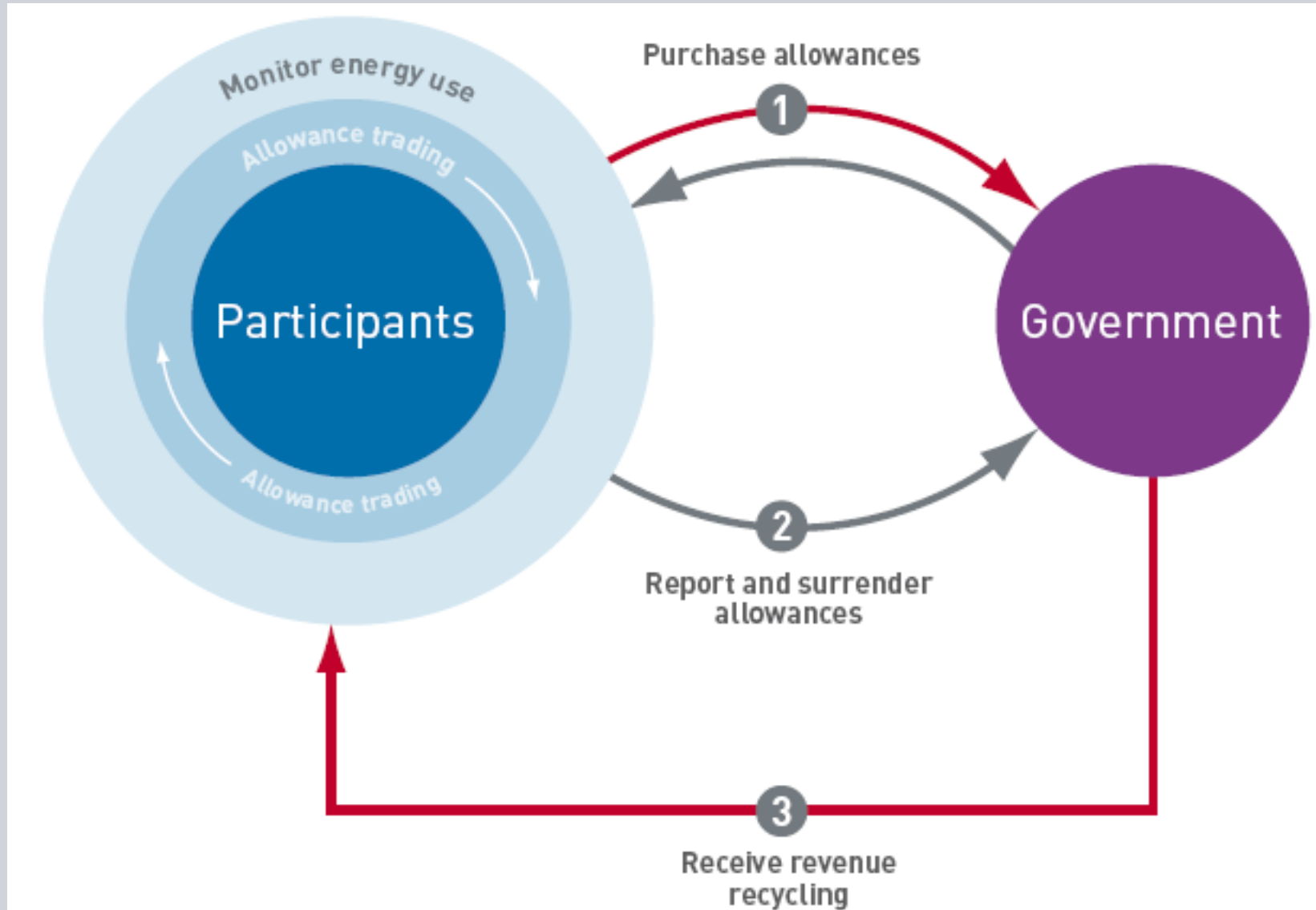
Cost of Carbon vs. Energy



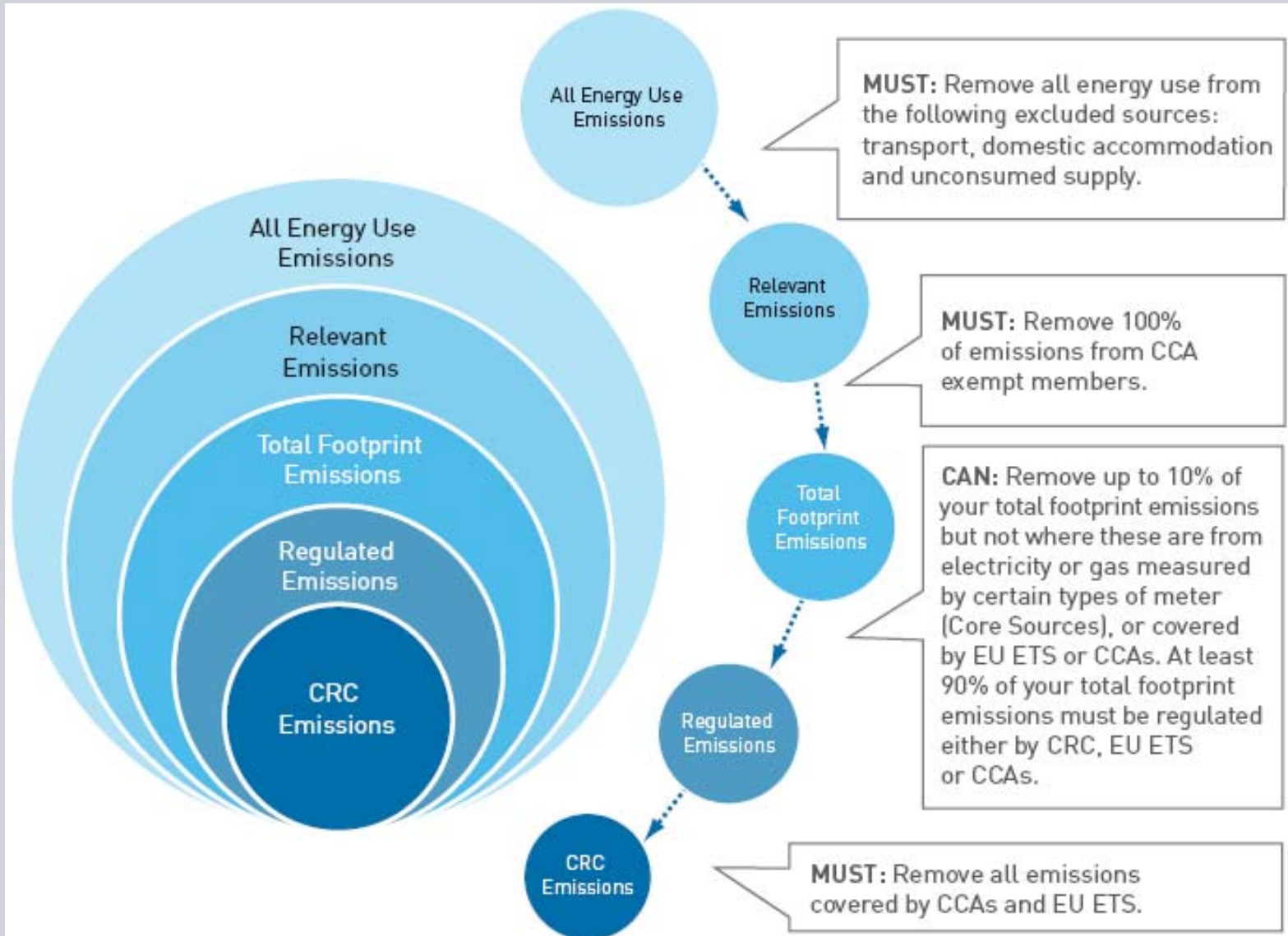
CRC Energy Efficiency Scheme user guide



CRC Cycle





Determining your CRC emissions




What is an organisation?

KEY

 Parent Company

 Subsidiaries

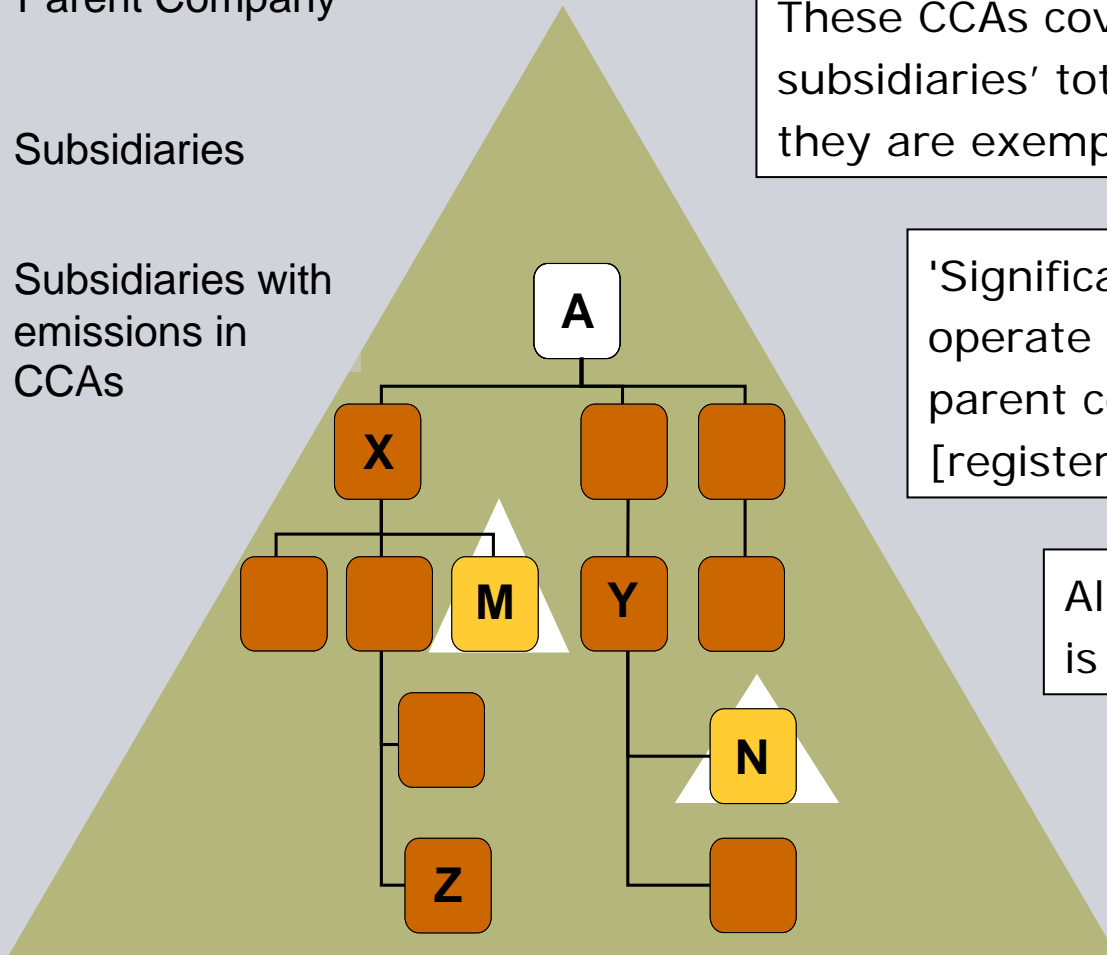
 Subsidiaries with emissions in CCAs

In this company structure, subsidiaries M & N have emissions covered by CCAs. These CCAs cover more than 25% of the subsidiaries' total emissions, therefore they are exempt from CRC.

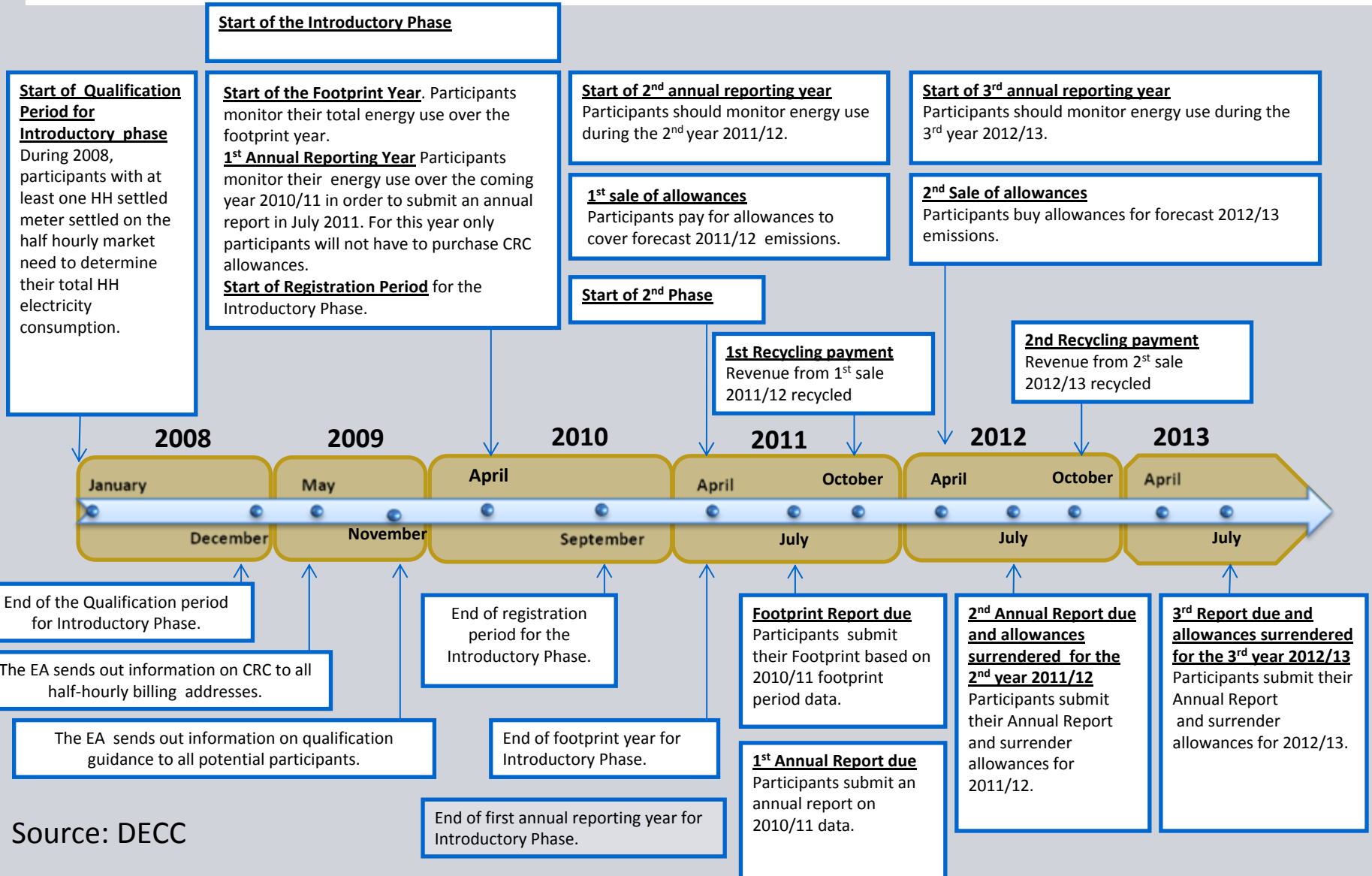
'Significant group undertaking' can operate in CRC separately to the parent company
[register by 30 June 2010!]

All Central Government is included

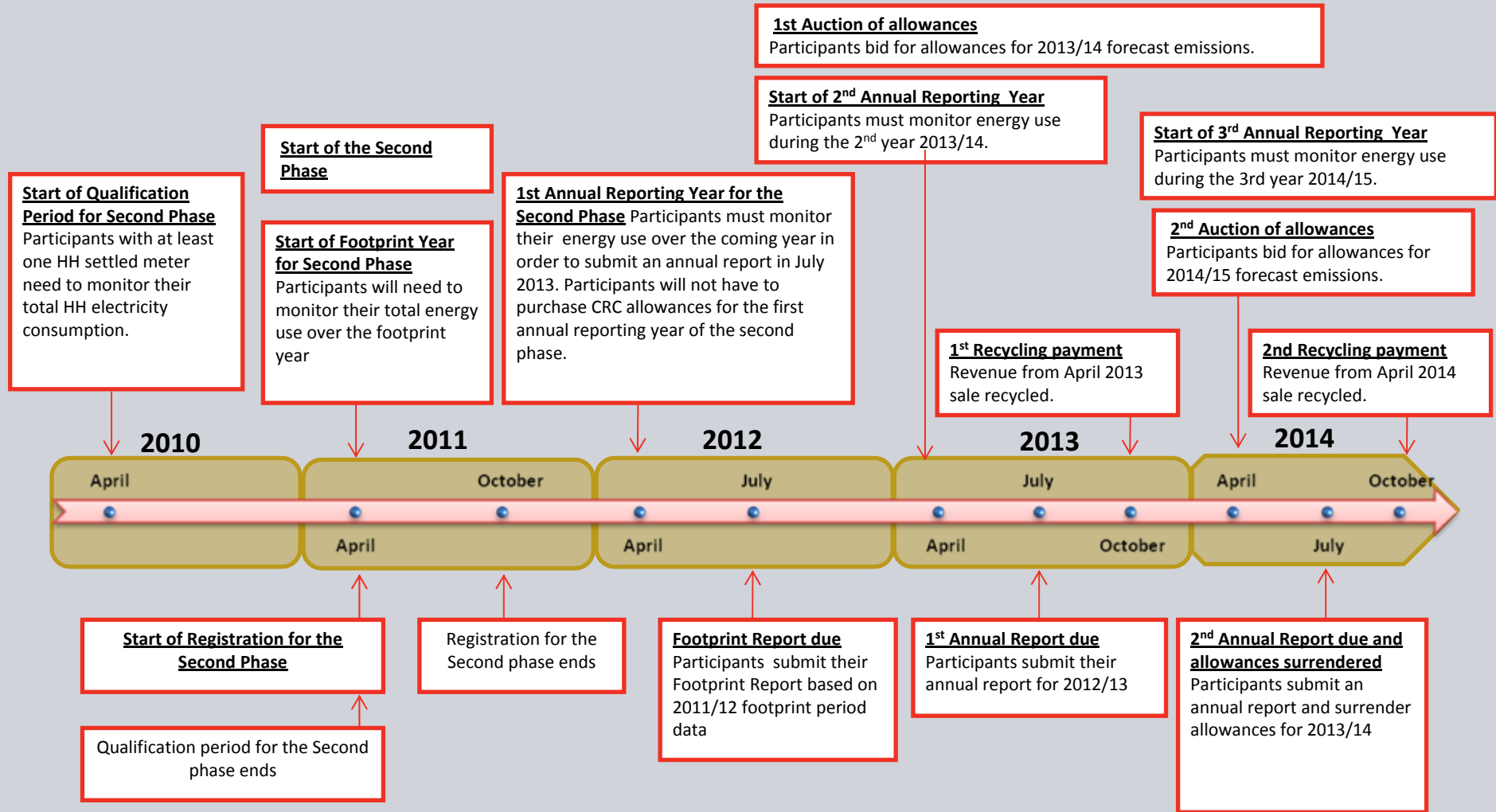
All state funded schools via LA



Timeline 1 – Introductory Phase



Timeline 2 – Second Phase





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Thank You

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