

# Carbon Footprints

## A UK Perspective



Carbon Footprint: “the total set of greenhouse gasses emissions caused by an organisation, event or product”

# Introduction

- Increasing environmental concern
- Greenhouse gases caused by an organisation
- Legislative requirements



# Objective

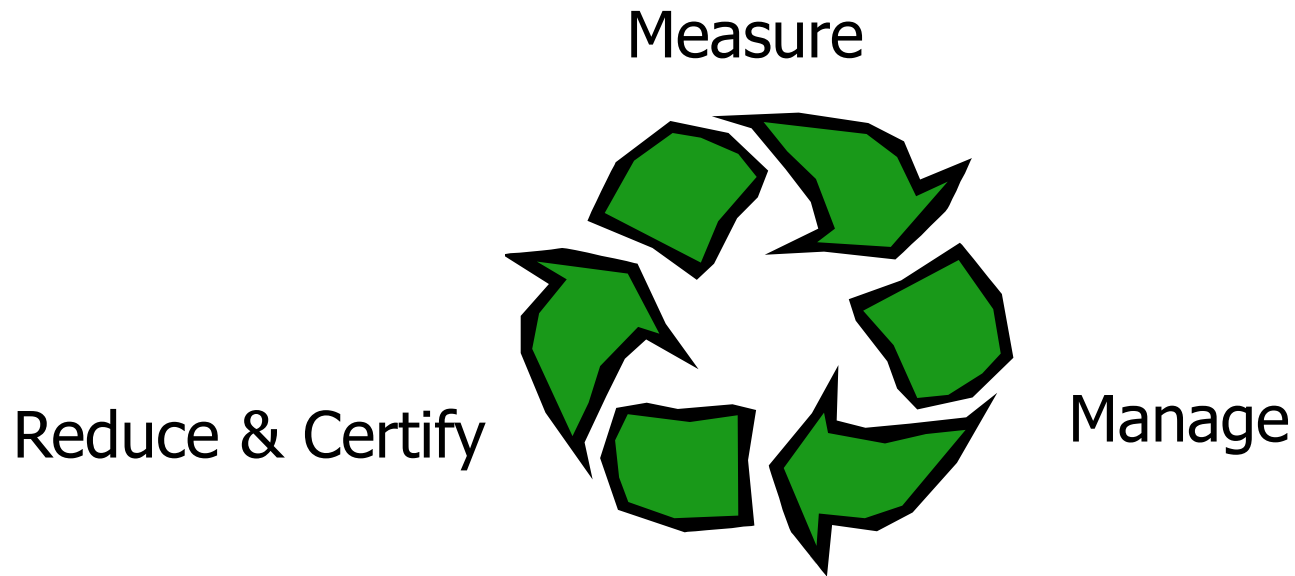
- Save money & the planet



# Carbon Reduction Commitment

- Part of Climate Change Act
- A mandatory cap & trade scheme
- Targeting large non-energy intensive private & public organisations

# CRC Methodology



# Greenhouse Gas Emissions

- Scope 1 – Direct eg manufacturing, company vehicles
- Scope 2 - Indirect Electricity & Heat
- Scope 3 – Indirect Other eg waste disposal; business travel

# Footprint Calculator

- Method definition – need consistency
- Include Scopes 1 & 2. Scope 3?
- Collate Data
- Convert Usage into CO2 equivalent
- Verify
- Report

# Conversion Tables

Energy Source		Kg CO <sub>2</sub> e
Electricity	kWh	0.544
Natural gas	kWh	0.184
Oil	kWh	0.266
Petrol	kWh	0.243
Diesel	kWh	0.253

- Grid electric the worst & Natural gas the best



# Timeline

September 2010 Registration

April 2011 First Auction

July 2011 First Footprint Report

October 2011 Payment recycling

April 2013 First capping phase starts

# How to Reduce Consumption?

- Behavioural Changes
- Process & Policy Changes
- Technological Changes



# Behavioural Changes

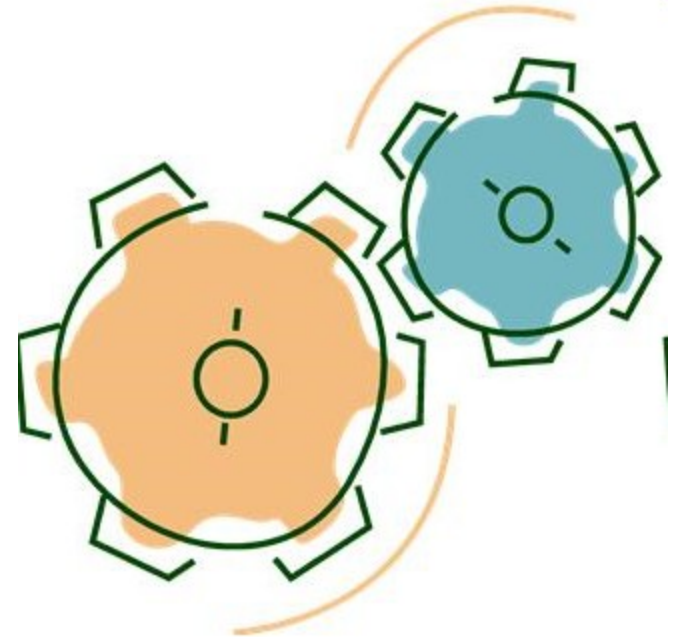
- Equipment Changes
- Heating & Cooling
- Travel
- Consumption
- Water

# Process & Policy Changes

- Sustainable procurement
- Company vehicle fleets
- Monitoring
- Policies
- Internal Change Management

# Technological Change

- Retrofit technology
- Lighting
- Boilers
- Voltage optimisation
- EMS
- Motors
- Smart Metering



# Other Issues

- PR
  - Ahead of or behind the curve?
- Financial Reporting