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Drivers for refrigeration change



Sustainable food chain

- **Environmental footprint**
- **Climate change**
- **Greenhouse gases**
- **Energy**
- **Carbon footprint/labelling**
- **Cost of resources**



Where do drivers come from ?

- **Retailers**
- **Manufacturers**
- **Consumers**
- **Government**



Target of 20% lower CO₂ by 2010

- **Food Industry Sustainability Strategy. Including manufacturing, retail and food service**
- **Food and Drink Federation five-fold ambition for manufacturers announced November 2007**



Regulations and incentives

- **Climate Change Bill: UK target 26-32% CO₂ reduction by 2020**
- **Climate Change Levy/agreements**
- **Carbon Reduction Commitment**
- **Carbon trading**
- **Enhanced Capital Allowances**



Why target refrigeration ?

- **Widely used**
- **High energy consumption**
- **Refrigerant leakage**
- **Potential for reduction**



Defra funded project

- **Mapping where biggest savings can be made**
- **Optimising efficiency of existing systems**
- **Maintenance of systems**
- **Modelling of systems**
- **New refrigeration technologies**



Defra funded project

- **Challenge to academe and industry**
- **Work together to identify short term and longer term solutions**
- **Build consortia that can tap into public funding for research**
- **Provide information and practical tools that industry will use**





Thank you for your attention