

Options and issues for emissions trading & road transport

Michael Hurwitz

Environment Policy and Delivery

Department for Transport

Outline



- The Government's transport 'package' on CO2
- Why road transport?
- Why emissions trading?
- What we've done so far
- Options and issues to consider
- Next steps

Department for **Transport**

Stern and CO₂ policy measures

RTFO

Emissions Trading



regulation)

Carbon pricing

(tax, trading,

Technology and innovation

New Car CO2 standards



LCTIS



Remove barriers to change

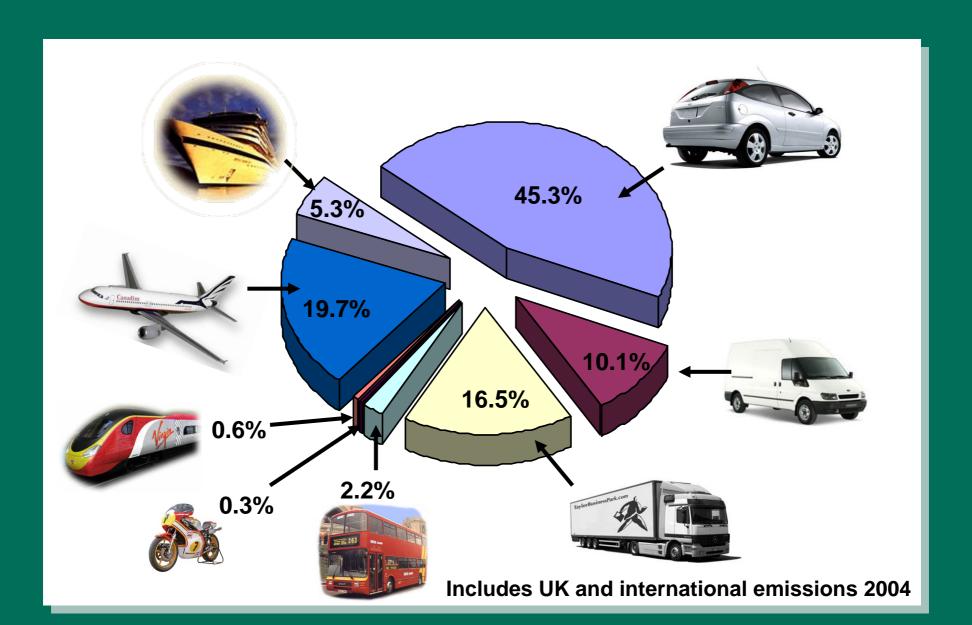
Smarter Choices



Consumer Awareness



Why road transport?



Why EU emissions trading?



- Strategic aim to introduce a price for carbon emissions
- Greater certainty that a specific target for CO₂ reductions will be achieved
- Focus CO₂ abatement on most cost-effective measures starts the process (or at least awareness) of making trade-offs
- Encourages compliance strategy, encouraging more top management interest and looking at more creative options
- Aims to provide long-term price signals for investments with long-term pay back
- Aims to incentivise long-term behavioural change
- EU ETS would facilitate multi-lateral action mitigating impacts on international competitiveness

Work to date



- Setting structure for analysis
- Working through the Commission: presented to European WG on EU ETS review. Road transport now to be included as part of their RIA
- The DEFRA / OCC review of EU ETS (comments by 11 May please)
- Our paper covers a sub-set of this on road transport
- It sets out options for who to regulate and issues to consider:
 - Fuel producers
 - Car manufacturers
 - Hauliers and individual motorists

Option 1: fuel producers

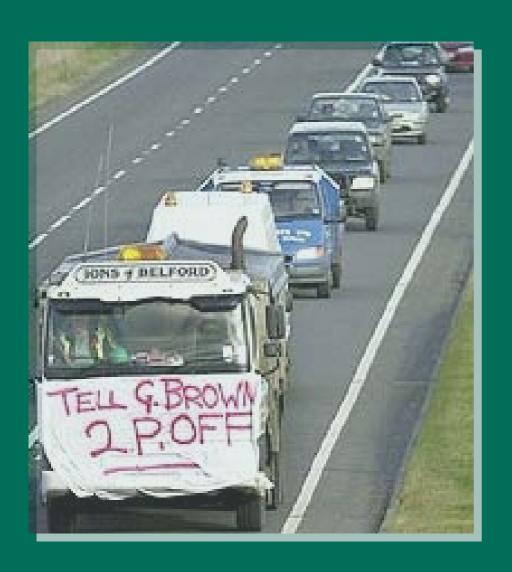




- Regulate at duty point (can't evade by importing from outside EU)
- Based on volume of fuel on which duty is paid, convert to CO₂ using standard conversion factors
- In UK would only need to regulate around 20 companies; 11 companies cover over 99% of fuel supplied
- Low administrative costs, many companies already in EUETS, can cope with price uncertainty

Option 1: issues





- Pricing impacts (fuel / electricity / EUAs)?
- Industrial competitiveness impact on EUA price?
- Changes to EU ETS directive?
- Interaction with biofuels policy?

Option 2: Car manufacturers





- Could be cap & trade or baseline & credit
- Either fully included in EU ETS or separate regulation on fuel efficiency with link to EU ETS
- Would need method for calculating CO2 emissions

g/km

No. of vehicles sold

Av annual mileage

Alt fuel?

Option 2: Issues





- Undermine integrity of EU ETS cap? actual emissions uncertain
- Cap & trade awkward allocation problem as linked to number of cars sold as well as CO₂ emissions of cars
- Benchmark & credit no allocation problem
- How would manufacturers respond? May not result in fuel efficiency improvements (CO₂ allowance price low)

Option 3: Motorists & hauliers





- Allocate EUAs to private motorists and hauliers
- Surrender allowances when buy road fuel
- Likely that fuel retailers would enter market – similar to fuel producers option
- Large number of regulated entities

Option 3: Issues





- Very large number of entities to regulate, each with small emissions. Administrative costs and transaction costs high in proportion of costs of implementation?
- Market would probably respond to sell allowances to consumers
 – works like a tax anyway
- Depend on development of personal carbon allowance system that is cost effective and acceptable to the public

Considerations in summary



- Practical feasibility, costs of compliance and administration?
- Impact on CO₂ allowance prices, electricity & fuel prices?
- Impact on energy-intensive sectors & UK competitiveness?
- Interaction with other CO₂ policy instruments?
- What are the abatement costs relevant to EU ETS Phase III?
- For different levels of under allocation, what would be the expected CO₂ allowance prices?
- How would these be reflected in electricity prices and fuel prices?

Next steps



- Feeding into the OCC / DEFRA review of EU ETS (comments by 11 May please)
- Making sure the Commission's RIA considers all relevant options
- Continue to develop our understanding of the different options
- Looking for opportunities for further engagement with stakeholders to help us feed into the review process – industry, NGOs and other member states