Developing the market for low carbon cars

Sustainable Energy in Irish Transport 23rd **November 2005**

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Low Carbon Vehicle Partnership

Accelerating a sustainable shift to low carbon vehicles and fuels in the UK

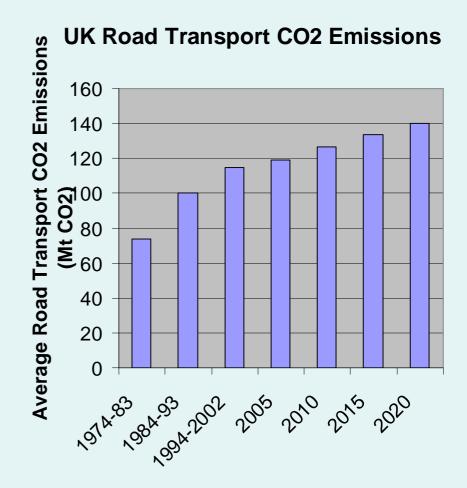
Stimulating opportunities for UK businesses





Scope

- The role of partnership in formulating policy
- The challenge of changing consumer attitudes
- UK Policies and progress
- Potential policy options for Eire





Environmental concerns are a low priority for most private car buyers

Top priorities

Price
Fuel consumption
Size/Practicality
Reliability
Comfort
Safety
Running costs

Style/Appearance

Car-buyer reported concerns

Some influence

Performance
Image
Brand
Insurance
Engine size
Equipment levels

Low priorities

Depreciation
Experience
Sales Package
Dealership
Environment
Vehicle Emissions
Road tax
Alternative fuel

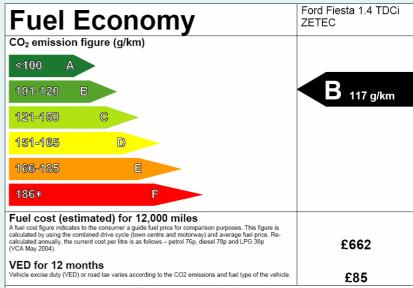
- ☐ mpg is <u>reported</u> as a key decision-making factor but little evidence
- ☐ Poor understanding and high tolerance of running costs
- ☐ Little knowledge of emissions and new technology
- ☐ Public concern about climate change but few understand the causes and less take personal responsibility



Consumer information improved

- Voluntary car industry initiative
 - brokered by LowCVP
- ☐ Combination of simple and statutory information:
 - Label shows CO2 emissions, estimated fuel costs and test cycle data
- Bands linked to UK Vehicle Excise Duty
- ☐ Labels presently in 75% of showrooms





Environmental Information

A guide on fuel economy and CO_2 emissions which contains data for all new passenger car models is available at any point of sale free of charge. In addition to the fuel efficiency of a car, driving behaviour as well as other non-technical factors play a role in determining a car's fuel consumption and CO_2 emissions. CO_2 is the main greenhouse gas responsible for global warming.

Make/Model Ford Fiesta 1.4 TDCi ZETEC Diesel		Engine capacity (cc): 1399 Transmission type: 5 speed manual		
Fuel Consumption:				
Drive cycle		Litres/100km		Мрд
Urban		5.4		52.3
Extra-urban		3.8		74.3
Combined		4.4		64.2

Carbon dioxide emissions (g/km): 117g/km

Important note: Some specifications of this make/model may have lower CO₂ emissions than this. Check with your dealer.









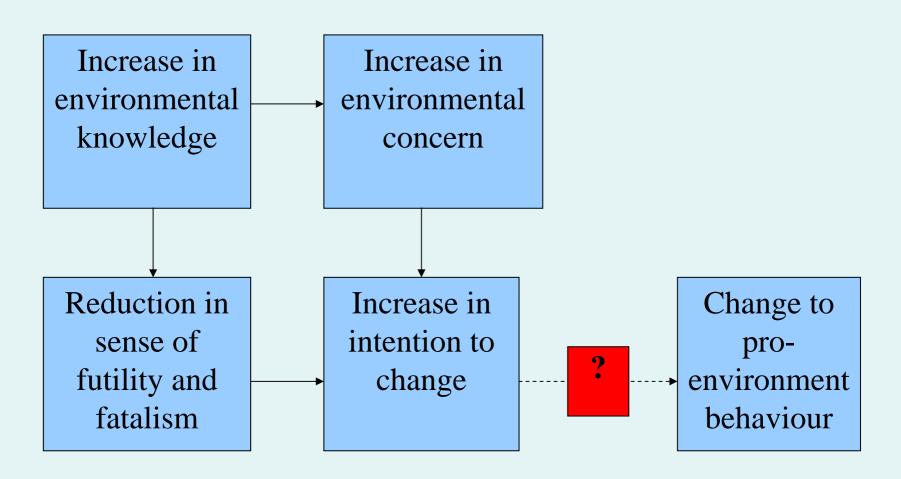
Some vehicle manufacturers and fuel companies are actively promoting low carbon options







Awareness raising will not alone bridge the attitude action gap and change consumer behaviour

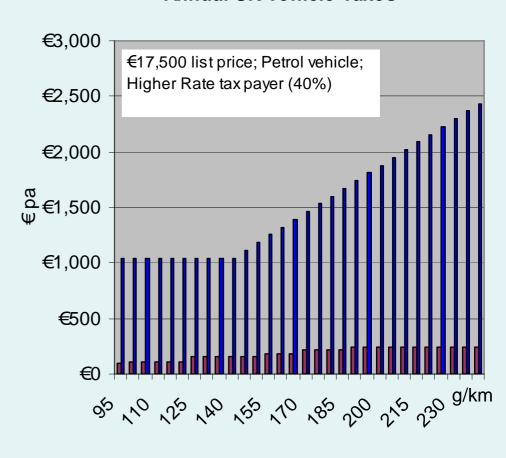


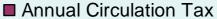


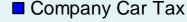
UK car taxes are linked to CO₂ emissions

- ☐ Company Car Tax strongly linked to tail-pipe CO₂
- □ Annual circulation taxes graduated in CO₂ bands
- No UK vehicle purchase taxes
- ☐ Purchase Grants for low carbon vehicles awaiting EU approval

Annual UK Vehicle Taxes

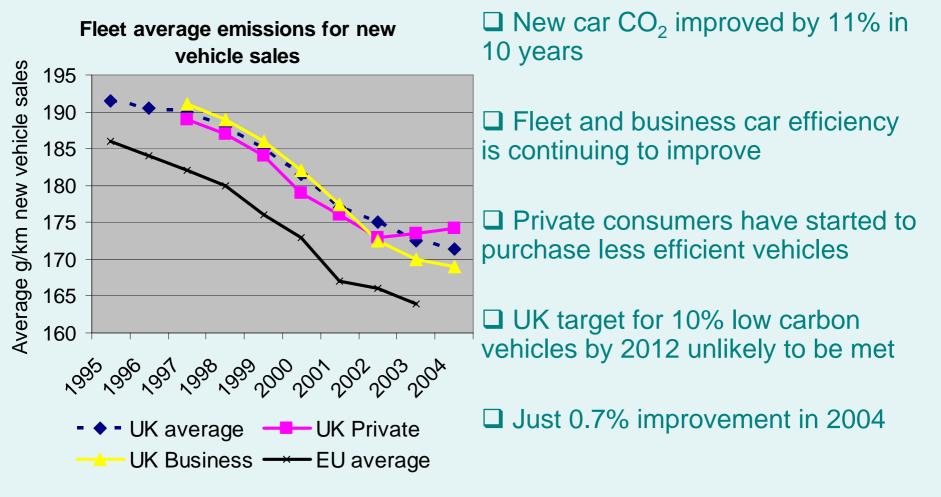






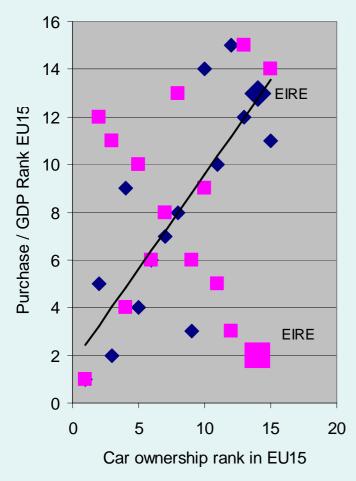


New cars are more efficient - but progress has stalled





Purchase taxes have a strong influence on car buying behaviour



◆ Purchase tax rank ■ GDP per capita rank



- ☐ Purchase taxes are strongly correlated with vehicle ownership
- ☐ Irish taxes correlated with engine size not CO₂ emissions
- □ Denmark and Netherlands have introduced purchase tax signals favouring small cars
- ☐ Increasing interest in revenue neutral "feebate schemes" tax reductions for low carbon vehicles funded by higher taxes for gas-guzzlers
- ☐ EC supporting the removal of purchase taxes for market to harmonisation

Congestion Charge discounts have stimulated the market for cleaner vehicles - other amenity benefits can also help

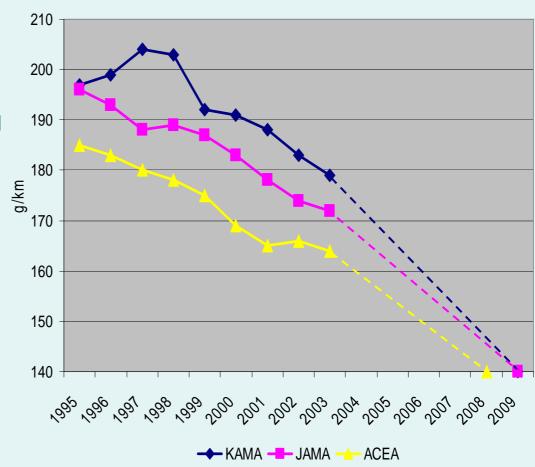
- □ London Congestion Charge achieved a 20% CO₂ emissions reduction
- ☐ Registrations of alternative fuel vehicles with C-Charge discounts in London doubled hybrids & LPG
- □ Proposed national road pricing may also influence CO₂
 - +5% to -8%





Voluntary Agreements and National Corporate Average Standards could encourage manufacturers to promote low carbon vehicles

- EU Voluntary Agreement designed to deliver 140g/km EU15 fleet average by 2008/9
- ☐ Agreement applies across EU15 – no national targets; and to industry associations – not individual manufacturers
- ☐ A system of tradable CO2 credits for vehicle manufacturers proposed for California
- Extension of the EU voluntary approach could be considered by individual member states

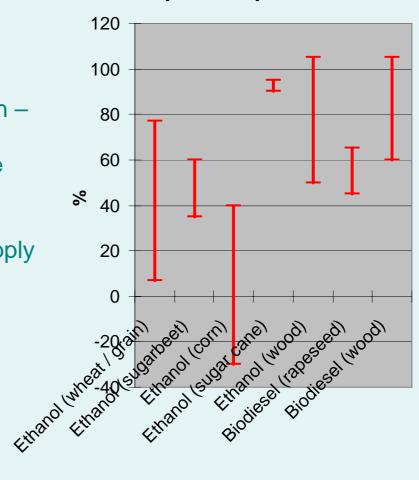




Duty differentials and a Renewable Transport Fuels Obligation will stimulate supply of biofuels

- ☐ UK duty differentials for alternative fuels 20p/l for biofuels
- ☐ UK Government to introduce a a Renewable Transport Fuels Obligation – 5% renewable fuels by 2010
 - Fuel suppliers obligated to provide renewable fuels or pay a buy-out
- ☐ Scheme will seek to encourage supply of fuels with larger greenhouse gas saving
- ☐ Sustainability assurance scheme being considered to address wider environmental and social criteria

% WTW GHG emissions compared to petrol or diesel





Strategies to promote sales of low carbon vehicles

- ☐ Improved information provision and educational campaigns
- ☐ Strengthening economic incentives and price signals
- ☐ Promoting the image and amenity value of low carbon vehicles
- ☐ Encouraging responsible advertising
- ☐ Targeting early adopter segments
- ☐ Corporate Average Fuel Economy Standards (CAFÉ)
- ☐ Tax incentives or obligations to support low carbon fuels
- Building effective partnerships



AEW1718-120 Photographs by Emily Whitfield-Wicks 16-08-04 Flash flood rips through Boscastle, Cornwall.



Thank you

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