The Society of Motor Manufacturers and Traders Limited

LowCVP Conference 10 February 2005



Tod Evans
President, SMMT

Introduction

Contents

- Progress towards low carbon cars
- Beyond technology the integrated approach toward low carbon road transport
- Developments in technology
- The fiscal and political environment
- Developments and direction

Towards lower carbon cars

The voluntary agreement with car manufacturing groups towards an average CO2 for new car sales of 140 g/km

ACEA
European manufacturers, 2008
JAMA
Japanese manufacturers, 2009
KAMA
Korean manufacturers, 2009

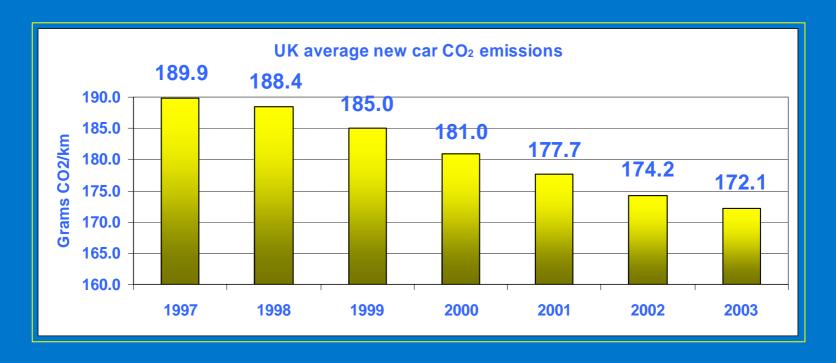






Discussions now taking place to follow up the voluntary agreement, post-2009

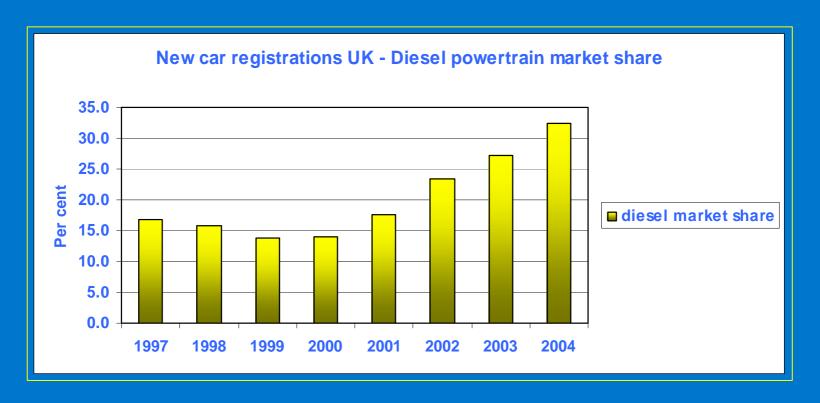
Progress since 1997



- 2003 on average CO₂ emissions 9.3 per cent lower than in 1997
- The annual rate of change has varied between
 0.7 and 2.2 per cent

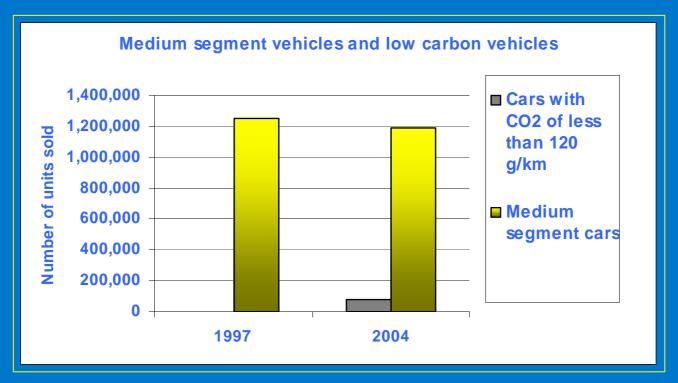
2004 developments

- Change in buying patterns
- Fewer private buyers more fleet
- Diesel penetration increases risen to 32.5 per cent



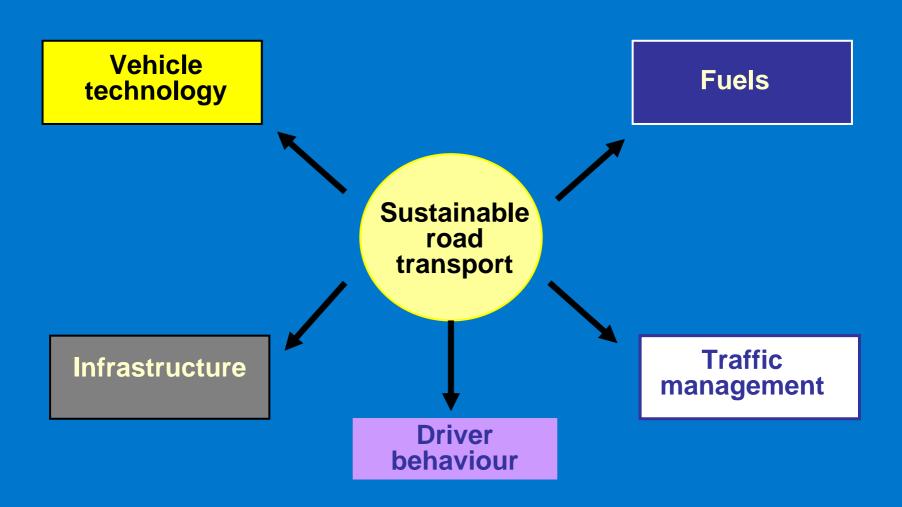
Low carbon cars

- Low carbon vehicles represent 3.1 per cent of the market place in 2004
- Medium segment cars 46.3 per cent



Is vehicle technology enough?

The integrated approach to CO2 reduction from road transport



Is vehicle technology enough?

The integrated approach to CO2 reduction from road transport

Choice of technology
Integration of technology
Use of technology

Low sulphur fuel
Biofuels
Alternative fuels

Road investment
Reducing 'pinch
points'

Traffic calming
Safer roads

Quality driver information

Real time traffic management

Intelligent transport systems

Developments to date

- Enhanced direct injection diesel technology
- Diesel technology across all vehicle segments
- Electric power steering
- Improved engine management systems
- Five and six speed gearboxes
- Fuel efficient auto and semiautomatics



Ongoing developments

- Stop-start engine development (engine shut-off in stationary position)
- Developments in hybrid technology
- Intelligent valve actuation
- Gearshift change indicator
- Development in double-clutch, semi-automatic and seven speed gearboxes
- Direct injection petrol engines
- Overall engine efficiency improvements



Advanced technology support

Foresight Vehicle Programme

 Supporting R&D projects that are central in the drive to cut CO2 and other harmful emissions from the vehicles of the future



 Led by project director Nick Barter, projects managed by a team of experienced engineers

Advanced technology support

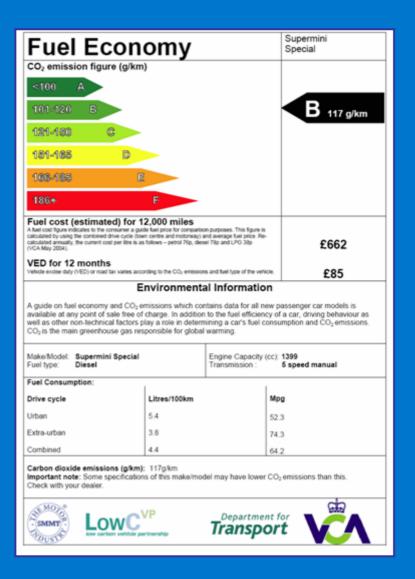
Foresight Vehicle Projects

- GASPART Prototype pollution control technology that traps and destroys nano-sized particulate emissions, thought to be contributors to cardiorespiratory disease
- 2/4 SIGHT Prototype engine designed to switch from two to four stroke operation automatically, improving performance and lowering CO2 emissions
- MIHPOW Hybrid heavy goods vehicle, offering zero pollution during urban delivery, as well as better fuel consumption and lower operating costs
- LIFEcar sports car with a hydrogen fuel cell engine

Fiscal and political support

- Fuel duty and zero sulphur fuel requires clarification for direct injection petrol engines
- TransportEnergy programmes confusion over forthcoming grant structure
- Company car tax removal of the three per cent diesel waiver for Euro IV and support for lower carbon vehicles
- Structured policy and longer time-frames for product planning

Providing information on CO2



Providing information on CO2

SMMT will provide:

- New booklet for consumers
- A forum for discussions with the Vehicle Certification Agency to extend colour coding on their web site
- Information and training for showroom sales staff



Looking forward

- Support European (15) voluntary agreements for 2008 (ACEA) and 2009 (JAMA and KAMA)
- Integrated approach can support a lower carbon vehicle future in addition to technological improvement
- Technology key to progress, but also need a shift in consumer buying habits
- Campaigns to inform the public will build through the colour-coded label
- Industry is committed to support the move to low carbon cars

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