

GREENER & CLEANER: IS THE UK MOTOR INDUSTRY FULLY INVESTED IN A LOW CARBON FUTURE?

KONSTANZE SCHARRING

10 May 2012

THE SOCIETY OF MOTOR MANUFACTURERS AND TRADERS LIMITED

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THE UK AUTOMOTIVE SECTOR

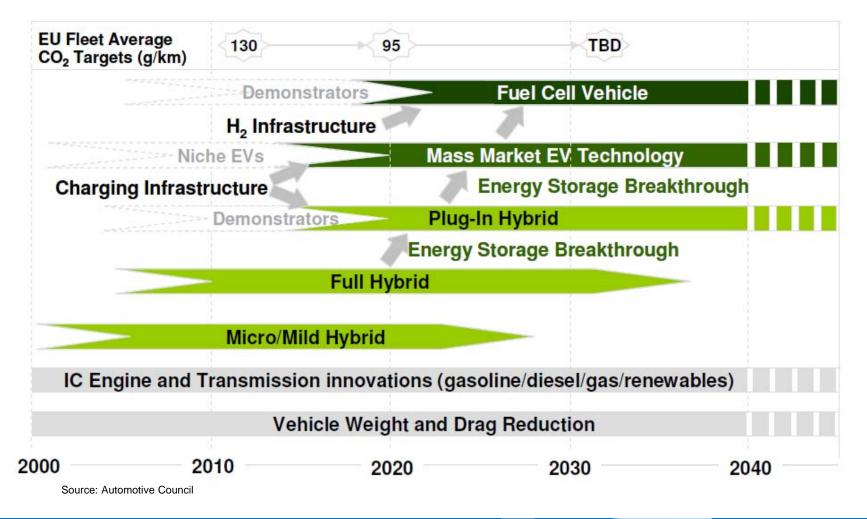
- UK automotive sector makes 1.5 million cars and commercial vehicles and over 2.5 million engines annually
- Automotive is vital to the UK economy
 - Around £50 billion turnover
 - £10 billion value added
 - Over 730,000 jobs dependent on automotive
 - More than 11% of total UK exports
 - Invests £1.3 billion each year R&D



 UK is home to 7 volume car manufacturers, 8 commercial vehicle, 11 bus & coach, over 100 niche, premium & specialist vehicle manufacturers and ca. 2350 component manufacturers

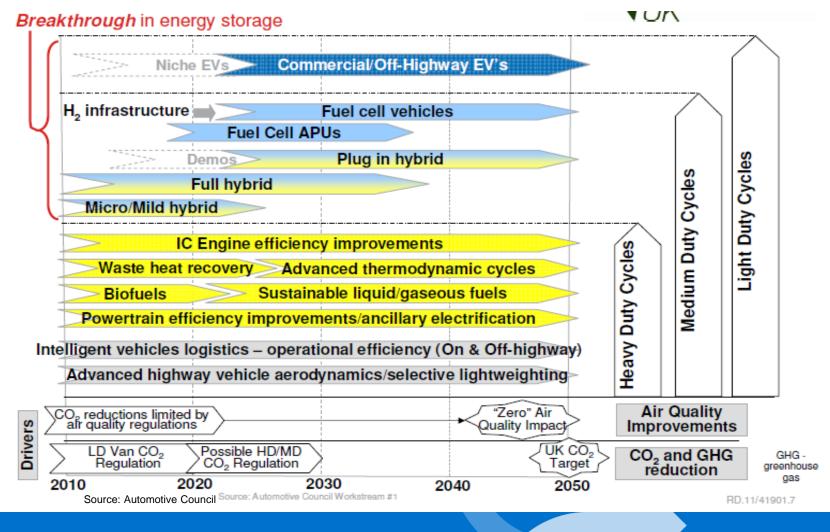
THE INDUSTRY TECHNOLOGY ROAD MAP

PORTFOLIO APPROACH - passenger cars



THE INDUSTRY TECHNOLOGY ROAD MAP

PORTFOLIO APPROACH – commercial and off-highway





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PAGE 5

INVESTMENT - INDUSTRY SEIZING THE OPPORTUNITY







 £100m Toyota investment to build its new hatchback at Burnaston

UK low carbon R&D and manufacturing

• £725m investments made to build new Nissan Leaf, Invitation & battery plant at Sunderland

2010 Ford announced £1.5bn investment in



- Commercial hydrogen station at Honda's South Marston plant, Swindon
 - BMW's £500m investment across facilities for new MINI Coupe and Mini Roadster

Full list available at: www.smmt.co.uk/investment

INVESTING NOW FOR A LOW CARBON FUTURE

£355 million low emissions engine plant, Wolverhampton



AGUAR £490 million investment for the hybrid C-X75, Solihull



Cygnet production to create 150 new jobs, Gaydon

£725m investment for LEAF, Invitation & battery plant, Sunderland

> Toyota creates first car plant solar array, Burnaston



NISSAN

MIRA £250m facility expansion, Nuneaton

Expansion of TATA European Technical Centre, Warwickshire



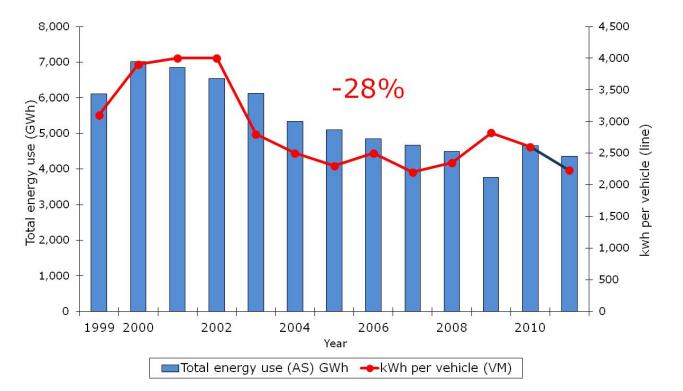
manufactured, Woking

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PAGE 7

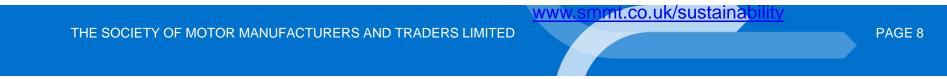
INDUSTRY SUSTAINABILITY REPORTING

Reduction in energy used per vehicle: 28% since 1999



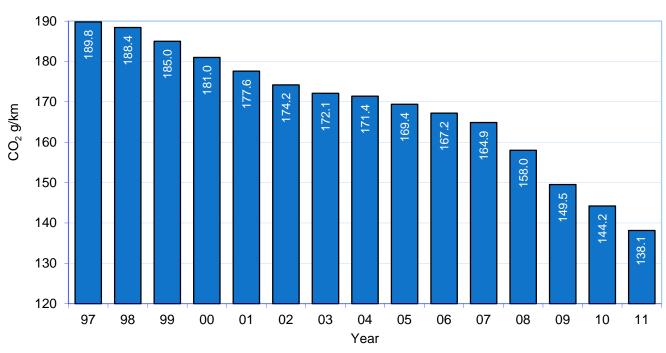
- CO₂ emissions -38%, water use -79%, waste to landfill 75%, VOCs -36%
- In 2011, 16,000 MWh of renewable energy produced on automotive sites enough to power 4,000 homes

Full report at:



SMMT NEW CAR CO₂ REPORT – APRIL 2012

- UK average new car CO₂ 138.1g/km in 2011
- 23 per cent improvement on 2000, 4.3 per cent on 2010
- Significant progress, but challenges ahead



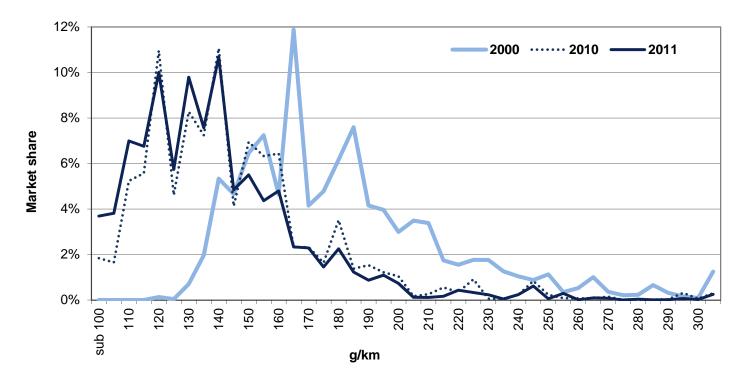
Average new car CO₂ – 1997-2011 (SMMT)

Full report available at: www.smmt.co.uk/CO2report

DISTRIBUTION OF THE NEW CAR MARKET BY CO₂

- Shift into lower CO₂ emitting vehicles.
- 46.8% of the market below 130g/km and 3.4% below 100g/km, compared with 0.9% and 0% in 2000.

New car market by CO₂ bands (SMMT)



CURRENT UK LOW CARBON VEHICLE MARKET

- Plug-in grant car registrations were 0.05% of 2011 market
- 1,276 total plug-in car grants issued by March 2012
- Significant annual percentage increases
- Still very early market in need of support

Vehicle Category	YTD April 2012	Full Year 2011
Total pure electric	430	1,082
Plug-in Car Grant eligible	488	1,052
Total petrol/electric hybrid	8,843	23,370
Alternatively fuelled vehicles	700	985

2012 ULTRA LOW CARBON VEHICLE MODELS

By 2013, 7/9 car segments will include a plug-in option

RENAULT ZOE

- Pure EV
- Battery leasing business model
- Late 2012 launch



3	Car segment	Current and 2012 plug-in models
	Mini	smart ed
	Supermini	Mitsubishi i-MiEV, Peugeot iOn, Citroen C-Zero, Renault Zoe
	Low-medium	Nissan Leaf, Ford Focus Electric, Toyota Prius plug-in hybrid
	High- medium	Vauxhall Ampera, Chevrolet Volt, Volvo V60 plug-in hybrid,
	Executive	Tesla Model S
	Luxury	Fisker Karma
	Specialist Sports	Tesla Roadster, Mercedes-Benz E- Cell

COMMERCIAL VEHICLES IN THE UK

- Commercial Vehicle Show 2012, 24-26 April showed the way
- Industry is investing across all commercial vehicle types to reduce regulated emissions & increase fuel efficiency through engine technology, alternative fuels, aerodynamics, telematics and driver training
- Logistics Task Force: £9.5m TSB Low Carbon Truck demonstration trial
- Plug-in Van grant up to £8,000



Transport Minister Mike Penning MP at the 2012 CV Show

LOW CARBON BUSES IN THE UK

- Green Bus Fund Round 3 March 2012: continued success
- 439 new low carbon buses hybrid, electric, gas
- Alexander Dennis Limited, MAN, Optare, Volvo and Wrightbus partnering with 26 bus operators across the UK
- Majority manufactured in the UK
- Already 588 hybrids in UK
- Fact:

UK largest market in EU for hybrids in public transport



UK H2 MOBILITY

- Companies and government have come together to form a consortium to investigate hydrogen fuel cell technology
- UK H2 Mobility will develop an action plan for an anticipated rollout to consumers in 2014/15





CONCLUSIONS

- Low carbon vehicle agenda is an industrial agenda
- Industry commits over £4bn investment in UK & strategic technologies and brings latest low carbon models to UK market
- Significant improvements in conventional technology/ICE & early market for ultra low carbon vehicle market is developing but needs continued support
- Post-2020 delivery of ultra low carbon mobility depends increasingly also on other players:
 - Government: strategy, fuels/energy roadmap & support
 - Electricity providers & network operators: investment
 - Operators/fleets/customers: adoption & behavioural change



THANK YOU

Society of Motor Manufacturers and Traders Limited 71 Great Peter Street, London SW1P 2BN www.smmt.co.uk