

10 November 2011 Workshop - Brussels

European Commission

DG Climate Change

Preparing a strategy for reducing HDV fuel consumption and CO₂ emissions



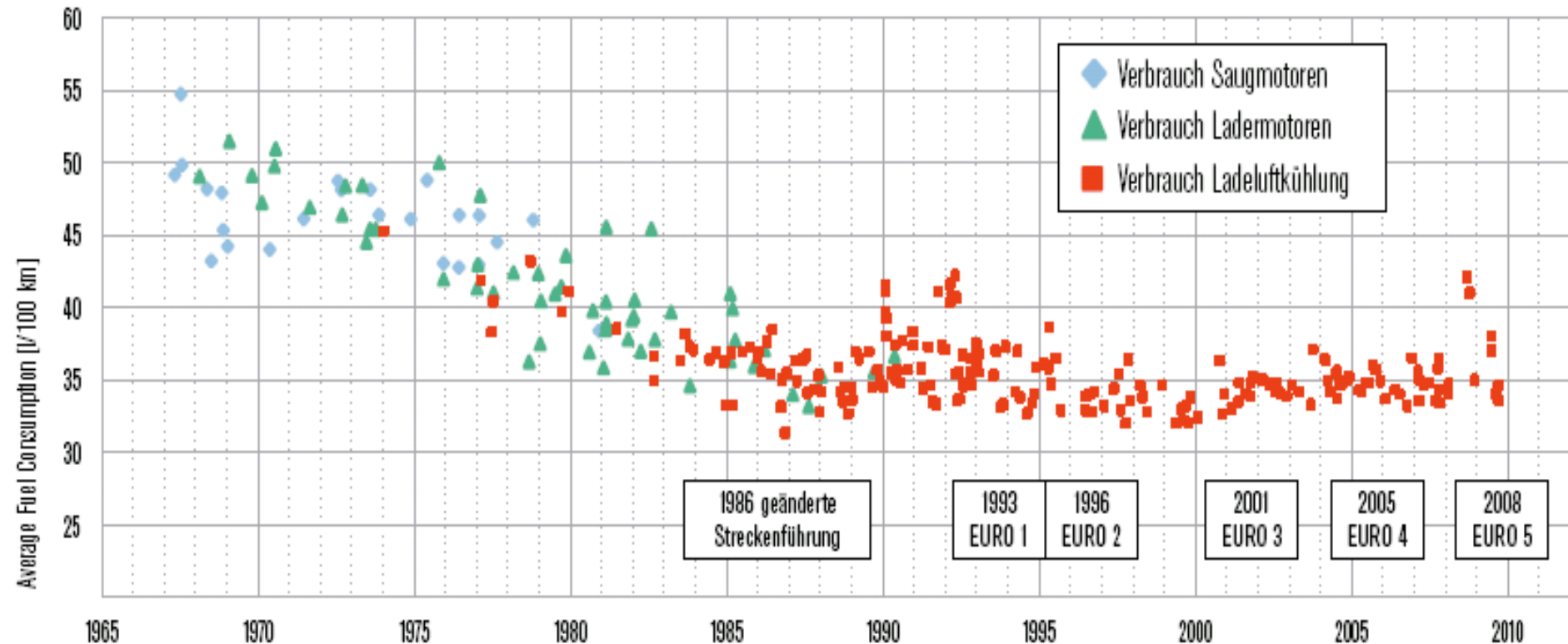
Reducing HDV fuel consumption and CO₂ emissions in the EU Policy context

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- Roadmap for low carbon economy in 2050 : EU to reduce GHG emissions by – 80% to 95% by 2050 (Base 1990)
- Transport sector foreseen to reduce emissions between -54 and -67% by 2050
- White Paper on Transport – assumes 60% reduction in GHG emissions by 2050 (Base 1990); 20% by 2030 (Base 2008, still 20% above the 1990 level).

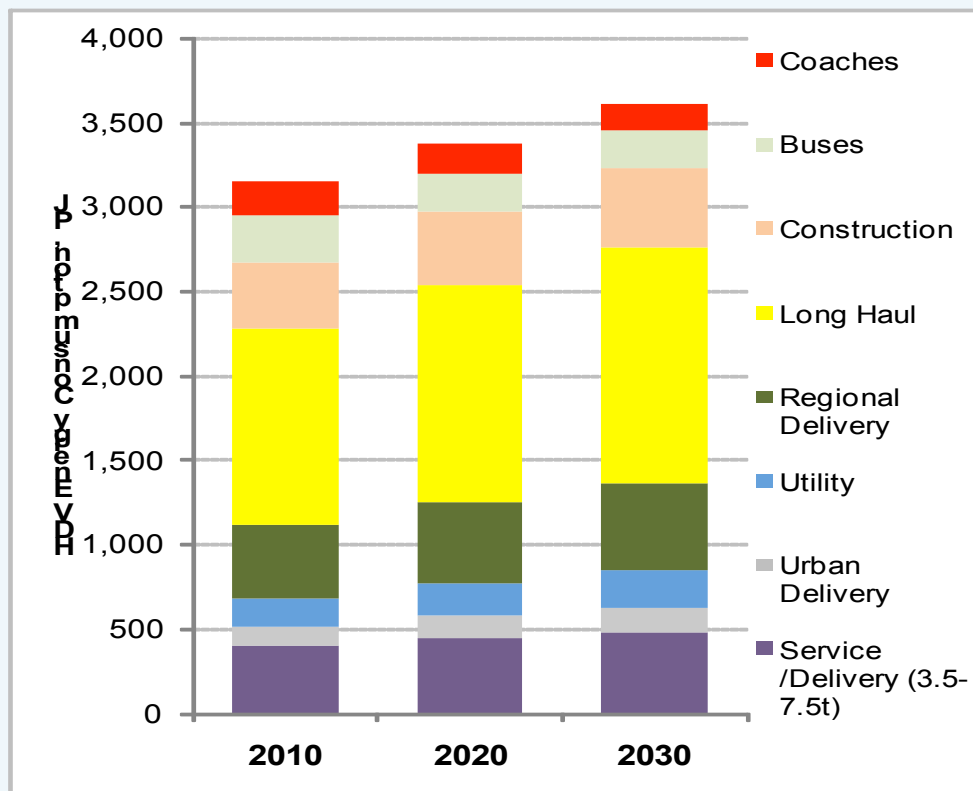
Truck fuel efficiency.... ...did not improve recently

Average Fuel Consumption (Gross Vehicle Weight 38/40 t)



HDV CO₂ emissions on the rise EU

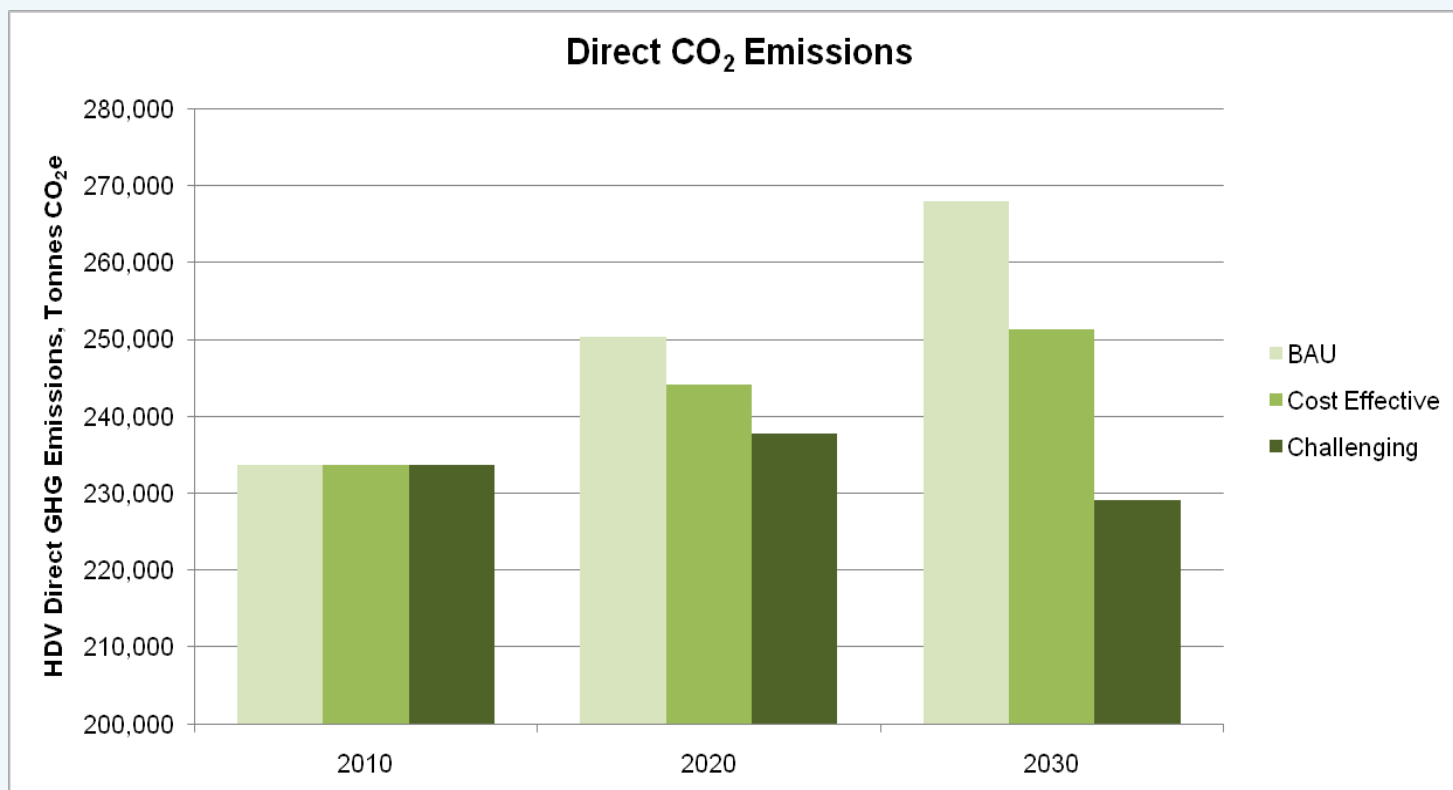
B-A-U scenario



Source: AEA/Ricardo « Lot 1 » report

http://ec.europa.eu/clima/policies/transport/vehicles/docs/ec_hdv_ghg_strategy_en.pdf

HDV CO₂ emissions trends in EU



Source: AEA/Ricardo « Lot 1 » report

http://ec.europa.eu/clima/policies/transport/vehicles/docs/ec_hdv_ghg_strategy_en.pdf



Regulatory situation in EU

- Road transport emissions not included in EU Emission Trading Scheme (ETS)
- Existing regulations setting targets for :
 - Cars (Reg. 443/2009) and
 - Vans (Reg. 510/2011).
- Currently no legislation setting targets for HDV CO₂ emissions



A number of existing & proposed EU legislation and programmes already expected to contribute lowering HDV CO₂ emissions, e.g.:

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- “Clean vehicles” Directive 2009/33 on procurement of public authorities’ HDVs
- EU funded R&D programme « Green car initiative » covering HDVs
- Low Carbon Fuel Standard – Directive 2009/30 (setting 6% life cycle GHG reduction requirement by 2020).
- Improved logistics and fleet management: ITS directive (2010/40/EU)
- Proposed Revised Energy Taxation Directive COM(2011)168/3 with new minimum tax rates.
- Recent Eurovignette Directive revision
- Tyre labelling and rolling resistance legislation



Measuring HDV CO₂ emissions: a bottleneck and a priority

Current ongoing work on a modelling tool

- Approaches explored :
 - i. model simulation
 - ii. measurement on chassis dynamometer
 - iii. measurement with PEMS

- Methodology considers:
engine, driving resistances of whole vehicle, gearbox,
most relevant auxiliaries

- Preferred option:
model simulation with post-verification of model
parameters via measurement



Possible new policy actions aiming at reducing HDV CO₂ emissions

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- CO₂ Measurement + reporting tool
- HDV Labelling
- Establishment of emission reduction objectives
- Economic instruments
- Design/ performance requirements for components
- Measures targeted at HDV purchase and use

Timeline HDV CO₂ emissions strategy

- Current on-line public consultation :
http://ec.europa.eu/clima/consultations/0012/index_en.htm
(questionnaire, deadline 9 Dec 2011)
- Stakeholders' meetings foreseen in Q1- and Q2-2012
- Ongoing Impact Assessment to be concluded by end 2012
- HDV CO₂ emissions Strategy adoption by Commission : first half of 2013 (tentatively)

Thank you

