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Directorate-General Environment



EU Transport GHG: Routes to 2050?

Session 3 – Review of policy instruments

1st Stakeholder Event
Friday 27th March 2009, Brussels

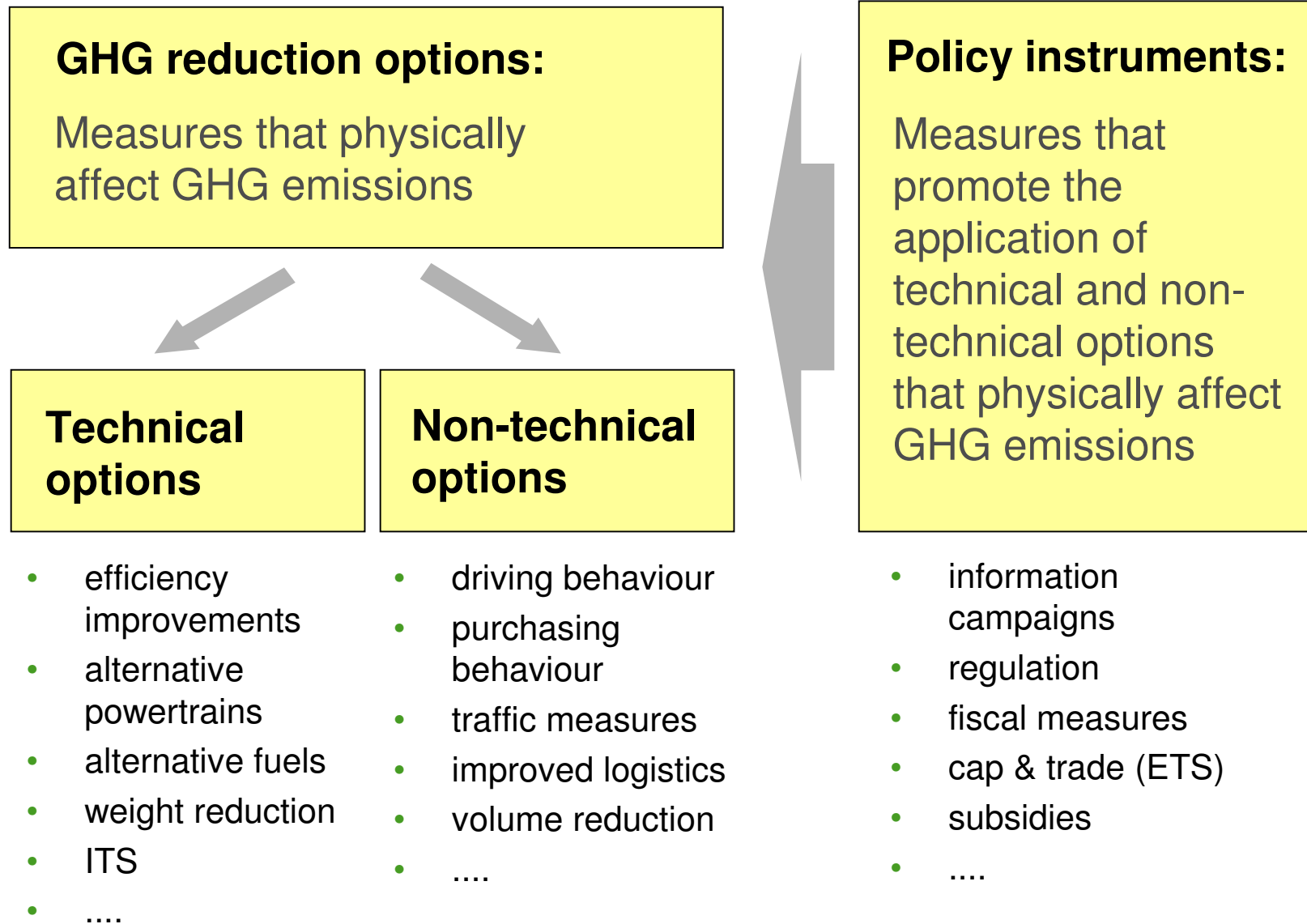
www.eustransportghg2050.eu



Purpose of the review

- element of part I of the project
 - February – August 2009
- overview of available information on policy instruments
 - results of studies
 - incl. underlying assumptions
- establish consensus on state-of-the-art insight
- identification of knowledge gaps
- focus on longer term
 - move beyond the current debate
- provide **quantitative** & **qualitative** inputs for to the development of proposals for future policy frameworks

Review of GHG reduction measures



Review of information on policy instruments

- Review of available information to create state-of-the-art overview of of GHG reduction policy instruments
- Data / information sources
 - literature
 - stakeholder & expert input
 - expert knowledge / judgement of consortium and own calculations
- Create fact sheets
 - fixed format with headings for various aspects
- Summarize & analyse results in overview papers

Overview of policy instruments

- Regulation (e.g. vehicles, fuels)
- Fiscal measures (e.g. fuel taxes)
- Emission trading
- Differentiation of existing charges
- New charges (e.g. road charges)
- Subsidies
- Information and education
- Public procurement policy
- Innovation programmes and demonstrations
- Voluntary agreements
- Infrastructure policy
- Spatial and urban planning

Aspects reviewed for policy instruments

- type of policy instrument
- point of application
 - volume reduction / efficiency of transport operation / modal shift / CO₂ intensity of fuels / clean and efficient propulsion technologies
- description
- application area
- mechanisms of physical impacts
- timeframe for application
- legal aspects
- total GHG abatement potential
- cost-effectiveness
- economic assessment of measures (welfare-economic perspective)
- barriers for policy introduction
- interaction with other policy instruments
- uncertainties and main open issues
- other relevant information

Policy instruments → physical changes

- How to create a market for **low-carbon technology**?
 - How to avoid lock-in and how to take barriers like high investments
 - Existing good practices
- How to promote **structural changes**?
 - What instruments?
- Need for **limit transport growth**?
 - Needed?
 - Economic impacts (welfare)
 - Decoupling
 - What instruments
 - Relatively high price incentives needed
 - Spatial changes require many decades

Macro-economic analysis

- Translation of cost curves for physical measures to a full CBA of policy measures
- How to assess all welfare impacts of various policy measures:
 - Direct costs
 - CO2 reduction
 - Reduction of fuel costs
 - Co-benefits (congestion, air pollution)
 - Rebound effects
 - Welfare impacts of volume effects, loss of consumer surplus, structural changes, modal shift, vehicle down-sizing?
 - Wider economic impacts (labour market, global trade, etc.)
- GDP effects vs welfare effects
- What is required for decoupling:
 - CO2 growth from transport growth
 - transport growth from GDP/welfare growth

Other challenges

- Interaction between sectors and economies
 - Transport policy vs GHG policy in other sectors
 - EU policy irt global policy
- Coherent long term policy framework
 - Generic vs specific policy instruments
 - Synergy between pricing, regulation, spatial planning, etc.

Information needs

- Additional information on policy instruments:
 - recent studies
 - expert information
- Stakeholder visions:
 - Acceptance and barriers
 - What policy and incentives do stakeholders need to innovate?
 - Competitive European economy and GHG reduction: synergy or incompatible?