

# **Climate Policies and the Transport Sector**

Analysis of Policy Instruments, their Interactions, Barriers and Constraints, and Resulting Effects on Consumer Behaviour

#### **Publication**

Report

#### Citation

Máca, VojtÄ□ch et al. 2013: Climate Policies and the Transport Sector. Analysis of Policy Instruments, their Interactions, Barriers and Constraints, and Resulting Effects on Consumer Behaviour.

As part of the project CECILIA2050, which examines policy options to improve European climate policies, this report specifically analyzes greenhouse gases reduction potential in the transport sector. After giving an overview of policy instruments in this sector, the authors review transport elasticities and highlight limits to carbon pricing in the road transport sector.

The report is available for download.

#### Language

English

### **Authorship**

Andrew Eberle Adam Pearson Monica Ridgway Benjamin Görlach VojtÄ∏ch Máca Markéta Braun Kohlová Jan Novák Milan Å Ä∏asný

### **Funding**

European Commission, <u>Directorate-General Research & Innovation</u> (DG Research & Innovation), International

### Year

#### **Dimension**

151 pp.

### **Project**

Combining Policy Instruments to Achieve Europe's 2050 Climate Targets (CECILIA2050)

### **Project ID**

2715

### **Table of contents**

### **Executive Summary**

- 1. Policy Instruments in the EU transport sector an overview
- 1.1 Interactions and policy mixes
- 1.2 Road transport
- 1.3 Non-road modes
- 1.4 Effectiveness of instruments
- 1.5 Cost-effectiveness
- 1.6 Concluding notes
- 2. American vehicle emission regulation schemes
- 2.1 Recent developments
- 2.2 Policy assessment
- 3. Review of transport elasticity
- 3.1 Transport demand and elasticity
- 3.2 Patterns in the observed elasticity values
- 3.3 Selected individual elasticities
- 3.4 Specific estimates and modelling process
- 3.5 Trends in price and income elasticities
- 4. Limits to carbon pricing in the road transport sector: barriers, constraints, and pathdepndencies
- 4.1 Fuel tourism
- 4.2 Company car tax policies
- 4.3 Second hand car markets
- 4.4 Conclusions
- 5. Soft transportation policy measures
- 5.1 Mobility management / Soft transport policy measure the definition
- 5.2 Are soft policy measures effective? The evidence
- 5.3 Long-term effects
- 5.4 The effects of individual policy design
- 5.5 Known biases and limitations in the empirical evidence gathered
- 5.6 What is needed: agenda for future research
- 5.7 Prospective theory of behavioural change major requirement for applicable knowledge
- 5.8 Summary of policy relevant findings elevator
- 6. Total cost of ownership of electric vehicles under various incentives
- 6.1 Introduction
- 6.2 Methodology
- 6.3 Results

- 6.4 Discussion
- 6.5 Conclusion
- 6.6 Appendix
- 7. Valuation of individual preferences for low-carbon passenger vehicles a review
- 7.1 Introduction
- 7.2 Review of European valuation studies
- 7.3 Willingness to pay for vehicle attribute
- 7.4 Conclusions
- 8. References

## Keywords

<u>Climate</u> <u>Mobility</u>

CECILIA2050, climate policy, carbon pricing, private transport, greenhouse gas reduction, emissions, taxes, air pollution, climate change EU, European Union

**Source URL:** https://www.ecologic.eu/11264