



Environment Center
Charles University
in Prague



IEEP



Ministry of the Environment
of the Czech Republic

Conference on Assessing The Impacts Of Environmental Regulation By Macroeconomic Models

**Focused on assessment of economic and
environmental impact involved by environmental tax
reform in the Czech Republic**

Charles University Prague, 23-24 November 2009

MODEDR Project

Modelling of Environmental Tax Reform Impacts: Second Phase of the ETR

- Funded by the Czech Ministry of the Environment during Nov 2007 to Dec 2010
- Research team
 - ✓ Charles University Prague, Environment Center
 - ✓ University of Economics Prague, Institute of Environmental and Economic Policy
 - ✓ Metroeconomica, UK
 - ✓ Cambridge Econometrics, UK
- Project objectives
 - ✓ to evaluate current regulation in AQ and climate change policy and provide suggestions on revision of instrument
 - ✓ to develop and apply models to predict impacts of regulation

MODEDR

Its models and quantitative approaches

AC/CC – ex ante and ex post quantification of administration and transaction costs [*ieep*]

DASMOD – a micro-simulation model to predict effects on distribution and equity [*Charles*]

CGE – computable general equilibrium model of Czech economy [*Metroeconomica with Charles*]

E3ME – macro-econometric model of Czech economy linked with the EU [*Cambridge Econometrics with Charles & ieep*]

MESSAGE – PE optimization model of energy sector [*Charles*]

ExternE – quantification of the external costs of airborne pollution and climate change impacts incl. a review on MAC [*Charles*]

Conference objectives, but not only...

to present quantitative approaches to assess the effects due to environmental regulation

- specifically, focus on **macroeconomic models** that are recently under development and/or have been used to assess economic and environmental impacts due to **air quality regulation** and **climate change mitigation** for the Czech Republic

to assess the impacts possibly involved –just recently discussed– intervention in the Czech Republic → environmental tax reform

to **learn** about advantages and limitations of presented models and draw suggestion for **further model demands**

Conference keynote speakers and round-table panelists

Thomas Sterner, University of Gothenburg, Sweden; President of the EAERE Association

Denise Van Regemorter, Catholic University of Louvain, Belgium; IPTS, EU JRC, Seville

Markus Blesl, Universität Stuttgart, Institute of Energy Economics and Rational Use of Energy

Olga Kiulia, Metroeconomica; ETH Zürich, Swiss Federal Institute of Technology

Anil Markandya, Metroeconomica; University of Bath, UK; Basque Centre for Climate Change Bilbao, Spain

Chair: Bedřich Moldan, CUEC and Senate of the Czech Parliament

Anil Markandya

Thomas Sterner

Martin Bursík, Czech Green Party

Tomáš Khorel, Ministry of Industry and Trade, Deputy Minister Advisor

Aleš Kuták, Deputy Minister, Czech Ministry of the Environment

Jan Mládek, Czech Social Democratic Party

Day 1 – Monday, 23rd November 2009

I. Introduction on Regulatory Framework (9:00-12:40)

Opening Welcome (*Bedřich Moldan & Milan Ščasný*)

Policy Context: Proposals on Environmental Tax Reform, Energy and Emission Taxation in the Czech Republic (*Petr Holub*)

Importance of modelling in environmental policy and decision-making (*Anil Markandya*)

Efficient Environmental Regulation And Its Impacts (*Thomas Sterner*)

Economic Rationale for Regulation: Environmental Externalities, Abatement Costs And MBI (*Vojtěch Máca, Jan Melichar, Milan Ščasný*)

II. Assessing the Impacts at Macro Level (13:40-16:00)

Modelling Impacts of Energy And Environmental Policies for the EU and the Czech Republic by CGE GEM-E3 Model (*Denise van Regemorter*)

Economic and Environmental Impacts Assessed by CGE Model (*Olga Kiulia*) and by Macroeconometric Model E3ME for the Czech Republic (*Milan Ščasný & Vítězslav Piša*)

Round-Table Discussion (16:00-17:15)

Dinner and Wine Tasting in MONARCH Winery (18:00 on)

Monarch Wine bar, Na Perštýně 15

Na Perštýně 15, Praha - Mapy.cz - Windows Internet Explorer

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Na Perštýně 15, Praha - Mapy.cz

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Na Perštýně 15, Praha
Zadejte ulici, město, adresu nebo firmu. Příklad: Nápoáve

Základní Turistická Fotomapa Další mapy

Stínování Fotografie Doprava Počasí

Vyhledávání Plánovač trasy

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Day 2 – Monday, 24th November 2009

III. Partial Equilibrium And Input-Output Analysis Modelling (9:00-12:30)

Assessing the Impacts by Pan-European TIMES Model (*Markus Blesl*)

Energy Supply-Side Optimisation Model MESSAGE (*Jiří Balajka; Lukáš Rečka*)

EFOM/ENV - Energy Flow Optimisation Model for the Czech Republic (*Jiří Spitz*)

Sectoral And Overall Economic Effects of CO₂ Allowance Auction in the CZE (*Lubomír Lízal*)

Linking Input-Output Model With Material Flow Analysis (*Jan Weinzettel, Jan Kovanda*)

IV. Macro Structural Models developed in MODEDR (13:30-16:30)

Development of CGE Model of the Czech Economy (*Olga Kinlia*)

Ancillary Effects of Carbon Taxation: Czech Application of E3ME Model (*Vítězslav Píša, Milan Ščasný*)

V. Final Discussion

Enjoy these two days

Contact:

Milan Ščasný

Tel.: +420 222 199 477

Fax: +420 222 199 462

milan.scasny@czp.cuni.cz

<http://www.czp.cuni.cz>