

Science/policy workshop

“Intermediate Climate Policies - The contribution of air-pollution policies in relation to climate stabilisation and co-control “

Gothenburg, 19-21 October 2009

WG 4

Sector control policies: energy, transport, agriculture, consumer behaviour

Coordinators:

Simone Schucht, Mark Barrett, Peter Meulepas

WG 4 participants

- Andrei Pilipchuk, Ministry of the Environmental Protection
- Birgit Nielsen, The County Administrative Board of Västra Götaland
- Carole Ory, EURELEC TRIC/EDF/France
- Catherine Witherspoon, Climate Works/USA
- Christer Agren, AirClim/Sweden
- Dorothee Saar, Deutsche Umwelthilfe e.V./Germany
- Gaston Theis, Federal Office of the Environment/Switzerland
- Harald Perby, Ministry of Environment/Sweden
- Harry Vallack, Stockholm Environment Institute
- Hélène Lavray, EURELECTRIC
- Jenny Arnell, IVL/Sweden
- José Martinez, CEMAGREF/France
- Luke Redmond, AP EnvEcon/Ireland
- Manfred Ritter, UBA/Austria
- Maria Lindblad, IVL/Sweden
- **Mark Barrett, UCL/UK**
- Nadine Allemand, CITEPA/France
- Pieter Hammingh, PBL/NL
- Rafael Borge, UPM/Spain
- Sarah Honour, DEFRA/UK
- Seppo Sarkkinen, Ministry of the Environment
- **Simone Schucht, INERIS/France**
- Sustyo Priyojati, Chalmers University of Technology/Sweden

Presentations

- Introduction on Working Group 4: Sector control policies - energy, transport, agriculture, consumer behaviour (Simone Schucht, INERIS/France)
- Results of research in NL on bio-fuels for transport, biomass for stationary sources, CCS for the power sector and industry, and small scale CHP (Pieter Hammingh, PBL/NL)
- Integrated implementation of air pollution and climate change policies: perspective of the power sector (Hélène Lavray, EURELECTRIC)
- The effects of specific measures in the transport area on the emissions of traditional APs and GHGs (Rafael Borge, UPM/Spain)
- Policies and scenario elements on integrated measures to reduce gaseous emissions from agriculture (José Martinez, CEMAGREF/France)
- Consumer behaviour and energy demand management (Mark Barrett, UCL/UK)
- “Soot Free for Climate” - German NGO Campaign on Climate Impact of Black Carbon Emissions (Dorothee Saar, DUH/Germany)

Conclusions

- Consider speed of measures & cumulative impact
- All categories of measures important, not just technology (behavioural, demand management, energy efficiency & mix, EOP)
- Consideration of other objectives than AP/CC co-benefits (e.g. energy security, social equity)
 - behavioural and demand management mostly win-win, energy efficiency and fuel mix & quality often win-win (plus serve further objectives, e.g. energy security)
- Command and control, regulation, planning instruments to be considered; can be cost-effective (more predictable effects)
- Possible conflict between short term requirements & long term optimality

Recommendations

- Methodology:
 - Consistent & comprehensive analyses (e.g. LCA and bio-fuels) *[analysts]*
 - Total impact (net global warming) of a measure (PM filter, SCR for ships, ...) *[analysts]*
 - Speed of measures: to meet near term targets; cumulative impact for both short- and long-lived substances and impacts *[modelling community, policy makers]*
- Best practice replication
 - Collate best practices *[all - countries, NGOs, ...]* and see effects if replicated across Europe *[NIAM?]*
- More action needed on aviation & shipping *[national, regional, IMO/ICAO]*
- Road transport: need for refined AP and GHG standards (AP and GHG emission standards graded by car size) *[EU]*

Question

- To promote combined strategies, do we need a better terminology? (=> GHGs = pollutants)

Issue raised but no consensus

- Bring indoor AP into the discussion? (=> energy efficiency/reducing ventilation and health)

Sectors/activities not covered (in a comprehensive way)

- By title of WG: industry, buildings, off-road
- In presentations: aviation, shipping, non-electricity energy supply, buildings