



CONVENTION ON LONG-RANGE TRANSBOUNDARY AIR POLLUTION  
**Cooperative Programme for Monitoring and Evaluation of the Long-range  
Transmission of Air Pollutants in Europe (EMEP)**

**TASK FORCE ON INTEGRATED ASSESSMENT MODELLING (TFIAM)**

35<sup>th</sup> session, 8-10 June 2009, Netherlands Environmental Assessment Agency /  
National Institute for Health and Environment, Room G22.028

Antonie van Leeuwenhoeklaan 9, Bilthoven, The Netherlands.

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**Final Agenda**

Monday 8 June<sup>1</sup>

**10.00 Introduction**

1. Welcome by Maarten Hajer, director of the Netherlands Environmental Assessment Agency
2. News from the secretariat on relevant work of the various bodies under the Convention and the status of the 1999 Gothenburg Protocol  
*Presentation by Matti Johansson, UNECE secretariat (see Annex)*  
<http://www.unece.org/env/lrtap/listofmeetings.htm>  
<http://www.unece.org/env/documents/2009/EB/wg5/wgsr44/ece.eb.air.wg.5.2009.4.e.pdf>  
<http://www.unece.org/env/documents/2009/EB/wg5/wgsr43/ece.eb.air.wg.5.94.e.pdf>
3. Progress of the Network for National Integrated Assessment Modelling  
*Presentation by Helen ApSimon and Stefan Åström*  
<http://www.niam.scarp.se>

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<sup>1</sup> Coffee breaks at 11.00h and 15.30h.  
Lunch breaks at 12.30h. Lunches on Monday and Tuesday in Guest Restaurant, on Wednesday in the reception hall of G22.

4. Progress in Integrated Assessment Modelling, the GAINS review process and the work of the European Consortium for Modelling of Air Pollution and Climate Strategies (EC4MACS)

*Presentation by Markus Amann*

<http://www.ec4macs.eu/home/review.html>

<http://www.ec4macs.eu/home/presentations.html?sb=20>

<http://gains.iiasa.ac.at/gains/Annex1.html>

### **13.30 Development of the baseline scenario**

5. Update of the PRIMES energy scenario of the European Union (EU)

*Presentation by Ger Klaassen(EC)*

<http://www.unece.org/env/Irtap/WorkingGroups/wgs/WGS%2042/Informal%20documents/CIAM%20report%202-2008v1.pdf>

[http://ec.europa.eu/environment/climat/climate\\_action.htm](http://ec.europa.eu/environment/climat/climate_action.htm)

<http://ftp.jrc.es/EURdoc/JRC50307.pdf>

[http://ec.europa.eu/environment/climat/pdf/climat\\_action/analysis.pdf](http://ec.europa.eu/environment/climat/pdf/climat_action/analysis.pdf)

<http://www.iiasa.ac.at/rains/presentations/amann-emep-sb-sep2008.ppt>

6. Scenarios for non-EU countries

*Presentation by Markus Amann*

[http://www.unece.org/env/documents/2008/EB/wg5/WGS42/Informal%20documents/No.%203\\_CIAM%20report%201-2008v2.e.pdf](http://www.unece.org/env/documents/2008/EB/wg5/WGS42/Informal%20documents/No.%203_CIAM%20report%201-2008v2.e.pdf)

<http://www.unece.org/env/documents/2008/EB/wg5/Presentations/amann-wgsr-april.pdf>

7. Development of a coherent baseline emission scenario based on policy plans for energy, climate, nitrate policy, etc.

*Presentations for the 15 or more countries that have submitted new baselines*

*Johanna Appelhans – Emission projections for Germany and the effect of climate policy for air quality*

*Stefan Aström – Sweden (?)*

*Nadine Allemand– France (?)*

*Julio Lumbreras – Spain*

*Tiziano Pignatelli – Italy (?)*

*Francisco Ferriera - Portugal*

*Andrew Kelly – Ireland (?)*

*Tohka Antti – Finland*

*Helen Apsimon UK (?)*

*Pieter Hammingh – Netherlands*

*Olga Yusim a.o. – Russia*

*Marte Sollie – Norway*

*Martina Havloková - Czech Republic*

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## **17.00 Departure for social event**

Tuesday 9 June

### **9.0 Presentations for the 15 or more countries that have submitted new baselines**

*Helen Apsimon UK (?)*

*Marte Sollie – Norway*

*Martina Havloková - Czech Republic*

*Julio Lumbreras – Spain*

*Pieter Hammingh – Netherlands*

*Gaston Theis - Switzerland*

### **10.20 Sensitivity analyses of baseline projections**

#### 8. Analyses of the effect of the credit crisis for specific countries

*Presentation by Julio Lumbreras (Spain),*

*Presentation by Robert Koelemeijer (Netherlands),*

[http://www.isi.fraunhofer.de/projects/itren-2030/files/ws4/Krail\\_Schade\\_IWW\\_ISI\\_iTREN\\_2030\\_ASTR impacts\\_of\\_economic\\_crisis.pdf](http://www.isi.fraunhofer.de/projects/itren-2030/files/ws4/Krail_Schade_IWW_ISI_iTREN_2030_ASTR impacts_of_economic_crisis.pdf)

See separate document for PRIMES 2009 projections

#### 9. Analyses of uncertainties due to CO<sub>2</sub>-emission trading

*Presentation by Herman Vollebergh (Netherlands)*

### **13.30 Aspirational scenarios for 2050**

#### 10. Report from the workshop held in Utrecht, 5-6 March 2009

[http://www.unece.org/env/documents/2009/EB/wg5/wgsr44/InfDoc1\\_TFIAM\\_Workshop\\_Draft.pdf](http://www.unece.org/env/documents/2009/EB/wg5/wgsr44/InfDoc1_TFIAM_Workshop_Draft.pdf)

<http://iiasa.ac.at/rains/meetings/Aspiration2050/Presentations/Maas-WGSR43.ppt>

<http://iiasa.ac.at/rains/meetings/Aspiration2050/Presentations.html>

#### 11. Feed back from the Working Group on Strategies and follow up actions

*Presentation by Rob Maas*

[http://www.unece.org/env/documents/2009/EB/wg5/wgsr44/InfDoc2\\_IAM\\_national.pdf](http://www.unece.org/env/documents/2009/EB/wg5/wgsr44/InfDoc2_IAM_national.pdf)

[http://www.unece.org/env/documents/2009/EB/wg5/wgsr44/InfDoc3\\_IAM\\_MethaneNitrogen.pdf](http://www.unece.org/env/documents/2009/EB/wg5/wgsr44/InfDoc3_IAM_MethaneNitrogen.pdf)

12. Additional analyses by CCE

*Presentation by Max Posch*

13. Plans of Eurelectric for a decarbonised electricity system

*Presentation by H el ene Lavray:*

*"Carbon-neutral European electricity sector by 2050. The vision of the power industry"*

<http://energy.ihs.com/News/renewable-energy/2009/eu-en-electricity-renewable-sources-032009.htm>

14. Plans for the EEA State of the Environment Report 2010:

Europe in transition: what air quality for 2050 to expect and how to react?

*Presentation by Hans Eerens ? (EEA)*

Wednesday 10 June

**9.00 Developments in related areas**

15. Progress of EGTEI work (?)

*Presentation by Tiziano Pignatelli, co-chair EGTEI*

16. Evaluation of sectoral approaches in integrated assessment modelling

*Presentation by Pete Roberts (Concawe)*

[http://aqm.jrc.ec.europa.eu/eurodelta/publications/EDII\\_finalreport.pdf](http://aqm.jrc.ec.europa.eu/eurodelta/publications/EDII_finalreport.pdf)

17. Stuttgart Evaluation of sectoral approaches in integrated assessment modelling

*Presentation by Volker Klotz*

**11.00 Further work**

18. Preparation of the EMEP-steering Body meeting (7-9 September 2009)

[See annex 2 for proposal by Sonja Vidic](#)

19. Further co-operation with the Working Group on Effects

20. Preparation of the 36<sup>th</sup> session of the Task Force on options for target setting (6-7 October 2009, back-to back with EC4MACS on 5 October 2009)

21. TFIAM workplan for 2010

**Other business**

**13.00 Chair's report**

*Closure and bus around 14.00h*

ANNEX 1: Decisions by the Executive Bureau of the Convention, relevant for TFIAM

EB25 (ECE/EB.AIR/91):

- urged non-European Union (EU) Parties in the EMEP domain to provide up-to-date validated national information for use in the development of emission control scenarios.
- Invited the Steering Body of EMEP and the Working Group on Effects to
- Continue close cooperation in implementing the priority tasks of the Convention.
- Invited the Working Group on Effects to consider further quantification of policy-relevant effects indicators such as biodiversity change, and to link them to the integrated modelling work.

For revision of the 1999 Gothenburg Protocol:

- Set clear environmental targets;
- Take into account modelled optimized scenarios covering the whole geographic scope of EMEP without excluding the development of differentiated approaches for different UNECE subregions;
- Urged Parties to ensure the submission of all necessary data on energy and emissions projections data for integrated assessment modelling work by the official date for data submission
- Recognized the importance of developing work on emerging technologies and noted the proposal for the Expert Group on Techno-economic Issues, in collaboration with national experts and CIAM, to clarify priorities in relation to biofuels, biomass use, carbon capture and sequestration, and hydrogen, including life-cycle analysis, and to specify work elements for consideration by the Working Group on Strategies and Review at its forty-first session
- Encouraged Convention bodies, in particular programmes, task forces and expert groups, to collaborate with relevant experts and organizations from outside the region to share the Convention's experiences and useful scientific and technical information; to this end, invited the Bureaux of the Working Group on Effects, the Steering Body of EMEP and the Working Group on Strategies and Review to consider this issue with the appropriate task forces, expert groups and programme centres, to review all their current activities linked to outreach and to explore opportunities for including items on outreach in their future workplans;

(ECE/EB.AIR/WG.5/2007/17):

- Provide practical, methodological support and capacity-building (including assessment of resources needed) for the establishment of new stations and programmes in relation to EMEP and the Working Group on Effects activities.

## ANNEX 2: EMEP Steering Body – September 2009 session

Dear colleagues,

During the EMEP-Steering Body Bureau meeting in March we decided to spend one day of the annual EMEP-Steering Body meeting to a substantial subject. This year's subject will be the preparation of the revision of the Gothenburg Protocol. We intend to evaluate during the second day of our meeting (September 8<sup>th</sup>) to what extent the information used in the GAINS model for the revision of the Gothenburg Protocol reflects the current status of scientific knowledge. Also we would wish to learn about possible systematic biases.

The purpose is also to present the work of Centres and Task Forces around specific theme in a more substantial manner. We have discussed at the Bureau meeting that it would be useful to define the most relevant topic for each year and present it in a similar way.

Since this year's topic is related to the revision of the Gothenburg protocol. The moderators for this agenda item are Rob Maas and Markus Amann.

I would like to invite the leaders of Centres and Task Forces to contribute to this special part and report on their review of the data and assumptions used in GAINS and compare these with the current knowledge in their Task Force or Centre. In the attached draft agenda you find a draft title and suggested topics to address during a presentation of 20-30 minutes. Suggestions on the agenda and the topics suggested are welcome. Please send your confirmation, suggestions for the title and content of your presentation and other remarks to Rob Maas ([rob.maas@pbl.nl](mailto:rob.maas@pbl.nl)) who is coordinating this part of the meeting.

If you need additional information to prepare your presentation please contact Markus Amann of the Centre for Integrated Assessment Modelling ([amann@iiasa.ac.at](mailto:amann@iiasa.ac.at)).

Best wishes,

Sonja Vidic

## **Goal**

To evaluate to what extent the model and information used for the revision of the Gothenburg Protocol reflects the current status of scientific knowledge and to identify possible systematic biases.

## **Proposed agenda**

1. The current status of the GAINS model – Amann, CIAM  
*Overview of model characteristics and illustration of some policy applications  
What are the main uncertainties?*
2. The quality of emission estimates used in GAINS –Ritter, CEIP  
*Are there differences in emission estimates and emission projections known to the CEIP and those used by the CIAM? What are possible systematic biases in our emission estimates?*
3. The robustness of the source receptor relationships used in GAINS – Fagerli, MSC-W  
*What changes in the EMEP-Eulerian model have been made during the past year?  
How would such changes influence the source receptor relationships? Would the current workplan have an influence on the SRMs we use now?*
4. What do we know about the boundary conditions? – Keating/Zuber, TFHM  
*What future changes in boundary conditions for European air quality assessments can be expected? How effective would global methane reductions be for reduced ozone exposure in Europe?*
5. Ozone formation: status of knowledge on stomatal flux modelling – Simpson, MSC-W  
*How would the flux approach change our policy advice as compared to advice based on SOMO35 only? How complete and robust is our knowledge about stomatal fluxes?*
6. PM<sub>2.5</sub> – Comparison of modelling and measurements – Torseth/Tsiro, CCC/MS-CW  
*To what extent do models reproduce the background PM<sub>2.5</sub> measurements? What are the main systematic biases and unknowns? What mistakes in policy advice could be possible?*
7. PM<sub>2.5</sub> – Exposure of the urban population – Rouil, TFMM  
*What uncertainties and systematic biases could be involved in the current way in which the GAINS-model reflects the exposure of the urban population?*
8. Conclusion – dealing with uncertainties – Maas, TFIAM  
*What can we learn from the uncertainties mentioned? How can we avoid to systematically underestimate or overestimate exposure?*