

TFEIP Newsletter- Autumn 2009

1. Comments from the Chairs

As we are now only meeting once a year, it seemed sensible to compile a short informal newsletter to pass on news from the recent EMEP Steering Body meeting and keep everyone posted on what our expert panels have been doing across the summer. We have also included some information about our TFEIP meeting next year in Cyprus. More details will follow, but we are already looking forward to some good discussions on a range of different topics.

Many of you will of course be very busy with inventory compilation, so we have written a section on some recent UNECE decisions concerning future changes to reporting, which we hope you will find helpful.

Finally, we hope this newsletter finds you well, and look forward to seeing you in Cyprus in the spring,

Chris, Martin & Kristina
TFEIP chairs

2. Spring 2010 TFEIP Meeting

As you probably know, our next TFEIP meeting will be in Cyprus in the Spring. Here are the relevant dates:

10th - 11th May 2010: Annual joint TFEIP/EIONET Meeting
12th May 2010: Joint workshop with the Taskforce on Measurement & Modelling (TFMM)
13th – 14th May 2010: TFMM Meeting

The meeting will be held in Larnaca, close to the airport (and close to the beach!). We will send more details about the venue, and suggestions for accommodation fairly soon.

We have also started discussing the Agenda, so if there are items which you would like to be included, just send an e-mail to the chairs.

Unfortunately we have recently found out that the TFEIP and TFRN (Task Force on Reactive Nitrogen) meetings in the Spring clash. Apologies to our Agriculture experts, who will thus have to make a decision which meeting to attend. We will liaise with the TFRN Chair (and look into some kind of electronic link-up between the meetings).



3. Important Changes to Reporting Templates

At the recent EMEP Steering Body Meeting some minor changes to the reporting templates were agreed. Revised templates to be used for the reporting of NEC Directive data (Dec 2009) and LRTAP data (Feb 2010) have already been put on the CEIP website:

www.ceip.at/fileadmin/inhalte/emep/xls/AnnexIV_Reporting_templates_300909.xls

We do appreciate that changes to the templates cause difficulties to everyone. We have tried to keep the template the same across the last few years, but there has always been an important reason to change them each year. The latest changes are specifically due to:

a) the need to reflect the future anticipated changes for reporting of POPs as an outcome of the revision of the CLRTAP POPs protocol (the revised protocol is anticipated to be formally agreed in December 2009) and b) correction of various small errors and inconsistencies in the previous template.

We hope that the templates that we now have will stay the same for several years!

3.1. Fewer POPs (Annex IV Table1)

Several of the POPs have now been removed from the annex of the POPs protocol and thus do not need to be reported in 2010. The POPs which are in the templates and need to be reported are:

- **PAHs** (Polycyclic aromatic hydrocarbons). There are 4 as previously- benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno (1,2,3-cd) pyrene
- **PCDD/F** (Dioxins/Furans)
- **HCB** (Hexachlorobenzene)

the following two POPs are included as voluntary reporting:

- **PCB's** (Polychlorinated biphenyls)
- **HCH** (Hexachlorocyclohexane)

3.2 Changes to Source Categories (Annex IV Table1)

There have been some changes to the "main" reporting table (Annex IV - Table 1):

- International inland shipping is no longer a separate source category and emissions should be reported in the 1A3di(i) "International maritime navigation" memo item.
- "Fugitive emissions from geothermal energy production, peat and other energy extraction" has been moved from 1B2avi to a new source category 1B3.
- 1A5a is now included in the GNFR C_SmallComb.
- Footnote h) regarding fuel used, has been modified.
- The row with SNAP totals has been deleted.
- The order of categories has been changed so all are now in numerical order.

3.3 Changes to Other Tables

Some other changes:

- GNFR for Cruise and LTO has been revised (for Annex IV Tables 1, 3A and 3B)
- The Extensions sheet has been deleted
- The tables in the "Additional Information" sheet have been renumbered
- Some small changes to the format definition of flat text files has occurred to remove inconsistencies in the previous version

4. Other news from the EMEP Steering Body

At the recent EMEP Steering Body (SB) meeting (the parent body of the TFEIP), a presentation was given on recent TFEIP activities, and the workplan for 2010. The complete meeting report is online: www.unece.org/env/documents/2009/EB/ge1/ece.eb.air.ge.1.2009.2.e.pdf

4.1 Updated Guidebook and Maintenance

A key decision of the SB was to formally adopt the updated and revised EMEP EEA Guidebook. The SB has passed on to the Executive Body its recommendation to endorse the updated Guidebook (the EB meets in December 2009). The news that we have an updated Guidebook was well received, and we now need to focus on maintenance.

A draft plan for the maintenance of the Guidebook was also presented. This included a costed priority list of tasks. This was well received by the EMEP SB, but sources of funds are not clear. The TFEIP were invited to report to the next SB meeting with a finalised plan.

4.2 Guidebook Translation

There was also discussion on how the Guidebook might be translated into Russian. There are several actions being taken forward, and we hope to be able to report on progress when we next meet.

4.3 Stage 3 emission inventory review

The EMEP SB also explicitly thanked the review experts from Austria, Denmark, France, Germany, the Netherlands, Sweden, the United Kingdom and the European Community for their participation in the review of the 10 national inventories in June. A number of the review reports have already been finalised and are available online at www.ceip.at/review-process/review-2009/

The SB also renewed the call for additional reviewers to participate in the process. If you are interested in becoming a reviewer, or just have some questions about the work, please feel free to contact one of the TFEIP chairs or CEIP. There is also likely to be some limited funding available in 2010 to help reviewers participate who otherwise couldn't. The forms to become a reviewer are available from www.ceip.at/review-process/

The EMEP SB also agreed the list of countries to be reviewed in 2010 and a tentative schedule for following years (see table). While it's noted that countries that are not parties to protocols are not obliged to participate in the Stage 3 review process, they are strongly encouraged to do so.

2008	France , Norway , Portugal and Sweden (voluntary in 2008)
2009	Belgium, Bulgaria, Denmark, Finland, Hungary, Ireland, Latvia, Lithuania, Poland and Spain
2010	Czech Republic, Cyprus, Germany, Italy, Netherlands, Romania, Russian Federation, Slovakia, Switzerland and United Kingdom
2011	Austria, Belarus, Croatia, Estonia, Greece, Iceland, Luxembourg, Malta, Slovenia and Ukraine
2012	Georgia, European Community, Kazakhstan, Kyrgyzstan, Liechtenstein, Monaco, Republic of Moldova, Serbia, The former Yugoslav Republic of Macedonia and Turkey
2013	Albania, Armenia, Azerbaijan, Bosnia and Herzegovina, France, Montenegro, Norway, Portugal and Sweden

5. Recent EEA activities

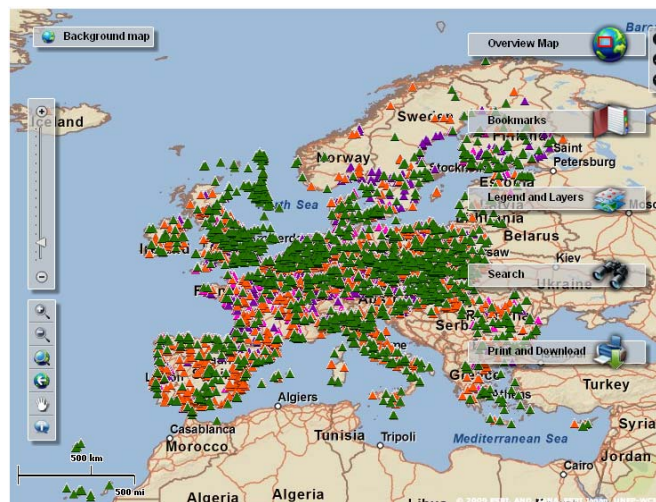
5.1 EMEP/EEA Guidebook

Following an editing of all guidebook chapters over the summer period, and the subsequent formal acceptance of the EMEP/EEA Guidebook by the EMEP Steering Body, EEA and EMEP jointly launched the Guidebook at the Gothenburg air and climate meeting in October (see below). The final chapters of the updated Guidebook are available from <http://eea.europa.eu/emep-eea-guidebook>. A large thank you is again extended to all individuals, national representatives and organisations who have contributed to the revision and update of the Guidebook.

5.2 E-PRTR

The European Commission and EEA launched the new European pollutant release and transfer register (E-PRTR) on 9 November.

E-PRTR replaces the older EPER register. The E-PRTR register contains information about the quantity and location of pollutants released to air, water and land by industrial facilities (point sources) throughout Europe. It includes annual data for 91 substances and covers more than 24 000 facilities across 65 economic activities. From 2010 onwards, the information in E-PRTR will be updated in April each year. In addition to the 27 Member States of the European Union, it also includes data from Iceland, Liechtenstein and Norway.



The consistency of E-PRTR emissions data compared to official national emission inventory data (LRTAP, EU-MM/UNFCCC) is presently being checked by EEA's European Topic Centre on Air and Climate Change. These results will be available for countries within a few months.

The European Commission also plans to establish a project in 2010 to develop high resolution emission maps for certain diffuse emission sources and pollutants (e.g. transport - NO_x). The results from this project will also be incorporated in the E-PRTR website in the future.

The E-PRTR is online at <http://prtr.ec.europa.eu/>

5.3 New EEA reports published since the TFEIP/EIONET May meeting



[NECD Status report 2008.](#)

The report presents an analysis of emissions and projections data reported by EU Member States in the 2008 reporting round under the NECD. A number of MS have indicated they will not achieve at least one of their 2010 emission ceilings. At the aggregated European Community level, the 'with measures' projections reported by MS imply that for some pollutants the aggregated EU-27 emission ceilings defined in Annex I and II of the NECD will also be exceeded. Only for SO₂ and NH₃ is the EU-27 likely to meet both the aggregated ceilings set in the NECD Annex I and II.



[European Community emission inventory report 1990-2007.](#)

This annual report (sent earlier in the year to UNECE/CEIP) accompanies the emission inventory data submission of the European Community to the LRTAP Convention. The report presents an overview of air pollutant emission data reported by the EU-27 Member States between the years 1990 to 2007.



[Assessment of ground-level ozone in EEA member countries, with a focus on long-term trends](#)

Trends in measured and modelled ground-level ozone concentrations in Europe. Influence of anthropogenic and natural emissions, meteorology, inter-continental transport of ozone precursor gases and link to climate change.

5.3 Updated CollectERIII emission inventory software available

EEA's European Topic Centre on Air and Climate Change (ETC/ACC) and software company Spirit a.s. have recently completed an update to the CollectERIII emission inventory software system, used by a number of countries to assist reporting to LRTAP/UNFCCC etc.

The version 2 release of CollectER III has an improved user interface and now includes additional quality control and quality assurance tools. Export of data into the latest versions of the UNFCCC CRF Reporter (xml) and the LRTAP flat file format are enabled.

In addition, a self training manual, 'TrainERIII' is also available. The manual provides background on the approaches and database structures used in CollectERIII, and includes step by step guidance on the main functions of the software. It also provides guidance in exporting via xml a CollectER national database into the UNFCCC CRF Reporter database.



The updated software version and TrainerER document are available for download from http://air-climate.eionet.europa.eu/country_tools/ae/CollectER_III.html

6. Gothenburg air and climate conference October 2009

AIR & CLIMATE Gothenburg 2009



An international workshop was held in Gothenburg, Sweden in October 2009. Held under the auspices of the Swedish EU Presidency and coordinated by the Swedish Environmental Protection Agency, the workshop also attracted a number of participants from outside the EU, including from other UNECE countries and from developing countries.

The purpose of the meeting was to discuss air-pollution policies and establish how far they are capable of contributing to a rapid impact on climate change. The aim was to provide input into international policy processes with respect to both air pollution and climate change.

The workshop produced a number of recommendations, including a call to address under the Gothenburg Protocol revision, the climate effects of air pollutants and the short-lived climate forcers, including black carbon, CO and methane. It was also recommended to create a new task force or an ad hoc expert group under the Convention to investigate physical and economic aspects of climate change and air quality interactions, initially to inform the revision of the Gothenburg Protocol. This proposal will be discussed by the Convention's Executive Body in December.

The workshop conclusions and presentations are available at www.swedishepa.se/airclimconf. Details of the book produced for the conference '*Air Pollution and Climate Change – two sides of the same coin*' are available [here](#).



7. Combustion & Industry expert panel

7.1 Testing the new guidebook data

Emission factors from the new Guidebook (GB) are being tested. Across the last nine months a full set of emission factors from the new guidebook have been applied to two subnational emission inventories (regional with detail on NUTS 3 - municipalities). We have evaluated the emission estimates using both the old and new data. It might be interesting in a future meeting to present the differences between the two estimates. The work has been finalized for two regions of Italy (Umbria and Toscana), similar work has started on Sicilia and Cagliari area and work is planned for other Regions.

7.2 Authors list for the revised Guidebook

A list of lead and contributing authors for all of the chapters in the Guidebook covered by the Combustion & Industry Expert Panel (this includes all technical chapters except for the transport and agriculture chapters) has been derived. Since major changes have occurred over time, and especially during the latest update, we have chosen to identify for all the chapters either one or both of the Expert Panel leaders as the coordinator of the chapter. All people contributing to this version or earlier versions are acknowledged as contributing authors.

7.3 Prioritisation of tasks

Together with the TFEIP chair and co-chairs, we have made a prioritisation list with the tasks in our Expert Panel to be undertaken in the near future. This list was a part of the Guidebook Maintenance and Improvement Plan, as it was drafted by the TFEIP just before the summer.

Additionally, a couple of issues have been added to this to-do-list. Generally these issues are minor and include corrections and/or clarifications of the current Guidebook chapters.

7.4 Expert Panel Workshop

In the summer, a meeting with the European Solvents Industry Group (ESIG) about emissions inventorying and reporting in the field of solvents showed that there is a need for improvements in the Guidebook. The industrial representatives showed their interest in assisting the Expert Panel in improving the Guidebook.

We will organise a workshop in November or December with this industry group to discuss how to improve the Guidebook for the solvent use chapters and use the information available from the industry to improve our emission estimates. For instance, more detailed activity statistics could be made available by the industry for the Parties to improve their emission inventories.

8. Agriculture and Nature expert panel

8.1 New Project to Improve Activity Data Collection for Calculating Emissions from Agriculture.

Eurostat recently issued a tender with the general objective “*to create a framework for setting up a sustainable system for collecting a set of data from farmers and other sources that will serve primarily European and national statisticians for creating the agreed 28 agri-environmental indicators and thus serve policy makers, but as well agricultural and environmental researchers, observers of climate change and other environmental issues linked to agriculture*”.

The tender was won by a consortium led by Oene Onema from Alterra, Wageningen UR, The Netherlands. The consortium includes the Department of Agro-ecology and Environment, University of Aarhus, Denmark, the Institute for Land Reclamation and Grassland Farming, IMUZ, Falenty, Poland, the Department of Sustainable Agricultural Systems, University of Natural Resources and Applied Life Sciences, Vienna, Austria and ADAS, Wolverhampton, United Kingdom.

The proposal entitled ‘*Direct and indirect data needs linked to the farms for agri-environmental indicators*’ will consider the data required to calculate a range of agri-environmental indicators, including ammonia emissions. The tasks most relevant to the Agriculture and Nature Panel are:

- Task 1: Analyse the agri-environmental indicators for data requirements, availability and gaps, as well as additional information requirements (such as coefficients used). For the indicators not yet fully developed, estimated data requirements will be sufficient;
- Task 2: Analyse other reporting needs related to the agri-environmental indicators that require collection of similar data, both by examining legislation, instructions etc., and by contacting working groups, task forces, and similar structures established to support these reporting activities
- Task 3: Analyse the methodologies for calculating greenhouse gas and ammonia emission and nutrient balances (nitrogen and phosphorus), with particular emphasis on the coefficients used in the calculations and the underlying data needs. Identify best practices for these coefficient calculations, based on available scientific research;
- Task 4: Summarise the data needs identified in tasks 1-3, determine the simplest common data collection approaches which can be applied across multiple agri-environmental indicator requirements, identify potential harmonisation synergies and give recommendations for priority data collection;

Task 5: Analyse needs for and feasibility of data complementarity and combination for the calculation of the indicators: at parcel, farm, regional or national level and the subsequent demands on the collection and data processing systems;

8.2 Errors, omissions or ambiguities in the Guidebook or Reporting Templates

Task Force members will be aware of the long process of revising the Guidebook. It is likely that when inventory compilers use the revised Guidebook, they will encounter some errors, omissions or places where the text is unclear. It is important that you tell the EP leaders if you encounter such instances, so we can correct or rectify them. We are already aware of one such omission:

NM VOC emissions from crop and soil (4D)

Crop emissions of NMVOCs are discussed in chapter 4D (Crop production and agricultural soils). However, in the Annex IV Reporting Templates, there is no suitable NFR code for these emissions. This is an oversight that will be corrected at the next TFEIP meeting in spring 2010. For the current reporting round, we recommend that these emissions are reported under:

- 4D2a Farm-level agricultural operations including storage, handling and transport of agricultural products

8.3 EPMAN-3 Meeting

The third meeting of the "Expert Panel on Mitigating Agricultural Nitrogen" (EPMAN) of the Task Force on Reactive Nitrogen (TFRN) was held in Dublin on the 24th and 25th September. The purpose of the meeting was to prepare the revised text for 'The Guidance Document on Techniques for Preventing and Abating Emissions of Ammonia' in conjunction with the preparation of a document outlining proposed options for the revision of Annex IX of the Gothenburg Protocol.

The Ammonia Guidance Document and the document on options for revision of Annex IX prepared at the Dublin Meeting will be forwarded to the 3rd meeting of the Task Force on Reactive nitrogen on 24th and 25th November 2009. The TFRN-3 meeting will allow for discussion with the TFRN National Focal Points, where the documents will be finalized. Following the TFRN-3 meeting the documents will be submitted for consideration by the Working Group on Strategies and Review (WGSR). The revised Guidance Document should cover a large array of measures for ammonia abatement in support of the Annex IX revision.

The EPMAN-3 meeting was focused on the following items:

- Low emission land spreading of manure and mineral fertilizers
- Livestock feeding strategies
- Low emission housing of animals, especially cattle, and manure storage
- Options of how to consider possible farm size categories.

Further details about TFRN and EPMAN can be found at <http://www.clrtap-tfrn.org/>.

9. Transport expert panel

A new European Research group on Mobile Emission Sources (ERMES) was created in 2009, under the coordination of the JRC, IES, which also co-leads the Panel. The group puts together experts working on emission models for road transport, but it is expected to be expanded to other modes later on. The former DACH-NLS experts and the COPERT group with experts from the countries Germany, Austria, Switzerland, the Netherlands, Sweden, Spain, France and Greece joined the group with the following objectives:

- To coordinate research (and measurement programmes) for the improvement of emission inventories in Europe
- To provide a Clearinghouse for European Mobile Emissions modelling Tools (CEMET), relevant Guidance and Training
- To provide a reference point for Mobile Emission Modelling in Europe and maintain/improve International contacts

The group had already had two preparatory meetings in 2009, mostly focused in the finalisation of the new HBEFA (Handbook of Emission Factors) (see <http://www.hbefa.net/>). A new version of the HBEFA is about to be released, containing several methodological developments already made in COPERT, apart from a lot of new emission factors developed within the group. Please check in early December at the website for the new version. An expert version is already developed within the same project for use by the Members of the group.

The official kick-off of the ERMES group will be organised during the first three months of 2010 in Brussels, with emphasis on fuel consumption of the road transport. Please check the website of the Panel (<http://transportpanel.jrc.ec.europa.eu/>) for news.

The Aviation Sector is now preparing to enter in the European Emission Trading Scheme (see [Directive 2008/101/EC](#)). A new methodology was developed within the work done for setting the emission caps, which included a reconciliation of reported and real fuel consumption. Discussion are now underway on how to best make available this methodology and related corrections also to MS experts. A coordination group on aviation emission inventories consisting of participants from DG-ENV, JRC, EEA, EUROCONTROL and EASA will be held in Brussels on the 10th December 2009.

10. Projections expert panel

From May 2009 the projections expert panel (PEP) finalised the Guidebook chapter on projections. Some experts have participated in last TFIAM meeting (held in Bilthoven, The Netherlands) and in the meeting held at IIASA in October.

NIAM experts have presented a COST action proposal to foster the network devoted to the development of national and regional activities in integrated assessment modelling (IAM) in order to assist policy makers in delivering joined-up and cost effective solutions.

11. Contacts

Comments or queries to the chairs are welcome!

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