

TFEIP Newsletter

January 2017



1 2016 TFEIP Meeting, Zagreb

The 2016 TFEIP annual meeting was held jointly with the EEA Eionet NRC network on 17-18th May 2016, in Zagreb, Croatia. The meeting was kindly hosted by the Croatian Agency for the Environment and Nature.

Presentations were received on innovations in air pollutant inventories, including modelling shipping emissions, best practice in gridding emissions, and linking emissions with local air quality and N deposition. The presentations are available to view on <http://tfeip-secretariat.org/2016-meeting-zagreb/>.

The TFEIP Expert Panels met on Tuesday afternoon, and their updated workplans for 2016-17 are available from their meeting pages on <http://tfeip-secretariat.org/expert-panels/>.

2016 Workshop – Condensable & Filterable PM

The 2016 TFEIP workshop focused upon emissions of condensable and semi-volatile organic particulate matter.

The modelling community explained how PM emission estimates are used in modelling studies under the CLRTAP, and discussed short- and long-term actions to obtain more complete PM data. The emissions inventory community provided updates on recent projects; discrepancies between modelled and measured PM concentrations in Europe, and the results of a Nordic Council project to measure the emissions of short lived climate pollutants from small-scale combustion sources.

Arising from discussions on condensable PM, it was agreed that it would be helpful if Parties reported clearly the Tiers used in their inventories. CEIP and Aether have since prepared a one-off questionnaire to gather information on condensables, that was sent to Parties during the autumn. A summary of the results will be presented at the 2017 TFEIP Meeting.

Update of the EMEP/EEA Guidebook

Mark Broomfield (Ricardo) presented the different elements of the European Commission-funded project to update Guidebook chapters.

Martin Adams (EEA) presented the timeline for Guidebook finalisation, including chapters updated separately to the EC project.

Updated Guidebook chapters were discussed in the relevant Expert Panel meetings. All chapters were accepted subject to small changes agreed by the panels. Ad hoc groups were subsequently formed to support and review the finalisation of sub-sections within chapters 3B Manure Management and 3D Crops.

Updating the Process for Reviewing Inventories

A draft updated “Methods and Procedures” document was presented and discussed. The TFEIP Co-chairs have finalised the mandate document, and it is available on the TFEIP website (<http://tfeip-secretariat.org/2016-meeting-zagreb/>).

TFEIP Mandate

The EMEP Steering Body has requested that Task Forces and Centres update their mandates. A draft updated mandate was discussed. It has been finalised and is available on the TFEIP website (<http://tfeip-secretariat.org/2016-meeting-zagreb/>).

2 EMEP Steering Body Meeting, September 2016

The EMEP Steering Body and the Working Group on Effects met on 13-16th September 2016. The minutes of the meeting are available [here](#). Actions of note to TFEIP participants include:

- a) Requested the TFEIP to collate information on the reporting of condensables and semi-volatiles as part of Party’s PM emissions reporting, and to report back;
- b) Requested the secretariat to inform Parties that the new version of the EMEP/EEA Guidebook should be used for emission reporting in 2017;
- c) Approved the updated Guidelines for the technical review of emission inventories under the CLRTAP, and recommended its use from 2017 onwards;
- d) Welcomed the review of NECD emission inventories in 2017 and called for further cooperation between the Convention and the European Union on the reviews;
- e) Noted that the completeness and consistency of reported inventories were still not sufficient, while between 25 per cent (for main pollutants) to 70 per cent (for heavy metals and POPs) emissions had to be estimated to fill the gaps;

- f) Approved the list of Parties scheduled for Stage 3 reviews in 2017 ¹, and requested Parties facing national challenges with respect to the completeness and quality of emission reporting to present their experiences.

3 Snapshot: Martin Adams

We continue to introduce different members of the TFEIP team in the newsletter. Martin Adams, co-chair of the TFEIP, provides us with an overview of his work.



Martin heads the Air Pollution, Transport and Noise group at the European Environment Agency (EEA). His main role is to coordinate the EEA's activities and resources across these three different thematic areas, ensuring close cooperation with the different EU institutions (including the European Commission), EEA's member and cooperating countries, as well as the EEA's European Topic Centre on Air pollution and Climate change Mitigation (ETC/ACM).

Martin joined the EEA first as a project manager in 2007 and, before his current role, supported the Agency's activities in the areas of air pollutant and greenhouse gas emission inventories, indicators and environmental assessments. Before coming to EEA, Martin was employed for 6 years in the United Kingdom as an environmental consultant, where he worked on a variety of projects ranging from emission inventory work through to chemicals policy, and environment and health files.

4 European Union agrees a new NECD... and inventory reviews

[The European Union \(EU\) has recently formally agreed a new Directive 2016/2284/EU](#) on the reduction of national emissions of certain atmospheric pollutants (NEC Directive). This new directive entered into force on 31 December 2016, and replaces the previous 2001 NEC Directive. When fully implemented, the new Directive is designed to reduce by almost 50% the negative health impacts of air pollution by 2030.

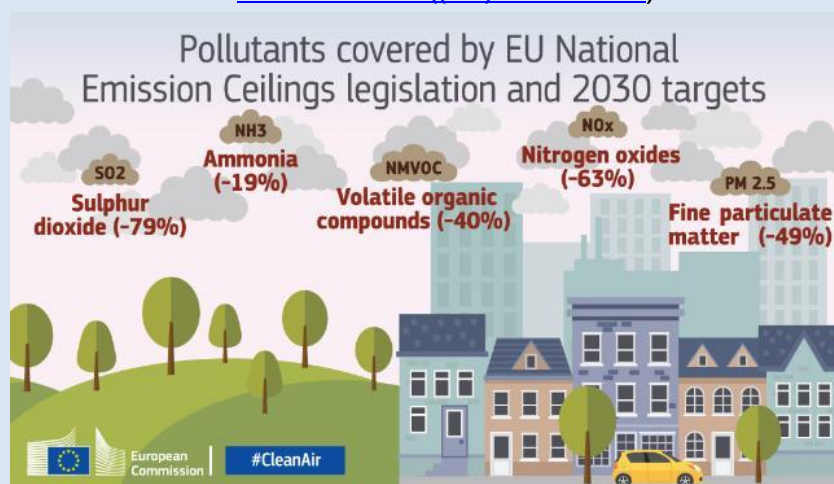
The main features of the new Directive include (refer to the legal text for the formal requirements):

- ensuring that the emission ceilings for 2010 set in the 2001 Directive apply until 2020;

¹ Albania, Armenia, Austria, EU, Kazakhstan, Kyrgyzstan, Lichtenstein, Malta, Monaco and Montenegro.

- setting new national reduction commitments for 2020 and stricter reduction commitments for 2030 for five pollutants (SO₂, NO_x, NMVOCs, NH₃ and PM_{2.5}). The reductions commitments for 2020 are consistent with with the obligations for the EU and its Member States already agreed under the 2012 revised Gothenburg Protocol;
- allowing a range of ‘flexibilities’ for assessing compliance;
- requiring Member States to develop and implement national air pollution control programmes that shall be updated at least every 4 years;
- requiring mandatory reporting of emissions inventories and projections, spatial emissions, large point source inventories and Informative Inventory Reports (IIR);
- frequency of reporting, reporting deadlines, and pollutants broadly harmonised with the requirements set under the CLRTAP, although with some changes such as a more frequent reporting of projections (every two years);

Link to the new [NEC Directive \(\(EU\) 2016/2284\)](#)



The European Commission have also arranged for NECD emissions inventories from all MS to undergo a technical review in 2017. Initial evaluation of the emissions inventories will begin in March, and will continue to a centralised review at the end of June.

5 New ‘EMEP/EEA Guidebook – 2016’

Following its formal approval at the EMEP Steering Board meeting, a new 2016 version of the [EMEP/EEA air pollutant emission inventory guidebook](#) has been published by EEA.

In addition, a new [online emission factor database](#) has also been published by EEA, allowing users to easily search and download emission factors from the majority of Guidebook chapters.

Important updates to the 2016 Guidebook were made in the following areas:

- consistency of particulate matter (PM) emission factors, including identification of whether these represent filterable or condensable PM fractions;
- small combustion sources guidance;
- non-road mobile machinery sources guidance;
- agriculture sources guidance, including from manure management, crop production and agricultural soils, and ammonia emissions from biogas production;
- metal emissions from refineries;
- non-ferrous metal sources guidance;
- domestic and other solvent use guidance;
- aviation sources guidance;
- construction and demolition sources guidance.

The new Guidebook was supported by many organisations and individuals, particularly those from the TFEIP and several industry organisations. All experts who have contributed to the preparation and review of the current and past versions of the Guidebook are sincerely thanked!

In particular, much of the 2016 update was performed by a consortium led by Ricardo Energy and Environment, United Kingdom, within the scope of the project '*Continued improvement of inventory methodologies*' funded by the European Union. The EEA provided separate funding for the update of a number of additional chapters in work performed by TNO and the Danish Centre for Energy and Environment (Aarhus University). Contributions in kind were received from TFEIP's expert panel leaders, Denmark and Germany which contributed to the update and finalisation of several further chapters. Further contributions from Concawe, Eurocontrol (funded by the European Union), Eurometaux and European Aluminium are also kindly acknowledged. A full list of acknowledgements is included in the Guidebooks' [Introduction](#).

Links:

[EMEP/EEA air pollutant emission inventory guidebook - 2016.](#)

[Online emission factor database](#)

6 TFEIP Meeting 2017

We are pleased to announce that the joint EIONET and TFEIP meeting will be held at the Center of Energy at the AGH University of Science and Technology in **Krakow, Poland**, across the **10th-12th May, 2017**. The workshop will be held on the 10th May 2017. Full invitations and registration will be circulated soon.

If you would like to publicise details of your forthcoming relevant meetings or workshops in the next TFEIP newsletter, you are welcome to email the co-Chairs with information.

<http://www.tfeip-secretariat.org/>

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