

# Task Force on Emission Inventories and Projections

## This Years' Activities and Future Work



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6. Focus of **Future Work** (2016 – 2018)



# 1. Review of 2015-2016 Workplan

1. **On-going technical support/co-ordination** 
2. **Annual TFEIP/EIONET Meeting (& workshop)** 
3. **Communications and outreach** 
4. **Updated EMEP/EEA Guidebook Chapters for SB** 
5. **Updated Review (Methods & Procedures Document)** 
6. **Condensables/Semi-volatiles – work with TFMM** 
7. **Updated mandate** 

## 2. TFEIP/EIONET Annual Meeting

### Zagreb, May 2016

Our thanks to our Croatian hosts

~110 attendees, ~45 countries & international bodies

- One to one meetings with Parties
- Discussion on updated Guidebook chapters
- Updating emissions inventory review.



# 3. Workshop – Condensables/SVOC

## Emissions of Condensables and Semi-volatiles

- Technical presentations from TFMM
- Good collaborative discussion.
- Short-term targets
  - TFEIP to draft & circulate to Parties a short paper explaining the challenges and proposed solutions
  - Identify filterable/condensable EFs in the Guidebook
  - CEIP to ask Parties what data they use (Spring 2017)
- Long-term aims
  - **Standardise reporting to “condensable PM”**
  - Research needed to better understand emissions of the organic component of PM



# 4. Technical Review of Emission Inventories

## Updated Methods & Procedures Document

- Parties to be reviewed every 5 years (or more frequently)
- Parties to be “recalled” for review if quality issues
- Parties to be reviewed following significant recalculations (suggested amendment to para. 25)
- The review team may “correct” estimates (but this does not affect national totals for compliance purposes).
- Reviews may be undertaken with a specific focus if this supports the work of the Convention.
- The revised document needs EMEP SB formal acceptance

# Introduction



- The Guidebook provides national emission inventory compilers with guidance and ‘default’ emission factors for NFR sources
- Used for reporting under the LRTAP Convention and NEC Directive.
- The EMEP/EEA Guidebook undergoes a ‘major’ update every 3-4 years.
- In 2016 we anticipate, subject to EMEP approval, publishing an updated Guidebook version

# Main changes – scope of 2016 update

## Four complementary projects during 2015-2016:

1. DG ENV project (*Ricardo Energy and Environment & others*):
  - 1.A.4 small-scale combustion
  - 1.A.4 non-road mobile machinery
  - 3.B, 3.D Agriculture
  - PM inventory estimates (filterable/condensable consistency)
2. DG Clima project (*Eurocontrol*)
  - 1.A.3.a Aviation
3. EEA project (*TNO & Aarhus University*)
  - NFM chapters: 2.C.3 Aluminium production, 2.C.5 Lead production, 2.C.6 Zinc production, 2C.7.a Copper production, 2.C.7.b Nickel production, 2.C.7.c other metal production
  - 2.D.3.a Domestic solvent use
4. Germany
  - Construction and demolition

# Questions to the TFEIP – for technical endorsement of the updated Guidebook

- i. Were the comments submitted during the review adequately considered by the consultants?
- ii. Are there remaining errors or issues requiring clarification or correction?
- iii. Can the expert panels reach a consensus to technically endorse the updated chapters?

Important to keep in mind scope of the respective update projects. Additional needs for further improvement can be entered in the Guidebooks maintenance and improvement plan.

# TFEIP plenary discussion

Based on discussions from the respective EP sessions, can we as a group recommend a 'technical endorsement' of the 2016 Guidebook to the EMEP Steering Body?

The 4 options:

- i. Endorse the entire Guidebook
- ii. Endorse the entire GB on condition that any final corrections or clarifications are incorporated
- iii. Endorse the GB, but if very large changes are still needed agree to form an ad-hoc expert group to subsequently review and approve, on behalf of the TFEIP, those chapters that require more work.
- iv. Reject the 2016 Guidebook

# TFEIP plenary outcome

- i. The vast majority of chapters were endorsed
- ii. A small number were endorsed on the condition that final corrections or clarifications were made – since completed.
- iii. A small number (2 agriculture chapters + biogas) required further work by an-hoc group –final versions subsequently developed and agreed  
(Significant input from experts of Denmark, Germany, Netherlands to finalise these chapters)

*Editing and layout being undertaken by EEA*

*Would translation into Russian be helpful?*

# 5. Emissions Inventory Guidebook

## Updates to a substantial number of chapters

- **Non-road mobile machinery** (EFs, Tier 1 methodology)
- **Aviation** (new data and tools from Eurocontrol)
- **Refineries** (EFs for metals)
- **Domestic solvent use** (EF updates)
- **Non-ferrous metals** (EF updates)
- **Construction and Demolition** (new EFs and methodologies)
- **Agriculture/Waste** (anaerobic digestion included. Some further work planned)
- **Agriculture soils** (important updates, but cannot conclude on methodologies for some sources. EFs for some fertilisers have changed)
- **Black carbon** (EFs reviewed)
- **PM emission factors** (now include filterable/condensable information where known)

# EMEP Steering Body discussion

All chapters are technically endorsed by the TFEIP.

We recommend that the EMEP SB accepts the updated 2016 EMEP/EEA Guidebook, and recommends to the CLRTAP EB that the 2016 Guidebook be formally endorsed.

## 6. Focus of Future Work

### Workplan (Standing Items)

1. Annual TFEIP meeting and workshop
  - We have no venue secured for 2017
2. Other Meetings (Expert Panels)
3. Focal point for technical discussions etc.
4. Encourage Party contributions to
  - Guidebook methodologies and EFs
  - Experts for the Stage 3 and Adjustment reviews
5. TFEIP Expert Panel contributions to workplan...



## 7. Focus of Future Work

### Use of EMEP Budget 2016

1. Small combustion - T1 methodology \$50k
  - Substantial update - to include appliance & biomass types

### Use of EMEP Budget 2017

1. PM Emission Factors \$30k
  - First step towards quantifying the differences between filterable and condensable PM EFs.
2. Non-road mobile machinery \$10k
  - Updates to include newly available data
3. Agriculture \$20k
  - Further review of underpinning data (& co-ordination)

We seek EMEP endorsement of this plan



# Acknowledgements

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*The United Kingdom, the EEA,  
and Finland*



# Formal Decisions/Discussion Points

- 1. PM emissions reporting – aim to include the condensable/ SVOC component**
- 2. Updated Methods & Procedures document (technical review of inventories)**
- 3. Updated chapters of the EMEP/EEA Guidebook**
- 4. Proposal for use of the EMEP budget (emissions inventory development)**

