

TASK FORCE ON EMISSION INVENTORIES & PROJECTIONS

EXPERT PANEL COMBUSTION & INDUSTRY

Work plan and discussion | Jeroen Kuenen



Environment and Energy Knowledge

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WORK PLAN 2017-2018

- Main priority for C&I is the further improvement of emissions from residential combustion, particularly wood
 - A lot of information is available on emission factors (there are lot of measurements, etc.)
 - The main challenge is to understand the burning practices and the appliance types
- Update the Guidebook with new emission factors for HMs in refineries
- Improvement of guidance of emission estimates for HMs and POPs

No progress was made in the last year due to a lack of funding







REMAINING ISSUES FROM EARLIER WORK PLAN

- 1. Quarrying and mining: introduce a Tier 3 methodology, keeping in mind that the method should be robust enough to allow countries to use it if not all very detailed data are available
- 2. NMVOC from solvents: continue the work done in the last year and followup on the EEA funded Guidebook work
- 3. Make an assessment of the Tier used by the different Parties for some key sectors (we know that in some cases Tier 1 is used where a higher Tier should be used e.g. for key sources)
- 4. Related to the discussion on condensables, explore the possibility to include chemical speciation and volatility classes of VOC and PM in the Guidebook
- 5. Emission factors for organic carbon
- Emission factors for benzene







NEW ITEMS

- Solvents: review and incorporate 2015 figures from ESIG
- Fireworks: the emission factors need to be updated because the references do not contain the relevant information
- In addition, a couple of questions/problems have been flagged by email which need to be looked at







SMALL ISSUES

Sector	Issue	
1B - Guidebook not complete. Guidebook does not include method for coal gasification	1B: Consider including a method for coal gasification	
1B2av - NMVOC emissions from distribution of oil.	NMVOC emissions from distribution of oil. Guidebook needs clarification and harmonisation of text. E.g.: activity data should include gasoline only.	
1B1a - NMVOC from coal mining	Guidebook emissions factors are probably too high for this source and need to be checked.	
1B2ai and 1B2b - Tier 1 method not always applicable	Current Tier1 emissions factors are not applicable if production does not occur. Guidebook should consider additional Tier1 for transmission/distribution only.	
1B2c - inconsistency between Tier 1 and Tier 2	Check inconsistency between Tier 1 and Tier 2 for flaring in oil refineries (EF in Tier 2 around 20 times higher) while it is written they are essentially the same (Table 3-2 and Table 3-4)	
1B2d – Inconsistency NH3 EF	NH3 EF in Tier 1 is higher than the range of emissions described in the text in Section 2.3. The default EF is likely too high. Guidebook emissions factors need to be checked.	
1B2d – Geothermal energy and heat production	Add explanation why EF is only related to electricity production, not heat.	
5 Expert Panel Combustion & Industry	26 April 2018	



Tobacco and Fireworks

tier methods

Unclear method

Solvent and other product use -

Emissions from the use of shoes -



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Sector	Issue	
2A3 – pre- and post treatment	Develop the EF to include pre- and post-treatments	

2A2 - allocation	Currently unclear in the Guidebook how lime production and use at sugar factories is allocated (NFRs 2A2, 2H2).

EFs for cement production come from BREFs and measurements depend on abatement efficiency, and it is 2A - EFs and pre- and postunclear if pre-and post-treatment emissions are included. Consider revising this section. treatment

Consider to provide methods to estimate emissions and information on how to get or estimate national 2A5a - AD activity data in the Guidebook chapter for Quarrying and Mining and Construction and Demolition Metal industry - Rolling mills No PM2.5 EF for rolling mills. Consider to include EF.

2C5 and 2C6 - EFs In Guidebook version 2013 EFs for both primary and secondary production were provided. In 2016 Guidebook only T1 EFs for 2C5 and 2C6. Consider to include this information if it is still valid. Solvent and other product use Split MSs do not collect data on the split of coating applications used in industrial/domestic/construction & between reporting categories building activities and are therefore not able to report the emissions in these categories. It would be helpful

to provide some basis for expert estimations to do this split. NFRs 2G and 2D3i - allocation Provide guidance how to split emissions between 2G and 2D3i. Solvent and other product use -Many countries do not currently estimate emissions from Tobacco and Firework use. It would be helpful

if the Guidebook would provide advice how to get or estimate national activity data for these activities. The methodology in the GB refers to PM1.8. It should be checked and explained how these data are used to give PM2.5 and PM10 EFs. Tools to estimate AD and EFs from the material provided by ESIG. What can be made available to help General information to move to higher

- MS obtain domestic & industrial solvent AD? References to detailed national studies on solvent use, or annexing these studies to the Guidebook.
- The text in the Guidebook is not clear whether the method presented is for the use or production of shoes.

Wood processing - Manufactured wood Glues are used in the manufacture of different types of wooden board. The Guidebook needs a board/products: methodology for this, and a clear explanation about what is reported under 2I Wood products and 2D3i Other solvent use. 26 April 2018 A method for chipboard production needs to be developed.







CONTRIBUTIONS

- Germany
 - 2A5a Quarrying and mining
 - 2D3i/2G Other solvent and product use
- Currently this is everything planned







DISCUSSION

- Last year no progress due to lack of funding
- Now is the chance to suggest updates to the EMEP/EEA Guidebook for the 2019 version, which will be used to assess compliance against 2020 ceilings
- The key update is likely to update the small combustion chapter reflecting the decisions taken regarding condensables
- What can your country contribute to the improvement of the Guidebook?

> THANK YOU FOR YOUR ATTENTION

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