



› COMBUSTION & INDUSTRY PANEL

Introduction and Agenda | Ir. J.J.P. Kuenen

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COMBUSTION & INDUSTRY PANEL

- › Goals:
 - › Prepare for the 2019 EMEP/EEA Guidebook
 - › Presentation of proposed Guidebook updates
 - › Decision on approval of proposed changes
 - › Have an agreed list on corrections of errors in the GB for the 2019 update
 - › Presentation of other new work relevant for emission inventory community
 - › Provide the opportunity for country experts to meet and discuss on the issues they face
 - › Draft a work plan for 2020-2021

AGENDA (INDICATIVE TIMINGS)

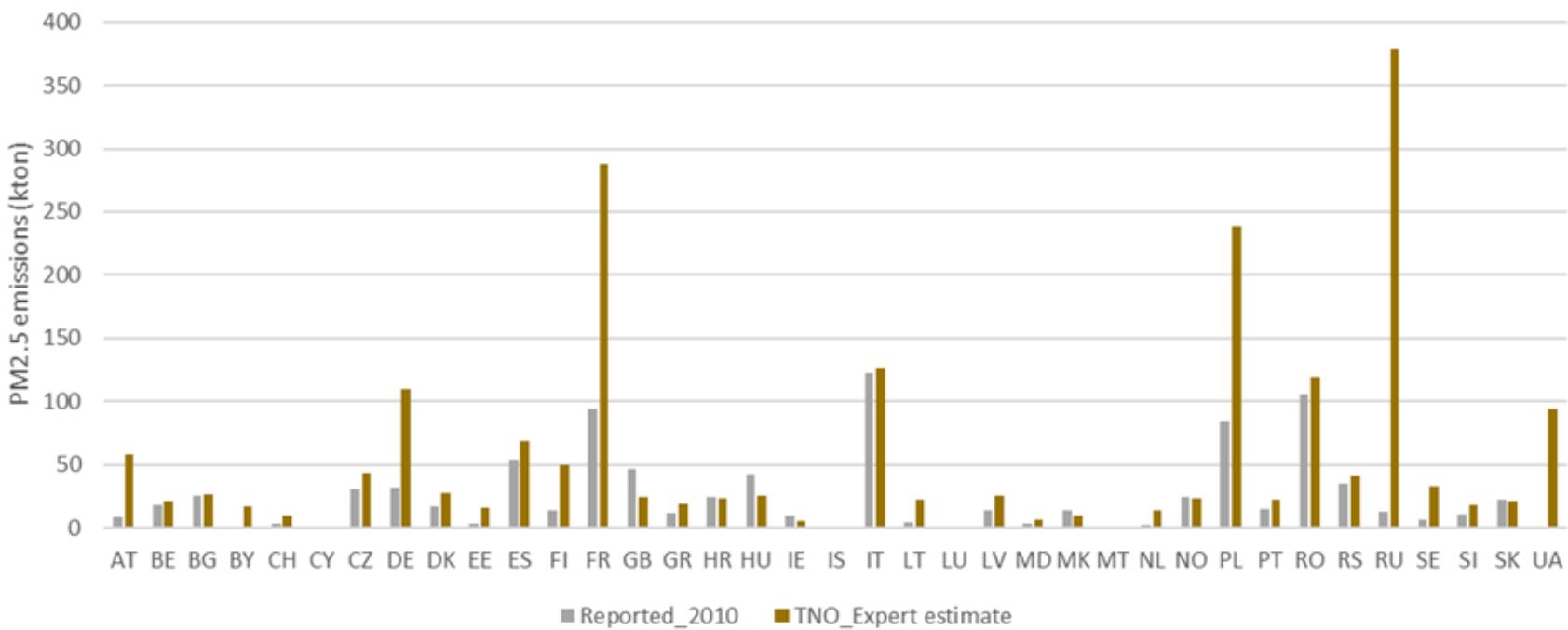
13:30	<i>Opening</i> Introduction by the co-chairs and adoption of the agenda	Co-chairs
13:45	Guidebook updates Presentation of the changes to the Guidebook chapters - 1A1 Large combustion plants - 1A4 Small combustion - 1B2c Venting and flaring - 2A5a Quarrying and mining - 2D3i/2G Other product use	Co-chairs
	Discussion & decision on adoption of revised chapters	All
14:45	Discussion on reporting of PM including/excluding condensables in small combustion	Co-chairs, All
15:15	Coffee break	
15:40	Planned updates to the solvent chapters	Cornelia Tietz (ESIG)
16:00	New information from Germany - Recently finished and ongoing measurement studies for various combustion activities - Different types of PCB and how to deal with those	Kristina Juhrich (UBA)
16:20	List of clear errors in the Guidebook and way forward to fix them	Co-chairs
16:50	Work plan 2020-2021	Co-chairs
17:00	Any other business	
17:15	Close of meeting	

GUIDEBOOK UPDATES

Chapter	Proposed changes	Decision on approval
1A1 Energy industries	Updated HM emission factors for Tier 1 & 2 in refineries (CONCAWE)	Approved
1B2c Venting and flaring	Updated HM emission factors and NOX/CO in Tier 2 for flaring (CONCAWE)	Approved
2A5a Quarrying and mining	Introduction of Tier 2 methodology updated supported by Germany	Approved pending latest comments are being resolved
2D3i/2G Other product use	Introduction of new Tier 2 methods for lubricant use (supported by Germany) and aircraft deicing (input from Switzerland)	Lubricant use: not approved at this moment, needs clarifications Aircraft deicing: approved
1A4 Small combustion	Update EF tables for biomass combustion so that only EFs for total PM (incl. condensables) are in there; filterable only EFs in separate table for reference	Approved

CONDENSABLES

Reported PM2.5 emissions from small combustion for 2010 and 2016 compared to TNO expert estimate



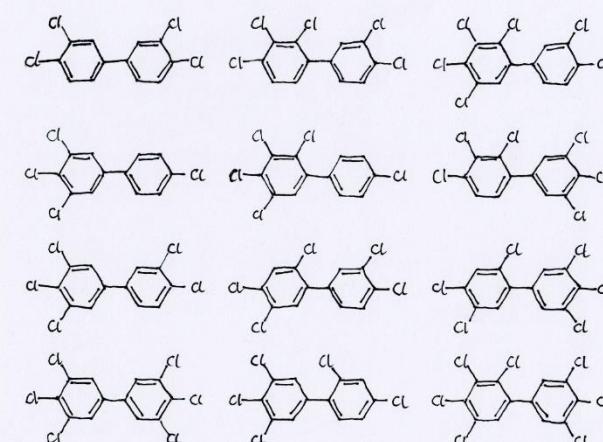
https://www.unece.org/fileadmin/DAM/env/documents/2018/Air/EMEP/TFEIP-TFMM_proposal_condensables_for_EMEP_Steering_Body_v6.pdf

CONDENSABLES

- › Discussion around the way forward, taking place in the TFEIP but also in other groups including higher level
- › For the Guidebook, it is important that we aim for one consistent set of guidance/methodologies
- › As illustrated by Germany, it's challenging to go from filterable only to total PM for small combustion, mainly because all previous measurements are based on filters and need to be converted or re-done under the same circumstances

EMISSION MEASUREMENTS IN GERMANY

- › Kristina (DE) presented several developments from Germany:
 - › Review/understanding of all available measurements on LCP
 - › Review of refinery emissions based on refinery emission reports
 - › Running measurement programs on both LCP and small combustion
 - › Issue with PCB: different measurement methods used for different sources in the same country, emissions could be factor 1000 different
 - › Issue needs to be addressed



ESIG VOC EMISSION INVENTORIES

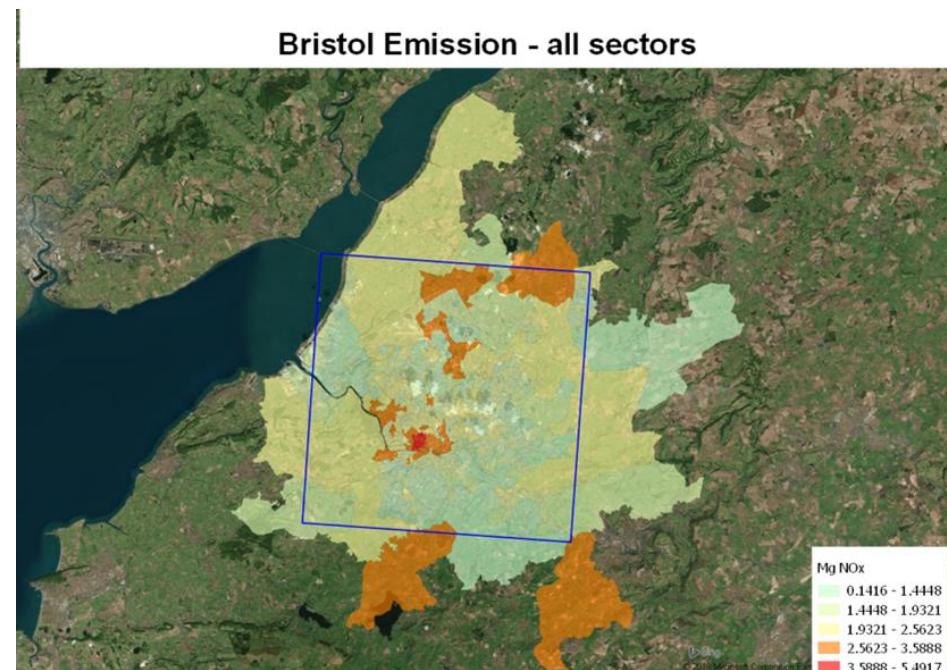
ESIG continues to be collecting and providing VOC emission inventories to emission inventory community

1. Info is collected from ESIG members on volumes into REACH use markets per Member State
 2. This is then translated into solvent use, whereafter VOC emissions are calculated using emission factors per end-use sector
- Cover years 2008 - 2009 - 2013 - 2015
 - Recent article in "Atmospheric Environment" by J Pearson
 - To come ~ mid year: 2016 & 2017 data

TNO to support ESIG in making these inventories more useful for inventory compilers

EMISSIONS FROM DOMESTIC/SERVICE SECTOR IN CITIES

- › EU H2020 project ClairCity: will apportion air pollution emissions and concentrations, carbon footprints and health outcomes by city citizens' behaviour and day-to-day activities in order to make these challenges relevant to how people chose to live, behave and interact within their city environment
- › Collecting activity data at available statistical level
- › Evaluated at most detailed level
- › Emissions calculated and allocated to grid



NEXT STEPS WORK PLAN 2020-2021

- › Long list of issues that we need to address
- › Will be extended with a few additional issues and then circulated to the Expert Panel mailing list
 - › Where possible including prioritization / effort needed
- › We agreed to put this as a “living document” on our website, so people can see what is already on our radar, suggest new items or taking some issues away by working on them
- › Call on all Parties to support us on improving the Guidebook

OTHER BUSINESS

- › We discussed the NFR template presented by the ad-hoc group
 - › No time to review at the meeting
 - › Will be circulated to EP Members in the coming days, with 2-3 weeks review period for providing comments



> THANK YOU FOR YOUR ATTENTION

Take a look:

TNO.NL/TNO-INSIGHTS

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