NMR Condensables Workshop

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NMR Condensables
Workshop

Aims of the workshop:

Suggest how to harmonise and improve approaches to PM inventory emissions and modelling, accounting for so-called condensable compounds
POA emissions

- Problems of OA emissions by now well known...
- SVOC – IVOC - condensables
- Europe: Denier van der Gon et al., ACP, 2015, Simpson and Denier van der Gon, EMEP 2015, Ots et al., ACP, 2016, Jiang et al, 2019
- Basically, countries report apples and oranges!
EMISSION PER UNIT OF WOOD

Implied emission factors show range of 3-8 difference ("crude" analysis)
Bottom-up (TNO_newRWC) more or less consistent (Germany higher % modern stoves)
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VBS - emissions

Old concept:
- PM emissions - inert
- VOC emissions - gaseous

New concept:
- Organics cover whole range of volatilities, from non-volatile to gas.
- No clear gap! Some compounds potentially missing from PM and NMVOC inventory.

Key take-away messages

Work is on-going… report in the Autumn

What can be achieved in < 1 year?
- Agreement to use TNO “Ref2” estimates for scientific purposes
- There is a need for more transparency regarding the content of national inventories
- Need to agree a roadmap (with realistic ambition)
What can be achieved beyond 1 year?

- Recognize different demands of science vs compliance inventories
- **Measurement experts to propose definitions/standards**
- Agree what should be included in the Guidebook, and in what formats
- GP review - changes in reporting requirements?
- A project to **collate emissions information into a database**
Decision-making with the CLRTAP

- **Policy issues will be endorsed by the WGSR (May)**
  - Review of the Gothenburg
  - Constraints due to sectoral or domestic legislations
  - Impact on the current and future objectives for PM2.5 ceilings

- **Session during the WGE/EMEP SB joint meeting (Sept). Adoption of the road map and implementation plans**

- **Discussion at the EB (Dec), making the links between science & policy issues. Decision regarding the review of GP**
What should/can we agree within the TFEIP at this stage?

- Do we have a view on the definition of condensables?

- **Do we have a view on inclusion/exclusion from different sources when reporting national emissions?**

- **Do we have a view on what “pollutants” should be included in national inventories?**
  - Filterable PM and conden. PM, or just conden PM total
  - Organic aerosol, inorganic aerosol, sulphate, nitrate…

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