Expert Panel
Combustion & Industry

TFEIP Expert Panel meeting
14-15 May 2012, Bern
The Expert Panel provides a forum for inventory compilers and experts to discuss issues with regard to emission inventorying in the field of combustion and industry.

Main objectives of this meeting:
- Discuss about the currently ongoing update of the Guidebook
- Provide a forum for inventory compilers to discuss their inventory issues with experts and other inventory compilers
Outline of the meeting

- Monday 14 May
  - 13.30-13.40 Welcome & Introduction
  - 13.40-16.00 Presentation and discussion of the GB update proposals
    - Task 1: Black carbon
    - Task 2: Consistency across pollutants (PM/Heavy metals/POPs/etc.)
    - Task 3: Domestic and other product use
    - Task 4: Small combustion sources
    - Task 5: PM from fugitive emissions (discussed on Tuesday)
Tuesday 15 May

- 09.00-09.45 Discussion on Task 5: Fugitive PM emissions
- 09.45-10.00 Improvements needed for domestic solvent use (Antonio Ferreiro, Spain)
- 10.00-10.15 Proposed new emission factors from the air pollutant emission factor library (Kristina Saarinen, Finland)
Task 1: Black Carbon

- Difficult to distinguish different carbonaceous PM fractions

- Most measurements for EC rather than BC
  - Mainly combustion related, but also in ind. processes and waste
  - For fossil fuel combustion, we can assume BC=EC
  - For biomass this is more of an issue

- Express BC as percentage of PM2.5 rather than a separate emission factor, to ensure consistency between PM2.5 and BC in the inventories
Task 2: Inconsistencies

- Consistency across various scales
  - Checks if TSP > PM10 > PM2.5 and TSP > sum(HM)
  - Check for obsolete references
  - Definition of fuels

- How are Tier 1 emission factors derived from the Tier 2 factors?
  - Tier 1 EF most relevant Tier 2
  - Tier 1 EF most conservative Tier 2 (to encourage Parties to use higher Tiers)

- How to deal with a changing Tier 1 emission factor?
  - Reporting for all years back to 1990, is your Tier 1 EF suitable for all those years?
  - Limited problem but needs to be addressed
Task 3: Domestic solvent use

- Very difficult sector to improve, but there is a strong need from Parties to improve their inventories for this sector
- Most knowledge is in countries: your own inventories
- Try to combine available knowledge from countries into a methodology which can be applied for other countries
  - Differences in product use / domestic solvent consumption between countries?
  - Availability of activity data?

On the side from the GB update:
- ESIG has announced that sales data from the solvent companies will be made available (years 2008 & 2009 first) for improving emission inventories
Task 4: Small combustion

- Referencing is problem: mostly to Guidebook (2006) and then... difficult to get to the original data

- Measurement technique is a major issue, especially for PM emissions from this source (in-stack vs. dilution tunnel)

- New classification for techniques has been proposed to the Expert Panel: no objection
Task 5: Fugitive PM

- Fugitive PM emissions poorly available in current Guidebook
- Affects sectors 1.B, 2 and 6
- Fugitive PM emissions could very well be underestimated
- New methods should take into account that the availability of activity data is very limited
  - Advanced methodologies require detailed activity data which are not generally available on a country level
- Additional information provided by the Netherlands will be taken into account
Conclusions

- The Expert Panel discussed 5 tasks associated with the update of the Guidebook

- Most discussion papers with all the details are available on TFEIP website, additional discussion papers will follow in the next weeks

- The Expert Panel invites everyone to send their feedback and proposals to guidebook@eea.europa.eu by June 3rd

- The Expert Panel welcomes the opportunity to use data from the solvent industry in the inventory work. The EP will work further with the industry to make the data available.