## AGENDA

<table>
<thead>
<tr>
<th>Indicative timing</th>
<th>Topic</th>
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<tbody>
<tr>
<td>14.00</td>
<td>Agenda and Introduction</td>
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<tr>
<td>14.10</td>
<td>Guidebook Updates</td>
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<tr>
<td>15.40</td>
<td>Coffee break</td>
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<tr>
<td>16.00</td>
<td>Quarrying and mining: case study</td>
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<tr>
<td>16.30</td>
<td>Work plan 2016/2017</td>
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<td>16.50</td>
<td>Any other business</td>
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UPDATE OF THE GUIDEBOOK

- We have received a number of updates with regard to the EMEP/EEA Guidebook
  - Project funded by EC DG ENV
    - Small combustion
    - Condensables vs. filterables (many chapters considered)
  - Other revised chapters
    - Domestic solvent use
    - Non-ferrous metals
    - Construction and demolition
Task 1: Small combustion chapter updated significantly
- Descriptions of different appliance types were expanded
- Emission factors of Tier 1 and Tier 2 were reviewed and updated in selected cases
- Additional guidance was added in Tier 3 (e.g. AirUse results)
- The new MCP Directive (1-50 MWth) may help to obtain better resolved activity data

Task 2: Many PM emission factors were reviewed as to whether the condensable part was included
- It should be noted that this information could not always be retrieved from the original reference
DOMESTIC SOLVENT USE

- Workshop was held (16th March, The Hague) with selected Parties and industry to discuss the way forward
- Chapter has been revised significantly based
- Tier 1 emission factor updated (now lower) and made region specific to reflect difference between Western Europe and other regions
- Tier 2 distinguishes between solvent- and product-based approach

- Industry (ESIG) supplied data for EU-27 for selected years, using the REACH end-use sectors
- Method to use industry data in your inventory now included in the Guidebook
NON-FERROUS METALS

- NFRs concerned: 2.C.3, 2.C.5, 2.C.6, 2.C.7.a-c
- Comments from industry received during the review end of 2015
- New BREF available (approved final draft)

- Process descriptions updated
- Emission factor tables updated for the emission factors taken from BREF

- If possible, next to the BREF EFs an alternative table is provided with unabated EFs/abatement efficiencies to account for non-EU countries
CONSTRUCTION AND DEMOLITION

- New Tier 1 method developed based on the US EPA methodology (AP-42) translated to the European situation

- This makes construction (and demolition) a more important source (emissions typically increase when following the new method)
GUIDEBOOK - RECOMMENDATIONS

The Combustion & Industry Expert Panel recommends the revised chapters to be approved with the following provisions:

1. The consultant is to check if the removed heavy metal EFs in the non-ferrous metals might be corrected instead of removed.
2. The consultant is to take into account a couple of smaller/editorial changes identified during the Expert Panel session.
3. Allowing additional comments ONLY for the domestic solvent use chapter and the non-ferrous metals chapters to be sent for 2 more weeks.
   - Small and editorial, these will be processed.
   - If substantial issues are found, an ad-hoc group will be formed to resolve the issues (to be discussed with EP leaders).
   - Any comments to be sent by email to guidebook@eea.europa.eu and jeroen.kuenen@tno.nl by 5th June 2016 at the latest!
QUARRYING AND MINING

- Current Guidebook methodology is not complete for quarrying and mining in particular for large scale applications

- US EPA AP42 methodology was applied for European case study: this method can be inserted in the Guidebook as Tier 3 methodology

- An estimation model was developed to take into account emissions coming from extraction of solid materials in the coal mine area
- Emissions from *Mineral products storage, handling and transport* were also estimated to take into account coal transport by trucks – main source of emissions is transport on unpaved roads
- Wind erosion from storage piles also taken into account – found to be relatively small emissions
WORK PLAN

1. Small combustion emission estimates, in particular PM from coal & wood combustion

2. Condensable emissions, harmonizing the Guidebook (pending)

3. 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

4. NMVOC from solvents: continue the work done in the last year and follow-up on the EEA funded Guidebook work
WORK PLAN (2)

5. 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)

6. Related to the discussion on condensables, explore the possibility to include chemical speciation and volatility classes of VOC and PM in the Guidebook

7. Emission factors for organic carbon
8. Emission factors for benzene: important in air quality analysis
9. Improve outdated guidance in the Food & drink chapter
WORK PLAN - SMALL COMBUSTION

- Becoming increasingly important as a source of emissions, however many countries still use a Tier 1 approach due to lack of information.
  - At the workshop Monday, it was proposed to develop a more sophisticated Tier 1 approach (may be regarded Tier 1 ½).
  - This should account for both the different appliance types and the different biomass types that are around with very different emission characteristics.
  - Take into account more than just PM, for instance PAHs!

- The proposal is to have this implemented next year and table this as an updated Guidebook chapter at the 2017 TFEIP meeting (provided resources are available).
THANK YOU FOR YOUR ATTENTION