



**6th JOINT UNECE Task Force & EIONET  
Workshop on Emission Inventories and Projections  
ROVANIEMI, FINLAND  
19 – 21 OCTOBER 2005**



***Combustion & Industry expert panel***

# **Report to plenary**

**Carlo Trozzi**



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**Plans for 2004/2005, Expert Panel on Combustion and Industry**

<b>No</b>	<b>Description</b>	<b>By whom</b>	<b>By when</b>	<b>Status</b>
1	Input EFs and recommendation from analysis of BREFs to chapters	Carlo Trozzi	Jan-Feb 05 (1st draft)	OK a lot of chapter
2	Complete the primary Ni Chapter	Pieter van der Most and RIVM	Most of the work already done, Pieter to sent final version	Posponed
3	Consultations on the possible use of the IPCC EFDB (with changes)	JRC, IPCC, EEA	mid 2005	OK
4	Prioritisation of chapters considering PM, POPs and IPCC needs	Panel	Link-tables comments and commitments by end Nov. 04	OK



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6	Prepare a first draft of the solvents chapters, have a meeting to discuss them	Carlo Trozzi, Riccardo DeLauretis	By mid-2005	Postponed
6	Agreed to accept a supplementary table with proposals for extensions of NFR	Zig Klimont, Vigdis Vestreng	End of October 04	OK
7	Use output of ESPREME and other projects to update EF's and recommendations on HM in the Guidebook	Stefan Reis, Sergey Kakareka	Next TF meeting	Postponed
8	Scientific Workshop on HM's	Stefan Reis	Together with next TF meeting	OK



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## **GB chapters update with information from BREFs**

- B3311, Cement
- B3312, Lime
- B3314, Glass Production
- B3318, Mineral wool
- B3321, Paper-mill Industry (Drying Processes)
- B462, Paper Pulp (Kraft Process)
- B463, Paper Pulp (Acid Sulphite Process)
- B464, Paper Pulp (Neutral Sulphite Semi-Chemical Process)



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## **New PCB and HCB “orizzontal” chapters**

- **SOURCES OF HEXACHLOROBENZENE EMISSION**
- **SOURCES OF POYCHLORINATED BIPHENYLS EMISSION**
  
- **Date:** August 2005
- **Authors:** Sergey Kakarek  
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**Priorities for updating the EMEP/Corinair emission inventory  
guidebook with respect to particulate matter**

- **In January definition of priorities for updating the EMEP/Corinair emission inventory guidebook with respect to particulate matter: Input for EC tender**
- **The highest priority for updates was suggested for:**
  - **Combustion in energy and transformation industries,**
  - **Combustion in manufacturing industries,**
  - **Processes in iron and steel industries,**
  - **Off-road mobile sources and**
  - **Small scale outdoor combustion of residential waste.**
- **Some unclassified sources should also have high priority.**
- **Update of emission factors and size distribution has the highest priority, then follows the chemical speciation**



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**Definition of Priority in update PM in GB (example)**

- **Priority existing activities and chapters**
- **Priority new activities in existing chapters**
- **Priority new chapters and related activities**



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**PM Priority existing activities and chapters (example)**

<b>Existing chapter</b>	<b>PM emission factors</b>	<b>PM size speciation</b>	<b>PM chemical speciation</b>	<b>Priority NOTE 0</b>
B461 Chipboard Lime (Decarbonizing) Batteries Manufacturing Extraction of Mineral Ores Other (Incl. Asbestos Products Manuf.)	NO	NO	NO	High
B462 Paper Pulp (Kraft Process)	YES	10, 2.5	YES	Low
B463 Paper Pulp (Acid Sulphite Process)	YES	10, 2.5	NO	Low
B464 Paper Pulp (Neutral Sulphite Semi-Chemical Process)	NO	NO	NO	Low
B465 Bread-making & Other food manufacturing	NO	NO	NO	High Note 6
B466 Wine Beer Spirits	NO	NO	NO	Low
B4610 Asphalt Roofing Materials	YES	NO	NO	Low
B4611 Road Paving with Asphalt	YES	NO	NO	Low
B4618 Limestone and Dolomite Use	NO	NO	NO	High
B4619 Soda Ash Production and Use	NO	NO	NO	Medium





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**PM Priority new activities in existing chapters (example)**

**Note 6:**

Must be inserted new SNAP Activities to be defined in this chapter. New activities are the following:

- Grain Millings
- Alfalfa Dehydration
- Carob Kibble
- Coffee Roasting
- Cotton Ginning
- Dairy Products
- Deep Fat Frying
- Distilled Spirits
- Fish Processing
- Nuts and Seeds Roasting
- Starch Manufacturing (8.400.000 ton in Eur15)



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**PM Priority new chapters and related activities (example)**

<b>Missing chapter</b>	<b>PM emission factors</b>	<b>PM size speciation</b>	<b>PM chemical speciation</b>	<b>Priority NOTE 0</b>
B3327 Other mineral products	NO	NO	NO	High Note 13
B4211 Metal and other aggregate transportation, handling and storage	NO	NO	NO	High Note 14
B4620 Wood Products	NO	NO	NO	High Note 15
B4621 Other mineral products	NO	NO	NO	High Note 16
B471 Heavy Construction Operations	NO	NO	NO	Medium Note 17

**Note 15:**

The following new activities must be included in the chapter:

- Sawmill Operations
- Particleboard, Fiberboard & Strandboard Manufacture
- Plywood Manufacture



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**Priority in update the emission inventory guidebook (1)**

- **In August a first list of activities was proposed by EP leader**
- **The following activities are general across all the sectors:**
  - **Review of the availability of new or update emissions factors (review of the original source, verify of new sources are available, update emission factors)**
  - **Verify and insertion of all emission factors information coming from IPPC BREF**
  - **Harmonize EF simple methodology vs detailed methodology**



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**Priority in update the emission inventory guidebook (2)**

- **Specific tables provides an overview of available methodologies and their status and priority with respect to updates**
- **Tables will be review by expert panel members in the next months; a meeting will be held in February**
- **Some example follows**



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**Priority in update the GB (example)**

	Is there a GB chapter?	The methodologies need inserted/update?	Do emission factors need inserted/update?	If yes, please specify for which pollutants?	Priority
B111 Combustion Plants as Point Sources	Yes	No	Yes	HM	High
B112 Combustion Plants as Area Sources	Yes	No	Yes	HM	High
B114 Gas Turbines	Yes	No	No		(1)
B132 Petroleum and/or Gas Refining Plants Combustion plants	No	No	No		(2)
B136 Petroleum and/or Gas Refining Plants Process Furnaces	Yes	No	No		
B142 Solid Fuel Transformation Plant Combustion plants	No	No	No		(2)
B146 Solid fuel transformation plants <i>Coke Oven Furnaces</i> <i>Coke Oven (Door Leakage and Extinction)</i>					
B152 Coal Min., Oil/Gas Extr., Pipeline Comp.	No	No	No		(2)
B216 Small Combustion Installation	Yes	No	No		

- (1) Gas Turbines are also included in B111 and B112 (the EFs are different!), the chapter can be eliminated, integrating in B111 and B112 its contents.
- (2) Must be deleted! B111, B112 chapters contain reference to the SNAP codes declared here as “without methodology”



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1	Complete input EFs and recommendation from analysis of BREFs to chapters	Carlo Trozzi	Jun-Jul 06 (draft)
2	Prepare a first draft of the solvents chapters, have a meeting to discuss them	Carlo Trozzi, Riccardo de Lauretis	By end-2006
3	Review the chapter on Small combustion installation especially with emphasis on Mercury and HMs	Dilara Panagiota (JCR)	Jun-Jul 06 (draft)
4	Complete the primary Ni Chapter	Pieter van der Most and RIVM	Jun-Jul 06 (draft)
5	Cooperate with EC PM tender winner in update PM Efs and activity classification	Panel	Jun-Jul 06 (draft)



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5	Cooperate with industry (CONCAWE and others to define) to update emission factors especially for VOCs, PM, HMs and POPs	Panel	Jun-Jul 06 (draft)
6	Update emission factors of selected activities in the GB and harmonize all the chapters	?	?
7	Resolution of ambiguous definition of processes & combustion in SNAP and GB	Carlo Trozzi	Jan 06 (draft)
8	Use output of ESPREME and other projects to update EF's and recommendations on HM in the Guidebook	Stefan Reis, Sergey Kakareka	Jan 06 (draft)
9	Valuate the use of EF software from IPCC to manage emission factors	Tinus Puelels	Jun-Jul 06



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## ➤ **Next meetings**

➤ **February (probably in Rome)**

➤ **October (7<sup>o</sup> Joint Workshop)**