# Task Force on Emission Inventories and Projections

## **EMEP/EEA Guidebook 2016**

An update of developments concerning the EMEP/EEA air pollutant emissions inventory guidebook 2016

TFEIP co-chairs: Chris Dore, Martin Adams and Kristina Saarinen

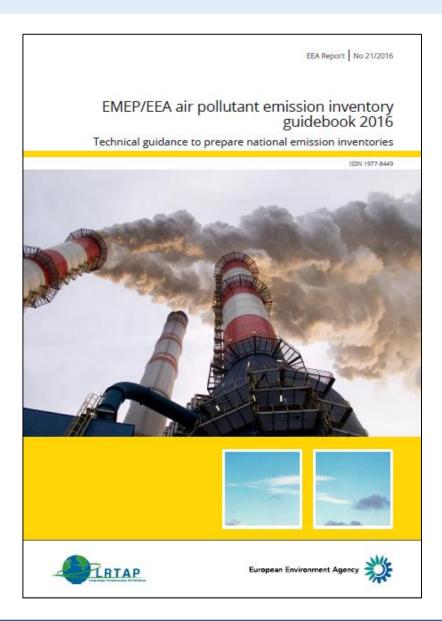








## Introduction



- The Guidebook provides national emission inventory compilers with guidance and 'default' emission factors for NFR sources
- Used for reporting under the LRTAP Convention and EU's NEC Directive.
- The EMEP/EEA Guidebook undergoes a 'major' update every 3-4 years.
- In 2016, we approved the latest version of the updated Guidebook

## TFEIP's draft mandate: EMEP/EEA Guidebook

## The functions of the Task Force will be to:

(a) Develop further the EMEP/EEA Guidebook methodologies by supporting work that provides updated information from the literature and liaising with other projects. The Task Force will ensure regular updating of the maintenance and improvement plan for the Guidebook with a view to publishing major updates in 2016, and every following 3-4 years.

'Revised mandate for the EMEP Task Force on Emission Inventories and Projections (TFEIP)'.

TFEIP 2016 workshop

## **Timelines: Guidebook 2016 finalisation**

2015-2016 Preparatory projects

May 2016: TFEIP meeting 'technically endorsed' the Guidebook

June-July: A limited number of corrections and/or additional work

was performed (requested by TFEIP)

July-Aug: EEA performed language editing, formatting etc

of all chapters

Sept 2016: Formal approval of the updated Guidebook 2016

by the EMEP Steering Body

Sept 2016: Updated EMEP/EEA Guidebook 2016 published

https://www.eea.europa.eu/publications/emep-eea-guidebook-2016
Or access all past versions:

https://www.eea.europa.eu/emep-eea-guidebook

# Main changes – scope of 2016 update

## Three complementary projects (2015-2016)

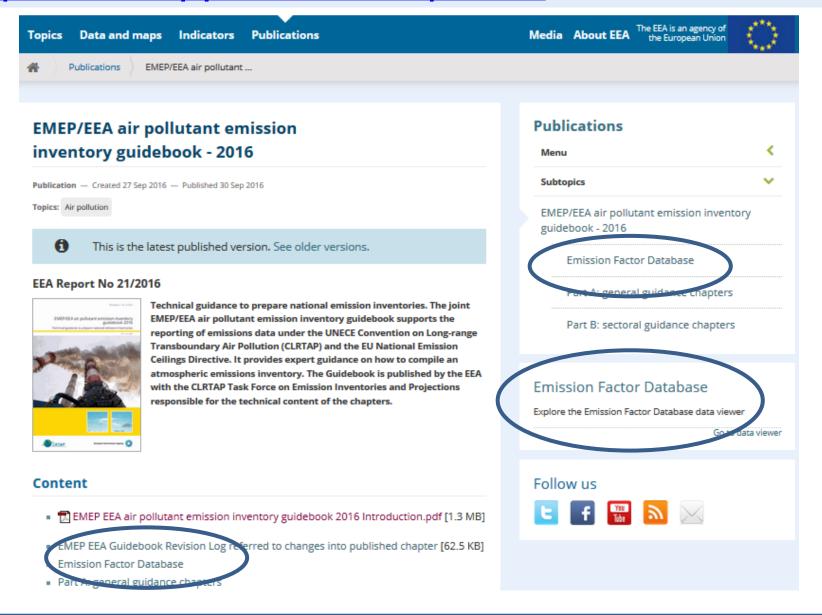
- 1. European Commission DG ENV funded project (*Ricardo Energy & Environment, & others*):
  - 1.A.4 small-scale combustion
  - 1.A.4 non-road mobile machinery
  - 3.B, 3.D Agriculture
  - PM inventory estimates (filterable/condensable consistency)
- 2. European Commission DG CLIMA funded project (*Eurocontrol*)
  - 1.A.3.a Aviation
- 3. EEA funded project (TNO & Aarhus University)
  - Non-ferrous metals chapters: 2.C.3 Aluminium production, 2.C.5
     Lead production, 2.C.6 Zinc production, 2C.7.a Copper production, 2.C.7.b Nickel production, 2.C.7.c other metal production
  - 2.D.3.a Domestic solvent use

http://efdb.apps.eea.europa.eu/

Alongside the new Guidebook 2016, EEA has published a new online viewer containing:

- default Tier 1 emission factors
- default Tier 2 emission factors
- Tier 2 abatement efficiencies
- Tier 2 fuel consumption estimates (road transport sector)
- Includes 7970 fields (values)
- Main exceptions:
  - Agriculture chapter EFs not (yet) included
  - No Tier 3 factors

http://efdb.apps.eea.europa.eu/



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#### Direct data download

#### EMEP/EEA air pollutant emission inventory guidebook 2016 - Emission factors

This viewer presents selected emission factors and abatement efficiencies included in the EMEP/EEA Guidebook 2016. Information factors included in the Guidebook are included in this viewer, users should always therefore consult the relevant the values provided in the chapter are considered the official data.

#### search term

Results 1 - 10 of 7970

NFR	Sector	Table	Туре	Technology	Fuel	Abatement	Region	Pollutant	Value
1.A.1.a	Public electricity and heat production	Table_3-7	Tier 1 emission factor	NA	Biomass		NA	НСВ	5
1.A.1.a	Public electricity and heat production	Table_3-7	Tier 1 emission factor	NA	Biomass		NA	Benzo(k)fluoranthene	0.0155
1.A.1.a	Public electricity and heat production	Table_3-7	Tier 1 emission factor	NA	Biomass		NA	Zn	181
1.A.1.a	Public electricity and heat production	Table_3-7	Tier 1 emission factor	NA	Biomass		NA	Cd	1.76

For Reporting (NFR) source category code. Not pearing in this viewer and the published chapter,

Fuel	<
Pollutant	<
Туре	,

Search filters

http://efdb.apps.eea.europa.eu/

In case of discrepancies between values appearing in the viewer and the published chapter, the values provided in the chapter are considered as the official data.

Feedback is most welcome (questions/errors/problems etc) email to: <a href="mailto:guidebook@eea.europa.eu">guidebook@eea.europa.eu</a>

## Translation into Russian of the Guidebook



A translation of the Guidebook is planned for around autumn 2017

work to be funded by EEA under its EU European Neighbourhood
 Policy (ENP) grant

## **EMEP/EEA Guidebook: 2017 status**

Several corrections & minor additions have already been made since publication:

- 1.A.2 Combustion in manufacturing industries and construction (PAH EF unit correction; EF reference for source 1.A.2.g.viii added)
- 2.H.2 Food and beverage industry (Table 3.5 now inserted)
- 3.D Crop production and agricultural soil (EF NH<sub>3</sub> from sewage sludge corrected)
- 1.A.3.a Aviation (annex corrected, corrected EFs)
- 1.A.3.b.i-iv Road transport (updated/corrected EFs)

The Guidebook revision log (available online) documents all changes made since publication.

## **EMEP/EEA Guidebook: 2017 status**

Two 'priority' chapters are tabled for TFEIP endorsement at this meeting, following recent work that reflects updated scientific knowledge and/or method development:

- i. Residential combustion
- ii. Road transport

Potential future updates across coming year(s)

- i. BREF/BAT conclusions adopted recently various sectors
- ii. General guidance (incl. uncertainties, QA/QC)
- iii. New information from Concawe on refinery emissions (1A1, 1B2 chapters etc)
- iv. Agriculture calculation support spreadsheet (2017), further changes to 3B, 3D, biogas?

# **Guidebook 2016: Acknowledgments**

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## Mobile combustion and non-road mobile machinery:

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#### Waste:

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### **General guidance/cross-cutting:**

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# **Guidebook 2016: Acknowledgments**

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# Thank you







