

Update log: The table below shows changes & corrections made to chapters of the EMEP/EEA Air Pollutant Emission Inventory Guidebook 2019
[EMEP/EEA air pollutant emission inventory guidebook 2019](#)

Log list from October 2019 represent major changes between the last 2016 published version and the launch of the 2019 one.

13-Dec-21

Date	NFR	Chapter title	Table no.	Type	Description of change
2019 GB update	General chapter	2. Key Category analysis and methodological choice			General update for calculating key categories
2019 GB update	General chapter	3. Data collection			Update and alignment with the 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories
2019 GB update	General chapter	4. Time series consistency			
2019 GB update	General chapter	5. Uncertainties			
2019 GB update	General chapter	6. Inventory management, improvement and QA/QC			
2019 GB update	General chapter	7. Spatial mapping of emission			Update of guidance, information sources
2019 GB update	General chapter	8. Projections			Refinement and improved guidance and methodology to estimate projections (results from a DG ENV funded project)
2019 GB update	1.A.1	Energy Industry			Updated Emission Factors from CONCAWE
2019 GB update	1.A.3.b	Road transport			Refinement in chapter structure and updated NH3 EF in Table 3-7
2019 GB update	1.A.3.b.v	Gasoline evaporation			Refinement and improvements
2019 GB update	1.A.4	Small Combustion			Improved differentiation for PM emission factors concerning inclusion of condensables
2019 GB update	1.B.2.c	Venting and flaring			New Tier 2 Emission Factors
2019 GB update	2.A.5.a	Quarrying and mining			New methodology and new spreadsheet calculation tool
2019 GB update	2.D.3.a	Domestic solvent use of fungicides			Removed Hg EF from Table 3-1 and Table 3-6
2019 GB update	2.D.3.g	Chemical products			New PAH EF in Table 3-8, 3-9 and 3-10
2019 GB update	2.D.3.i, 2.G	Other solvent and product use			New table 3-12 (deicing) and table renumbering
2019 GB update	3.B	Manure management			Improved methodology for a consistent N-flow approach within the Agriculture sector. Improved emission factors and new supporting spreadsheet tool
2019 GB update	3.D	Agricultural soils			
2019 GB update	3.D.f, 3. l	Use of pesticides and limestone			Refinement and improved emission factors
2019 GB update	5.B.2	Anaerobic digestion at biogas facilities			Improved methodology to be consistent with the N-flow from the Agricultural sector
17 Dec. 2019	3.B	Manure management			Minor errors found in the chapter. Removed from the website until errors fixed. Spreadsheet tool removed accordingly.
03 Feb. 2020	3.B	Manure management			Fixing of errors in the chapter and E.F. in Table 3.9
10 Feb. 2020	3.B	Manure management			Fixing in N2O grazing calculation and additional guidelines in the Guidance sheet
06 Nov. 2020	1.A.3.a	Aviation			Updated Annex 5 - LTO Emission calculator
	1.A.3.d	Navigation			Small refinements to chapter. New PAH EFs plus updated HMs EFs
	1.A.3.b	Road Transport			Refinement in chapter. Addition of PHEV vehicles, Hybrid buses, and related Efs. Update of EURO6 categories. Addition, changes in Tier 2 EFs
	5.C.2	Open burning of waste			PAHs EFs correction and harmonization with 3F.
13 Jan 2021	3.B	Manure management			Correction in the N-flow tool. In the formulas in the row labelled "mex-house_solid_TAN" (row 57 for dairy cattle, row 54 for other livestock types). E.g. for Sheep the equation has gone from =H35-(H47+(H50*H53)) to =IF(H35-(H47+(H50*H53)) <0, 0, H35-(H47+(H50*H53)))
27 Oct. 2021	1.A.3.b	Road transport			Added a section on solid particle number + Hot Parameters updated file
13 Dec. 2021	1.A.3.d	Navigation			Updated chapter and new Tier 1 and Tier 2 EF