

IIR under the LRTAP Convention

Executive Summary

Updated as of February 2021.

This Informative Inventory Report provides a complete and comprehensive description of the methodology guiding the development of the inventory of emissions resulting from industrial processes, agricultural activities and waste disposal within the European territory of Russia (ETR) in 2019.

The ETR includes 58 regions of the Russian Federation located in 5 Federal Districts, such as: Central, North-Western, Southern, North-Caucasian and Volga.

The 2021 reporting includes provision of the national emission inventory according to the Nomenclature for Reporting (NFR) in the NFR 2019-1 format for the ten years period from 2010 to 2019.

This inventory is based on national statistics data regarding emissions of sulfur compounds (SO_x), nitrogen oxides (NO_x), carbon monoxide (CO), ammonia (NH₃), non-methane volatile organic compounds (NMVOC) and particulate matter (TSP) from both stationary and mobile sources.

Emissions from the sources that are not taken into account by the national statistics were estimated based on the EMEP/EEA Air Pollutant Emission Inventory Guidebook. For the 2019 reporting year, the emissions of pollutants were calculated in accordance with the methodology of the 2016 EMEP/EEA Air Pollutant Emission Inventory Guidebook for the first time.

The report has contained information about recalculations of emissions for 2018 year from categories 1A1a, 1A1c, 1A2a, 1A2b, 1A2c, 1A2e, 1A2gvii, 1A2gviii, 1A3ei, 1A4ci, 1A4ciii, 1B1a, 1B2c, 2A5a, 2A5b, 2A6, 2D3g, 2D3h, 2H1, 2I, 5A, 5D1, 5D2 (section 8).

At present, no approved guidance document/standard for developing an inventory of PM_{2.5} / PM₁₀ emissions is available at the national level in the Russian Federation. Emissions of total solid particles (particulate matter) without fractioning are only subject to assessment and accounting for. Emissions of condensable particles are taken into account as a part of TSP as well. Therefore, the estimates of PM emissions by the source categories based on national statistics take into account both filtered and condensable matter.

As of today, it appears unfeasible to make a complete list of emission sources for the condensable PM_{2.5} / PM₁₀.

This report estimates the condensable particles as a part of PM_{2.5} / PM₁₀ for one single category: 1A4cii "Agriculture / Forestry / Fisheries: Off-Road Vehicles and Other Mechanisms" (*Agriculture / Forestry / Fishing: Off-road vehicles and other machinery*) based on the 2016 EMEP/EEA Guidebook.

This report was prepared in accordance with the Guidelines for reporting on emissions and projections data under the Convention on Long-range Transboundary Air Pollution (ECE/EB.AIR/125).