Explanation of Key Trends - Fine Particulate Matter (PM$_{10}$)
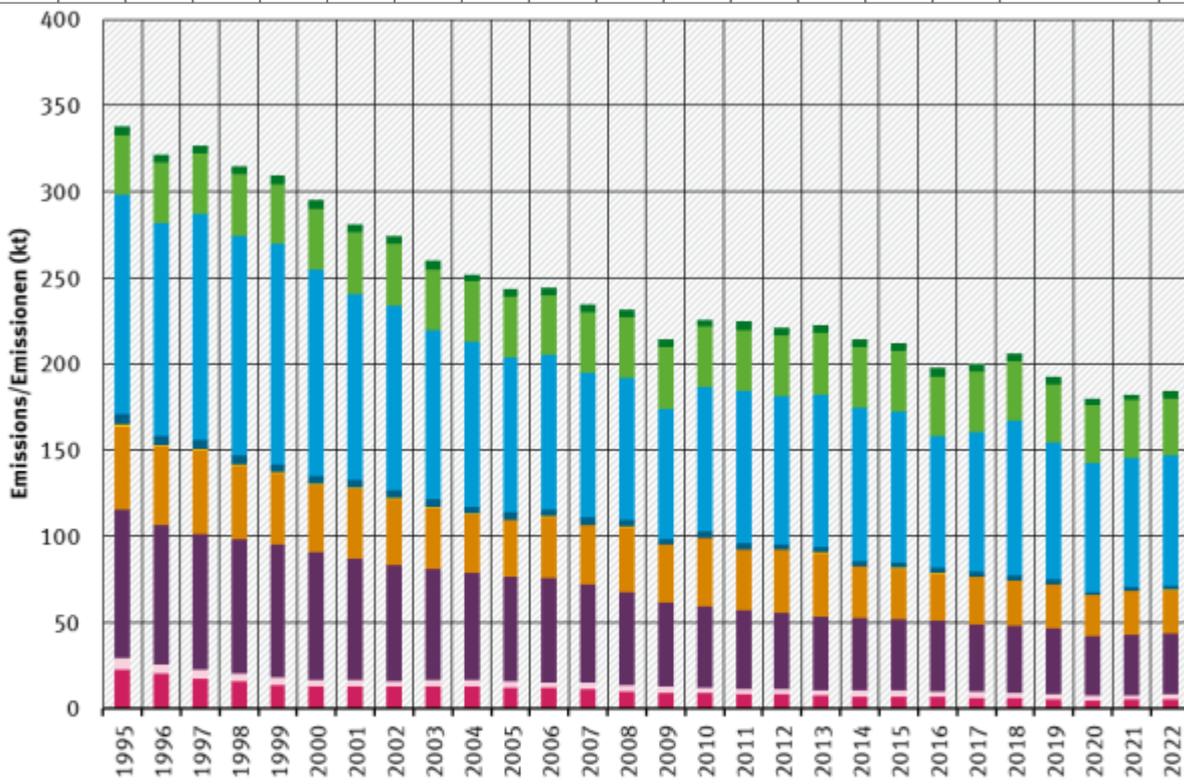
Main drivers

Between 1995 and 2021 the **total PM$_{10}$ emissions dropped by 47.1%**. The Main Drivers for PMsub>10</sub> emissions are **Fuel Combustion (NFR 1.A)** with 48% of total 1995 emissions and a 59% reduction between 1995 and 2021 and as a sum the **Industrial Processes (NFR 2)** (and especially **Handling of Bulk Products NFR 2.L** therein) with 40% of total 1995 emissions and a 44% reduction.

Within NFR 1.A, **Transport (NFR 1.A.3)** produces the biggest part of PM$_{10}$ emissions. Here, about three quarters of the 2021 Transport PM$_{10}$ emissions are produced by **Road Transport (NFR 1.A.3.b)**, half of which is directly caused by **fuel combustion (NFR 1.A.3.b.i - iv)** and the other half by **road abrasion and tyre and brake wear (NFR 1.A.3.b.vi - vii)**.

Table: PM$_{10}$ Emissions 1990-2021

Total Emissions (kt)															Trend: latest compared to	
1995	2000	2005	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	1995	last years
347	303	249	228	228	224	226	218	216	201	203	209	195	182	184	☒ -47.4%	☒

PM$_{10}$ trend by sector

Fine Particulate Matter / Feinstaub (PM10)

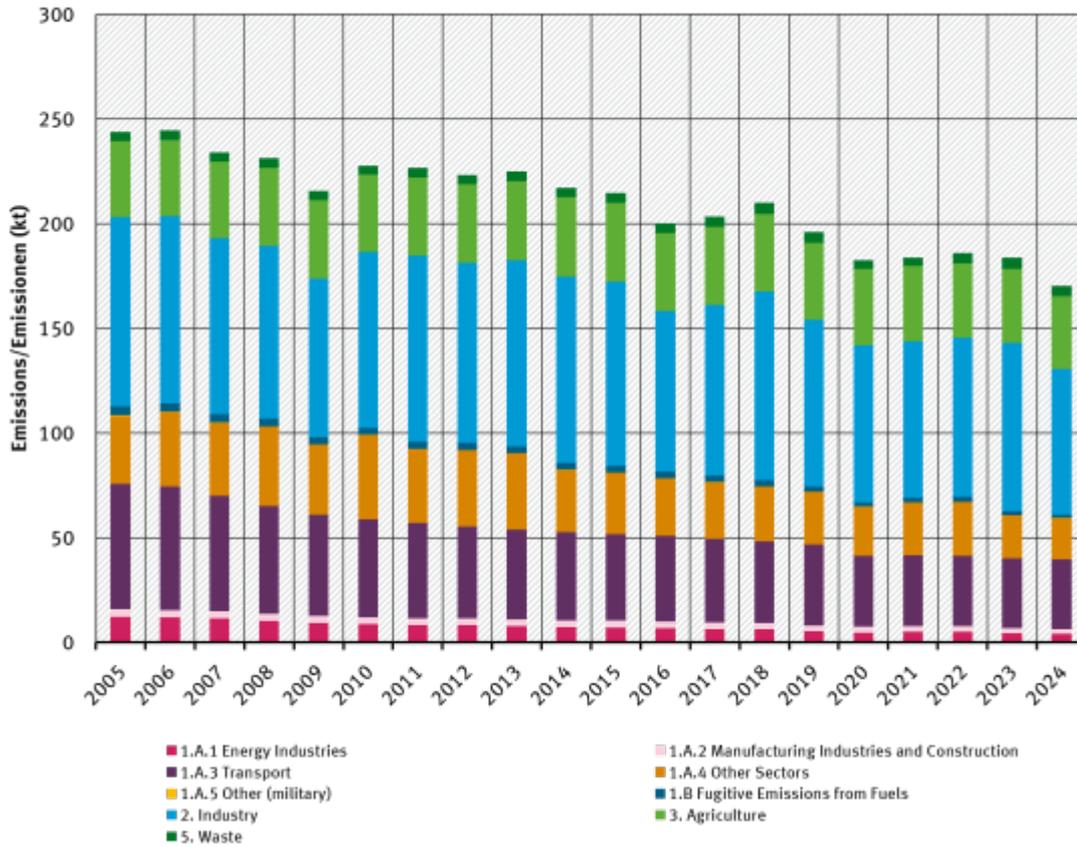**Emissions per Sector / Sektorale Emissionen**

Legend:
- 1.A.1 Energy Industries
- 1.A.2 Manufacturing Industries and Construction
- 1.A.3 Transport
- 1.A.4 Other Sectors
- 1.A.5 Other (military)
- 1.B Fugitive Emissions from Fuels
- 2. Industry
- 3. Agriculture
- 5. Waste

Quelle: German Emission Inventory (04.02.2026)

PM₁₀ trend by sector, from 2005