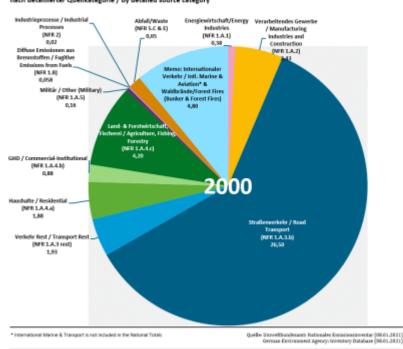
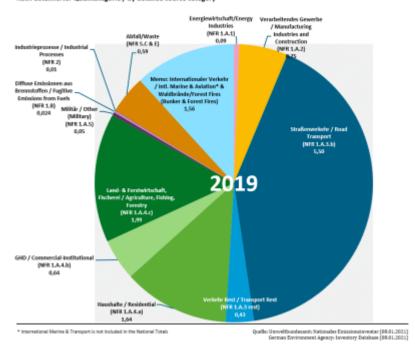
Emission Trends BC

Germany reports Black Carbon (BC) emissions for all years from 2000 onward. The main sources are transport as well as mobile and stationary combustion. Germany uses the EMEP/EEA 2016 Guidebook to estimate BC emissions, augmented by some country specific emission factors, i.e. split factors for the BC portion of PM2.5, in particular in road transport. The following figure provides an overview on the sources and their respective contribution to the German national total.

Black-Carbon-Emissionen in Deutschland / Black Carbon Emissions in Germany nach detaillierter Quellkategorie / by detailed source category



Black-Carbon-Emissionen in Deutschland / Black Carbon Emissions in Germany



nach detaillierter Quellkategorie / by detailed source category

Main drivers

Total Black Carbon emissions dropped by 70.0% between 2000 and 2019. The main drivers are the transport emissions

(NFR 1.A.3) with 73% of total 2000 emissions, and a 79% reduction between 2000 and 2019. Over the whole time series, 90% of the transport emissions come from **Road Transport (NFR 1.A.3.b)**. The overlying trend towards more diesel cars in the German fleet slowed the decrease in emission over this period (see figure below). 18% of the 2000 total emissions are from **Other Sectors (NFR 1.A.4)**, mostly from residential stationary combustion and mobile sources therein, with a 39% reduction between 2000 and 2019.

Diesel vs. Gasoline activity data



Total Emissions (kt) Trend: latest compared to 2000 2005 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 1995 last years 39 32 20 19 17 16 15 14 12 12 2-70.0% 23 21 М 45 40 35 Emissions/Emissionen (kt) 30 25 20 15 10 5 0 2015 7007 7003 2005 7006 2001 700g 700g 2070 2017 2013 2013 2014 2076 2013 2078 2029 2020 7000 2002 2004 ⁷027 702) 1.A.1 Energy Industries 1.A.2 Manufacturing Industries and Construction 1.A.3 Transport 1.A.4 Other Sectors 1.B Fugitive Emissions from Fuels 1.A.5 Other (military) 2. Industry Agriculture 5. Waste

Black Carbon Emissions 1990-2019

Black Carbon emissions from 2000 / Black Carbon Emissionen erst ab 2000

Quelle: German Emission Inventory (26.04.2024)

BC trend by sector