

Explanation of Key Trends - Ammonia

Obligations

Germany has made a commitment under the Gothenburg Protocol to reduce ammonia emissions. Since 2010, it is no longer permissible to exceed a National Emission Ceiling of 550 kt NH₃ for Germany as whole. The revised Gothenburg Protocol and the revised NEC Directive both define emission reduction targets relative to a 2005 base year, mandating 5% (2020) and 29% (2030) reductions respectively.

While Germany's compliance with these obligations is not discussed here, further information on this subject can be found in [Chapter 9 - Projections](#) and [Chapter 11 - Adjustments and Emission Ceiling Exceedance](#).

Main drivers

The Main Drivers for NH₃ emissions are agricultural emissions from **Manure Management (NFR 3.B)** with 36% of total 1990 emissions and a 37% reduction between 1990-2024 and **Agricultural Soils (NFR 3.D)** with even 59% of total 1990 emissions and a 33% decrease.

The overall emission trend follows the agricultural emissions closely with a **total reduction of 32% since 1990**.

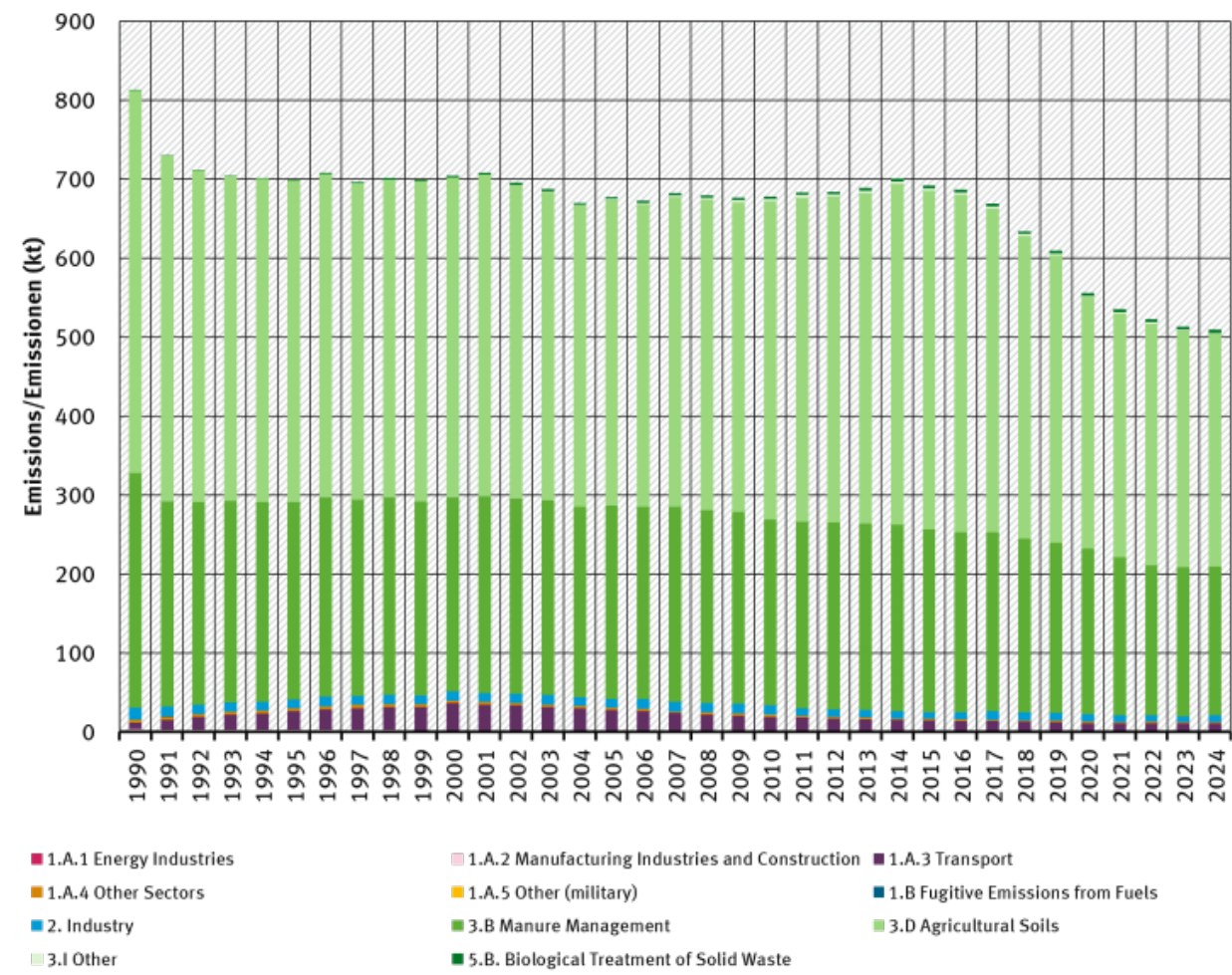
The decrease of NH₃ emission in the year 1991 is due to a reduced livestock population that followed after the German reunification, while no explicit trend is discernible for the years up to 2016. Between 2016 and 2021 the emissions are dropping every year adding up to a 15% drop. Here, emissions dropped by 6.9% between 2019 and 2020, an decrease only topped by the reduction between 1990 and 1991 (minus 10%).

Table: Ammonia emissions 1990-2024, in kilotonnes [kt]

															Trend: latest compared to	
1990	1995	2000	2005	2010	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	1990	previous year
827	714	720	693	693	708	703	686	651	627	574	554	541	532	528	-36.2%	-0.7%

Ammonia / Ammoniak

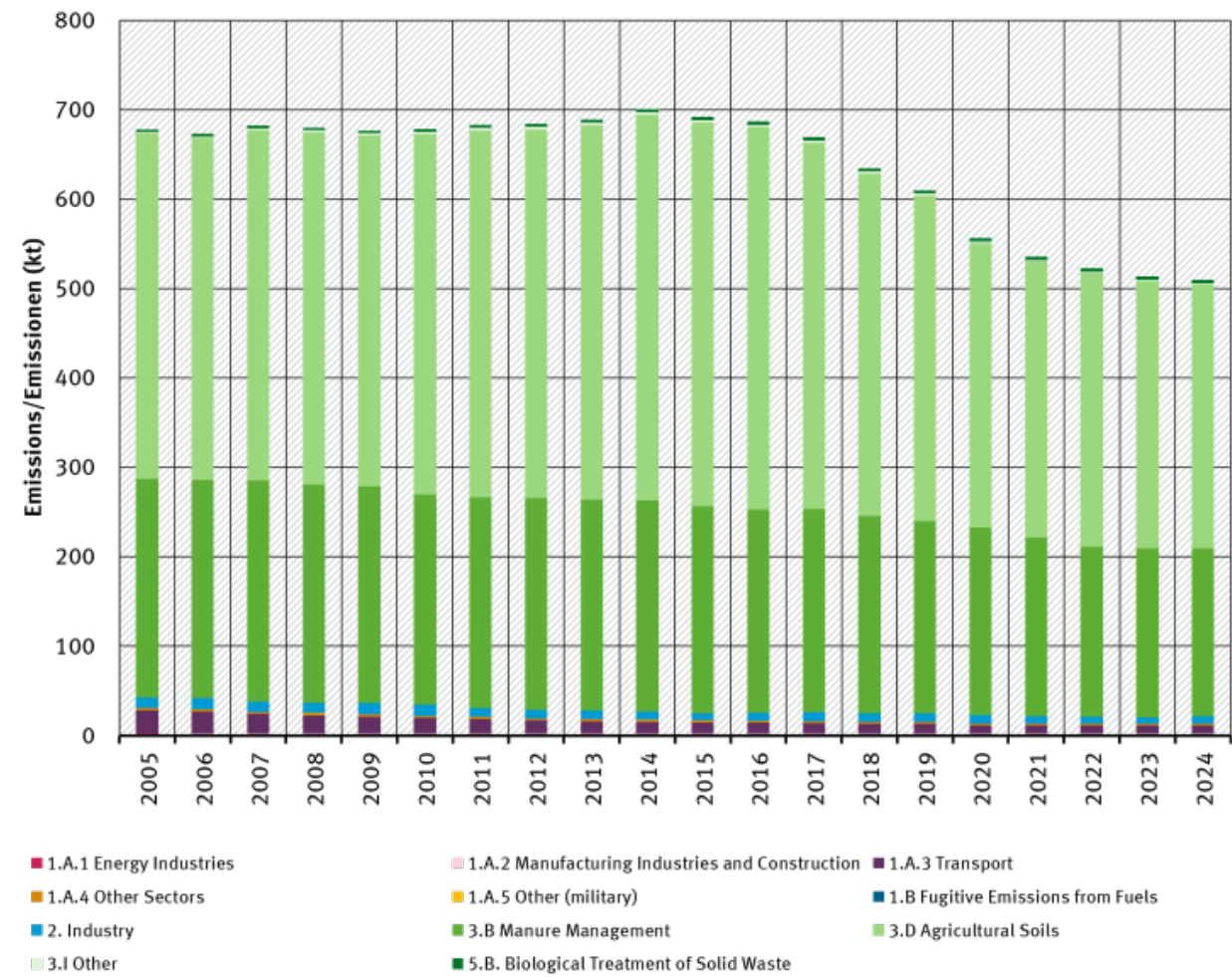
Emissions per Sector / Sektorale Emissionen



Quelle: German Emission Inventory (04.02.2026)

Ammonia / Ammoniak

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