

# Explanation of Key Trends - Carbon Monoxide

## Main drivers

**CO total emissions** show a falling trend over the whole interval, with emission **reductions of 80.9 %** between 1990 and 2022 and a renewed interval of emission reductions in the last years.

The Main Driver for CO emissions is **Fuel Combustion (NFR 1.A)** with 90% of total 1990 emissions and an 85% reduction between 1990 and 2022. In the Fuel Combustion category, **Road Transport (NFR 1.A.3.b)** is responsible for 57% of the 1990 emissions, with **Passenger Cars (NFR 1.A.3.b.i)** emitting nearly all of it. Reductions of about 90% in those categories between 1990 and 2022 are mainly due to constantly improving fuels and increasingly stricter regulations resulting in technical improvements.

**Other Sectors (NFR 1.A.4**, including commercial/institutional and residential sources) are responsible for about 27% of 1990 Fuel Combustion emissions with a 81% reduction between 1990 and 2022.

Table: Carbon monoxide emissions 1990-2022, in kilotonnes [kt]

|        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | Trend: latest compared to |               |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------|---------------|
| 1990   | 1995  | 2000  | 2005  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  | 2019  | 2020  | 2021  | 2022  | 1990                      | previous year |
| 13.320 | 7.188 | 5.097 | 3.790 | 3.588 | 3.459 | 3.360 | 3.344 | 3.129 | 3.171 | 3.042 | 3.021 | 2.917 | 2.828 | 2.469 | 2.596 | 2.539 | -80.9%                    | -2.2%         |



