Pollution

Emissions of atmospheric pollutants	u.m.	2025	2024**
Total pollutants in air*	t	**282.22**	250.48
Sulphur dioxide (SO2)		0.28	0.23
Nitrogen oxides (NOx)		127.18	100.71
Volatile organic compounds (VOC)		141.67	138.45
Particulate Matter (PM10)		13.09	11.09

Air pollution

*Emission factors used for the conversion of fuels into NOx: methane gas 0.0166 tNOx /TJ; LPG 0.0229 tNOx /TJ; diesel for cars 0.2151 tNOx/TJ, for light commercial vehicles 0.26 tNOx /TJ, for heavy trucks 0.2523 tNOx/TJ; petrol for cars 0.0428 tNOx /TJ, for light commercial vehicles 0.04 tNOx /TJ, for motorcycles 0.0583 tNOx /TJ. Emission factors used for the conversion of fuels into SO2: diesel 0.0003 tSO2 /TJ; petrol 0.0002 tSO2/TJ. Emission factors used for the conversion of fuels to VOCs: methane gas 0.0238 tVOC/TJ; LPG 0.0255 tVOC/TJ; diesel for passenger cars 0.0029 tVOC/TJ, for light commercial vehicles 0.0039 tVOC/TJ, heavy trucks 0.0093 tVOC/TJ; petrol for passenger cars 0.1858 tVOC/TJ, for light commercial vehicles 0.0979 tVOC/TJ, for motorbikes 0.5730 tVOC/TJ. Emission factors used for the conversion of fuels to PM10: methane gas 0.0103 tPM10/TJ; LPG 0.0096 tPM10/TJ; diesel fuel for passenger cars 0.0168 tPM10/ TJ, for light commercial vehicles 0.0161 tPM10/TJ, heavy trucks 0.0146 tPM10/TJ; petrol for passenger cars 0.0099 tPM10/TJ, for light commercial vehicles 0.0122 tPM10/TJ, for motorbikes 0.0164 tPM10/TJ. Source: ISPRA, database of average emission factors of road transport in Italy.

**The analysis of the carbon inventory for 2024, which led to a refinement of the methodology adopted for calculating consumption and emissions in E1, is reflected in the 2024 data update of E2-4.