

Short Lived Climate Pollutant HFC Emission Inventory*

Units of Million Metric Tons CO₂e (AR4 20-yr GWP)

Source	2000	2013	2020	2030
Commercial	4.1	15.4	19.3	25.3
Aerosols	1.96	0.61	0.32	0.35
Fire Protection	0.02	0.05	0.04	0.03
Foams	0.01	0.39	0.84	1.07
Refrigeration and Air Conditioning	2.11	14.31	18.05	23.86
Industrial	1.7	7.2	11.9	14.5
Aerosols	0.28	0.12	0.06	0.07
Fire Protection	0.01	0.01	0.01	0.01
Foams	0.05	2.11	6.46	8.26
Refrigeration and Air Conditioning	1.12	4.63	5.01	5.78
Solvents	0.26	0.32	0.34	0.37
Residential	4.6	8.3	12.7	18.1
Aerosols	4.61	4.18	3.24	3.50
Foams	0.01	0.74	1.16	1.52
Refrigeration and Air Conditioning	0.02	3.42	8.29	13.07
Transportation	5.4	9.2	8.4	7.3
Aerosols	2.63	0.58	0.30	0.33
Foams	0.00	0.01	0.18	0.23
Refrigeration and Air Conditioning	2.80	8.65	7.88	6.70
Total Emissions (MMTCO₂e)	15.9	40.1	52.2	65.1

*Includes nine short-lived hydrofluorocarbons: HFC-125, HFC-134a, HFC-143a, HFC-152a, HFC-227ea, HFC-245fa, HFC-32, HFC-365mfc, and HFC-43-10mee.