

## Short Lived Climate Pollutant HFC Emission Inventory\*

Units of Million Metric Tons CO<sub>2</sub>e (AR4 100-yr GWP)

Source	2000	2013	2020	2030
<b>Commercial</b>	<b>1.8</b>	<b>8.0</b>	<b>9.7</b>	<b>11.9</b>
Aerosols	0.72	0.21	0.11	0.12
Fire Protection	0.01	0.03	0.03	0.02
Foams	0.00	0.13	0.27	0.35
Refrigeration and Air Conditioning	1.10	7.59	9.27	11.39
<b>Industrial</b>	<b>0.7</b>	<b>3.1</b>	<b>4.5</b>	<b>5.4</b>
Aerosols	0.10	0.04	0.02	0.02
Fire Protection	0.00	0.01	0.01	0.01
Foams	0.01	0.73	2.03	2.60
Refrigeration and Air Conditioning	0.50	2.20	2.37	2.64
Solvents	0.08	0.10	0.11	0.12
<b>Residential</b>	<b>1.7</b>	<b>3.4</b>	<b>5.5</b>	<b>8.0</b>
Aerosols	1.69	1.49	1.20	1.30
Foams	0.00	0.26	0.38	0.50
Refrigeration and Air Conditioning	0.01	1.63	3.95	6.24
<b>Transportation</b>	<b>2.0</b>	<b>3.5</b>	<b>3.2</b>	<b>2.8</b>
Aerosols	0.98	0.22	0.11	0.12
Foams	0.00	0.00	0.06	0.07
Refrigeration and Air Conditioning	1.06	3.29	3.01	2.58
<b>Total Emissions (MMTCO<sub>2</sub>e)</b>	<b>6.3</b>	<b>17.9</b>	<b>22.9</b>	<b>28.1</b>

\*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.