



Ozone Depleting Substances

Per Fluorinated Compounds in tons CO2 equivalent

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
C2F6	303,388	344,224	316,873	271,851	336,911	279,181	281,044	204,650	191,902	190,753	141,692	124,321	129,039	57,284
CF4	136,038	155,600	143,197	109,568	130,032	146,767	176,444	182,609	199,433	214,911	170,016	157,091	165,255	123,418.5
CHF3	22,247	22,049	21,662	20,550	24,687	24,102	25,395	31,632	31,271	34,356	33,149	37,549	36,265	32,598.2
SF6	22,870	24,856	20,256	21,130	25,365	18,505	25,627	27,413	24,169	22,256	25,298	25,897	25,194	23,494.5
NF3	29,637	30,169	42,964	27,817	20,098	18,850	28,459	32,900	34,027	34,546	38,937	35,441	35,013	30,918.4
NF3 remote	12,618	13,045	11,787	5,862	8,109	9,753	9,105	9,612	12,125	12,607	11,868	8,833	9,118	8,516.6
C3F8	17,259	19,746	18,893	16,933	24,516	25,079	27,796	30,239	29,641	31,123	30,418	31,652	32,444	2,746.3
C4F8	3,478	3,352	3,388	3,153	4,167	5,136	6,505	7,378	7,332	9,260	8,534	8,322	7,671	9,521.3
C4F8O	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CH2F2	7	7	7	7	7	13	13	14	18	26	44	36	40	61.8
C4F6	19	19	19	19	19	56	242	242	372	391	377	349	466	0
C5F6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	547,561	613,067	579,046	476,890	573,911	527,442	580,630	526,689	530,290	550,229	460,332	429,492	440,507	288,566

N2O Emissions in tons CO2 equivalent

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
N2O					15,976	15,587	15,928	17,944	17,631	17,565	16,904	17,554	16,708	13,941

Heat Transfer Fluids tons CO2 equivalent

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
R-22								2,707	447	377	957	631	332	197
R-123								189	80	43	615	46	27	22
R402A								0	0	0	0	22	0	0
Pure HFCs														
R-134a								4,398	2,044	1,424	2,821	2,185	1,399	766
R-23								266	133	133	24	0	52	93
Mixtures HFCs														
R-404A								94	45	45	7	4,908	119	135
R-407C								0	35	0	0	0	0	0
R-410A								0	0	0	0	95	95	244
R-422D								0	0	0	0	0	0	0
Perfluorocarbons														
FC40								0	0	0	31,390	91,282	68,895	89,478
Mixtures polyfluoroethers														
FC3283								20,322	19,083	16,030	20,975	7,766	18,490	17,544
FC72								5	5	0	0	0	0	0
FC770								5	5	0	0	0	1	4
HFE7100								1,896	1,882	1,234	938	1,070	1,027	931
HFE7200								150	214	97	189	24	131	144
HFE7500								28	40	14	10	46	42	51
Galden HT 80								0	0	0	20	0	0	0
Galden HT 135								0	250	650	900	740	0	682
Galden HT 200								906	1,764	2,118	1,194	3,294	2,544	1,638
Galden HT 270								240	90	600	408	210	510	810
Galden ZT 130								0	0	0	0	0	0	0
Galden HT110								1,434	2,736	1,656	966	913	599	791
Galden D02TS								76,800	143,250	160,650	67,800	0	0	0
Galden PFS-2								630	560	490	630	740	490	280
Total								110,070	172,663	185,561	129,844	113,972	94,751	113,809

ODPs and non-ODPs emissions in kg

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
<i>Halogenated or Chlorinated Hydrocarbons (non-ODP) used in processes</i>														
HFC-32 (CAS 75-10-5)	13	17	0	0	0	0	0	0	0	0	0	0	0	0
HFC-41 (CAS 593-53-3)	22	32	0	0	0	0	0	0	0	0	0	0	0	20
<i>Non-ODP refrigerants for cooling systems e.g. air conditioning</i>														
HFC-32 (CAS 75-10-5)	8	0	0	0	0	0	0	0	0	0	0	0	0	0
HFC-41 (CAS 593-53-3)	17	0	0	0	0	0	0	0	0	0	0	0	0	0
HFC-134 (CAS 359-35-3)	216	21	74	0	0	0	0	0	0	0	51	51	52	40
HFC-134a (CAS 811-97-2)	3,092	5,458	2,274	1,978	2,062	1,429	1,950	510	1,428	738	2,428	616	1,360	450
<i>Ozone depleting substances (from cooling systems e.g. air conditioning)</i>														
HFC-22 (CAS 75-45-6)	197	197	197	197	197	98	1,887	1,158	24	24	362	405	60	32
HFC-123 (CAS 306-83-2)	498	316	316	316	316	136	0	182	182	0	0	91	45	0