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Eightieth Meeting
Montreal, 13 – 17 November 2017

Addendum

OVERALL ANALYSIS OF THE RESULTS OF THE SURVEYS OF ODS ALTERNATIVES (DECISION 79/43(c))

This document is being issued to:

- **Add** Annex I(bis): Information on consumption of non-HFC alternatives from ODS alternatives survey reports from 119 Article 5 countries as attached.

Annex I(bis)

INFORMATION ON CONSUMPTION OF NON-HFC ALTERNATIVES FROM ODS ALTERNATIVES SURVEY REPORTS FROM 119 ARTICLE 5 COUNTRIES

Particulars	Consumption in mt				Percentage (%) of consumption in sectors	Annual Growth rate (%)
	2012	2013	2014	2015		
RAC Sector						
Hydrocarbons[1]	6,088	8,141	9,159	9,394	41.4	15.6
Ammonia	8,092	7,359	8,899	9,176	40.5	4.3
CO_2	71	85	1,353	1,158	5.1	153.4
HFOs[2]	0	1	1	345	1.5	822.8
Others[4]	307	408	34	2,596	11.5	103.7
Total	**14,559**	**15,993**	**19,446**	**22,669**	**100.0**	**15.9**
Foam sector						
Hydrocarbons[1]	4,595	5,986	6,957	8,005	57.8	20.3
HFOs[2]	192	196	737	1,439	10.4	95.5
Others[4]	3,307	3,718	4,366	4,394	31.8	9.9
Total	**8,094**	**9,900**	**12,060**	**13,838**	**100.0**	19.6
Solvents						
Hydrocarbons[1]	6	6	6	4	0.1	-14.1
HFOs[2]	16	24	1	9	0.1	-15.5
PFCs[3]	0	0	0	0	0.0	-22.4
Others[4]	5,392	6,163	6,981	6,677	99.8	7.4
Total	**5,414**	**6,193**	**6,989**	**6,690**	**100.0**	7.3
Aerosols						
Hydrocarbons[1]	7,333	7,545	6,223	5,779	99.9	-7.6
Others[4]	4	4	5	5	0.1	14.5
Total	**7,336**	**7,549**	**6,228**	**5,784**	**100.0**	-7.6
Fire-fighting						
HFOs[2]	-	-	-	1	0.0	
Others[4]	9,446	10,734	11,482	9,861	100.0	1.4
Total	**9,446**	**10,734**	**11,482**	**9,862**	**100.0**	1.4
Substance						
Hydrocarbons[1]	18,022	21,677	22,346	23,183	39.4	8.8
Ammonia	8,092	7,359	8,899	9,176	15.6	4.3
HFOs[2]	209	221	740	1,793	3.0	104.9
PFCs[3]	0	0	0	0	0.0	
CO_2	71	85	1,353	1,158	2.0	153.4
Others[4]	18,455	21,028	22,868	23,533	40.0	8.4
Total	**44,849**	**50,370**	**56,206**	**58,843**	**100.0**	**9.5**
RAC Sector	14,559	15,993	19,446	22,669	38.5	15.9
Foam sector	8,094	9,900	12,060	13,838	23.5	19.6
Solvents	5,414	6,193	6,989	6,690	11.4	7.3

Particulars	Consumption in mt				Percentage (%) of consumption in sectors	Annual Growth rate (%)
	2012	2013	2014	2015		
Aerosols	7,336	7,549	6,228	5,784	9.8	-7.6
Fire-fighting	9,446	10,734	11,482	9,862	16.8	1.4
Total	**44,849**	**50,370**	**56,206**	**58,843**	**100.0**	**9.5**

Notes:
[1]Hydrocarbons include isobutane, pentanes (c,n,i) and other hydrocarbons.
[2]HFOs include HFO- 1234yf, 1234-ze, 1233zd, 1336-mzzm, 1336-mzz-Z, 1330-mee.
[3]PFCs include PFC-218, 552, 662 and reported consumption is very low.
[4]Others include a range of chlorinated chemicals, and other non-HFC chemicals.