

Annex IV
List of new projects approved as eligible for funding

(A) INVESTMENT PROJECT

Country	Project Title	Tonnes ODP	Agency	Funds Approved (US\$)			C.E. (US\$/kg)
				Project	Support	Total	
Aerosol Hydrocarbon							
Kenya	Phase out CFCs at Aesthetics Ltd.	107	UNIDO	\$55,000	\$7,150	\$62,150	0.51
Kenya	Phasing out CFCs at Mirage Industries Ltd.	51	UNIDO	\$47,250	\$6,143	\$53,393	0.93
Lebanon	Investment project for phasing out CFCs at Zeeni's Trading Agency	212	UNIDO	\$361,900	\$47,047	\$408,947	1.71
Lebanon	Investment project for phasing out CFCs at Cosmaline Industries s.a.al.	87.7	UNIDO	\$212,500	\$27,625	\$240,125	2.42
Tunisia	Phasing out CFCs at Jasminal Laboratories	86	UNIDO	\$210,000	\$27,300	\$237,300	2.44
Syria	Phasing out CFCs at Gaston Banna & Sons Co.	104	UNIDO	\$299,500	\$38,935	\$338,435	2.88
Tunisia	Phasing out CFCs at Satem Parfums et Produits Cosmetiques	29	UNIDO	\$119,500	\$15,535	\$135,035	4.12
Malaysia	Umbrella project to phase out ODS at SMEs in the aerosol sector	250	UNDP	\$1,486,660	\$193,266	\$1,679,926	5.95
Foam Flexible polyurethane							
Cote D'Ivoire	Phasing out CFC-11 at F.I.M.A. flexible polyurethane foam plant	53.1	UNIDO	\$85,087	\$11,061	\$96,148	1.6
Malaysia	Conversion to CFC-free technology for the manufacture of flexible polyurethane foam at Nite Beauty Industries	10	UNDP	\$36,875	\$4,794	\$41,669	3.69
Sudan	Phasing out of CFC-11 at Patra Foam Co. flexible polyurethane foam plant	16	UNIDO	\$72,227	\$9,390	\$81,617	4.52
Syria	Phasing out CFC-11 at Dakkak Co. flexible polyurethane foam plant	17	UNIDO	\$96,553	\$12,552	\$109,105	5.68
General							
Malaysia	Conversion to CFC -free technology for the manufacture of flexible polyurethane foam at Far East Foam Industries	41	UNDP	\$209,000	\$27,170	\$236,170	5.1
Integral skin							
Tunisia	Phasing out CFC-11 at Meublatex	28	UNIDO	\$105,000	\$13,650	\$118,650	3.39

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Country	Project Title	Tonnes ODP	Agency	Funds Approved (US\$)			C.E. (US\$/kg)
				Project	Support	Total	
India	Phase out of CFCs in the manufacture of cold cured molded PUF products at Autofit P., Ltd.	20	UNDP	\$103,125	\$13,406	\$116,531	5.16
India	Phase out of CFCs in the manufacture of cold cured molded and integral skin PUF products at Kaygee Foams P., Ltd.	32.96	UNDP	\$217,250	\$28,243	\$245,493	6.59
Indonesia	Investment project for phasing out ODS at PT Naviri Kencana Perdana	47.8	UNIDO	\$377,382	\$49,060	\$426,442	7.9
India	Phase out of the CFCs in the manufacture of cold cured molded and integral skin PUF products at Preto Foams	11.45	UNDP	\$167,100	\$21,723	\$188,823	14.59
Brazil	Umbrella project covering 6 companies for the conversion to CFC-free technology in the manufacture of integral rigid skin and flexible molded polyurethane foam (Rorispuma, Indek, Flexfom, Walrod, Rigiline, Magalhaes)	51.78	UNDP	\$746,000	\$96,980	\$842,980	15.05

Rigid polyurethane

Mexico	the manufacture of insulated construction panels and doors at Multypanel	306	UNDP	\$428,000	\$55,640	\$483,640	1.4
India	Phase out of CFCs in the manufacture of rigid PUF insulated thermoware at Bharat Plastic Products	24.97	UNDP	\$96,000	\$12,480	\$108,480	3.84
India	Phase out of CFCs in the manufacture of rigid PUF products in Inalsa Ltd.	28.88	UNDP	\$123,000	\$15,990	\$138,990	4.26
India	Phase out of CFCs in the manufacture of rigid PUF insulated thermoware at Mahavir Enterprises	19.41	UNDP	\$94,500	\$12,285	\$106,785	4.87
India	Phase out of CFCs in the manufacture of rigid PUF products at Omkar PUF Insulation	10.62	UNDP	\$59,000	\$7,670	\$66,670	5.56
Malaysia	Elimination of CFC-11 in the manufacture of polyurethane cold-room insulation panels/truck container panels at Kejuruteraan Transfreeze Sdn Bhd	11.4	IBRD	\$71,500	\$9,295	\$80,795	6.27
Malaysia	Elimination of CFC-11 in the manufacture of polyurethane refrigerator panels at Penang Trading Co.	10.5	IBRD	\$71,500	\$9,295	\$80,795	6.81

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Country	Project Title	Tonnes ODP	Agency	Funds Approved (US\$)		C.E. (US\$/kg)
				Project	Support	
Thailand	Phase out of the use of CFCs in the manufacture of rigid PUR foam for thermoware at Raengwa Standard Industry Co. Ltd.	25.0	UNDP	\$181,500	\$23,595	\$205,095 7.26
Multi-sector						
Chile	Montreal Protocol implementation programme - phase II	400	IBRD	\$1,000,000	\$130,000	\$1,130,000 2.5
Refrigeration Commercial						
Philippines	Umbrella project covering 3 companies for conversion from CFC-11 used as foam blowing agent into HCFC-141b, and CFC-12 and R-502 used as refrigerant into HFC-134a and HFC-404a (Gomeco, Chee Puck, Well Built)	28	UNDP	\$156,475	\$20,342	\$176,817 5.59
Brazil	Elimination of CFC-11 and CFC-12 in the production of commercial refrigeration equipment at Reubli, S.A.	89.9	IBRD	\$901,270	\$117,165	\$1,018,435 10.02
India	Elimination of CFCs in the manufacture of commercial refrigeration equipment at Rockwell Devices P., Ltd.	18	IBRD	\$181,004	\$23,531	\$204,535 10.6
India	Elimination of CFCs in the manufacture of commercial refrigeration equipment at Rabi-Run Refrigeration P., Ltd.	14	IBRD	\$142,622	\$18,541	\$161,163 10.83
India	Elimination of CFCs in the manufacture of commercial refrigeration equipment at Sethia Appliances P., Ltd.	16	IBRD	\$173,384	\$22,540	\$195,924 11.38
Turkey	elimination of ODS used in the production of freezers, coolers, ice makers, and ice cream machines at UGUR Makinalari Sanayi ve Ticaret, A.S.	64.6	IBRD	\$1,116,455	\$145,139	\$1,261,594 11.73
India	Elimination of CFCs in the manufacture of commercial refrigeration equipment at Seepira Refrigeration P., Ltd.	15	IBRD	\$171,910	\$22,348	\$194,258 12.12

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Country	Project Title	Tonnes ODP	Agency	Funds Approved (US\$)			C.E. (US\$/kg)
				Project	Support	Total	
India	Elimination of CFCs in the manufacture of commercial refrigeration equipment at Shakti Fabricators	13.5	IBRD	\$159,230	\$20,700	\$179,930	12.43
India	Elimination of CFCs in the manufacture of commercial refrigeration equipment at Chandra Frig Co. P., Ltd.	9.9	IBRD	\$130,984	\$17,028	\$148,012	13.98
Venezuela	the manufacture of bottle coolers, freezers and water coolers at Tecoven, C.A.	13.16	UNDP	\$190,000	\$24,700	\$214,700	14.44
Venezuela	the manufacture of bottle coolers, freezers and water coolers at Hielomatic, C.A.	11.12	UNDP	\$162,375	\$21,109	\$183,484	14.6
Peru	Elimination of CFC-11 and CFC-12 in the manufacture of chest freezers at Master Service, S.A.	9.44	UNDP	\$140,000	\$18,200	\$158,200	14.83
Venezuela	Elimination of CFC-11 and CFC-12 in the manufacture of refrigerated display cases and bottle coolers at Neve Industrial, C.A.	7.54	UNDP	\$112,100	\$14,573	\$126,673	14.87
Peru	the manufacture of chest freezers at Col-Frio	11.7	UNDP	\$175,000	\$22,750	\$197,750	14.96
Peru	Elimination of CFC-11 and CFC-12 in the manufacture of chest freezers at Compañía Peruana de Máquinas para Coser S.A. (Copemaco)	12.9	UNDP	\$193,834	\$25,198	\$219,032	15.03
Colombia	Elimination of CFC-11 and 12 in the manufacture of commercial refrigeration equipment at Refrigeracion Supernordico Ltda.	10.77	UNDP	\$162,500	\$21,125	\$183,625	15.09
Peru	Elimination of CFC-11 and CFC-12 in the manufacture of chest freezers and refrigerators at Formetal	7.8	UNDP	\$118,000	\$15,340	\$133,340	15.13
Romania	Conversion of commercial refrigeration equipment to phase out CFC-12, HCFC-502 and CFC-11 at Tehnofrig S.A.	20	UNIDO	\$297,768	\$38,710	\$336,478	15.2
Argentina	Elimination of the use of CFC's in the manufacture of display cabinet and walk-in freezers at Disthel	10	UNDP	\$196,000	\$25,480	\$221,480	15.21

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Country	Project Title	Tonnes ODP	Agency	Project	Funds Approved (US\$)	Support	Total	C.E. (US\$/kg)
Domestic								
China	Conversion of manufacturing facilities from CFC11 foaming agent to cyclopentane at Huayi	170	IBRD	\$972,490	\$126,424	\$1,098,914	8.88	
Pakistan	Conversion of refrigerator manufacture from CFC-11 to cyclopentane foam blowing agent and CFC-12 to R-134a refrigerant at Domestic Appliances Ltd.	17.1	IBRD	\$257,650	\$33,495	\$291,145	9	
Philippines	Elimination of CFC-12 in the manufacture of household refrigerators at Philacor, Concepcion, Sanyo and Trans-Union Corp.	80	IBRD	\$952,000	\$123,760	\$1,075,760	11.9	
Argentina	Elimination of CFCs in the manufacturing plants of domestic refrigerators of Frimetel, Rosario	89.7	IBRD	\$1,855,000	\$241,150	\$2,096,150	13.44	
Sudan	Phasing out of ODS at three small domestic refrigerator factories in Sudan (Coldair Refrigerator Factory, Modern refrigerator & Metal furniture Co., Sheet Metal Industries Co. Refrigerator Factory)	7.28	UNIDO	\$100,000	\$13,000	\$113,000	13.74	
Solvent								
Mixed								
Philippines	Elimination of the use of CFC-113, 1,1,1 trichloroethane (TCA), CFC-11 and CFC-12 at multiple corporations that manufacture special formulations for various industrial markets	53.6	UNDP	\$642,800	\$83,564	\$726,364	11.99	
India	Conversion of electronic cleaning processes from ODS solvents to semi-aqueous cleaning and no-clean soldering technologies at ITI, Bangalore	6.97	UNIDO	\$107,954	\$14,034	\$121,988	15.48	
Total		2,900.6		\$ 16,901,714	\$ 2,197,226	\$ 19,098,940		

(B) LOW-ODS CONSUMING COUNTRY

Country	Project Title	Tonnes ODP	Agency	Funds Approved (US\$)			C.E. (US\$/kg)
				Project	Support	Total	
Foam							
Flexible polyurethane							
Central African Republic	Continuation of conversion to CFC-free technology in manufacturing of flexible polyurethane foam at Vita-Centrafrigue	1.7	UNDP	\$62,000	\$8,060	\$70,060	36.5
Refrigeration							
Domestic							
Uruguay	Completing the elimination of CFC use in domestic refrigeration manufacturing - adoption of HCFC-141b as blowing agent and HFC-134a as refrigerant at Nevol S.A.	4.62	IBRD	\$141,512	\$18,397	\$159,909	30.6
Total		6.3		\$ 203,512	\$ 26,457	\$ 229,969	

(C) MAC AND COMPRESSOR

Country	Project Title	Tonnes ODP	Agency	Funds Approved (US\$)			C.E. (US\$/kg)
				Project	Support	Total	

Refrigeration

Compressor

China	Phasing out ODS at the X'ian Yuan Dong Compressor Co., Xi'an		UNIDO	\$1,599,000	\$207,870	\$1,806,870	
		Total		\$1,599,000	\$207,870	\$1,806,870	

(D) CFC RECYCLING AND HALON BANKING

Country	Project Title	Tonnes ODP	Agency	Funds Approved (US\$)			C.E. (US\$/kg)
				Project	Support	Total	
Refrigeration							
Malawi	Implementation of a national programme for recovery and recycling of refrigerant	7.2	UNDP	\$106,320	\$13,822	\$120,142	
Peru	Implementation of a national programme for recovery and recycling of refrigerant	28.6	UNDP	\$342,695	\$44,550	\$387,245	
Uganda	Implementation of a national programme for recovery and recycling of refrigerant	3.6	UNDP	\$56,000	\$7,280	\$63,280	
Zambia	Implementation of a national programme for recovery and recycling of refrigerant	7.2	UNDP	\$106,320	\$13,822	\$120,142	
Total		46.6		\$ 611,335	\$ 79,474	\$ 690,809	

Summary of new projects recommended for approval

Sector	Tonnes ODP	Funds Approved (US\$)		
		Project	Support	Total
(A) INVESTMENT PROJECT				
Aerosol	926.7	\$2,792,310	\$363,000	\$3,155,310
Foam	765.9	\$3,340,599	\$434,278	\$3,774,877
Multi-sector	400	\$1,000,000	\$130,000	\$1,130,000
Refrigeration	747.4	\$9,018,051	\$1,172,347	\$10,190,398
Solvent	60.6	\$750,754	\$97,598	\$848,352
TOTAL:	2,900.60	\$16,901,714	\$2,197,223	\$19,098,937
(B) LOW-ODS CONSUMING COUNTRY				
Foam	1.7	\$62,000	\$8,060	\$70,060
Refrigeration	4.6	\$141,512	\$18,397	\$159,909
TOTAL:	6.3	\$203,512	\$26,457	\$229,969
(C) MAC AND COMPRESSOR				
Refrigeration		\$1,599,000	\$207,870	\$1,806,870
TOTAL:		\$1,599,000	\$207,870	\$1,806,870
(D) CFC RECYCLING AND HALON BANKING				
Refrigeration	46.6	\$611,335	\$79,474	\$690,809
TOTAL:	46.6	\$611,335	\$79,474	\$690,809
GRAND TOTAL:	2953.5	\$19,315,561	\$2,511,023	\$21,826,584

Distribution by Implementing Agency

IBRD	1,024.2	\$8,298,511	\$1,078,806	\$9,377,317
UNDP	1,056.4	\$6,870,429	\$893,156	\$7,763,585
UNIDO	872.9	\$4,146,621	\$539,061	\$4,685,682