



United Nations Environment Programme



Distr.
LIMITED



UNEP/OzL.Pro/ExCom/11/9
5 October 1993

ORIGINAL: ENGLISH

Executive Committee of
the Multilateral Fund for the
Implementation of the Montreal Protocol

Eleventh Meeting
Bangkok, 10-12 November 1993

CONSOLIDATED PROGRESS REPORT (as at September 1993)

INTRODUCTION

This Consolidated Progress Report presents an update of Fund-supported activities as at the end of September 1993. This Report incorporates inputs from the implementing agencies and Parties reporting bilateral assistance programmes.

The Report is divided in two sections:

Section I: Overview on status of implementation of the projects and other activities approved; and

Section II: Consist of the following two parts:

- Part I: Information on implementation of projects and activities by agency; and
- Part II: Status of bilateral activities.

Individual reports reflecting the progress of the activities of each implementing agency are provided separately in documents UNEP/OzL.Pro/ExCom/11/10, 11/11, 11/12, and 11/13, along with comments of the Fund Secretariat where applicable. The status report on US bilateral activities is included in the document on "Request for bilateral contributions" (UNEP/OzL.Pro/ExCom/11/6).

Section II presents information concerning the Executive Committee meeting at which the activity was approved and the funds that were allocated; the estimated amount of ODS to be phased-out when the project is implemented; the actual disbursements to the beneficiary country; the time required to implement the project; and the status of implementation of the activity.

SECTION I:

OVERVIEW

Since the establishment of the Fund, the Executive Committee has approved over 340 activities in 44 Article 5 countries, including 76 investment projects, 51 technical assistance programmes and 9 demonstration projects. More than US \$105 million has been allocated to the four agencies for the implementation of these projects and related administrative costs. Also, US \$2.6 million has been provided by Parties not operating under Article 5 of the Montreal Protocol as bilateral assistance.

Nearly 77 per cent of these activities are being implemented by two agencies, the World Bank (146 projects) and UNDP (120 projects), while 72.2 per cent of the funds has been disbursed to the World Bank and 18.0 per cent to UNDP.

The largest allocation of funds corresponds to projects under the refrigeration sector followed by "several" sector category (a project which covers more than one sector, e.g., lines of grant) and foam sector. The distribution of project allocations is presented in the following table:

**Project allocations by implementing agency, Party and sector
(in thousand US\$)**

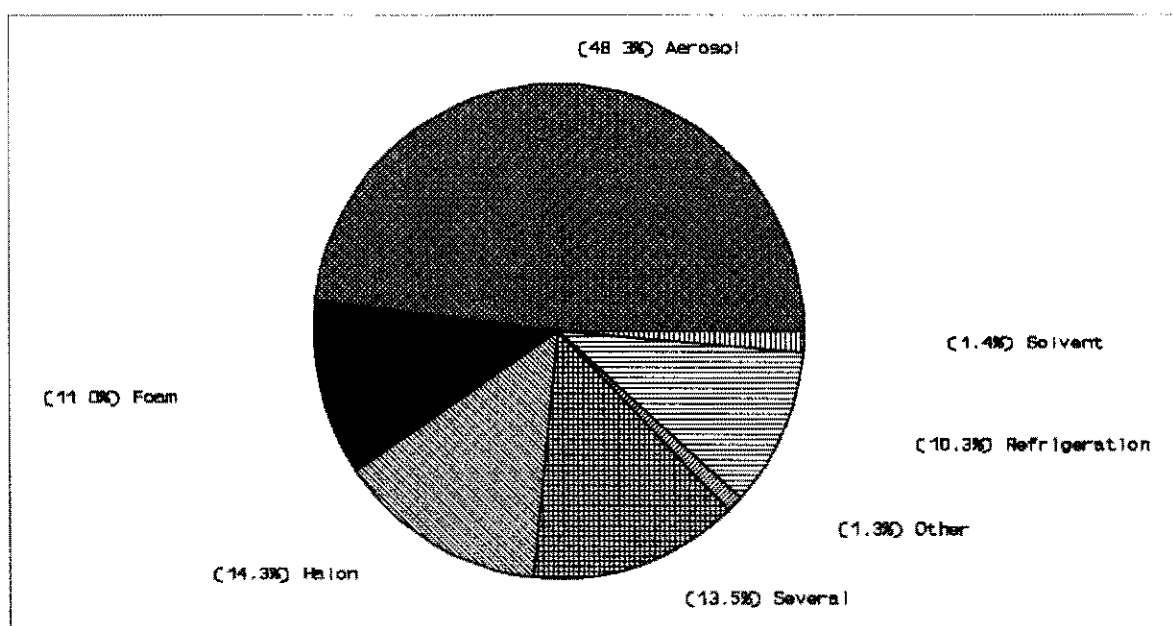
Sector	IBRD	UNDP	UNEP	UNIDO	Bilateral	Total
Aerosol	7,176	176	130		6	7,488
Foam	13,045	6,205		1,054	41	20,345
Halon	2,380	1,502	180		699	4,761
Other	4,720					4,720
Refrig.	22,932	2,129	681	195	592	26,529
Solvent	7,514	6,441		74	563	14,592
Several	15,929	1,904	4,284	838	706	23,661
Total	73,696	18,357	5,275	2,161	2,607	102,096

The Executive Committee has disbursed almost US \$3.18 million for the preparation of the country programmes of 44 Article 5 Parties. So far, the Committee has approved 21 country programmes and additional country programmes for Algeria, Burkina Faso, India, Senegal and Syria are being submitted for consideration at the Eleventh Meeting of the Executive Committee. Total consumption of controlled substances covered by the completed country programmes amounts to almost 88,000 ODP tonnes of controlled substances.

Funds amounting to US \$6.44 million have been provided to 27 Article 5 countries for institutional strengthening to facilitate the implementation of country action plans for the phase-out of controlled substances.

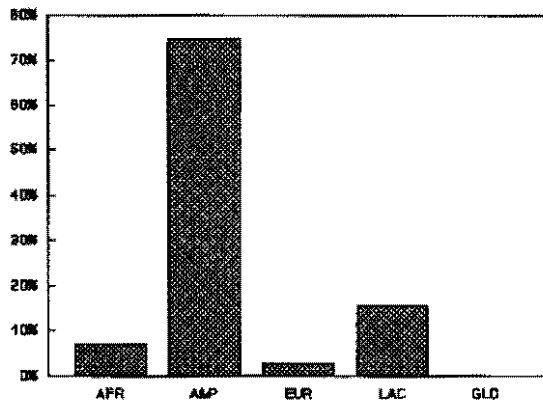
Implementation of the approved investment projects will lead to the elimination of over 27,000 ODP tonnes of controlled substances. The distribution on the elimination of controlled substances (in ODP) by sector is shown in the following figure:

Per cent of ODS to be eliminated by sector

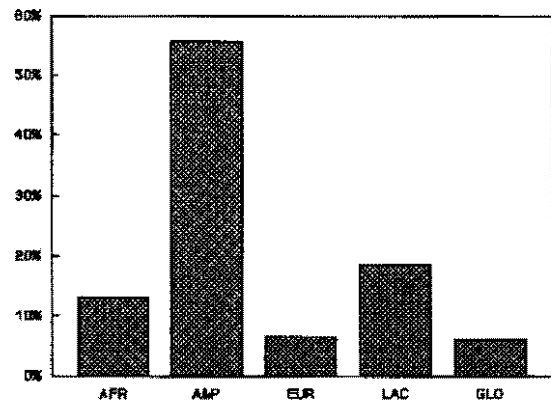


By region, 158 projects were approved for Article 5 countries in Asia and the Pacific, followed by Latin America and the Caribbean (82 projects), Africa (62 projects), and Europe (8 projects). Also, 34 projects of a global nature were approved. The regional distribution of the estimated amount of ODS to be phased-out and funds disbursed are presented below:

Regional distribution of ODS



Regional distribution of funds



AFR: Africa A&P: Asia and the Pacific EUR: Europe LAC: Latin America and the Caribbean GLO: Global

SECTION II

Implementation of activities by agency, and
Status of bilateral assistance

STATUS OF APPROVED UNDP WORK PROGRAMMES UNDER THE MONTREAL PROTOCOL

(as of 27 September 1993)

***Additional obligations foreseen**

(Version 2)

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion Proposed Expected	STATUS Progress/Delay
<u>ARGENTINA</u>							
Sev	<u>Technical assistance for CP preparation</u> CPG		\$ 25,000		June 1991	4Q92 4Q93	Several communications were sent to Govt. on the approved activity. The Govt. has requested UNDP to defer any activity until it has started CP implementation through the World Bank. Implementation of this activity should start and be completed during 4Q1993.
<u>BANGLADESH</u>							
Sev	<u>ODS reconnaissance survey and training</u> CPG		\$ 55,000	\$ 28,850	June 1991	4Q92 2Q93	Completed in Feb. 1993. Remaining funds comprise training activities which will be undertaken in conjunction with CP preparation activities detailed below.
Sev	<u>Country programme preparation</u> CPG		\$ 25,000	\$ 15,000	Feb 1992	3Q93 4Q93	Started in April 1993. A national workshop on the ODS Reconnaissance Survey results was held from 7- 11 July 1993. A draft proposal for the Country Programme was prepared by the Govt. on 10 August. The CP should be ready by end-Dec 1993 for presentation to the 12th ExCom in early 1994.
<u>BRAZIL</u>							
Ref	<u>Demonstration programme for analysis of refrigerant CFC reuse technologies & processes</u> DEM		\$ 25,000	\$ 25,000	Feb 1992	4Q92 4Q93	In early 1993, Govt appointed a national focal point for ozone layer activities. The TOR for this study were finalized in April 1993. The Govt selected "Associacao Brasileira e Aquecimento (ABRAVA)" to implement the study which started in June 1993 and will be completed by December 1993. The study comprises three phases: first a study on US conditions, second a study on Brazilian conditions, and third comparison and evaluation of the results with recommendations for future sectoral programmes in Brazil. To be completed by Dec. 1993.
Sev	<u>Institutional Strengthening</u> INS		\$403,100	\$124,665	June 1993	3Q96 3Q96	The project document has been approved by the Govt. and UNDP. The 1993 funds were disbursed, and will be spent according to the budget. Activities started in September 1993.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion Proposed Expected		STATUS Progress/Delay
CHILE								
Ref	<u>Demonstration programme for technicians in refrigerator servicing</u> DEM		\$ 25,000	\$ 25,000	Feb 1992	4Q92	3Q93	Completed. A national workshop and demonstration programme was held during 21-22 June 1993. The proceedings were prepared in in Spanish and were distributed to all participants. The UNDP Office informed us that the Government has stated that the workshop was quite successful, meeting all activity objectives.
CHINA								
Aerosols	<u>Technical assistance for Guandong aerosols investment project and investigation of non-ODS filling technology and LPG purification</u> TAS		\$ 75,000	\$ 45,684*	Feb 1992	4Q92	3Q93	Six Chinese aerosols sector technicians visited Egypt and the U.K. in March 1993 to see demonstrations of aerosol filling equipment and LPG purification systems. The Egyptian plants demonstrated to the team how they could obtain purified LPG from centralized systems. The feasibility study for the Guandong aerosols project is complete. With the procurement of a small filling machine for testing purposes in 3Q93, this project will have been completed. UNDP's aerosols sector expert reviewed progress under this project during his visit to China in April 1993.
Foam	<u>Technical assistance for CFC-11 substitute technology in flexible polyurethane foam</u> TAS		\$ 70,000	\$ 65,000	Feb 1992	4Q92	3Q93	Two activities have been completed, the first covering flexible foams and the second covering polystyrene/polyethylene foams. The flexible foam technology assessment results in a project that has since been approved for UNDP implementation (Tianjin, \$1,080,000). The second technology assessment mission resulted in discussions with Dow Chemical to obtain agreement on the use of carbon dioxide in polystyrene foams. It is expected that a project based on this technology will be submitted early 1994.
Foam	<u>Technical assistance for CFC-11 substitute technology in rigid polyurethane foam</u> TAS		\$ 70,000	\$ 70,000	Feb 1992	4Q92	3Q93	Completed. Technology assessment visits during August 28 - 17 Sept. on rigid spray and pipe insulation. Several European (Belgium, Denmark, Germany and Netherlands) industries using CFC-free technologies in their plants were visited. The team attended the Congress on CFC-Free Technologies in Aarhus, Denmark. Both missions will result in demonstration projects in this area to be submitted in early 1994. The information received during the mission will allow to design the projects for CFC-free technology instead of 50% CFC-reduced technology.

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Foam	<u>Quality control testing on CFC-11 substitute technology in a production line for home refrigerators</u> TAS		\$ 65,000	\$ 60,019	Feb 1992	4Q92	3Q93	A team evaluated available technologies in the USA and Japan. Based on these results and the results of an evaluation of European technologies, it is now possible to start the implementation of the BHEARI Project. The team mission was during 14-28 August 1993.
Foam	<u>Technical assistance for the Beijing Household Electric Appliances Research Institute (BHEARI)</u> TAS		\$480,000		June 1992	4Q95	4Q95	Implementation is tied to the World Bank investment project as well to the evaluation of the available technologies. Technology evaluation will be completed in mid-October at which time it is expected that project implementation modalities will be finalized.
Halon	<u>Technical study on halons usage and applications of halons substitutes</u> TAS		\$ 40,000	\$ 43,345	Feb 1992	4Q92	2Q93	Completed. The technology review team visited Denmark, Germany and the UK in June/July 1993 to examine the use of halon alternatives, to review the practical problems on replacing halons in critical applications, and to evaluate new technology development. The experience of Denmark and the UK in setting up halon banking systems was evaluated. The Ministry of Public Security is using the information obtained in development of China's halons sector phaseout strategy implementation.
Ref	<u>Evaluation on the use of reduced ODS and ODS-free technologies in the manufacture of refrigerators</u> TAS		\$ 75,000	\$ 75,000	Feb 1992	1Q93	3Q93	Completed. Two technology assessment missions undertaken in Aug. 1993. Evaluation of European recycling technologies has resulted project preparation based on the information gathered and will be submitted to Executive Committee meetings in November 1993 and March 1994. Evaluation of technologies in the refrigeration area covering foams as well as refrigerants in Europe, Japan and USA were combined for financial reasons. While the evaluation of technologies in Japan and the USA has been completed, evaluation of European technologies will be completed in mid-October.
Ref	<u>Feasibility study on the application of HFC-134a technology in MACs and CFC recycling</u> TAS		\$ 40,000	\$24,836	Feb 1992	4Q92	4Q93	TOR and workplan for this activity were finalized between UNDP and the China National Automotive Industry Corporation (CNAIC). Cooperating bodies are China Automotive Technology and Research Centre, the Shanghai Automobile Institute and the Changchun Automobile Research Institute. A technology assessment mission has been arranged for Europe and Asia during 20 Sept. - 10 Oct. 1993.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion		STATUS Progress/Delay
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Sev	<u>Establishment of a quality control testing plant for using CFC-12 substitute technology in refrigeration</u> TAS		\$ 70,000		Feb 1992	4Q92	4Q93	Under discussion with Govt. since the UNDP had been advised to defer this activity until mid-1993. With the appointment of UNDP's refrigeration sector expert in August 1993, this programme will now be activated and all activities should be completed by end-1993.
Ref	<u>Testing for applications of CFC substitute chemicals in the refrigeration sector in Southern China</u> TAS		\$100,000		Mar 1993	1Q94	1Q94	Ongoing. Programme implementation was discussed by UNDP technical experts with Ministry and NEPA representatives in Beijing in April 1993. Procurement activities under discussion with UNDP's refrigeration sector expert. Activity completion in March 1994
Solvent	<u>Prefeasibility study to phaseout CFC-113 in electronics cleaning in four production lines</u> TAS		\$ 40,000	\$ 41,829	Feb 1992	4Q92	1Q93	Completed in Jan. 1993. The associated solvents study tour in Dec. 1992 designed by UNDP's solvents sector expert evaluated alternative CFC-113 replacement technologies for different production lines and products. Two demonstration production line projects (Dalian, Dandong) were approved by the ExCom in June 1992 and two additional ones (Chengdu, Nanjing) were approved in June 1993.
Solvent	<u>Dalian precision parts cleaning line demonstration project</u> DEM	86	\$495,000	\$ 45,000	June 1992	4Q94	4Q94	Project document signed by Govt. and UNDP in Jan 93. Study tours abroad were carried out in Sept. 93 and the types of cleaning and systems and equipment to be purchased will soon be determined. Preparation for national survey components and related activities will be implemented in 4Q1993. Total amount expended to date is \$45,000 but will soon increase with equipment purchase.
Solvent	<u>Dandong electronic tuner aqueous cleaning line demonstration project</u> DEM	25	\$495,000	\$ 45,000	June 1992	4Q94	4Q94	Project document signed by Govt. and UNDP in Jan 93. Study tours abroad have been carried out in Sept. 93 and the types of cleaning systems and equipment to be purchased will soon be determined. Preparation for national survey components and related activities will be implemented in 4Q1993. Total amount expended is about \$45,000 but will soon increase with equipment purchase.
Sev	<u>Country programme preparation</u> CPG		\$200,000	\$200,000	Feb 1992	1Q93	1Q93	Country Programme prepared with UNDP as lead implementing agency was approved by the ExCom at its 10th Meeting in March 1993. Activity completed.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion		STATUS Progress/Delay
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Sev	<u>Institutional Strengthening</u> INS		\$450,000	\$180,000	Mar 1993	2Q96	2Q96	Project document was signed in June 1993. NEPA has established a Programme Management Office (PMO) and Information Clearing House (ICH) which are staffed by 3 full time personnel. The PMO coordinates relevant Ministries, industries and subsectors to prepare project proposals based on targets specified in the country programme, of which a total of 28 projects have been approved by the ExCom. The PMO manages and coordinates the implementation of UNDP, UNIDO and World Bank projects under the MP. Equipment is on order. ICH publishes "the Chinese Ozone Action" regularly, and collects data on production and consumption of ODS in China for submission to the Ozone Secretariat in Nairobi.
Sev	<u>Project preparation assistance</u> PRP		\$100,000	\$ 98,491	Mar 1993	4Q93	3Q93	Completed. UNDP technical sector experts in halons, foams & solvents and other UNDP consultants have assisted the Government in developing and technically reviewing project proposals. Two foams projects (\$1,280,000), two solvents projects (\$803,700), one halons project (\$280,000) and one refrigeration sector project (\$200,000) were approved at the 10th ExCom in June 1993 and are being implemented. For the 11th ExCom, two foams projects, one refrigeration project, one halons project, one recovery/recycling project and one ODS alternatives project have been submitted for approval. Other projects are also under preparation.
Sev	<u>Survey and assessment of small CFC plants conversion possibilities</u> TAS		\$ 90,000		Mar 1993	1Q94	1Q94	Terms of reference finalized with the Government. Implementation has started. Activity completion date is March 1994.
Foam	<u>Strategy and action programme for the elimination of CFCs in the manufacture of foams</u> TAS		\$200,000		June 1993	3Q94	3Q94	Newly approved. The project is nationally executed under CPR/93/G67. Workplans have been finalized and preparatory activities have been undertaken. Activity completion expected in 2Q1994.
Foam	<u>Tianjin conversion to CFC-free technology in the manufacture of flexible polyurethane foam</u> INV		\$1,080,000		June 1993	3Q94	3Q94	Newly approved. The project is nationally executed under project number CPR/93/G71. The Government and all parties have signed the document. Implementation has begun. Procurement activities have been initiated by OPS which is the associated agency for project implementation.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion		STATUS Progress/Delay
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Halon	<u>Implementation of the halon phase-out plan for China: current situation revision of national codes, and education and training.</u> TAS		\$280,000		June 1993	3Q96	3Q98	Newly approved. The project is nationally executed under project number CPR/93/G69. Project document awaiting signature by all parties. The workplan has been finalized and preparatory activities have started. This would be a three-year ongoing programme.
Ref	<u>Revision of design standards for cold storage</u> TAS		\$200,000		June 1993	3Q95	3Q95	Newly approved. The project is nationally executed under project number CPR/93/G68. Workplans are being finalized. Project implementation will start in 4Q1993 and continue until 3Q1995.
Solvent	<u>Elimination of CFCs in cleaning operations at Nanjing Wire Works demonstration project)</u> DEM		\$409,000		June 1993	4Q95	4Q95	Newly approved. The project is nationally executed under project number CPR/93/G65. Workplan being finalized and other preparatory activities are being undertaken. Implementation to start in 4Q1993 and conclude by 4Q1995.
Solvent	<u>Elimination of CFCs in cleaning operations at the Chengdu Radio Instrument Factory (demo. project)</u> DEM		\$394,700		June 1993	4Q95	4Q95	Newly approved. The project is nationally executed under project number CPR/93/G66. Workplan being finalized and other preparatory activities are being undertaken. Implementation to start in 4Q1993 and conclude by 4Q1995.
<u>COSTA RICA</u>								
Sev	<u>Reconnaissance study</u> CPG		\$ 20,000	\$23,422	June 1991	4Q91	2Q92	Completed.
Sev	<u>Country programme preparation</u> CPG		\$ 20,000	\$ 22,909	June 1992	4Q92	3Q92	Country programme was completed in advance of schedule with UNDP as lead agency. It was approved at the 8th ExCom Meeting in October 1992.
Sev	<u>Implementation of country programme: industrial sector activities in the foams, refrigeration and solvents sectors</u> TAS		\$180,240		Oct 1992	3Q94	3Q94	Two missions have been completed. A detailed project document has been prepared and signed so as to implement the approved CP. The national counterpart is discussing with UNDP/NY and UNDP/Costa Rica the modalities for expert visits for technical assistance, training and development of project proposals in the foams, refrigeration and solvents sectors.
Sev	<u>Institutional Strengthening</u> INS		\$213,160	\$125,608	Oct 1992	4Q95	4Q95	Project document signed. Implementation has started. Funds corresponding to the first year's budget requirements have been disbursed.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion Proposed Expected	STATUS Progress/Delay
CUBA							
Sev	<u>Country programme preparation</u> CPG		\$ 22,600	\$ 15,000 *	Oct 1992	2Q93 2Q93	Activity completed. Following completion of the ODS reconnaissance study, the preparation of the CP started immediately thereafter. The CP was completed very rapidly and was presented and approved by the Executive Committee at its 10th Meeting in June 1993. The CP has also been translated into English.
Sev	<u>Institutional Strengthening</u> INS		\$172,000	\$ 76,000	June 1993	3Q96 3Q96	The project document has been signed. Funds corresponding to the first year's budget have been disbursed and will be expended as per the budget schedule.
ECUADOR							
Ref	<u>CFC refrigerant conversion and materials handling training programme</u> TRA		\$100,000	\$ 96,080	Feb 1992	3Q93 3Q93	Activity completed. Two workshops were held for which five international lecturers were recruited to cover aerosols, foams, halons and refrigeration. Around 100 technicians attended these workshops. The workshops, at which the World Bank also played a key role, were well organized with several participants from Governmental agencies and NGOs also participating.
Ref	<u>Training and technology dissemination</u> TRA		\$ 40,000		June 1993	4Q93 4Q93	These additional funds extend the above-mentioned activities. Two additional seminars will be organized this year. The project also includes a public information dissemination campaign.
EGYPT							
Foam	<u>Phaseout of CFC-11 in the manufacturing of flexible polyurethane foam at Misr Foam Factory</u> INV	121	\$497,000	\$437,797	Oct 1992	4Q94 4Q94	Monitoring mission visited project site during week of 13 September 1993. Implementation started in March 1993. Construction and installation activities are almost completed. Additional safety system needs to be undertaken and will be completed end-October. Project is scheduled for commissioning in early November.
Foam	<u>Phaseout of CFC-11 in moulded foam manufacturing at Misr Foam Factory</u> INV	28	\$275,000	\$268,731	Mar 1993	1Q94 3Q93	Monitoring mission visited project site during week of 13 September 1993. Equipment has been delivered to the site and installation has begun. Equipment installation, startup and national staff training will be completed by end-October 1993, 6 months after approval with 28 28 tonnes/year of CFC-11 phased out.

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Foam	<u>Phase-out of CFC-11 in the manufacture of moulded polyurethane foams at Technopol Co.</u> INV	55	\$645,000	\$656,211	Oct 1992	4Q94	4Q94	Equipment procurement has been completed and equipment is expected to arrive in October 1993. Implementation started in March 1993. All equipments expected to arrive in early November. Staff training and startup will begin in 4th quarters 1993.
Foam	<u>Elimination of CFC-12 in the manufacture of extruded polystyrene foam at Al-Sharif Plastic Factories</u> INV	75	\$498,000		Mar 1993	2Q94	2Q94	Specifications for procurement have been finalized. Al Sharif will collect bids for the local contracts and OPS will collect bids for international procurement. It is expected to be able to issue equipment orders in November 1993, with finalization of implementation in second quarter 1994.
Foam	<u>Phaseout of CFC-11 in the manufacture of moulded, flexible, semi-rigid and rigid polyurethane foam at Taki-Vita Factory</u> INV	50	\$352,500	\$205,232	Oct 1992	1Q95	4Q94	Equipment is expected to arrive in December (delay caused by contractor). Implementation started in March 1993. Installation and startup to commence 1 quarter 1994.
Foam	<u>Elimination of CFC-11 in the manufacture of molded flexible polyurethane foam at Modern Building Carpentry Co. (MOBICA)</u> INV		\$434,000		June 1993	4Q94	4Q94	Specifications for procurement have been finalized. Requests for bids will be issued in October 93. Procurement activities will commence in November 1993. Project number is EGY/93/G61.
Foam	<u>Elimination of CFC-11 in the manufacture of molded rigid polyurethane foam at Cairo Light Industries Co. (OLYMPIC ELECTRIC)</u> INV		\$940,000		June 1993	4Q94	4Q94	Specifications for procurement have been finalized. Requests for bids will be issued in October. Procurement activities will commence in in November 1993. The project number is EGY/93/G62.
Ref	<u>Phaseout of CFCs in refrigeration at Koldair Company</u> INV	18	\$272,000	\$229,631 *	Oct 1992	4Q94	4Q94	Equipment procurement completed. Implementation started in March 1993. Equipment installation is currently in progress. Project is scheduled for commissioning in early November

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Sev	<u>Preparation of investment projects</u> TAS		\$100,000	\$100,319	Feb 1992	3Q93	3Q93	Completed. Three UNDP expert/staff missions completed by Jan. 1993 during which several foam sector investment projects were formulated. A fourth project preparation mission was completed in April 1993. A fifth combined project implementation and preparation mission was completed in early September 1993. The 8th ExCom in Oct. 1992 approved one refrigeration project (\$272,000) and three foams projects (\$1,494,500). The 9th ExCom in March 1993 approved two foams projects (\$773,000). The 10th ExCom in June 1993 approved two foams projects (\$1,374,000). Five foams sector projects with budgets of \$2,105,000 have been presented for approval to the 11th ExCom in November 1993.
Sev	<u>Study tours for government and industry officials, and pre-feasibility studies</u> TAS		\$126,000	\$ 39,519*	June 1991	2Q92	2Q92	Completed. Study tours were completed in November 1991 (ozone policy implementation) and in February 1992 (refrigeration). The pre-feasibility studies were prepared mainly by national experts and EEAA staff and led to the detailed formulation of refrigeration and foam sector investment projects.
GHANA								
Foam	<u>Technical assistance for technology transfer for CFC-11 phaseout in flexible foam</u> TAS		\$ 85,000		Oct 1992	4Q94	4Q94	Following the signature and start of implementation of the Institutional Strengthening project (see below), the Government now has the staff to direct national and sector specific ODS phaseout projects. Activities would include technical assistance to flexible foam producing companies, training for industry and government staff as well as training in health and safety aspects related to newly introduced non-ODS technologies.
Ref	<u>Refrigeration training programme for servicing technicians</u> TRA		\$ 5,200	\$ 5,200	June 1991	4Q92	4Q92	It was agreed that UNEP/Paris would implement this activity with UNDP transferring the remaining funds (\$93,800 + support costs) to UNEP/Paris. The funds were decreased accordingly, and the remaining US\$5,200 covers a mission by UNDP's refrigeration training consultant, undertaken before the transfer of funds took place.
Ref	<u>Improved servicing and maintenance within the refrigeration sector</u> TRA		\$328,000		Oct 1992	4Q95	4Q95	The detailed workplan for this activity is being finalized. The project will assist the National Commission for Improved Refrigeration through on-the-job training of refrigeration sector technicians as well as provision of technical assistance for the reduction of ODS in the refrigeration sector. UNEP will assist UNDP in implementation of refrigeration sector training activities.

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Sev	<u>Institutional Strengthening</u> INS		\$160,000	\$60,000	Oct 1992	4Q95	4Q95	The project document was recently signed, and activities are now being implemented. Funds corresponding to the first year's expenditures have been disbursed and will be spent as per the budget schedule.
INDIA								
Sev	<u>Assistance in project preparation</u> TAS		\$100,000	\$ 60,000	Oct 1992	4Q93	4Q93	The initial UNDP involvement in project preparation in India started during the National Workshop on Project Preparation organised by the Government of India in New Delhi during 31 March-2 April 1993. In order to economize on travel costs, the experts selected by the Government for sectoral CP preparation simultaneously assisted UNDP (and the World Bank) in sectoral project preparation working with the sectoral working groups. One national expert has been appointed (foams) and others will be appointed as required. Eight foams sector projects, two halons sector projects, and one small-scale industry project were finalized. Discussions on solvents projects also were held. Only the small-scale industry project was cleared by the Government in time for presentation to the 11th ExCom. The others will be submitted to the 12th ExCom.
Sev	<u>Country programme preparation</u> CPG		\$200,000	\$200,000	Mar 1993	3Q93	3Q93	Initial discussions on the CP preparation schedule were held by UNDP's Montreal Protocol Task Manager with Government officials during the 31 March-2 April National Workshop on Project Preparation in New Delhi. This was followed by a CP preparation mission during 26-30 April 1993 by UNDP's CFC expert, Mr. Norris, who assisted the Govt. and the national lead agency (TERI) develop a detailed terms of reference and time schedule for sectoral meetings and CP preparation. Sectoral working group meetings were held during mid-June to mid-July followed by the First National Workshop for CP Preparation during 14-16 July 1993, at which all UNDP experts and consultants participated and following which a first draft CP was prepared. At the second National CP Preparation Workshop during 18-20 August 1993, the draft CP was reviewed and sectoral estimates finalized. Four UNDP staff/experts participated at that Workshop. The India Country Programme was finalized and approved by the Government on 6 September 1993 and is being presented to the 11th ExCom in November 1993 for approval.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion		STATUS Progress/Delay
						Proposed	Expected	
Sev	<u>Institutional Strengthening</u> INS		\$430,000	\$166,970	Oct 1992	1Q95	1Q96	Funds had been advanced under this project in early 1993 pending the signing of the project document on 22 June 1993. Funds corresponding to the first's years budget have been disbursed and project implementation is underway as per the project document.
INDONESIA								
Sev	<u>Country programme preparation</u> CPG		\$200,000	\$115,507	Oct 1992	4Q93	4Q93	An initial CP preparation scheduling mission during 12-14 April 93 with a follow-up mission during 18-24 July covered implementation modality, detailed workplans, selection of international/national experts, formation of sectoral working groups, the time schedule for CP preparation and budgetary allocations. A Memorandum of Understanding between the Govt. and UNDP was approved. The national sectoral workshop was held during 23-27 August in which sectoral ODS consumption was reviewed. The National CP Preparation Workshop will take place during 25-29 October 1993. The Govt. has determined that the CP will be presented to the 12th ExCom Meeting in early 1994.
Sev	<u>Institutional Strengthening</u> INS		\$314,780	\$113,260	June 1993	4Q96	4Q96	Newly approved. Project document sent to Government for signature. Upon receipt of signed document (expected in October 1993), funds corresponding to the first year's expenditure will be disbursed.
IRAN								
Sev	<u>ODS reconnaissance survey</u> CPG		\$ 30,350	\$ 30,350	June 1991	4Q91	2Q92	Completed in second quarter 1992.
Sev	<u>Country programme preparation</u> CPG		\$ 35,000	\$ 35,000	Feb 1992	4Q92	2Q93	Country Programme approved at the 10th ExCom Meeting in June 1993.
Sev	<u>Institutional strengthening</u> INS		\$200,200	\$ 76,000	Oct 1992	1Q96	1Q96	The project document has been signed. Funds corresponding to the first year's expenditure have been disbursed.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion		STATUS Progress/Delay
						Proposed	Expected	
Sev	<u>Project preparation assistance</u> PRP		\$ 50,000	\$ 15,000*	Oct 1992	4Q93	1Q94	The original budget for this activity was \$100,000. At the 9th ExCom Meeting, UNDP was requested to transfer \$50,000 (+ support costs) to UNIDO. While UNDP will assist in preparation of foams sector projects, UNIDO will assist in refrigeration sector project preparation. Transfer of funds was processed on 7 May. UNDP foam sector project preparation missions have been scheduled over the period Dec. 93 to March 94.
JORDAN								
Aerosol	<u>Feasibility study on deodorization</u> <u>of local gas as a CFC substitute</u> <u>in cosmetics</u> TAS		\$ 12,000	\$ 12,000	Feb 1992	4Q92	2Q93	Feasibility study completed based on experience obtained from a study tour to Egypt by Jordanian aerosols staff during 12-18 June 1993. Activity completed.
Aerosol	<u>Technical assistance and</u> <u>prefeasibility study in the</u> <u>aerosols sector</u> TAS		\$ 29,000	\$ 29,000	June 1991	4Q91	1Q92	Completed. The two Finnish experts, (a chemical process engineer and training specialist) completed their assignments in Feb 1992. The results were used by the World Bank in the development of an aerosols investment project and in specification of additional technical assistance in aerosols and other sectors.
KENYA								
Ref	<u>Demonstration and training</u> <u>unit for maintenance and</u> <u>recharge of refrigeration and</u> <u>airconditioning equipment</u>		\$ 9,852	\$ 9,852	June 1991	4Q92	4Q92	It was agreed that UNEP/Paris would implement this activity with UNDP transferring the remaining funds (\$105,248 + support cost) to UNEP Paris. The funds were decreased accordingly, and the remaining US\$9,852 covers a mission by UNDP's refrigeration training expert who undertook a training mission to Kenya in late 1992.
Sev	<u>Country programme preparation</u> CPG		\$ 25,000	\$ 14,530	Feb 1992	3Q93	4Q93	Initial mission by UNDP expert in Feb. 1993 working with two national experts. First draft CP was reviewed by UNDP/NY. A second draft CP was prepared taking UNDP's recommendations into account. Further revisions have been requested. It will now be presented to the 12th ExCom in early 1994.
Sev	<u>Institutional strengthening</u> INS		\$175,000		Mar 1993	4Q96	4Q96	Project document being finalized for signature by the Govt. Changes in the document were required since the funding approved by the Executive Committee was significantly less than that requested. Funds for the first year's expenditures will be transferred and implementation can start as soon as the document is signed.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion Proposed Expected		STATUS Progress/Delay
<u>MALAYSIA</u>								
Ref	<u>Training in MAC sector</u> TRA		\$ 50,000		June 1991	4Q92	4Q93	Tied to the overall World Bank implemented MAC project in Malaysia. The Govt. gave the UNDP technical expert who visited Malaysia during 8-10 April 1993 a detailed implementation schedule for the MAC training programme that ties in with the MAC investment project. Implementation will take place in 4Q1993.
Ref	<u>Institutional strengthening</u> INS		\$322,520	\$115,920	Mar 1993	2Q96	2Q96	Project document signed on 31 July 1993 by all concerned parties. Implementation has started. Funds corresponding to the first year's expenditures have been disbursed.
Sev	<u>Elimination of CFC-12 in the manu- facture of extruded polystyrene foam sheet at Jumaya Industries</u> INV		\$235,811	\$235,873	June 1993	4Q94	4Q94	Project implementation is underway. It is expected that the project could be completed significantly ahead of schedule.
Sev	<u>National ODS Conference</u> TAS		\$ 40,000	\$ 40,000	June 1993	3Q93	3Q93	The National ODS Conference was held from 20-21 July 1993 in Kuala Lumpur. it brought together 400 representatives from small and mid-size industries to inform them on Malaysia's national ODS phaseout programme and to facilitate project preparation.
Sev	<u>Project preparation assistance</u> PRP		\$50,000	\$ 19,472	June 1993	1Q94	1Q94	Newly approved. A mission in July by UNDP's foam expert accompanied by the OPS programme officer handling the Montreal Protocol was undertaken to review investment project proposals in the foams sector as well as review implementation of the Jumaya project. Seven projects have been reviewed/rewritten for presentation to the 11th ExCom meeting comprising four in foams and three in solvents.
<u>MEXICO</u>								
Halon	<u>Preparatory study on halons inventory and proposals for revisions of existing standards</u> TAS		\$ 25,000	\$ 27,223	Feb 1992	4Q92	4Q93	In its fax dated 12 May 1993, the Instituto Nacional de Ecologia, Direccion General de Normatividad Ambiental sent a proposal for implementation of this activity. A national consultant is working on this study at this time, and it would be completed by end-1993.
Sev	<u>Preparation of terms of reference for investment projects identified in the country programme</u> TAS		\$ 50,000	\$ 52,277	June 1991	4Q92	4Q93	The national expert has drafted the first 11 project proposals to be implemented by the World Bank. Another 10 project proposals are currently being drafted by the same national consultant. This work will be completed by end-1993.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion Proposed Expected	STATUS Progress/Delay
<u>NIGERIA</u>							
Sev	<u>National seminar on industry & protection of the ozone layer</u> TRA		\$ 49,650	\$ 26,449*	June 1991	1Q92 4Q92	Completed in Nov 1992. The seminar was run by UNDP's refrigeration training sector expert, five national consultants, and other resource persons. The Government has informed UNDP that it was pleased with the effectiveness of the seminar.
Sev	<u>Institutional strengthening</u> INS		\$300,000	\$111,174	Mar 1993	2Q96 2Q96	Project document has been signed. Implementation has started. Funds corresponding to the first year's expenditure have been disbursed.
<u>PHILIPPINES</u>							
Ref	<u>Training programme in the refrigeration sector</u> TRA		\$ 64,000	\$ 62,297	June 1991	2Q92 4Q92	Five training courses and one seminar/conference were completed in the 2nd and 3rd quarter 1992 and all project activities were completed by Dec 1992. Over 150 service centre technicians were trained in refrigeration servicing and recycling procedures so as to cut CFC emissions. National consumer protection groups observed the training programme and have made recommendations for the expansion of this programme to all small-scale production, installation and repair service firms that use CFCs in the refrigeration sector.
Sev	<u>Country programme preparation</u> CPG		\$ 84,820	\$ 84,820	Oct 1992	2Q93 2Q93	Completed. Country Programme approved during the 10th ExCom Meeting. UNDP at the request of the Government agreed to renew the contract of the national consultant who led CP formulation so as to assist the Govt. identify projects under the approved CP. Several technical proposals have been prepared.
<u>SRI LANKA</u>							
Sev	<u>Country programme preparation</u> CPG		\$ 35,000	\$ 35,000	Feb 1992	2Q93 4Q93	National consulting firm completed the ODS reconnaissance survey in July 1993. CP formulation has started. A one year delay was due to non-selection of the national lead agency. CP completion is expected by Dec 1993 with presentation of the CP at the 12th ExCom Meeting in early 1994.
<u>THAILAND</u>							
Sev	<u>Training of Government technical staff</u> TRA		\$ 50,000	\$ 53,785	June 1991	2Q92 4Q92	Activity completed. Through this activity the Government was able to initiate coordination and monitoring of Protocol-related activities in Thailand using a sector coordinator.
Sev	<u>Institutional strengthening of the Ozone Layer Protection Unit</u> INS		\$400,000	\$143,000	Mar 1993	2Q96 2Q96	Project document signed on 18 June 1993. Implementation has started. Funds corresponding to the first year's expenditures have been disbursed.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion		STATUS Progress/Delay
						Proposed	Expected	
Sev.	<u>Project preparation assistance</u> TAS		\$ 50,000	\$ 14,812	June 1993	1Q94	1Q94	Funds to cover the costs of international/national experts for the preparation of project proposals. Project formulation missions have been undertaken by UNDP's aerosols, foams and halons experts in third quarter 1993. Project proposals will be ready for presentation to the 12th ExCom in early 1994.
TRINIDAD AND TOBAGO								
Sev	<u>Training of Government technical staff and preliminary work on country programme</u> TRA		\$ 53,800	\$ 37,877	June 1991	4Q92	1Q94	A very long delay due to changes in the Government and national counterpart. Govt. specified that CARIRI had been selected as the consulting body for CP formulation. Activities utilizing international and national consultants, as well as a subcontract with CARIRI have been initiated.
Sev	<u>Country programme preparation</u> CPG		\$ 25,000	\$ 14,000*	Feb 1992	4Q92	2Q94	As indicated above, the Govt. in March 1993 selected CARIRI to be the consulting body for CP formulation in association with UNEP and in conjunction with CP formulation for other Caribbean States. An agreement between UNDP and CARIRI was finalized so that CP formulation could start in June 1993. However, due to Govt. constraints, the whole process has been delayed. It is now expected that the CP would be ready only by March 1994 for presentation to the 13th ExCom Meeting.
URUGUAY								
Sev	<u>Consultant mission to assess technical assistance requirements</u> TAS		\$ 13,050	\$ 9,461*	June 1991	4Q91	4Q92	Consultancy mission completed in October 1992. In addition to assessing technical assistance requirements, the consultants prepared the outline for an ODS reconnaissance study.
Sev	<u>Country programme preparation</u> CPG		\$ 27,000	\$ 25,069	Oct 1992	2Q93	2Q93	The ODS reconnaissance study was completed and CP formulation started in February 1993. The CP was finalized in April 1993, and was presented and approved during the 10th ExCom meeting in June 1993. The CP has also been translated into English.
Sev	<u>Institutional strengthening</u> INS		\$173,000		June 1993	3Q96	3Q96	Project document has been prepared with detailed time schedules and implementation modalities. The document will be signed in the coming weeks, with implementation starting immediately. Funds corresponding to the first year's expenditures will be disbursed upon signature of the project document.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion Proposed Expected	STATUS Progress/Delay
VENEZUELA							
Halon	<u>Workshops for the recycling and banking of halons</u> TRA		\$ 25,800	\$ 15,600*	Mar 1993	1Q94 1Q94	UNDP sent an expert to participate at a halon conference in Caracas. He discussed the new substitutes listed in NFPA 2001 report. A national working on halons attended the Halon Alternatives Workshop in New Mexico during 11-13 May 1993 to review halon replacements and alternatives. This will directly assist in the design of the agenda and implementation of future workshops. The next workshop is scheduled for first week November on new substitutes for halons.
Ref	<u>Technical assistance and training of servicing technicians in the refrigeration sector</u> TRA		\$ 30,000	\$ 19,020*	Jun 1991	1Q92 2Q92	Completed. Two national seminars on CFC usage in refrigeration systems and alternatives to CFCs were held in June 1992 in Caracas and Valencia. A training videotape produced will be used as a training aid for similar programmes in Latin America.
Ref	<u>Pilot programme in recovery and recycling of CFC-12 in domestic refrigeration</u> DEM		\$100,000		Mar 1993	2Q94 2Q94	Implementation details being worked with the Govt.
Ref	<u>Workshops for identification of projects in the refrigeration sector</u> TRA		\$ 19,800	\$ 8,400	Mar 1993	4Q93 4Q93	At Govt. request, UNDP sent its refrigeration training sector expert to conduct a refrigeration workshop on 12 May. The workshop covered alternative refrigerants and technologies for protecting the ozone layer and identification of alternative conversion refrigerants and technologies for the domestic and commercial refrigeration industry. The next workshop is scheduled for end-1993 or early 1994.
Ref	<u>Workshops on conversion and installation of new non-ODS central A/C systems</u> TRA		\$ 39,600	\$ 13,200	Mar 1993	2Q94 2Q94	Two seminars were held on 15 April and 14 May. The seminars covered technological and financial systems directed toward the conversion of plants to alternative substances. Four more seminars are scheduled, but their implementation was postponed by the Govt. until after the 11th ExCom Meeting where a sector policy will be discussed.
Sev	<u>Institutional strengthening</u> INS		\$329,192	\$111,227	Oct. 1992 & March 1993	2Q96 2Q96	The project document was signed in June 1993. Implementation has started. Funds corresponding to the first year's expenditures have been disbursed.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion Proposed Expected	STATUS Progress/Delay
REGIONAL							
Foam	<u>Three low-CFC foam training and demonstration programmes in Asia, Middle East/Africa & Latin America</u> TRA		\$157,500	\$ 83,200	Feb 1992	4Q92 1Q94	The Middle East/North Africa Regional Workshop is scheduled to be held in Egypt during 2-4 November 1993. The Workshop will demonstrate project applications using low-CFC foam technologies. Countries to be invited include 10 from the Middle East area and 3 from Africa. Non Article 5, para. 1 developing countries would be invited to participate at their own cost. The Latin America Regional Workshop is planned for late-November and the likely location is Brazil; details are being finalized. The Regional Workshop for Asia is scheduled for 6 December 1993 in Thailand; details are being finalized.
Halon	<u>Two halons reduction/recycling training & demonstration programmes in Latin America & Middle East/Africa</u> TRA		\$120,000	\$ 38,000	Feb 1992	4Q92 1Q94	The Middle East/Africa Regional Programme is scheduled for 6-8 Nov. in Egypt with EEAA as sponsor and with the technical assistance of the Danish Institute for Fire Protection Technology. Countries to be invited include 10 from the Middle East area and 3 from Africa. Non Article 5, para. 1 developing countries would be invited to participate at their own cost. Two halons recycling machines will be sent to Egypt for demonstration purposes. At the request of USEPA which wants to be associated with the regional programme for Latin America, that demonstration programme is now scheduled for 1Q1994.
Ref	<u>One training and demonstration programme in commercial/industrial refrigeration in Latin America</u> TRA		\$ 23,047	\$ 23,047	Feb 1992	3Q92 3Q92	Completed. The Latin America regional programme on centrifugal chillers was jointly sponsored by USEPA, UNDP and Mexico and was held during 27-28 July 1992 in Mexico City. In addition to several representatives from Mexico, technical representatives attended from Argentina, Brazil, Panama, Uruguay and Venezuela.
Ref	<u>Three training/demonstration programmes in CFC recycling in MAC in Latin America, the Middle East and Asia</u> TRA		\$135,000		Feb 1992	4Q92 2Q94	These training/demonstration programmes are now being organized since UNDP has identified a suitable MAC sector expert. UNDP is discussing locations for the three demonstration programmes with interested governments. Activity completion by mid-1994.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion Proposed Expected		STATUS Progress/Delay
GLOBAL								
Aerosol	<u>Technical assistance in aerosols</u> TAS		\$ 60,000	\$ 44,212	Feb 1992	4Q92	4Q93	UNDP's aerosols sector expert has provided Advisory services to China, India, Indonesia, Jordan, Malaysia and Thailand. Other countries are being assisted on request, often in conjunction with World Bank investment project preparation missions since the UNDP expert is also the World Bank's OORG member. Activity completion is expected by end-1993.
Foam	<u>Technical assistance in foams</u> TAS		\$100,000	\$100,000	Feb 1992	4Q92	1Q94	This covers both flexible (\$40,000) and rigid (\$60,000) foams. The UNDP foams sector expert has since early 1993 been providing advisory services, so far to China, Egypt, India, Indonesia, Malaysia and Thailand. Other countries are being assisted on request (e.g. Ghana). In addition, the sector expert is responsible for coordinating technical and organizational arrangements for the three regional foams sector training/demonstration programmes in Asia, Middle East/Africa and Latin America. Activity completion is expected by 1Q1994. Other foam experts have also been recruited to help review projects and assist in provision of technical assistance.
Halon	<u>Technical assistance in halons</u> TAS		\$ 70,000	\$ 60,000	Feb 1992	4Q92	1Q94	The UNDP halons sector expert has provided advisory services to China, Egypt, India, Indonesia, Malaysia and Thailand. In addition, the sector expert is responsible for coordinating technical and organizational arrangements for the two regional halons reduction/recycling training and demonstration programmes in Latin America and the Middle East/Africa. Activity completion is expected by 1Q1994.
Halon	<u>Procurement of 40 halon recycling machines for demonstration</u> DEM		\$250,000	\$250,000	June 1992	2Q93	3Q93	Procurement of halons recycling equipment completed. This has been of great value particularly with respect to UNDP/USEPA training initiatives in the use of the machines implemented under the Global Halons project. 25 machines have already been shipped and the remaining 15 will be shipped following the completion of the two halons regional demonstration programmes.
Halon	<u>Global Halons Project</u> TAS		\$345,133	\$ 30,000	Oct 1992	4Q94	4Q94	This programme is coordinated by UNDP's halons sector expert in close coordination with the World Bank and USEPA. The global project sets out modalities for setting up national halons phaseout plans, implementation of phaseout strategies and setting up national halon management and banking systems. Initial programme implementation

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion		STATUS Progress/Delay
						Proposed	Expected	
								with UNDP/USEPA participation at the Halon-1211 Recharge/Recovery Training Workshop in Beijing during 20-27 April. UNDP assisted USEPA in missions to Panama (July 1993) and Uruguay (September 1993) to discuss with Government a halon management programme. Hands-on training programmes conducted by USEPA in Hangzhou and Guangzhou, China, were held during 15-23 September 1993. UNDP in cooperation with USEPA will also assist in a Halons activity in Venezuela.
Ref	<u>Technical assistance in refrigeration</u> TAS		\$ 90,000	\$ 15,000	Feb 1992	4Q92	1Q94	UNDP's refrigeration sector training expert has been providing training and technical advice, and running demonstration programmes. She assisted in the national demonstration workshop held during 21-22 June 1993 in Chile. The refrigeration sector technical expert, Stuart Kelly, has been recruited and will be active effective 4Q93.
Ref	<u>Technical assistance in MAC</u> TAS		\$ 50,000	\$ 10,000	Feb 1992	4Q92	2Q94	The UNDP MAC sector expert, is being recruited.
Ref	<u>Global MAC project</u> TAS		\$318,584	\$ 33,766	Oct 1992	4Q94	4Q94	This global project is being implemented in coordination with the World Bank. A first project has already been identified which is a retrofit demonstration trial in China for 100 cars, half of which would use a ternary blend MP-52 (DuPont) and the other half would use HFC-134a (project cost: \$33,766). The project is being implemented.
Solvent	<u>Technical assistance in solvents</u> TAS		\$ 50,000	\$ 50,000	Feb 1992	4Q92	3Q93	The UNDP solvents sector expert has since April 1992 been providing advisory services, so far to China, India, Indonesia, Malaysia and Thailand. Other countries are being assisted on request. The sector expert is coordinating closely with World Bank and bilateral programmes in the solvents sector.
Sev	<u>Three national policy workshops</u> TAS		\$ 45,000	\$ 25,000	Feb 1992	4Q92	4Q93	A national policy workshop in India was held during 31 March- 2 April 1993 where representatives from UNDP and the World Bank made detailed presentations on the Montreal Protocol phaseout guidelines and policy implications. Project preparation guidelines were also discussed. The workshop was attended by over 70 participants.
Sev	<u>Two study-tours for officials and industry representatives</u> TAS		\$ 50,000		Feb 1992	4Q92	4Q93	Study tour details being finalized. To be implemented in second-half 1993.

Sector	Project Title/ Project Type	ODS to be Phased out	Approved Funding	Funds Disbursed/ Obligated	Date of Approval	Date of Completion		STATUS Progress/Delay
						Proposed	Expected	
Sev	<u>Participation at workshops and key meetings</u> TAS		\$140,000	\$121,737	Feb 1992	4Q92	4Q93	33 participants funded at key regional/international meetings, such as the International Conference on CFCs and Halon Alternatives (Oct 92, Washington, D.C.). Venezuela requested the participation of Mr. Christopher Hanauska of Hughes Associates Inc. during the "Sagur-Fire 93" Halons Conference in Caracas, Venezuela during 23-24 March 1993. Participation at the CFC and Halons Alternatives Conference in during 17-24 April 1993 in Beijing. One Venezuelan participated in the Halons Workshop in New Mexico from 11- 13 May 1993, and another at the Annual Meeting of the National Fire Protection Association (NFPA) in Florida on 24 May 1993. With the limited available funds, a few participants will be funded to participate at the 1993 CFC and Halons Alternatives Conference in October 1993 in Washington, D.C.

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Country Sector	Project Title	ODS to be phase-out	Date of approval	Approved Funding	Time frame	Status of implementation
ALGERIA						
Several	Country programme preparation Country programme		Mar 1993	\$15,000	Mar-Jun 1993	Completed, Submitted for consideration to the 11th ExCom Meeting
BARBADOS						
Sveral	Country programme preparation Country programme		Jun 1993	\$30,000	1993-1994	Phase I planning underway
BOTSWANA						
Several	Complement for Country programme preparation Country programme		Mar 1993	\$10,000	1993-1994	Phase I underway
BURKINA FASO						
Several	Country programme preparation Country programme		Feb 1992	\$30,000	1992-1993	Completed, submitted for consideration to the 11th ExCom meeting
CAMEROON						
Several	Country programme preparation Country programme		Feb 1992	\$30,000	1992-Jun 1993	Completed, approved by 10th ExCom meeting
Several	Training for customs		June 1993	\$20,200	1993-1994	Planning underway. Meeting held to decide contents and target trainees.

Country Sector	Project Title	ODS to be phase-out	Date of approval	Approved Funding	Time frame	Status of implementation
FIJI						
Several	Country programme preparation Country programme		June 1991	\$25,000	1991-Jun 1992	Completed, approved by 10th ExCom Meeting
GAMBIA						
Several	Country programme preparation Country programme		Feb 1992	\$30,000	1992-indefinite	No response from the Government since mid 1992
GHANA						
Refrigeration	Implementation of train the trainer programme and national demonstration programme Training		Jun 1993	\$99,000	4th quarter 1993	Funds transferred to UNEP in June 93. Being conducted in Oct'93
Several	Country programme preparation Country Programme		Jun 1991	\$25,000	1991-1992	Completed. Country programme approved at 8th ExCom Meeting
GUATEMALA						
Several	Country programme preparation Country Programme		Feb 1992	\$30,000	1992-1993	Completed. Country programme approved at 10th ExCom
Several	Institutional Strengthening		Jun 1993	\$172,000	1994-1996	Planning underway
KENYA						
Refrigeration	Support to a national workshop on refrigeration Training		Jun 1993	\$115,000	4th quarter 1993	Funds transferred in June 1993 to UNEP. Being conducted in Nov'93.

Country Sector	Project Title	ODS to be phase-out	Date of approval	Approved Funding	Time frame	Status of implementation
MALAWI						
Several	Country programme preparation Country Programme		Feb 1992	\$30,000	1992-1993	Draft report ready for review
MALDIVES						
Several	Country programme preparation Country Programme		Jun 1991	\$25,000	1991-1992	Completed, Country programme approved in 10th ExCom Meeting
MAURITIUS						
Several	Complement for country programme preparation Country programme		Mar 1993	\$10,000	Mar 1993-Jun 1993	Completed, Country programme approved in 10th ExCom Meeting
Several	Institutional Strengthening		Jun 1993	\$50,000	1994-1996	Planning underway
PAKISTAN						
Several	Country programme preparation Country Programme		Mar 1993	\$60,000	1993-1994	On going
PANAMA						
Several	Country programme preparation Country Programme		Feb 1992	\$30,000	1992-Jun 1993	Completed, Country programme approved in 10th ExCom Meeting
Several	Institutional Strengthening		Jun 1993	\$172,500	1993-1996	Planning underway

Country Sector	Project Title	ODS to be phase-out	Date of approval	Approved Funding	Time frame	Status of implementation
SENEGAL						
Several	Complement for Country programme preparation Country programme		N/A	N/A	1993	CPG started when country was not party. Being presented to 11th ExCom for complementary funding. Being also presented to 11th ExCom for approval
SYRIAN ARAB REPUBLIC						
Several	Country programme preparation Country Programme		Jun 1991	\$25,000	1991-1992	Country programme completed. Submitted for consideration TO the 11th ExCom Meeting
TANZANIA						
Several	Complement for Country programme preparation Country programme		N/A	N/A	1993-1994	Country programme started when country was not party. Being presented to 11th ExCom for complementary funding
TOGO						
Several	Country programme preparation Country Programme		Feb 1992	\$30,000	1992-1993	Internal problems still exist, but the government is trying to restart activities on the Country programme
UGANDA						
Several	Country programme preparation Country Programme		Jun 1991	\$25,000	1991-1993	Draft report ready for review
ZAMBIA						
Several	Country programme preparation Country Programme		Jun 1991	\$25,000	1991-1992	Completed. Country programme approved at 8th ExCom Meeting

Country Sector	Project Title	ODS to be phase- out	Date of approval	Approved Funding	Time frame	Status of implementation
	Institutional Strangthening		Mar 1993	\$75,600	2 years (1993-1994)	Planning underway
ZIMBABWE						
Several	Country programme preparation Country programme		Mar 1993	\$40,000	1993-1994	Phase I underway
REGION:	AFR					
Refrigeration	Regional training course on refrigeration for Africa Training		Feb 1992	\$90,000	Dec 1992	Completed. T.C. held in Nairobi, Kenya
Refrigeration	Regional Training Course on Centrifugal chillers for English Speaking Africa		Jun 1993	\$48,000	1 Year (Jan 94)	Funds transferred from UNDP in Jun'93. Planning underway
Refrigeration	Regional Training Course on Centrifugal chillers for French Speaking Africa		Jun 1993	\$48,000	1 Year (Feb 94)	Funds transferred from UNDP in Jun'93. Planning underway
Several	Regional Workshop for African region Training		Feb 1992	\$210,000	Dec 1992	Completed. Workshop held in Nairobi, Kenya
REGION:	ASP					
Refrigeration	Regional Training Course on Refrigeration for the Southeast Asia/Pacific region		Mar 1993	\$90,000	mid February 1994	on-going
Refrigeration	Regional Training Course on Centrifugal chillers for East-Asia		Jun 1993	\$48,000	1 Year (Dec 93)	Funds transferred from UNDP in Jun'93. Planning underway

Country Sector	Project Title	ODS to be phase- out	Date of approval	Approved Funding	Time frame	Status of implementation
Refrigeration	Regional Training Course on Centrifugal chillers for South-Asia		Jun 1993	\$48,000	1 Year (Dec 93)	Funds transferred from UNDP in Jun'93. Planning underway
Halon	Regional Halon Worskhop, to be organized by Malaysia for Southeast Asian Countries		Mar 1993	\$90,000	mid January 1994	On-going. Workshop scheduled for Jan'94.
REGION:	LAC					
Several	Regional workshop for Latin America and the Caribbean Training		Jun 1991	\$217,000	May 1992	Completed. Workshop held in Caracas, Venezuela
	Support to regional network for OzonAction/ODS focal points Technical assistance		Mar 1993	\$130,000	1 year	Network co-ordinator in position . Workshop schedule for 1st quarter 1994
REGION:	MID-EAST					
Aerosol	Aerosol training workshop Training		Mar 1993	\$90,000	1st quarter 1994	Host country (Jordan) finalized, Postponed, due to 5th meeting of Parties, to Jan 1994
Refrigeration	Regional training Course on Centrifugal Chillers for Mid-East		Jun 1993	\$48,000	1 Year (Mar 93)	Funds transferred from UNDP in Jun'93. Planning underway.
REGION:	ARABIC SPEAKING COUNTRIES					
Several	Regional workshop for Arabic speaking countries Training		Jun 1991	\$217,000	Dec 1991	Completed. Workshop held in Cairo, Egypt

Country Sector	Project Title	ODS to be phase- out	Date of approval	Approved Funding	Time frame	Status of implementation
GLOBAL						
Aerosol	Preparation of training material for aerosol sector Technical assistance		Mar 1993	\$40,000	1 year	Draft will be ready by 4th quarter 1993
Halon	International halon bank clearing-house function Technical assistance		Mar 1993	\$100,000	1 year	Activities initiated in close co-operation with HTOC, various documents prepared. Some under preparation. Contacts with National banks Established
Refrigeration	Preparation of training material for refrigeration sector technical assistance		Mar 1993	\$160,000	1 year	Underway
Several	Ozonaction Newsletter		Mar 1993	\$130,000	1 year	Issues 7 and 8 published in 5 languages (approx. 18000)
Several	Support to networking activities Technical assistance		Mar 1993	\$30,000	1 year	underway
Several	Support to other national training activities Training		Mar 1993	\$50,000	N/A	Being planned
Several	Development of a training strategy training		Mar 1993	\$100,000	1 year	underway

UNEP

Sector	Project Title	Date of Approval	Approved Funding	Time Frame	Status of implementation	Delays
Several	Information exchange Clearinghouse system	Mar 93	\$705,000	1 Year	See details under	
	Catalogue of ODS-Free Technology for Aerosol, Sterilants, Miscellaneous Uses & CFC Sector				Final draft under peer review	Delay in collecting relevant information and establishing Letter of Agreement
	Catalogue of ODS-Free Technology for Flexible & Rigid Foam Sector				Worldwide collection of data underway, quality reviewers identified	Worldwide data collection time was underestimated
	Catalogue of ODS-free Technology for Refrigeration, Air-Conditioning & Heat Pumps Sector				First draft catalogue developed, quality reviewed by TEAP Co-Chair	Complexity of Comercial and proven data collection. Additional Funding required.
	Catalogue of ODS-Free Technology for Solvents, Coatings, & Adhesives Sector				Agreement w/USEPA to cooperate on catalogue development, potential data collection consultants identified	
	Information.data Collection Activities (governments, industry, industry associations, research institutes, NGOs)				On going	
	Sectoral data collection on case studies from developed countries, projects approved and technology summaries projects (updated on regular basis)				Produced first drafts of 4 data collection documents for dissemination	

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Sector	Project Title	Date of Approval	Approved Funding	Time Frame	Status of implementation	Delays
	OAIC Library Activities Document Repository, acquisition				210 references abstracted to date, 159 new documents acquired, updated 7 information documents for dissemination, updated keyword list	
	On-line OAIC System Maintenance				System maintained (regular updates, monitoring, & maintenance)	
	Pilot Project				Planning underway	Implementation of Institutional Strengthening projects awaited
	OAIC Diskette				First version ready. Review expected in Oct 1993. Dissemination to begin in Mar 1993	Technical difficulties in selecting software which should be convenient for Article 5 countries

UNIDO

Attachment A

Progress Report

(in Table Form)

Project Type (*)	Project Title	ODS to be phased-out, tonnes	Approved Funding \$	Date of EC Approval	Time Frame	Present Status Report
Egypt						
PF	a) Elements of a strategy on the refrigeration and airconditioning industry in Egypt: the Government of Egypt, and	N/A	Financed from 100,000 allocated for Egypt	March 1993	2 months	Project document complete and submitted to Government
	b) preparation of investment proposals on phasing-out of CFCs at Kiriazi Household Refrigerators Manufacturing Co. and Electrostar Household Refrigerator Manufacturers, Cairo, Egypt	N/A	Financed from 100,000 allocated for Egypt	March 1993	4 months	UNIDO staff and consultant mission in the fields in September and draft prodocs prepared and being finalized
INV	Phasing-out the use of CFC-12 in the manufacture of extruded polystyrene foam at Advechems	196 MT (CFC-12) annually	904,000	June 1993	12 months	Detailed work schedule prepared and implementation of subcontract underway. Project site being cleared for conversion of manufacturing process.
IS	Institutional Strengthening Unit for the Montreal Protocol related Activities	N/A	263,450	June 1993	3 years	Detailed work plan prepared, Implementation to start October 1993

(*) INV = investment, T = training, IS = institutional strengthening, PF = project formulation

Project Type (*)	Project Title	ODS to be phased-out, tonnes	Approved Funding \$	Date of EC Approval	Time Frame	Present Status Report
Iran						
PF	Preparation of investment project proposals for phase-out of CFC-11 and CFC-12 in domestic refrigeration industry	QDP reduction 150 (CFC-12) 360 (CFC-11) annually	Financed from 50,000 allocated for Iran	March 1993	3 months	UNIDO staff and consultant mission completed fields survey of five companies and prodoc submitted to 11th ExCom as further amendment
Syria						
PF	Preparation of Investment Projects on: Phasing-out of CFCs at Al-Hafez Refrigerator Factory and at Barada Company for Metal Industry (A manufacturer of household refrigerators)	N/A	Financed from 35,000 allocated for Syria	March 1993	2 months	Consultant to be cleared by Government and schedules mission in October 1993
IS	Support to strengthen the General Commission for Environmental Affairs to Implement Montreal Protocol related activities	N/A	235,180	June 1993	3 years	Detailed work programme prepared. Implementation to start in October 1993
China						
PF	Preparation of investment projects in foams and solvents sector	N/A	150,000 for project formulation	march 1993	6 months	Active negotiations underway with Government for project identification and formulation. UNIDO high-level mission schedules end-October 1993
PF	Phasing-out of ODS used in tobacco expansion	N/A	From 150,000 approved for China	March 1993	6 Months	National expert recruited. International expert and UNIDO staff schedules mission mid-October. Prodoc to be ready end-October 1993

(*) INV = investment, T = training, IS = institutional strengthening, PF = project formulation

Project Type (*)	Project Title	ODS to be phased-out, tonnes	Approved Funding \$	Date of EC Approval	Time Frame	Present Status Report
India						
PF	Feasibility study for the recovery and recycling of CFC refrigerants	N/A	55,000	June 1993	4 months	National project team being recruited and UNIDO ready to start feasibility study
PF	Conversion of electronic cleaning processes from CFC-113/alcohol blended solvents and 1,1,1 trichloromethane to non-CFC cleaning. Project preparation on elimination of ODS solvents at ITI-Mankapur	N/A	Financed from 74,000 for conversion of electronic processes	June 1993	4 months	Identification of national institution as well as expert for project underway. Work to start in October 1993. Project document finalized, submitted to Government
PF	Phasing-out of ODS in unorganized sector	N/A	55,000	June 1993	4 months	National consulting firms are being identified. Survey in 4-5 states ready to start
Jordan						
PF	Preparation of investment projects for phasing-out CFCs in the refrigeration sector	N/A	90,000	June 1993 (?)	4 months	Consultant will visit four plants in the field for project formulation in October/November 1993
Brazil						
PF	Preparatory assistance for elimination of CFCs in the sector of polymer foams manufacturing of Brazil	N/A	150,000	March 1993	6 months	Workshop was organized by UNIDO. Follow-up activities on specific projects are expected from the Government

(*) INV = investment, T = training, IS = institutional strengthening, PF = project formulation

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
ARGENTINA							
Several	Country programme preparation <i>Country programme</i>	-	Mar 1993	85,000	53,873	1993-1994	CP preparation underway. First draft finalized in September 1993 and under review
	Preparation of investment projects <i>Project Preparation</i>	-	Mar 1993	63,000	63,000	1994	Several projects have been identified and are under preparation
	Preparation of investment projects <i>Project Preparation</i>	-	Jun 1993	100,000		1994	Project presentation anticipated for first EC Meeting of 1994. PPA to be prepared to initiate the establishment.
BRAZIL							
Refrigeration	Assembly line refitting for HFC-134a refrigerator compressor, commercial production <i>Investment</i>	N/A	Jun 1992	530,000	1/	3 years (1992-1995)	Discussions focusing on institutional arrangements for project development and implementation. Will be processed through the umbrella agreement.
	CFC-12 collection, recycling and conservation programme for household refrigerator maintenance and repair shops <i>Demonstration (phase I) investment (phase II)</i>	N/A	Jun 1992	2,000,000	1/	3 years (1992-1995)	Pilot programme being designed. To be processed through the umbrella agreement.
	Project preparation on converting CFC-11 central air conditioning units with HCFC-123 or HFC-134a <i>Project preparation</i>	-	Jun 1992	400,000	1/	1993	To be processed through umbrella agreement
Several	Country programme preparation <i>Country programme</i>	-	Mar 1993	30,000		1993	Data collection underway. CP finalization will be funded through umbrella grant agreement.
	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	112,000	37,356	N/A	Umbrella agreement has been prepared and is under review
CHILE							
Several	Implementation of the country programme <i>Investment, training</i>	729	Jun 1992	1,206,000		1993-1996	Appraisal completed by Bank in June.

1/ Projects approved in principle at 7th Meeting of the EC. Nevertheless, funds were transferred to the Bank.

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
CHILE							
Several	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	82,890	38,332	N/A	Project preparation completed. Supervision to begin in the near future.
CHINA							
Aerosol	Project I: Tianjin CFC conversion to LPG propellant <i>Investment</i>	6300	Jun 1992	2,770,000		2 years (1992-1994)	Grant agreement being negotiated. (China ODS I)
	Project I: Shanghai CFC conversion to LPG propellant <i>Investment</i>	6300	Jun 1992	2,309,000		2 years (1992-1994)	Grant agreement being negotiated. (China ODS I)
Foam	Project I: Zhejiang foam plant conversion to butane <i>Investment, training</i>	500	Jun 1992	993,000		2 years (1992-1994)	Grant agreement being negotiated. (China ODS I)
	Project I: 50% CFC foam <i>Investment, training</i>	1760	Jun 1992 or 1993	1,878,000 3,495,000		2 years (1992-1994)	Permission given to proceed at 10th ExCom Meeting. Final project processing underway. (Will become China ODS II).
	Technical assistance for the implementation of the Zhejiang foam plant conversion to butane <i>Technical assistance</i>	-	Mar 1993	20,000		2 years (1992-1994)	Part of China ODS I.
Halon	Project I: Zhejiang halon extinguisher conversion <i>Investment</i>	500	Jun 1992	730,000		1.5 years (1992-1993)	Grant agreement being negotiated. (China ODS I)
	Project I: Beijing ABC powder production project <i>Investment</i>	400	Jun 1992	930,000		1 year (1992-1993)	Grant agreement being negotiated. (China ODS I)

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
CHINA							
Halon	Technical assistance for the implementation of the Beijing ABC powder production and Zhejiang halon extinguisher conversion projects <i>Technical assistance</i>	-	Mar 1993	50,000		2 years (1992-1994)	Grant agreement being negotiated.
Refrigeration	Pre-investment activities for Nanjing compressor and four refrigeration projects <i>Project preparation</i>	N/A	Oct 1992	300,000		1992	PPA agreement was completed in June 1993. Project preparation undertaken in September 1993.
Several	Project preparation advance for developing components of Project I <i>Project preparation</i>	-	Jun 1992		250,000	N/A	In progress (\$0.25M out of \$1.5M disbursed to the Gov't.). \$0.9M has been assigned to ODSI while \$0.6M is being assigned to OD.
	Financial agent fee for the implementation of approved projects (two aerosols, two foams, two halons) <i>Technical assistance</i>	-	Mar 1993	185,000		2 years	Part of China ODS I.
	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	326,000	141,822	N/A	Funds being utilized for project processing and pipeline development.
	Preparation of investment projects <i>Project preparation--User sectors</i>	-	Jun 1993	280,000		1993/94	Activities to be initiated in the Sept/Oct mission. (Preliminary results in note on production sector.)
	Preparation of investment projects <i>Project Preparation--Production sector</i>	-	Jun 1993	240,000		1993/94	Activities undertaken in July 1993. Project concept for CFC-12 to HCFC-22 conversion project has been prepared.
ECUADOR							
Aerosol	Conversion of aerosol plants to hydrocarbon propellants <i>Investment</i>	290	Mar 1993	697,000		2 years (1993-1994)	Project appraisal completed in June 1993
Foam	Reduction of CFC-11 use in foam insulation at three refrigerator manufacturing plants <i>Investment</i>	51	Mar-1993	665,000		1993-1994	Project appraised in June 1993. Negotiations on-going. Planned approval in September 1993.

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
ECUADOR							
Foam	Institutional strengthening <i>Institutional strengthening</i>	-	Mar 1993	204,000		3 years (1993-1995)	Part of grant agreement
	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	68,000	59,500	N/A	Funds being utilized for final processing of project and initial supervision.
EGYPT							
Refrigeration	Conversion of refrigeration compressor manufacturing to HFC-134a at MCMC <i>Investment, training</i>	324	Oct 1992	2,800,000		18 months (1992-1994)	Appraisal mission was completed in June 1993.
Several	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	112,200	36,759	N/A	Funds being utilized to process MCMC project.
GUATEMALA							
Several	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	47,000	33,512	N/A	Mission to finalize CPG and identified project proposals for UNDP/UNEP completed (Apr 1993). Activities in country completed.
INDIA							
Refrigeration	Chiller Retrofits to HCFC 123 <i>Investment</i>	-	Jun 1993	567,000			Newly approved. Project appraisal completed in July 1993.
	Refrigeration Compressor Product Conversion <i>Investment</i>	-	Jun 1993	685,000			Newly approved. Appraisal completed in July 1993.
Several	Preparation of investment projects <i>Project preparation.</i>	-	Mar 1993	400,000	159,130		Bank has cleared 26 sub-projects for consideration by GOI.
INDONESIA							
Several	Project preparation advance (I) <i>Project preparation</i>	N/A	Mar 1993	250,000		N/A	PPA approved by Bank Management in June. Funds to be utilized to prepare second tranche of projects.

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
INDONESIA							
Several	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	206,000	68,975	N/A	Funds utilized to prepare first tranche of projects presented to the 11th Meeting of the EC.
JORDAN							
Aerosol	Deodorization of liquified petroleum gas (LPG) <i>Investment</i>	200	Jun 1992	700,000		3 years (1992-1994)	Committed on September 16, 1993.
	Conversion of aerosol fillers. <i>Investment</i>	50	Jun 1992	250,000		2 years (1994-1995)	Committed on September 16, 1993.
Foam	Reduction of CFC-11 in rigid insulation foams in domestic and commercial refrigerators <i>Investment</i>	25	Jun 1992	150,000		2 years (1993-1994)	Committed on September 16, 1993. Project preparation in refrigeration sector being undertaken by UNIDO.
	Reduction of CFC-11 in flexible foam <i>Investment</i>	40	Jun 1992	200,000		2 years (1993-1994)	Committed on September 13, 1993. Flexible foam projects were emphasized (more cost effective) in sub-projects funded in grant agreement.
Refrigeration	Preparation of investment projects in air conditioning, commercial and domestic refrigeration <i>Project preparation</i>	-	Jun 1992	100,000		4 years (1993-1996)	Committed by Bank management on September 13, 1993. Project preparation in refrigeration sector being undertaken by UNIDO.
Several	Policy and monitoring measures <i>Institutional strengthening</i>	-	Jun 1992	100,000		N/A	Approved.
	Country program preparation <i>Country programme</i>	-	Mar 1993	8,200		N/A	CP completed and presented to the 10th Meeting of the EC.
	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	123,200	80,829	N/A	Funds being utilized for final project processing and early supervision.

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
MALAYSIA							
Halon	Servicing, maintenance and recovery of portable extinguishers (halon-1211) and training programme <i>Investment</i>	300	Feb 1992	720,000		1 year (1992-1993)	Grant agreement signed (Nov 1992). Project implementation underway.
Refrigeration	Conservation, leakage control and recycling of CFC-12 and demonstration project in MAC sector <i>Investment</i>	370	Feb 1992	910,000		1 year (1992-1993)	Grant agreement signed (Nov 1992).
Several	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	28,200	3,635	N/A	Newly approved
MEXICO							
	Implementation of projects identified in the country programme <i>Investment, training</i>		Nov 1991	4,000,000		1992-1996	Grant agreement signed (Dec 1992). Eleven sub-projects in pipeline. Subsidiary agreements have been signed. Four sub-projects totalling over \$1.0 million have been approved.
	Safety programme in aerosol plant and recycling training and demonstration project in MAC <i>Training, demonstration</i>		Jun 1991	180,000		Nov 1992	Grant agreement signed (Apr 1992). Key subsidiary agreements signed. Implementation in progress.
	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	123,400	32,520	N/A	Funds being utilized for support to pipeline development and supervision.
NIGERIA							
Several	Country programme preparation <i>Country programme</i>	-	Mar 1993	35,100	24,072	N/A	Request for consultant proposal initiated.
	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	62,500		N/A	Subject to CP preparation. Participation of UNIDO in project preparation confirmed.

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
PHILIPPINES							
Foam	Application of a reduced CFC blowing agent and non-CFC application preparation at Philippines Appliance Corporation (Philacor) <i>Investment</i>	120	Mar 1993	1,770,000		4 years (1993-1996)	Project appraisal completed. Negotiations underway.
	Application of a reduced CFC blowing agent and non-CFC application preparation at Concepcion Industries <i>Investment</i>	35	Mar 1993	790,000		4 years (1993-1996)	Project appraisal completed. Negotiations underway.
	Application of a reduced CFC blowing agent and non-CFC application preparation at Sanyo Philippines <i>Investment</i>	9	Mar 1993	660,000		4 years (1993-1996)	Project appraisal completed. Negotiations underway.
	Application of a reduced CFC blowing agent and non-CFC application preparation at Federal Electric Company <i>Investment</i>	5	Mar 1993	770,000		4 years (1993-1996)	Project appraisal completed. Negotiations underway.
Other	Conversion of tobacco fluffing process to carbon dioxide at Fortunate Tobacco corporation <i>Investment</i>	350	Mar 1993	4,720,000		3 years (1993-1995)	Project appraisal completed. Negotiations underway.
Solvent	Conversion to semi-aqueous and aqueous cleaning solvents at Ionics Circuits, Inc. <i>Investment</i>	171	Mar 1993	790,000		6 months (1993-1994)	Project appraisal completed. Negotiations underway.
	Conversion to low-emission processing and organic solvents at Pacific Semiconductors, Inc. <i>Investment</i>	25	Mar 1993	710,000		6 months (1993-1994)	Project appraisal completed. Negotiations underway.
	Conversion to low-emission processing and organic solvents at Electronic Assemblies, <i>Investment</i>	5	Mar 1993	710,000		6 months (1993-1994)	Project appraisal completed. Negotiations underway.

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
PHILIPPINES							
Solvent	Conversion to high-purity water cleaning at Integrated Microelectronics, Inc. <i>Investment</i>	19	Mar 1993	430,000		6 months	Project appraisal completed. Negotiations underway.
	Conversion to semi-aqueous cleaning solvents at Solid Circuits, Inc. <i>Investment</i>	4	Mar 1993	70,000		6 months	Project appraisal completed. Negotiations underway.
	Controlled substances engineering project <i>Project preparation</i>	-	Feb 1992	400,000		1992-1993	Grant agreement signed (Jun 92). Investment projects approved at the 9th ExCom Meeting. Full disbursements approaching completion.
	Information exchange programme <i>Training</i>	-	Mar 1993	200,000		1 year (1993)	At the request of GOP this sub-project transferred to UNEP.
	Technical assistance for the financial institution <i>Technical assistance</i>	-	Mar 1993	100,000		1 year	Negotiations underway.
	Institutional strengthening for Ozone Desk Operations <i>Institutional strengthening</i>	-	Mar 1993	209,000		6 months	Negotiations underway.
	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	194,550	48,210	N/A	
THAILAND							
Refrigeration	CFC recycling in MAC <i>Investment</i>	250	Jun 1992	900,000		2 years (1992-1994)	Grant agreement under preparation. Project will be included in the umbrella grant agreement for projects approved at the 10th ExCom Meeting
Solvent	Thai-Airways non ODS metal cleaning <i>Investment</i>	10	Jun 1992	100,000		2 years (1992-1994)	Feasibility study completed. Results forthcoming.
Several	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	190,000	141,549	N/A	Funds being utilized for project preparation and processing.

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
THAILAND							
Several	Controlled substances engineering project <i>Project preparation</i>	-	Feb 1992	390,000	360,000	1992-1993	Grant agreement signed (Aug 92). Project proposals submitted to 10th ExCom Meeting
Solvent	Saha Union <i>Investment</i>	-	Jun 1993	2,570,000		1994-1995	Project processing ongoing.
	Hana Semiconductor <i>Investment</i>	-	Jun 1993	1,000,000		1994-1995	Project processing ongoing.
	GSS Array <i>Investment</i>	-	Jun 1993	320,000		1994-1995	Project processing ongoing.
	CI Group <i>Investment</i>	-	Jun 1993	280,000		1994-1995	Project processing ongoing.
	Thai Heat Exchanger <i>Investment</i>	-	Jun 1993	270,000		1994-1995	Project processing ongoing.
Refrigeration	Thai Toshiba Phase I <i>Investment</i>	-	Jun 1993	830,000		1994-1995	Project processing ongoing.
	Sayo Universal -- 2 sites, Phase I. <i>Investment</i>	-	Jun 1993	1,890,000		1994-1995	Project processing ongoing.
	Kang Yong -- Mitsubishi Phase I <i>Investment</i>	-	Jun 1993	1,100,000		1994-1995	Project processing ongoing.
	Hitachi -- Phase I <i>Investment</i>	-	Jun 1993	550,000		1994-1995	Project processing ongoing.
	Sanyo Universal <i>Investment</i>	-	Jun 1993	1,000,000		1994-1995	Project processing ongoing.
	Kulthorn Kirby <i>Investment</i>	-	Jun 1993	680,000		1994-1995	Project processing ongoing.
Foam	Tecnic Foam <i>Investment</i>	-	Jun 1993	180,000		1994-1995	Project processing ongoing.

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
TUNISIA							
Aerosol	Technical seminar and conversion to non-CFC technology in aerosol sector <i>Investment, training</i>	230	Jun 1992	350,000		1993	GOT requested appraisal to be rescheduled from July to October.
Foam	Technical assistance and demonstration of non-CFC technology in rigid and flexible foam production <i>Investment, training</i>	700	Jun 1992	100,000		10 months (1993)	GOT requested appraisal to be rescheduled from July to October.
	Introduction of low-CFC and non-CFC in rigid foams in refrigeration insulation <i>Investment</i>	175	Jun 1992	300,000		1993	GOT requested appraisal to be rescheduled from July to October.
Refrigeration	Maintenance of domestic, commercial and industrial refrigeration systems <i>Investment</i>	100	Jun 1992	400,000		3 years (1993-1996)	GOT requested appraisal to be rescheduled from July to October.
	Technical assistance for development of HFC-134a-based domestic refrigerators <i>Investment</i>	60	Oct 1992	360,000		2.5 years (1993-1996)	GOT requested appraisal to be rescheduled from July to October.
Several	Institutional strengthening <i>Institutional strengthening</i>	-	Oct 1992	280,000		3 years (1993-1996)	
	Country programme preparation <i>Country programme</i>	-	Mar 1993	8,200		N/A	Assistance on CP preparation completed.
	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	165,800	12,130	N/A	Newly approved
TURKEY							
Refrigeration	Recovery and recycling of CFC-12 at a refrigeration production plant <i>Investment</i>	4	Jun 1992	65,000		N/A	Project appraisal completed (May 1993). Grant agreement signature in September 1993.
	Recovery and reclamation of CFC-12 from household refrigerators <i>Investment</i>	-	Jun 1992	400,000		1.5 years (1993-1994)	Project appraisal completed (May 1993). Grant agreement signature in September 1993.

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
TURKEY							
Several	Institutional strengthening <i>Institutional strengthening</i>	-	Oct 1992	300,000		3 years (1993-1995)	Project appraisal completed (May 1993). Grant agreement signature in September 1993.
	Introduction of non-ODS technologies in the production of domestic refrigerators at Arcelik A.S. <i>Investment</i>	750	Oct 1992	4,900,000		3 years (1993-1996)	Project appraisal completed (May 1993). Grant agreement signature in September 1993.
	Demonstration activities <i>Demonstration</i>	-	Jun 1992	500,000		1 year	Project appraisal completed (May 1993). Grant agreement signature in September 1993.
	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	140,400	181,903	N/A	Funds being utilized in support of project processing.
VENEZUELA							
Foam	Conversion of a CFC-12 polystyrene foam production facility to use hydrocarbons as blowing agent <i>Investment</i>	259	Jun 1992	1,300,000	130,000	1 year (1992-1993)	Grant agreement with Gov't. signed (Apr 1993). Project already under implementation. Expected retroactive financing of over \$300,000.
Refrigeration	Replacement of CFC by HFC-134a as a refrigerant in central air conditioning units <i>Investment</i>	14	Oct 1992	1,100,000		1993-1994	Project appraised in Jun 1993. Small change in scope. Final approval expected shortly.
Several	Preparation of investment projects <i>Project preparation</i>	-	Mar 1993	156,200	105,887	N/A	N/A

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
GLOBAL							
Refrigeration	Global refrigeration project <i>Project preparation</i>	-	Oct 1992	60,000	30,000	1993-1994	Six sub-projects developed in India and Thailand
Solvent	Global solvent project <i>Project preparation</i>	-	Oct 1992	260,000	80,465	1993-1994	Other workshops in Mexico and Turkey completed in most recent
Aerosol	Global aerosol project <i>Project preparation</i>	-	Jun 1993	350,000		1993-1994	Initiated discussions on contracting arrangements

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Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
ARGENTINA							
	Country programme preparation <i>Country programme</i>	-	Feb 1992	149,337		1993-1994	Funds not fully utilized in 1992. Activity refunded in 1993. Underway
BRAZIL							
Several	Country programme preparation <i>Country programme</i>	-	Feb 1992	123,788		Mid-1993	Gov't. has lead completion (May 1993). Not all funds utilized in 1992. Activity refunded in 1993.
CHILE							
Several	Country programme preparation <i>Country programme</i>	-	Jun 1991	121,166		1991-Jun 1992	Completed. Country programme approved at 7th Executive Committee Meeting
	Preparation of investment projects <i>Project preparation</i>	-	Feb 1992	191,878		1992	Completed. Five sub-components processed. Not all funds utilized
CHINA							
Several	Preparation of investment projects <i>Project preparation</i>	-	Jun 1991	184,000		N/A	Completed. Funds utilized
ECUADOR							
Aerosol	Conversion of six aerosol plants from CFC-12 to LPG <i>Project preparation</i>	0	Feb 1992			1992	Completed. Funds not utilized. However, projects have been prepared and approved at the 9th ExCom Meeting
Foam	Reduction of CFC-11 use in foam insulation at three refrigerator manufacturing plants <i>Project preparation</i>	0	Feb 1992			1992	Completed. Funds not utilized. However, projects were approved at 9th ExCom Meeting
Several	Country programme preparation <i>Country programme</i>	-	Feb 1992	76,100		1992	Completed. Country programme approved at the 6th ExCom Meeting

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
ECUADOR							
Several	Preparation of investment projects <i>Project preparation</i>	-	Feb 1992	95,026		1992	Completed. Projects in aerosol and rigid foam sectors prepared
EGYPT							
	Country programme preparation <i>Country programme</i>	-	Jun 1991	96,507		1991-1992	Completed. Country programme approved at 8th ExCom Meeting
	Preparation of investment projects <i>Project preparation</i>	-	Feb 1992	227,827		N/A	Closed. Funds not utilized. UNDP is implementing agency
GUATEMALA							
Several	Preparation of investment projects <i>Project preparation</i>	-	Oct 1992	25,000		N/A	
INDONESIA							
Several	Country programme <i>Institutional strengthening</i>	-	Oct 1992	54,000		1993	Funds not utilized. UNDP has lead preparation to begin in early 1993. IBRD will participate
IRAN							
Several	Preparation of investment projects <i>Project preparation</i>	-	Feb 1992	20,000		N/A	Closed. Funds not utilized
JORDAN							
Several	Country programme preparation <i>Country programme</i>	-	Feb 1992	70,000		1992	Country programme completed. Submitted for consideration to the 10th ExCom Meeting
	Preparation of investment projects <i>Project preparation</i>	-	Jun 1991	24,464		1991-1992	Completed
MALAYSIA							
Several	Country programme preparation <i>Country programme</i>	-	Jun 1991	16,294		1991-1992	Completed. Country programme approved at 6th ExCom Meeting

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
MALAYSIA							
Several	Preparation of investment projects <i>Project preparation</i>	-	Jun 1991	38,289		2 years (1991-1992)	Assistance to the Gov't. in initial appraisals of approved projects
	Preparation of investment projects <i>Project preparation</i>	-	Feb 1992	120,000		2 years (1991-1992)	Assistance to the Gov't. in initial appraisals of approved projects
MEXICO							
Several	Country programme preparation <i>Country programme</i>	-	Jun 1991	36,061		1991-1992	Completed. Country programme approved at 6th ExCom Meeting
	Preparation of investment projects <i>Project preparation</i>	-	Jun 1991	68,164		N/A	
	Preparation of investment projects <i>Project preparation</i>	-	Feb 1992	292,076		N/A	
NIGERIA							
Several	Country programme preparation <i>Country programme</i>	-	Feb 1992	271,255		N/A	Delays in consultant selection. Activity refunded in 1993 .
	Preparation of investment projects <i>Project preparation</i>	-	Feb 1992	144,078		N/A	Delays in consultant selection. Activity refunded in 1993 .
PHILIPPINES							
Several	Country programme preparation <i>Country programme</i>	-	Jun 1991	19,952		N/A	Under review. To ExCom by early 1993
	Preparation of investment projects <i>Project preparation</i>	-	Feb 1992	100,000		1992-1993	Completed. Project proposals approved at 9th ExCom Meeting

Country Sector	Project title/ Project type	ODS to be phased-out	Date of Approval	Approved funding	Funds Disbursed	Time Frame	Status of Implementation
THAILAND							
Several	Country programme preparation <i>Country programme</i>	-	Jun 1991	190,909		N/A	Draft CPG completed. Government has lead
	Preparation of investment projects <i>Project preparation</i>	-	Feb 1992	120,000		N/A	Project proposals to be submitted to the 10th ExCom Meeting
TRINIDAD AND TOBAGO							
Several	Preparation of investment projects <i>Project preparation</i>	-	Jun 1991	86,843		N/A	Funds not utilized.
TUNISIA							
Several	Country programme preparation <i>Country programme</i>	-	Feb 1992	125,000		1 year (1992-1993)	Completed. CP has been translated and subject to Govt. review.
	Preparation of investment projects <i>Project preparation</i>	-	Feb 1992	50,000		1992	Completed. Projects submitted for approval at 7th and 8th ExCom Meetings
	Preparation of investment projects <i>Project preparation</i>	-	Jun 1991	64,748		1991-1992	Completed. Projects submitted for approval at 7th and 8th ExCom Meetings
TURKEY							
Several	Country programme preparation <i>Country programme</i>	-	Feb 1992	13,515		1992	Completed. Country programme approved at 8th ExCom Meeting
Several	Preparation of investment projects <i>Project preparation</i>	-	Feb 1992	217,687		1992	Completed. Projects submitted for approval at 7th and 8th ExCom Meetings
VENEZUELA							
Several	Country programme preparation <i>Country programme</i>	-	Feb 1992	61,591		N/A	Closed. Funds not utilized. IBRD assistance has not been requested.
	Preparation of investment projects <i>Project preparation</i>	-	Feb 1992	107,058		N/A	Underway

Bilateral Activities

as at September 1993

Country Sector	Project title/ Project type	ODS to be phased-out	Date of approval	Approved funding	Funds disbursed	Time frame	Status of implementation
AUSTRALIA							
REGION: ASP							
Several	Support to ASEAN regional conference on CFC and halons <i>Training</i>	-	Oct 1992	\$4,420	\$4,317	Mar 1992	Completed
	Support for delegates from six Asian countries to participate in regional workshop on alternatives to CFC <i>Training</i>	-	Jun 1992	\$39,394	\$34,974	Mar 1992	Completed. Workshop held in Canberra, Australia
GERMANY							
GLOBAL							
Several	Support to attend the Alternatives to CFC and Halons Technologies and Substances conference <i>Training</i>	-	Jun 1992	\$18,378	\$18,378	Feb 1991	Completed
USA							
CHINA							
Refrigeration	Staged project to produce CFC-free refrigerators in China (stage 1a: model prototype development and testing) <i>Technical assistance</i>	-	Jun 1993	\$396,110		6 months (1993)	Newly approved
Several	CFC and halon alternatives workshop. Organization support for international conference <i>Training</i>	-	Oct 1992	\$87,000	\$78,000	Jun 1992-Oct 1993	Workshop held in Jun 1992). Conference for 450 participants held in Apr 1993. Request for funds for conference implementation going to 11th ExCom Meeting
ECUADOR							
Aerosol	Technical assistance in aerosol project preparation <i>Project preparation</i>	-	Oct 1992	\$6,000	\$6,000	Mar-Apr 1992	Completed

Bilateral Activities

as at September 1993

Country Sector	Project title/ Project type	ODS to be phased-out	Date of approval	Approved funding	Funds disbursed	Time frame	Status of implementation
USA							
Foam	Feasibility study for reduction of CFC-11 in rigid polyurethane foam insulation for refrigerators using water/CO2 formulation <i>Project preparation</i>	-	Oct 1992	\$41,000	\$41,000	Oct 1991-Mar 1993	Completed. Assisted in the preparation of World Bank's project proposal approved at the 9th ExCom Meeting. request for funds for additional work related to project implementation being proposed to 11th ExCom Meeting
Several	Support for country programme preparation <i>Country programme</i>	-	Jun 1992	\$50,000	\$50,000	1991	Completed. Country programme approved at the 6th ExCom Meeting
MEXICO							
Refrigeration	Chiller hands-on training <i>Training, demonstration</i>	-	Oct 1992	\$81,000	\$81,000	Jan 1992-Aug 1992	Completed
Solvent	Mexican solvents programme to reduce CFC-113 and methyl chloroform <i>Training, project preparation</i>	17	Oct 1992	\$360,000	\$360,000	Oct 1991-Mar 1993	Completed. Workshops held. Funding applications prepared. Requests for funding approval for additional project preparation/implementation work going to 11th ExCom Meeting
Several	Assistance to country programme and investment projects preparation <i>Country programme</i>	-	Oct 1992	\$28,000	\$28,000	1991-1992	Completed
	Support for country programme preparation and development of project proposals <i>Project preparation</i>	-	Jun 1992	\$145,000	\$145,000	1991-1992	Completed
	Institutional strengthening <i>Institutional strengthening</i>	-	Jun 1992	\$285,000	\$186,000	1992-1994	Ongoing activities: hired 3 full-time staff, established office communications infrastructure, staff have supported 6 workshops, helped to negotiate World Bank agreements, responded to several inquiries, developing ODS reduc. legislation, consum database
THAILAND							
Solvent	Follow-up activities of the USA/Thailand/Japan conference on conservation, containment and alternatives <i>Technical assistance</i>	-	Oct 1992	\$203,000	\$108,000	1992-1994	Draft technical manual on eliminating the use of ODS in aircraft maintenance procedures has been completed.

Bilateral Activities

as at September 1993

Country Sector	Project title/ Project type	ODS to be phased-out	Date of approval	Approved funding	Funds disbursed	Time frame	Status of implementation
USA							
VENEZUELA							
Refrigeration	Technical assistance and demonstration project in CFC recycling in MAC <i>Demonstration</i>	-	Oct 1992	\$115,000	\$69,000	Oct 1992-Sep 1993	Information gathered on regulations in other countries, on MAC recovery/recycling equipment. Technical outline to gather information about the MAC servicing industry and maintenance practice in Venezuela completed. Study completed
Several	Country programme preparation <i>Country programme</i>	-	Oct 1992	\$43,000	\$43,000	Dec 1991-Sep 1992	Completed
REGION: ASP							
Halon	South-east Asia halon-1211 training workshop in Japan <i>Training</i>	-	Oct 1992	\$190,000	\$190,000	Mar 1992	Completed
GLOBAL							
Halon	Regional workshops in halon-1211 training <i>Training</i>	-	Oct 1992	\$429,000	\$224,000	Aug 1992-Aug 1993	One workshop held (Beaufort, USA, Sep 1992). China halon workshop supported. The unspent funds will be used for bilateral activities related to the implementation of the global halon project (being jointly implemented with UNDP)
	Follow-up to regional halon-1211 workshop <i>Demonstration</i>	-	Oct 1992	\$80,000	\$77,000	Aug 1992-Sep 1993	Strategy to assess use of halon and deploy halon recovery/recycling machines. Assessment missions to Panama, Uruguay completed. Translation of manual into Spanish and an ODS information videotape. Future activities involve implementation of strategy