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EXECUTIVE COMMITTEE OF
THE MULTILATERAL FUND FOR THE
IMPLEMENTATION OF THE MONTREAL PROTOCOL
Twenty-sixth Meeting
Cairo, 11-13 November 1998

PROJECT PROPOSAL: GABON

This document includes the comments and recommendations of the Fund Secretariat on the following project proposal:

Refrigerant Management Plan

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| • Custom training | UNEP |
| • Train the trainers programme in the refrigeration sector | UNEP |
| • Implementation of a national programme for recovery and recycling of refrigerant | UNDP |
| • Monitoring the activities included in the RMP | UNDP |

PROJECT EVALUATION SHEET

GABON

SECTOR: REFRIGERATION ODS use in sector (1997): 61.4 ODP tonnes

Sub-sector cost-effectiveness thresholds: RMP N/A

Project Title:

Refrigerant Management Plan:

Project Data	REFRIGERANT MANAGEMENT PLAN	
ODS phase-out (ODP tonnes)		12.2
Proposed project duration (months)		24
Incremental capital cost (US \$)		390,825
- including contingency (%)		10
Incremental operational cost (US \$)		-
Total project cost (US \$)		390,825
Local ownership (%)		100
Export component (%)		-
Amount requested (US \$) {Original}		390,825
{Revised}		320,570
Cost effectiveness (US \$/kg)		19.13
National Coordinating Agency	National Ozone Unit	
Implementing Agency	UNDP, UNEP	
Technical review completed?	N/A	

Secretariat's Recommendations:

Amount recommended (US \$)	320,570
Project impact (ODP tonnes)	12.2
Cost effectiveness (US \$/kg)	19.13
Implementing Agency support cost (US \$)	41,674
Total cost to Multilateral Fund (US \$)	362,244

PROJECT DESCRIPTION

Refrigerant Management Plan:

1. In 1996, total ODS consumption in the refrigeration sector in the country was estimated at 61 ODP tonnes in the refrigeration, air-conditioning, and MAC subsectors. Based on data gathered during a survey completed in 1998, there are more than 550 refrigeration technicians in the country, twenty-six formal service workshops and many smaller ones of assorted sizes. These workshops conduct maintenance and repair of domestic, commercial, and industrial refrigeration equipment. Many also maintain MAC units.
2. The Government's Action Plan proposes to develop and implement specific control measures including, *inter alia*, implementation of regulations through legislative action, decrees and resolutions; establishment of import regulations, quotas and licenses for trade of ODS; implementation of fiscal incentives and taxes to encourage the reduction in the use of ODS; public awareness; training of refrigeration and air-conditioning service technicians and customs officers as well as the implementation of a national programme for recovery and recycling of refrigerants.
3. The RMP identified two basic training programmes, namely, training for customs officers (inspectors, controllers, and customs police officers), to identify and develop techniques for collecting and reporting consumption of ODS import and ODS-based refrigeration equipment; and a "train the trainers" programme for refrigeration technicians in good management practices. This programme aims at improving service and maintenance practices to prevent intentional and/or unintentional release of ODS into the atmosphere, thus making it possible for refrigeration equipment to operate to the end of its useful life.
4. The RMP also includes a subproject for the establishment of a recovery and recycling network comprising 50 recovery units (including units to be used in the training programme on good servicing practices) and 5 recycling centers for servicing commercial and industrial refrigeration equipment, at a cost of US \$217,470. This activity also provides for 6 one-day workshops for service technicians on practical demonstrations on recovery and recycling equipment. This project is part of an overall strategy by the Government of Gabon for the refrigeration and air conditioning sector. The first priorities are to stop the discharge of CFCs into the atmosphere, due to leaks and servicing emissions, and to recover CFC from existing installations during maintenance and prior to retrofits or dismantlement.
5. Implementation of these projects will lead to the recovery and recycling of 12.2 tonnes of CFC each year. This amount does not consider the amount of refrigerant that might be saved owing to the teaching of good service and maintenance practices at the training seminars.
6. The Ozone Protection Unit will be responsible for the monitoring, co-ordination, and implementation of proposed phase-out activities in the RMP. It will allocate and distribute the equipment and monitor the quantity of refrigerants being recovered and recycled; and maintain a database to monitor the information received from service and recycling centers.

SECRETARIAT'S COMMENTS AND RECOMMENDATIONS

COMMENTS

1. The RMP for Gabon follows the RMP guidelines as revised by UNEP.
2. The Secretariat requested clarification on the level of funding requested for the training activities, which are higher compared to similar ones included in approved RMPs. The level of funding for these activities was adjusted accordingly.
3. The Secretariat and the implementing agencies (UNDP and UNEP) also discussed the size of the recovery and recycling programme in relation to CFC consumption level and its sectoral distribution, and the modalities of coordination and implementation of the various activities in the RMP, including their cost, the monitoring and evaluation roles of the Ozone Unit, the responsibilities of government agencies and industrial associations during implementation of the RMP, as well as the Government's commitment to its implementation.

RECOMMENDATIONS

1. The Fund Secretariat recommends blanket approval of the project with associated support costs at the funding level shown in the table below:

Project Title	Project Cost US \$	Support Cost US \$	Implementing Agency
Implementation of a refrigerant management plan:			
(a) Customs training	31,000	4,030	UNEP
(b) Train the trainers programme in the refrigeration sector	45,000	5,850	UNEP
(c) Implementation of a national programme for recovery and recycling of refrigerant	232,470	30,221	UNDP
(d) Monitoring the activities included in the RMP	12,100	1,573	UNDP

2. To request UNDP not to proceed with the disbursement of funds approved for the recovery and recycling programme until the regulatory and legislative requirements and fiscal steps proposed by the Government of Gabon are put into place.