



**United Nations  
Environment  
Programme**



Distr.  
LIMITED

UNEP/OzL.Pro/ExCom/41/35  
19 November 2003

ORIGINAL: ENGLISH

EXECUTIVE COMMITTEE OF  
THE MULTILATERAL FUND FOR THE  
IMPLEMENTATION OF THE MONTREAL PROTOCOL  
Forty first Meeting  
Montreal, 17 -19 December 2003

**PROJECT PROPOSALS: GABON**

This document consists of the comments and recommendations of the Fund Secretariat on the following project proposals:

Refrigeration:

- Implementation of the refrigerant management plan: supplementary training and spares to the national programme for recovery and recycling of refrigerants UNDP
- Implementation of the refrigerant management plan: phase II of customs training UNEP
- Implementation of the refrigerant management plan: phase II of training refrigeration technicians UNEP
- Implementation of the refrigerant management plan: monitoring the activities of the RMP UNDP

**PROJECT EVALUATION SHEET  
GABON**

SECTOR: Refrigeration                      ODS use in sector (2002): 5 ODP tonnes

Sub-sector cost-effectiveness thresholds: n/a

**Project Titles:**

- (a) Implementation of the refrigerant management plan: supplementary training and spares to the national programme for recovery and recycling of refrigerants
- (b) Implementation of the refrigerant management plan: phase II of customs training
- (c) Implementation of the refrigerant management plan: phase II of training refrigeration technicians
- (d) Implementation of the refrigerant management plan: monitoring the activities of the RMP

Project Data	Refrigerant management plan			
	(a)	(b)	(c)	(d)
Enterprise consumption (ODP tonnes)				
Project impact (ODP tonnes)	2.2			
Project duration (months)	36	12	18	36
Initial amount requested (US \$)	50,000	50,000	40,000	15,000
Final project cost (US \$):				
Incremental capital cost (a)				
Contingency cost (b)				
Incremental operating cost (c)				
Total project cost (a+b+c)	60,277	50,000	35,000	15,000
Local ownership (%)	100%	100%	100%	100%
Export component (%)	0%	0%	0%	0%
<b>Amount requested (US \$)</b>	60,277	50,000	35,000	15,000
Cost effectiveness (US \$/kg.)				
Counterpart funding confirmed?				
National coordinating agency	Ministere de l'hydraulique, l'environnement et de la lutte contre la desertification			
Implementing agency	UNDP	UNEP	UNEP	UNDP

<b>Secretariat's Recommendations</b>				
Amount recommended (US \$)	60,277	50,000	35,000	15,000
Project impact (ODP tonnes)	2.2			
Cost effectiveness (US \$/kg)				
Implementing agency support cost (US \$)	5,425	6,500	4,550	1,350
Total cost to Multilateral Fund (US \$)	65,702	56,500	39,550	16,350

## PROJECT DESCRIPTION

### Servicing sector

1. In 2002, the total CFC consumption in Gabon was 5 ODP tonnes, used for servicing refrigeration equipment. The CFC baseline for Gabon is 10.30 ODP tonnes.
2. The current prices of refrigerants per kg are: US \$6.53 for CFC-12, US \$14.58 for HFC-134a and US \$5.96 for HCFC-22.

### ODS regulations

3. In September 2003, two Inter-ministerial Orders on issues related to the protection of the ozone layer, under the Presidency of the Republic, entered into force, namely:
  - (a) Regulation on products containing ODS and/or equipment operating on ODSs, and import of ODSs and ODS-based equipment requiring authorization prior to their importation; and
  - (b) Regulation on the import of ODSs which are subject to quotas issued by the Ministry of the Environment following recommendations made in the National Ozone Programme.

### Refrigerant management plan (RMP)

4. The Gabon RMP was approved at the 26<sup>th</sup> Meeting of the Executive Committee. Customs officers (inspectors, controllers and customs policemen) have been informed about the ODS import/export licensing system and other national regulations related to the phase-out of ODS, and have been trained to identify and keep records of ODSs and ODS-based equipment. ODS identification kits were distributed to the major customs entry points in the country.
5. About 160 refrigeration service technicians have received training in good service and maintenance practices, including handling of non-CFC refrigerants. In addition, a recovery and recycling network (50 recovery units and 5 recycling centres) has been established. Hands-on training was provided to service technicians on practical recovery and recycling operations.

### RMP update

6. The RMP update has been submitted in accordance with the provisos of Decision 31/48 and subsequent decisions on RMP proposals. It includes a request for procurement of spare parts and service tools as a complement of the original recovery and recycling project, to assist technicians in performing repairs in a proper manner.
7. The RMP update also proposed additional training for custom officers to enhance the monitoring of ODSs and ODS-based equipment, and training for service technicians in maintenance and installation of refrigeration systems, recovery and recycling operations, and evaluating refrigeration systems to assess the feasibility for their retrofit to non-CFC refrigerants.

8. Co-ordination and monitoring will be undertaken by the Ministry of the Environment through the Ozone Unit. This entity will, among others, check all of the equipment that was supplied under the recovery and recycling project and make sure that the required spare parts are properly installed in that equipment. The total cost of the RMP update is US \$160,277.

9. The Gabon RMP project was submitted with a letter from the Government of Gabon stating the Government's commitment to achieve, without further request for funding, at least the 50 per cent reduction in consumption of CFCs by 2005 and an the 85 per cent reduction by 2007.

## SECRETARIAT'S COMMENTS AND RECOMMENDATION

### COMMENTS

10. The Secretariat has noted that the 2002 CFC consumption in Gabon is 5.0 ODP tonnes, which is some 0.15 ODP tonnes below Gabon's 2005 compliance level.

11. It is reported in the RMP project proposal, that "the need for a RMP update stems from the strategy to continue to contain, recover and recycle refrigerant, making provision for the critical stocks for the service tail through internal conservation techniques as well as external suppliers, if necessary". The Secretariat noted that of the total project cost (US \$160,277) only US \$35,000 was for purchasing spare parts for recovery and recycling machines from the original RMP, and suggested that UNDP examine the merits of providing more resources for purchasing service tools for the technicians in Gabon. The Secretariat was informed that the Government of Gabon appreciated the advice of the Secretariat and reduced part of the training costs of the refrigeration service technicians; in addition, UNDP agreed to reduce costs associated with the international consultant (by US \$1,000). The funding for the service tools was increased, accordingly.

### RECOMMENDATION

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

	Project Titles	Project Funding (US\$)	Support Cost (US\$)	Implementing Agency
(a)	Implementation of the refrigerant management plan: supplementary training and spares to the national programme for recovery and recycling of refrigerants	60,277	5,425	UNDP
(b)	Implementation of the refrigerant management plan: phase II of customs training	50,000	6,500	UNEP
(c)	Implementation of the refrigerant management plan: phase II of training refrigeration technicians	40,000	4,550	UNEP
(d)	Implementation of the refrigerant management plan: monitoring the activities of the RMP	15,000	1,350	UNDP

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