



**United Nations
Environment
Programme**



Distr.
LIMITED

UNEP/OzL.Pro/ExCom/25/40
27 June 1998

ORIGINAL: ENGLISH

EXECUTIVE COMMITTEE OF
THE MULTILATERAL FUND FOR THE
IMPLEMENTATION OF THE MONTREAL PROTOCOL
Twenty-fifth Meeting
Montreal, 29-31 July 1998

PROJECT PROPOSAL: MOLDOVA

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

Refrigerant Management Plan

- Training of trainers in refrigeration
- Training in monitoring and controlling of CFCs
- National programme for recovery and recycling of refrigerants

UNEP
UNEP
UNDP

PROJECT EVALUATION SHEET **MOLDOVA**

SECTOR: REFRIGERATION ODS use in sector (1996): 51.45 ODP tonnes

Sub-sector cost-effectiveness thresholds: RMP n/a

Project Title: Refrigeration Management Plan

Project Data	REFRIGERATION MANAGEMENT PLAN	
ODS phase-out (ODP tonnes)		21.9
Proposed project duration (months)		24
Incremental capital cost (US \$)		386,700
- including contingency (%)		10
Incremental operational cost (US \$)		386,700
Total project cost (US \$)		386,700
Local ownership (%)		N/A
Export component (%)		N/A
Amount requested (US \$) {Original}		573,300
{Revised}		386,700
Cost effectiveness (US \$/kg)		N/A
National Coordinating Agency	Hydro-meteorological Service, Department for Environmental Protection	
Implementing Agency	UNDP, UNEP	
Technical review completed?		N/A

<i>Secretariat's Recommendations:</i>		
Amount recommended (US \$)		386,700
Project impact (ODP tonnes)		21.9
Cost effectiveness (US \$/kg)		N/A
Implementing Agency support cost (US \$)		50,271
Total cost to Multilateral Fund (US \$)		436,971

PROJECT DESCRIPTION

Refrigerant Management Plan

1. Based on information gathered during the preparation of the country programme, total ODS consumption in the country was estimated at 51.45 tonnes in 1996, used in the refrigeration and air-conditioning sector, with the following sub-sectoral distribution: 16.6 ODP tonnes in domestic refrigeration; 24.0 ODP tonnes in commercial refrigeration; 0.6 ODP tonnes in mobile and domestic air-conditioning units; 12.8 ODP tonnes in industrial refrigeration and, and 8 ODP tonnes in transport refrigerators.
2. The total number of repair workshops for refrigeration equipment is approximately 350 with 1,000 refrigeration technicians for the whole country. As CFC-12 prices begin to go up, and availability becomes restricted, more and more commercial and industrial users are expected to retrofit or scrap their old systems. This will lead to large scale venting of CFC-12.
3. The Government will develop a National Law on Protection of the Ozone Layer and implement a system of appropriate legal and regulatory acts, and decrees on enforcement of the ODS phaseout process; establish the association of CFC importers and users to be actively participating in the analysis of CFC consumption and to initiate measures; establish quota system on CFC and a licensing system for service sector. The Government of Moldova expects all regulatory and legislative requirements to be in place for the period 1998-1999, as well as the economic instruments.
4. The RMP identified a training programme for monitoring and control of CFCs, aimed at enforcement officers from the Ozone Unit and Customs Control Department, to improve monitoring and control of import of CFCs and CFC-based equipment. Officials from the Customs Control Department, the Ministry of Industry and Trade and the Ministry of Environment will participate in the Regional Training Workshop in ODS Monitoring and Control and in the Regional Customs Training Workshop. Both workshops are organized under the GEF funded Regional Project to Promote Compliance with the Trade and Licensing Provisions of the Montreal Protocol in CEITs.
5. The RMP also includes a training the trainers of refrigeration technicians in good management practices, aimed at improving service and maintenance practices in order to prevent intentional and/or unintentional release of ODS into the atmosphere.
6. The RMP also includes a subproject for the establishment of a national recovery and recycling network comprising 50 recovery units and 10 recycling centres for servicing refrigeration equipment, at a cost of US \$234,750. This activity also provides for one-day workshops for service technicians on practical demonstration on recovery and recycling equipment. The recovery and recycling programme will be implemented only when necessary economic and policy instruments are put into place in the country.

7. In total, 21.9 tonnes of CFC would be recovered and recycled each year. This amount does not take into account the amount of refrigerant that might be saved owing to the teaching of good service and maintenance practices at the training seminars.

8. The National Ozone Unit will be responsible for the monitoring, co-ordination and implementation of the phase-out activities proposed in the RMP. The Ministries of Industry and Trade and the Customs Control Department will be responsible for implementing the import policies.

SECRETARIAT'S COMMENTS AND RECOMMENDATIONS

COMMENTS

1. The Moldova RMP follows the RMP guidelines as revised by UNEP.
2. The Secretariat, UNDP and UNEP discussed in detail the major components of the RMP, in particular, the timing of implementation of legal and regulatory system for CFC control; ban on CFC-12 based refrigeration equipment, training of service technicians in good refrigerant management practices; and training of custom officials.
3. The Secretariat and UNDP also discussed the size of the recovery and recycling programme considering the sectoral distribution of CFCs. The cost of the subproject was adjusted accordingly.
4. The Secretariat, UNDP and UNEP discussed the modalities of coordination and implementation of the various activities in the RMP, the monitoring and evaluation roles of the Ozone Unit, and key players during implementation of the RMP.

RECOMMENDATION

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
Refrigerant Management Plan:			
a) Training of trainers in refrigeration	66,000	8,580	UNEP
b) Training in monitoring and controlling of CFCs	66,550	8,652	UNEP
c) National programme for recovery and recycling of refrigerants	254,150	33,039	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 Moldova are put into place.