



**United Nations
Environment
Programme**



Distr.
LIMITED

UNEP/OzL.Pro/ExCom/17/23/Add.2
21 July 1995

ORIGINAL: ENGLISH

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

Seventeenth Meeting
Montreal, 26-28 July 1995

COUNTRY PROGRAMME: ROMANIA

This document includes the Country Programme Cover Sheet

COUNTRY PROGRAMME COVER SHEET

Country: ROMANIA

Date Received: JUNE 1995

Period Covered: 1995 to 2000

National Implementing Agencies: Ministry of Waters, Forests and Environmental Protection (MWFEP);
and
National Committee for the Protection of the Ozone Layer, comprising *inter alia*:

- MWFEP;
- Ministry of Industries;
- Ministry of Commerce;
- Ministry of Agriculture and Food;
- Ministry of Defence;
- Ministry of Internal Affairs;
- Ministry of Science; and
- Ministry of Foreign Affairs.

1. Phase-out Schedule

Phase-out Schedule in Romania by Substances

Substances	Consumption in 1993 (ODP Tonnes)	Planned Consumption Till Complete Phaseout (ODP Tonnes)	Year of Complete Phaseout
CFC-11	267.2	534.4	1998
CFC-12	1,102.5	3,307.5	2000
CFC-113	60.8	152.0	1999
CFC-114	0.5	1.0	1998
Halon-1211	3.6	5.4	1997
Halon-1301	26.0	39.0	1997
Halon-2402	1.8	2.7	1997
CTC	73.0	182.5	1999
MCF	22.5	56.3	1998
HCFC-22	0.4	0.6	1997
Total	1,558.3	4,281.4	2000

Phase-out Schedule in Romania by Sectors

	Consumption in 1993 (ODP Tonnes)	Date of 100% Phase-out ¹
Total	1,538.3	January 1, 2000
Refrigeration Sector	181.7	January 1, 1998
- Domestic Refrigeration	60.3	January 1, 1998 ³
- Commercial Refrigeration	55.0	January 1, 1998 ³
- Industrial Refrigeration	5.1	January 1, 1998
Refrigeration Servicing Sector	61.3	January 1, 2000
- Domestic Refrigeration ²	41.4	January 1, 2000 ⁴
- Commercial, Industrial and Transport Refrigeration	19.9	January 1, 2000 ⁴
Aerosol Sector	925.7	January 1, 1998
- Personal Care	675.5	January 1, 1998
- Others	251.3	January 1, 1998
Foam Sector	286.7	January 1, 1998
- Rigid Foam	243.7	January 1, 1998
- Flexible Foam	23.0	January 1, 1996
Solvents Sector	156.8	January 1, 1997
- Metal De greasing and Electronics	75.1	January 1, 1997
- Others	76.7	January 1, 1997
Fire Extinguishants	31.4	January 1, 1997

Notes: 1) The ODS phase-out strategy is based on the assumptions that fastest technically feasible phase-out is followed and that international/MF funding of project implementation is made available to the enterprises in early 1996, at latest.

2) Including the category unspecified.

3) A substantial drop in ODS consumption is envisaged to take place in mid-1996.

4) Could possibly be reduced by one year. Note that recycled CFC will be used for servicing up to 2010.

2. Government Action Plan

Year	Description of Action	Sector	Intended Effect
1993	Ratification of the Vienna Convention, the Montreal Protocol and the London Amendments	All	Insert Romania into the international effort to revert the process of ozone layer destruction
1994	Start-up of state budget financed ODS research programme	All	Inventory of sources of ODS, monitoring of ODS in the earth's stratosphere, policies and strategies for eliminating ODS and national database with information on research activities, regulations, etc.
1995	Development of ODS Country Programme	All	Produce a planning tool to direct both government and private sector actions
1995	Creation of the National Committee for the Protection of the Ozone Layer	All	Coordinate and harmonize all actions directed to the elimination of ODS production and consumption
1995	Improvement of customs classifications	All	Introduce 8-digit level (EU compatible) import statistics so that import of ODS will be distinctly represented
1995	Improvement of ODS import licenses	All	Ensure compliance with the phaseout strategy
1995	Ban on re-export of ODS	All	Ensure compliance with the Montreal Protocol
1995	Monitoring arrangements	All	Enabling the country to meet its obligations under the Montreal Protocol, ie monitoring the annual ODS consumption, monitoring the effectiveness of the Action Plan and monitoring the implementation of projects identified in the Action Plan
1995	Voluntary arrangements	All	Promote a dialogue and exchange of information between the government and private sector in order to achieve a cost-effective and realistic ODS phaseout
1996	Introduction of ODS production licenses	ODS producers	Ensure compliance with the phaseout schedule
1996	Sector specific bans on ODS consumption	ODS consumers	Ensure compliance with the phaseout schedule

1996	Bans on import of selected ODS based goods	All	Promote introduction of sector specific bans on ODS consumption
1996	Compulsory ODS treatment	All	Implementation of recovery and recycling schemes for CFC, HCFC, CTC and MCF
1996	Introduction of non-compliance fee	All	Support introduction of import and production licenses as well as sector specific bans
1996-97	Introduction of an accreditation system (certificates) for refrigeration servicing technicians	Refrigeration sector	Ensure awareness of the ozone problems among service technicians and the public in general, improve maintenance and service procedures and support the introduction of recovery and recycling schemes in refrigeration sector
1996-97	Implement an awareness campaign directed at the general public concerning information dissemination and product labelling	All	Reduce the demand for ODS based products by making people understand the necessity of ODS phaseout
1996-97	Revision of industry norms and standards	All	Support the introduction of non-ODS alternatives

3. Indicative List of Projects (Summary)

Project	Client	Project Name	Project Description	Investment (USD)	Project Size (m²)	Project Value (USD)	Project Status	Project Completion Date
Refrigeration - domestic	1. APROSA S.A. Client	CFC-12 (20.4) CFC-11 (180.0)	CFC-12 to HFC-134a and CFC-11 to HFC-143a 14th block phase Nov 1994, Phase 2 use CFC-12	2,300	(400 m²) 1,451	8.41	4,377	Ready for submission, June 1995
Refrigeration - domestic	2. LIAI S.A. Client	CFC-12 (8.0) CFC-11 (20.0)	CFC-12 to HFC-134a (butane) and CFC-11 to HFC-143a (butane)	CFC-12 Ref. 457	CFC-12 (8.0) (butane) 154		871	Preliminary proposal ready
Refrigeration - commercial	3. S.O. FRIGOCOM S.A. Bucharest	CFC-12 (43.0) CFC-11 (0.5)	CFC-12 to HFC-134a and CFC-11 to HFC-143a	475	(butane) 15		410	Preliminary proposal ready
Refrigeration - commercial	4. S.O. TERMOFRO S.A. Cluj	CFC-12 (3.4) CFC-11 (1.4)	CFC-12 to HFC-134a and CFC-11 to HFC-143a	1,203	1,804		1,876	Preliminary proposal ready
Refrigeration - commercial	5. COMERWIDE S.A. Cluj	CFC-12 (11.2)	CFC-12 to HFC-134a					to be developed
Refrigeration - industrial	6. KIPAF S.A. Cluj	CFC-12 (8.2)	Building project for recovery and recycling, and conversion to non-ODS recycling	1,300			1,300	Preliminary proposal ready
Refrigeration - industrial	7. TRIMPHICOM S.A. Bucharest	CFC-12 (10.4)	CFC-12 to HFC-134a	1,025	26	22.35	27.45	Ready for submission, June 1995

Training and CFCs Recovery, Recycling and Contention

A project is presently under preparation, which combines the preliminary proposals by COMSERVICE S.A. and ICPIAF S.A. (Enterprises 5. and 6. above). The proposal is to establish a training centre for refrigeration servicemen located at ICPIAF's premises.

Total ODS Phase-out cost

With the data and information today available in Romania, total incremental costs for the phase-out of ODS in the country is estimated to amount to *at least* USD 15 mill. In 1993, ODS consumption totalled 1,558 ODP-weighted ODS.