



**United Nations
Environment
Programme**



Distr.
LIMITED

UNEP/OzL.Pro/ExCom/21/27
20 January 1997

ORIGINAL: ENGLISH

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

Twenty-first Meeting
Montreal, 18-20 February 1997

COUNTRY PROGRAMME: PARAGUAY

This document consists of:

- Country Programme Evaluation Sheet (prepared by the Fund Secretariat)
- Comments and Recommendations of the Fund Secretariat
- Transmittal Letter from the Government of Paraguay
- Country Programme Cover Sheet
- Country Programme (Executive Summary)

PARAGUAY COUNTRY PROGRAMME EVALUATION SHEET

Ozone Action Office, Ministry of Agriculture and Livestock

Status of ratification of the Vienna Convention and the Montreal Protocol

	Signature	Ratification	Entry into force
Vienna Convention (1985)		03/Dec/92	03/Mar/93
Montreal Protocol (1987)		03/Dec/92	03/Mar/93
London Amendment (1990)		03/Dec/92	03/Mar/93
Copenhagen Amendment (1992)			

Production of controlled substances: No controlled substances produced

Consumption of controlled substances (1995) 211.2 metric tonnes
211.2 weighted tonnes (ODP)

(tonnes)	CFC-11	CFC-12	CFC-113	CFC-114	CFC-115	TOTAL	Halon1211	Halon1301	TOTAL	CTC	MCF	TOTAL	Me-Br
ODS	54.4	156.8				211.2							
ODP	54.4	156.8				211.2							

Distribution of ODP by substance: CFC 100.0% Halon CTC and MCF

Distribution of ODP by sector: Aerosol Foam Halon Refrigeration Solvent Other

Consumption (ODP tonnes): 49.9 161.3

Percent of total: 23.6% 76.4%

Country Programme

Duration of country programme: 3 years (1997-1999)

ODS phase out target: 90% reduction by 1999. Complete phase out by 2000

Phase out priority area: Foam and refrigeration sectors

Cost of activities in country programme: \$85,300

Strategy:

The Government strategy is based on the establishment of an Ozone Unit, adapting the current legislative framework to comply with the Montreal Protocol provisions, providing support to the ODS end-users, design of a public awareness campaign and implementation of a national refrigeration management plan including training programme in good service practices.

COMMENTS AND RECOMMENDATIONS OF THE FUND SECRETARIAT

COMMENTS

1. The Country Programme conforms to the format of the approved guidelines. The total ODS consumption in the country is estimated at 211.2 tonnes, mainly CFC-11 and CFC-12 used for servicing domestic refrigerators and freezers and commercial refrigerators, for the production of 1,400 commercial refrigerator units at four small enterprises and for the manufacturing of flexible foam products at five plants.
2. Several industries manufacturing flexible foam products as well as all aerosol manufacturing plants have already converted to non-ODS technologies. Importation of CFC-113, carbon tetrachloride and halons is nil.
3. A stand-alone project proposal related to the development of a refrigeration management plan is included in the Country Programme. The Government will submit a separate project proposal for this activity at a later date.
4. The country programme also includes a project for the establishment of an Ozone Office within the Ministry of Agriculture and Livestock (institutional strengthening). The Government of Paraguay is requesting a total of US \$66,300 for the implementation of this project.
5. The main responsibilities of the Ozone Unit would include: formulating, implementing and monitoring the refrigeration management plan, reviewing current legislation to comply with the provisions of the Montreal Protocol, assisting the manufacturers of flexible foam products and commercial refrigerators in converting to non-ODS technologies, coordinating training and public awareness programmes, and facilitating the government's data reporting obligations under the Montreal Protocol.

RECOMMENDATIONS

1. The Fund Secretariat recommends as follows:
2. To approve the Paraguay Country Programme. Approval of the Country Programme does not denote approval of the projects identified therein or their funding levels.
3. To request the Government of the Paraguay to present annually information to the Executive Committee on progress being made in the implementation of the country programme, in accordance with the decision of the Executive Committee on implementation of country programmes (UNEP/OzL.Pro/ExCom/10/40, para 135). Using the approved format, the initial report, covering the period 20 February 1997 to 31 December 1997, should be submitted to the Fund Secretariat no later than 31 March 1998.
4. To approve the amount of US \$66,300 and US \$8,619 support cost for institutional strengthening to be included in UNEP's 1997 work programme. To request UNEP to proceed with the disbursement of the first one-year tranche of the funds approved for institutional strengthening, but subsequent disbursements would be contingent on the submission of a report to the Executive Committee on the status of development of a refrigerant management plan (Decision 20/4).



Ministerio de Agricultura y Ganaderia
*Subsecretaría de Estado de Recursos Naturales
y Medio Ambiente*

San Lorenzo, 10 de enero de 1997

SSERNMA N° 004/97

Señor
Director del Fondo Multilateral
para la Aplicación del Protocolo de Montreal
Montreal, Canadá

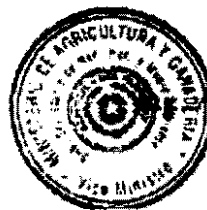
De mi consideración:

La Subsecretaría de Estado de Recursos Naturales y Medio Ambiente con su Dirección de Ordenamiento Ambiental, encargada de atender todo lo referente al Protocolo de Montreal, está plenamente de acuerdo con el Programa País en todos sus términos.

Paraguay, como País parte del Protocolo y operando al amparo del párrafo 1 del artículo 3, se compromete a cumplir los compromisos y aplicar las medidas que contiene el Programa a fin de dar cumplimiento al Protocolo.

El gobierno de Paraguay adoptará medidas adicionales si fuere necesario para el buen cumplimiento del Protocolo.

Hago propicia la oportunidad para saludarle con mi distinguida consideración.



F. F. E.
Arnulfo Fretes Escario
Vice Ministro

3/3

COVER SHEET OF THE COUNTRY PROGRAMME

Country: Paraguay

Reception date: 23 Dec. 1996

National Directing Body:

Ministry of Agriculture and Livestock

Period covered by the country programme:

1997-1999

Implementing agency:

UNEP

1. Timetable for phase-out

Substances	Current consumption (metric tonnes x ODP) in 1995	Total expected consumption before phase-out (metric tonnes x ODP)	Year established for total phase-out
CFC-11	54.4	131.7	1999
CFC-12	156.8	425.3	2003
Halon 1211	-	-	-
Halon 1301	-	-	-
Total	211.2	557.0	

2. Government action plan

Year(s)	Description of measures	Sector	Expected results	Estimated Cost US\$
1997-1999	Institutional Strengthening	All	Implementation Country Programme	66,300
1997-1998	Revision of Legislation	All	Control of imports of ODS and products which contain or require ODS	*
TOTAL COSTS				66,300

* Included in project of Institutional Strengthening

3. Summary of projects in preparation

Year(s)	Type of Project	Description of Project	Cost of Project	Incremental Cost	Implementing Agency	Ton. ODP eliminated per year
1997-1998-1999	RMP, Training and Recovery & Recycling Programme	Refrigerant Management Plan, seminars for training of technicians in air-conditioning & refrigeration service; provision of equipment for recovery & recycling to certified repair shops	110,000	110,000	UNEP	60
1998-1999	Commercial refrigeration (Assistance & investment)	Technical assistance & provision of equipment for reconverting 4 small commercial refrigerator factories	60,000	43,000	UNDP	2.8
1998	Flexible polyurethane foams (Assistance & investment)	Technical assistance for modification of 5 polyurethane foam factories to substitute the use of CFC-11 as a foaming agent for methylene chloride	80,000	80,000	UNDP	4.9
1999-2003	Still not ident.	Elimination of remaining consumption of ODS	1.3 M	1.3M	Still not ident.	98.5
Total				1,533,000		211.2

4. Summary of estimated costs

- Cost of activities and projects in the country programme US\$ 66,300
- Estimated cost of total phase-out
(sum of totals in 2., and 3.) US\$ 1,599,300
- Estimated cost effectiveness US\$ 7.57 US\$/kg

EXECUTIVE SUMMARY

The Government of Paraguay has shown its determination to join hands with the international community in the protection of the Environment, and as party to this endeavour is a signatory of the Montreal Protocol on Substances that Deplete the Ozone Layer, which was entered on December 3, 1992 and went into effect on March 3, 1993.

Given that total consumption of ozone-depleting substances (ODS) in Paraguay in 1995 was 211.2 metric tonnes in terms of ozone-depleting potential (ODP), and the total population for the same year was 4,565,000, it is seen that ODS consumption per capita was 0.046 Kg.

This figure means that Paraguay, with consumption levels lower than 0.3 Kg/per capita, is, under Article 5, paragraph 1 of the Protocol, eligible for assistance from the Multilateral Fund for the implementation of the Programme for the phase out of ODS consumption.

In view of the fact that in Paraguay there is no production of ozone-depleting substances (ODS), all figures shown in this document are based on the use of imported substances. There are no records of any exportation of ODS, either in pure form or as part of other exported products.

Total ODS consumption in 1995 included 156.8 tonnes of CFC-12 and 54.4 tonnes of CFC-11, which breaks down as follows: 109 tonnes of ODP in the domestic refrigeration sector; 46.8 tonnes of ODP in the commercial refrigeration sector; 5.5 tonnes of ODP in the automobile air-conditioning sector and 49.9 tonnes of ODP in the foam sector.

The aerosol sector has not used ODS for over 2 years. No ODS users were found in the solvents sector, and the consumption of halons is negligible (this data will be confirmed).

In Paraguay, responsibility for environmental protection falls to the Undersecretariat of the Environment, which reports to the Ministry of Agriculture.

The Undersecretariat includes the Department of Environmental Planning which is currently organizing the unit which will be in charge of the implementation, supervision and follow-up of the Montreal Protocol. This unit will be called the Ozone Action Office (OAO); the amount of US\$ 66,300 has been requested in the Country Programme for the creation and supervision thereof, in the framework of the Project of Institutional Strengthening.

The remainder of the assistance will be for the specific projects of current ODS users, to help them adapt to the use of substitute products and technologies which do not deplete the ozone layer.

The main user sectors which will require assistance are the manufacturers of polyurethane foams, domestic and commercial refrigeration, and automobile air-conditioning.

International assistance will also be required for the holding of seminars aimed at creating awareness of the problem among ODS users and the general public.

All these measures are part of the Government's strategy, which is aimed at achieving the gradual reduction of ODS consumption at an accelerated rate, with the objective of eliminating all use by the year 2003, this being 10 years ahead of the deadline date established in the Protocol.

The Government strategy is designed as follows: in the first stage, beginning in 1997 and ending in 1999, ODS consumption will be reduced by 25% in the first year, 50% in the second year; and 15% in the third year, reaching a total reduction of 90%. The remaining 10% should be eliminated by the year 2003, although there may be a remainder of 5% in the few cases in which reconversion is not fully achieved.

This Country Programme confirms the Government's commitment to adopt the appropriate measures to ensure the full enforcement of the Protocol, with the subsequent follow-up and control.

Furthermore, the Government will provide progress reports to the Ozone Secretariat of UNEP, to the Executive Committee of the Multilateral Fund, and to the relevant agencies, in accordance with the appropriate formats which have been created for this purpose.

COVER SHEET OF PROJECT No. 1

(Institutional strengthening)

Title of the project:	Ozone Action Office Paraguay
Country:	Paraguay
Sectors Covered	All
ODS consumption:	211.2 MT/year (measured in terms of ODP)
Duration of the Project:	3 years
Implications of Project:	Coordination of Actions for phase-out of consumption of 405.6 MT of ODS in 3 years
Proposed Budget:	U.S.\$66,300
Implementing Agency:	UNEP
National Coordinating Agency:	Office of Environmental Planning Ministry of Agriculture and Livestock

JUSTIFICATION

In order to implement the Country Programme, an office must be able to coordinate whatever actions are necessary for the phase-out of the use of ozone-depleting substances by the government, industry and users. The Government of Nicaragua does not have sufficient means to establish this office.

PURPOSE

For this reason, the Government of Nicaragua proposes, with the assistance of the technical and financial assistance of the Multilateral Fund, an Institutional Strengthening Project for the creation of a Technical Ozone Office (TOO) to carry out the following main activities for the duration of the project:

ACTIVITY I: Establishment of the Technical Ozone Office

Sub-activities:

- Sign the Institutional Strengthening Project and the transfer of funds.
- Establish the TOO's Action and Responsibility Plan, with detailed description of the activities to be undertaken, and defining the communication systems between the relevant national authorities, industry, the refrigeration repair shops and the general public.
- Recruit and train the office personnel and purchase the necessary equipment and office material.

ACTIVITY II: Promote, in agreement with the existing legal framework and national economic policies, the regulation of ODS importation controls and use.

Sub-activities:

- Promote the incorporation in current legislation of restrictions governing the importation of ODS and equipment containing these substances or requiring them in order to function.

- Promote and facilitate the importation of substitute substances and technologies.
- Organize the training of the personnel controlling imports so that they will be able to identify the controlled materials and equipment.
- Encourage the industrial sectors related to the servicing of refrigeration and air-conditioning systems, as well as university researchers, to become more involved in the implementation of the Country Programme.

ACTIVITY III: Coordinate the design, preparation and execution of the ODS Phase-out Projects

Sub-activities:

- Project for Refrigerant Management Plan, Training of Refrigeration and Air-conditioning Technicians, including recovery and recycling of ODS.
- Conversion of 4 small commercial refrigerator factories.
- Technical assistance for adaption of 5 polyurethane foam factories.
- Several as yet undefined projects for phase-out of remaining consumption of 98.4 tonnes per year.

ACTIVITY IV: Report to the Protocol Organizations on the progress of the Country Programme

Sub-activities:

- UNEP will be periodically informed on progress of the Institutional Strengthening Project from the standpoint of the effectiveness of the Government actions and the operativeness and effectiveness of the projects in execution, in accordance with the reporting formats established for each project.
- Reports will also be directed on a yearly basis to the Ozone Secretariat of UNEP on the consumption of controlled substances, in accordance with the requirements of Article 7 of the Montreal Protocol.
- Yearly reports will be made to the Multilateral Fund on progress in the implementation of the Country Programme, in accordance with the decision of the 10th meeting of the Executive Committee, in the format established in document UNEP/ozi.pro /Ex. Com./ 13/46.

ACTIVITY V: Create awareness among the general public of the content and meaning of the Protocol.

Sub-activities:

- Establish contact with the communications media.
- Provide information on the Protocol to schools and universities.

BUDGET
PROGRAMME OF INSTITUTIONAL STRENGTHENING
(OZONE ACTION OFFICE - OAO)

(Costs given in US\$)

Item	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>TOTAL</u>
<u>Personnel</u>				
1 Coordinator	9,000	9,000	9,000	27,000
1 Assistant	6,000	6,000	6,000	18,000
Sub-total	15,000	15,000	15,000	45,000
<u>Equipment</u>				
Computer	2,500			2,500
Printer	800			800
Fax w/fax line	1,000			1,000
Sub-total	4,300			4,300
<u>Office Material and Communication</u>				
Paper and office materials	2,000	1,000	1,000	4,000
Communications	2,000	1,000	1,000	4,000
Transportation	1,000	1,000	1,000	3,000
Sub-total	5,000	3,000	3,000	11,000
Contingency	4,000	1,000	1,000	6,000
TOTAL	28,300	19,000	19,000	66,300