



**United Nations
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Programme**



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

Twenty-second Meeting
Nairobi, 28-30 May 1997

COUNTRY PROGRAMME: NICARAGUA

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 Nicaragua
- Country Programme Cover Sheet
- Country Programme (Executive Summary)

NICARAGUA COUNTRY PROGRAMME EVALUATION SHEET

Ozone Technical Office (OTO), Ministry of the Environment and Natural Resources

Status of ratification of the Vienna Convention and the Montreal Protocol

Vienna Convention (1985)	Signature	Ratification	Entry into force
Montreal Protocol (1987)		05-Mar-93	03-Jun-93
London Amendment (1990)		05-Mar-93	03-Jun-93
Copenhagen Amendment (1992)			

Production of controlled substances: No controlled substances produced

Consumption of controlled substances (1995) 110.0 metric tonnes
110.0 weighted tonnes (ODP)

(tonnes)	CFC-11	CFC-12	CFC-113	CFC-114	CFC-115	TOTAL Halon1211	Halon1301	TOTAL	CTC	MCF	TOTAL	Me-Br
ODS	6.0	104.0				110.0						
ODP	6.0	104.0				110.0						

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): 0.0 0.0 0.0 110.0 0.0 0.0

Percent of total: 100.0%

Country Programme

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

ODS phase out target: 90% reduction by 2000. Complete phase out by 2004

Phase out priority area: Refrigeration sector

Cost of activities in country programme: \$221,875

Strategy:

The Government strategy is based on providing support to the ODS end-users. Enactment of laws and regulations to control importation of ODSs and equipment containing ODS, design of a public awareness campaign and implementation of a national refrigeration management plan including training programme in good service practices are among the priority activities proposed by the Government.

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 110 tonnes, mainly CFC-11 and CFC-12 used for servicing domestic refrigerators and freezers and commercial refrigerators, and for the production of 6,000 commercial refrigerator units. The company has already started conversion to non-ODS technology.
2. A project proposal related to the completion of conversion for the plant producing CFC-based commercial refrigerators is included in the Country Programme. The Government of Nicaragua is proposing that the project be implemented in 1997.
3. The country programme also includes a project for the establishment of an Ozone Technical Office within the Ministry of the Environment and Natural Resources (institutional strengthening). The Government of Nicaragua is requesting a total of US \$66,000 for the implementation of this project.
4. 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, coordinating training and public awareness programmes, and facilitating the government's data reporting obligations under the Montreal Protocol.
5. A project proposal for a refrigeration management plan and train the trainer in good practices in refrigeration, prepared by the Government of Finland, is included in the country programme and will be submitted separately to the Executive Committee at a future meeting.

RECOMMENDATIONS

The Fund Secretariat recommends as follows:

1. To approve the Nicaragua Country Programme. Approval of the Country Programme does not denote approval of the projects identified therein or their funding levels.
2. To request the Government of Nicaragua 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 31 May 1997 to 31 December 1997, should be submitted to the Fund Secretariat no later than 31 March 1998.
3. To approve the amount of US \$66,000 and US \$8,580 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 to 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 DEL AMBIENTE Y RECURSOS NATURALES (MARENA)

Al contestar refiérase a:

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Managua, 20 de marzo de 1997

Señor Omar El-Arini
Secretaría del Fondo Multilateral
Montreal, Canadá.
Su Despacho
FAX No. (1 514) 2820068

Estimado Señor El-Arini:

Por este medio me permito solicitar a Ud. la aprobación del Programa-País para la eliminación gradual de las sustancias que afectan la capa de ozono en Nicaragua, en la próxima 22ava. sesión del Comité Ejecutivo que se reunirá en Nairobi en fechas comprendidas entre el 28 y 30 de mayo de 1997. Este Programa ha sido preparado con el apoyo del Programa Ozono del PNUMA y será implementado y controlado por el Ministerio del Ambiente y Recursos Naturales (MARENA).

Nuestro país es Parte en el Protocolo de Montreal desde el año 1993 y opera al amparo del párrafo 1 del Artículo 5 de dicho Protocolo, con la presentación de este Programa estamos siguiendo con el cumplimiento a los compromisos contraídos con su firma; una vez se apruebe el Programa-país y se reciban los fondos correspondientes, estaremos implementando las actividades descritas en el marco del Programa hasta lograr la eliminación gradual de estas sustancias en Nicaragua, país que ha sido clasificado como de bajo consumo.

Esperando de Ud. todo el apoyo necesario, aprovecho la ocasión para reiterar a Ud. nuestra consideración y estima.

Atentamente


Lic. Carlos rola Agurto
Vice-Ministro
MARENA



MULTILATERAL FUND	
Recd: <i>Apr. 1/97</i>	Ref No <i>3392</i>
To: <i>Mr. El-Arini</i>	
cc:	
Officer: <i>EC</i>	
Location: <i>Nicaragua</i>	
Date:	

c.c: Sr. K.M Sarmas/ Secretaria del Ozono, Nairobi, Kenya. Fax (254 2) 623 913 /226 886
Hilda Espinoza / Funcionaria Ozono Nicaragua
Archivo Ozono

COVER SHEET OF THE COUNTRY PROGRAMME

Country: Nicaragua

Reception date: 23 Dec. 1996

National Directing Body:

Ministry of the Environment and Natural Resources

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	6.0	19.0	2000
CFC-12	104.0	230.0	2005
Halon 1211	-	-	-
Halon 1301	-	-	-
Total	110.0	249.0	

2. Government action plan included in the Country Programme

Year(s)	Description of measures	Sector	Expected results	Estimated Cost US\$
1997-1999	Institutional Strengthening	All	Implementation Country Programme	66,000
1997-1998	Revision of Legislation	All	Control of imports of ODS and products which contain or require ODS	*
TOTAL COSTS				66,000

* Included in Institutional Strengthening project

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
1997-98	RMP, Training and R&R programme	Refrigerant Management Plan, training of technicians in refrigeration and recovery and recycling programme	100,000	100,000	Finland, UNEP	30
1997	Conversion	Finalization & retroactive funding of conversion project of commercial refrigerators to substitute CFC-12 for HFC-134a & CFC-11 for HCFC-141b	151,775	151,775	UNDP	13.7
1999-2005	Still not ident.	Elimination of remainder of consumption of ODS in sector of refrigeration & mobile air-conditioning	928,200	928,200	Still not identified	66.3
Total			1,179,975	1,179,975		110

(1) Based on consumption in 1994

4. Summary of estimated costs

- Cost of activities and projects in the Country Programme US\$ 66,000
- Estimated cost of total phase-out (sum of totals in 2., and 3.) US\$ 1,245,975
- Estimated cost effectiveness US\$ 11.33 US\$/kg

EXECUTIVE SUMMARY

The Government of Nicaragua has repeatedly demonstrated its desire to protect every aspect of the environment, not only in the interests of Nicaragua but also those of the international community, and for this reason confirmed its participation in the Montreal Protocol on March 5, 1993.

In Nicaragua, the consumption of ozone-depleting substances (ODS) in 1995 was 110 metric tonnes, measured in terms of their ozone-depleting potential (ODP). The population in that year, as established by the 1993 census, was 4,548,000, which means that annual ODS consumption per capita was 0.024 Kg/year.

Article 5, paragraph 1 of the Montreal Protocol states that the countries which consume less than 0.3 Kg/year per capita are entitled to special treatment, allowing them an extension of 10 additional years on the date for the phase out of ODS required of the developed countries. Furthermore they are given access to technical and economic assistance from the Multilateral Fund for the purpose of complying with the Montreal Protocol.

All ODS consumption in Nicaragua is in the refrigeration and air-conditioning sector, largely for the servicing and maintenance of domestic, commercial refrigeration and automobile air conditioning systems, as well as, to a much lesser degree, refrigerators for fishing vessels. One company manufactures commercial refrigerators (FOGEL), and has already begun to convert to alternate technologies.

No ODS use was detected in any of the following sectors: Plastic Foams (of Polyurethane or Polystyrene, either rigid or flexible), except in the only commercial refrigerator factory (FOGEL); or Aerosols, Solvents and Halons (Halon is only used by the Airlines and are purchased outside of the country).

The Government of Nicaragua, determined to contribute to the swift elimination of the use of ODS, proposes, in this Country Programme, to accelerate the gradual elimination, by reducing ODS consumption more speedily than required by the Protocol for the countries of article 5 (1), with the assistance of the Multilateral Fund.

The strategy of the Government of Nicaragua will be focused on carrying out an accelerated phase-out aimed at reducing ODS consumption by about 90% by the year 2000, allowing for possible continued use of approximately 10% of current use during three more years (to the year 2003) in those sectors which for one reason or another have not yet succeeded in fully eliminating ODS use.

During the first year of the implementation of the Country Programme (from mid-1997 to mid-1998), the Government plans to reduce ODS consumption by 30%; in the 2nd year by 40%; and in the third year by 20%, with only 10% remaining by the year 2000.

The Ministry of the Environment and Natural Resources (MARENA), acting through the General Office of the Environment, will create the Technical Ozone Office (OTO), with the mission of implementing the Country Programme and fulfilling the reporting requirements in compliance with the Montreal Protocol.

MARENA has set up a National Ozone Commission, composed of all those organizations and institutions which might be able to contribute to the activities of the OTO from the consultative standpoint, including governmental ministries, industrial and commercial associations, academic institutions and non-governmental organizations.

The Government of Nicaragua is therefore requesting the assistance of the Multilateral Fund to meet the requirements of the Montreal Protocol for the implementation of the Country Programme. This includes a project of institutional strengthening which is expected to cost US \$66,000 over a period of 3 years.

There is currently one industry (Fogel of Nicaragua) which has already begun converting to CFC-free technologies, although MF assistance will be required to complete the process, which is expected to cost US\$151,775. The project will be submitted for approval at a future meeting of the Executive Committee.

This Country Programme is a demonstration of the Government's determination to adopt measures ensuring compliance with the measures of the Protocol, as well as the appropriate follow-up and control.

Furthermore, the Government intends to report on these activities to the Ozone Secretariat of UNEP, to the Executive Committee of the Multilateral Fund, and to all the pertinent and concerned agencies, in accordance with the various formats which have been established for this purpose.

Annex ANNEX No. 1

TITLE PAGE OF PROJECT No.1

Title of the project:	Technical Ozone Office (TOO) (Institutional Strengthening)
Country:	Nicaragua
Sectors Covered	All
ODS consumption in the affected sectors:	110 T.M./year
Duration of the Project:	3 years
Impact of the Project:	Coordination of phase-out of the consumption of 223 T.M. of ODS in 3 years
PProposed Budget:	US \$66,000
Implementing Agency:	UNEP
National Coordinating Agency:	MARENA (Ministry of the Environment and Natural Resources)

JUSTIFICATION

In order to implement the Country Programme, an office is needed 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, and the university researchers, to become more involved in the implementation of the Country Programme.

ACTIVITY III: Coordinate the execution of the investment projects.

ACTION 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's 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/ozl.pro /Ex. Com./ 13/46.

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

Specific actions:

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

BUDGET OF THE PROJECT

Estimated total cost for establishing and operating the TOO for a period of 3 years: US\$ 102,000.

Of this total amount, the Government of Nicaragua will provide the equivalent of US \$ 36,000 in the form of office space and secretarial and administrative assistance.