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

COUNTRY PROGRAMME: CHAD

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

CHAD COUNTRY PROGRAMME EVALUATION SHEET

National Ozone Office, Ministry of the Environment and Water

Status of ratification of the Vienna Convention and the Montreal Protocol

	Signature	Ratification	Entry into force
Vienna Convention (1985)		18-May-89	16-Aug-89
Montreal Protocol (1987)		07-Jun-94	05-Sep-94
London Amendment (1990)			
Copenhagen Amendment (1992)			

Production of controlled substances: No controlled substances produced

Consumption of controlled substances (1996) 35.8 metric tonnes
35.0 weighted tonnes (ODP)

(tonnes)	CFC-11	CFC-12	CFC-113	CFC-114	CFC-115	TOTAL Halon1211	Halon1301	TOTAL	CTC	MCF	TOTAL	Me-Br
ODS	3.9	29.4			2.1	35.4			0.4		0.4	
ODP	3.9	29.4			1.3	34.6			0.4		0.4	

Distribution of ODP by substance: CFC 98.7% Halon CTC and MCF 1.3%

<i>Distribution of ODP by sector:</i>	Aerosol	Foam	Halon	Refrigeration	Solvent	Other
Consumption (ODP tonnes):	0.0	0.0	0.0	34.6	0.4	0.0
Percent of total:				98.7%	1.3%	

Country Programme

Duration of country programme: 5 years (1998-2003)

ODS phase out target: Complete phase-out by 2008

Phase out priority area: Refrigeration servicing sector

Cost of activities in country programme: \$265,550

Strategy:

The Government's strategy will be based on the development of a policy to control import of ODS through control of border posts with payment of an import tax effective as of the end of 1998, reduction in tax for products that use substitutes to ODS and reduction in import taxes on recycled refrigerant. The Government is also proposing a ban on the uses of ODS according to the ODS elimination schedule, a training programme for repair technicians in good servicing practices and introduction of a license system for certification in training.

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 35 metric tonnes of CFCs used for servicing refrigeration equipment and MAC units.
2. Servicing and maintenance of refrigeration equipment is undertaken by about 100 service workshops located mainly in the capital city.
3. The country programme includes a project for the establishment of an Ozone Unit within the Ministry of the Environment and Water (institutional strengthening). The Government of Chad is requesting a total of US \$70,000 for the implementation of this project. The Fund Secretariat's Comments and Recommendations on this request are presented under UNEP work programme amendments (UNEP/OzL.Pro/ExCom/25/21).
4. A national refrigerant management plan is under preparation and will be submitted to the Executive Committee at a future meeting.

RECOMMENDATIONS

The Fund Secretariat recommends as follows:

1. To approve the Chad 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 Chad 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 1 August 1998 to 31 December 1999, should be submitted to the Fund Secretariat no later than 31 May 2000.

FROM ; Monsieur ALI NGARAM
Point Focal Ozone Tchad
Tél : 523123/fax : (235) 524397
N'Djaména - Tchad

TO : Monsieur OMAR EL-Arini
Secrétaire Exécutif
Secrétaire du Fonds Multilatéral
Aux fins d'application du Protocole de Montréal
1800 Collège McGill
27^{ème} étage
Montréal Canada H.J.A 3j6

Monsieur le Secrétaire Exécutif,

J'ai l'honneur de vous transmettre ci-joint, pour examen et adoption par le Comité Exécutif du Fonds Multilatéral, le Programme de Pays du Tchad pour la mise en œuvre du Protocole de Montréal.

Le République du Tchad a ratifié le Protocole de Montréal depuis le 7 juin et en est devenue Partie depuis le 7 Septembre 1994. Compte tenu du faible niveau de consommation des Substances qui appauvrissent la couche d'Ozone, le Tchad est classé comme pays du Paragraphe 1 de l'article 5 du protocole de Montréal et à ce titre, nous souhaitons bénéficier de l'appui du Fonds Multilatéral pour la mise en œuvre de notre Programme de pays.

Je suis chargé de vous transmettre toute les reconnaissances du Gouvernement Tchadien pour l'appui reçu à travers le Programme Action Ozone du PNUE/IE pour la préparation du présent programme. J'ai le plaisir de vous informer que le Gouvernement s'engage pleinement a soutenir la mise en œuvre des activités et mesures contenues dans le programme de Pays.

Le Gouvernement Tchadien s'engage également à veiller au respect des différentes dispositions du Protocole dans les pays. En cas de nécessité, des mesures complémentaires à celles prévues dans le Programme du Pays seront prises et le Programme sera revu et amendé en conséquence et soumis à une nouvelle approbation du Comité Exécutif du Fonds Multilatéral.

J'ose espérer que le Comité Exécutif approuvera le Programme de Pays ci-joint et notre requête d'assistance financière pour l'exécution des projets ci-dessous :

- a)- Projet d'Appui Institutionnel pour la mise en œuvre du Programme du Tchad.
- b)- Projet de préparation d'un Plan de gestion des Fluides Frigorigènes.

Veuillez agréer, Monsieur le Secrétaire Exécutif, les assurances de ma considération distinguée.


ALI NGARAM

REPUBLIC OF CHAD

**COUNTRY PROGRAMME
FOR THE IMPLEMENTATION OF THE
MONTREAL PROTOCOL**

MAY 1998

COVER PAGE FOR COUNTRY PROGRAMME
COUNTRY: REPUBLIC OF CHAD

NATIONAL IMPLEMENTING AGENCY: MINISTRY FOR THE ENVIRONMENT

IMPLEMENTING AGENCY: UNEP IE

PHASE-OUT TIMETABLE:

SUBSTANCE	PRESENT CONSUMPTION (Tonnes ODP) year 1996	CUMULATIVE CONSUMPTION TO PHASE-OUT DATE		YEAR OF TOTAL PHASE-OUT
		ARTICLE 5 TIMETABLE		
APPENDIX A GROUP I				
CFC 11	3.9	31.5	0	1999
CFC 12	29.4	575	260	2010
CFC 115	1.26	75	17.5	2000
SUB-TOTAL	34.56	681.5	277.5	
APPENDIX B GROUP II				
Carbon tetrachloride	0.44	1.7	1.7	2010
SUB-TOTAL	0.44	1.7	1.7	
TOTAL	35	683.2	279.2	

Action plan:

Period	Sector	Description	Expected effects
1. Institutional			
1999-2001	All	Ozone Bureau	Institutional support for the Ministry of Energy and the Environment
1999	All	Training of personnel responsible for controlling and monitoring ODS imports	To improve control of ODS movements
1999	Refrigeration and air conditioning	Implementation of a refrigerant management plan	To institute a global approach to phasing out CFCs in the refrigeration and air conditioning sector
2000	Refrigeration and air conditioning	Ban on importing systems operating with CFCs	Substantial reduction in CFC consumption by 2007
2000	Refrigeration and air conditioning	Introduction of a fiscal system to encourage the import of replacement substances	To encourage the import of replacement substances
2001	Refrigeration and air conditioning	Establishment of a technical centre for refrigeration and air conditioning	To encourage conservation and recycling measures
2. Industry			
2000	Refrigeration and air conditioning	Setting up a recovery and recycling network	

1999	Refrigeration and air conditioning	Training of technicians	Reduction in ODS used for maintenance purposes.
2003	*Conversion of commercial and industrial installations	Commercial and industrial refrigeration	

Summary of projects

Project number in order of priority	Project name	Sector	Start year	Implementing agency	Total cost (US\$)
1	Project to reinforce institutions	All	1999	UNEP IE	100,000
2	Implementation of refrigerant management plan*	Refrigeration	1999	UNEP IE	165,550
Total					265,550

**this project will be formulated and submitted later*

4. Costs

Costs of country programme activities and projects:	US\$ 100,000
Estimated cost of complete phase-out:	US\$ 265,550
Estimated specific cost:	US\$ 7.4/kg

ABSTRACT

Basic data:

- Chad covers an area of 1 284 000 km² and in 1994 had a population of 6.3 million. The population density is 4.9 per km².
- Chad ratified the Vienna Convention on May 18th 1989 and the Montreal Protocol on June 7th 1994. The process of acceding to the London and Copenhagen Amendments should begin shortly.
- A national working party has been set up under ministerial Order n°006/MET/DG/95 dated 12/01/1996 in order to draw up the present Country Programme.
- The government of Chad has approved the present Country Programme and the actions for which it provides.

Present situation:

- Chad neither produces nor exports ODS.
- In 1996, ODS consumption in Chad was 35 tonnes ODP, or 0.0055 kg *per capita*.
- The only ozone-depleting substances (ODS) imported are CFC 11, CFC 12 and CFC 115 (as a mixture in R 502). A small quantity of carbon tetrachloride is also imported.
- An analysis by substance shows that CFC 12 accounts for 84% of total consumption and 85% of the Appendix A substances.
- An analysis by sector shows that refrigeration accounts for about 60% of the total consumption and air conditioning 39%.
- No ODS are used in manufacturing industry.
- Consumption in the year 2010 is predicted to be 58 tonnes ODP, unless appropriate steps are taken to modify the present trend.

Implementation of phase-out:

- The table on the next page summarises the Chad Plan of Action. The plan includes 1 projects that are submitted for the approval of the Executive Committee of the Multilateral fund for the Implementation of the Montreal Protocol:
 - The project for Institutional Strengthening, for the establishment of the Ozone Bureau, which is described in Appendix 2. The cost of this project is US \$ 100, 000, Chad is requesting financial assistance of \$US 70,000 from the Multilateral Fund for this project and the technical assistance of UNEP IE for their implementation.

Plan of Action

Period	Sector	Description	Expected effects
1. Institutional			
1999-2001	All	Ozone Bureau	Institutional support for the Ministry of Energy and the Environment
1999	All	Training of personnel responsible for controlling and monitoring ODS imports	To improve control of the movement of ODS.
1999	Refrigeration and air conditioning	Implementation of a refrigerant management plan	An overall approach to phasing out CFCs in the refrigeration and air conditioning sector

2000	Refrigeration and air conditioning	A ban on the import of systems operating with CFCs	Substantial reduction in CFC consumption by 2007
2000	Refrigeration and air conditioning	Introduction of a fiscal system to encourage the import of replacement substances	To encourage the import of replacement substances
2001	Refrigeration and air conditioning	Establishment of a technical centre for refrigeration and air conditioning	To encourage conservation and recycling measures
2. Industry			
2000	Refrigeration and air conditioning	Setting up a recovery and recycling network	
1999	Refrigeration and air conditioning	Training of technicians	Reducing ODS used for maintenance purposes
2003	Conversion of commercial and industrial installations	Commercial and industrial refrigeration	