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EXECUTIVE COMMITTEE OF
THE MULTILATERAL FUND FOR THE
IMPLEMENTATION OF THE MONTREAL PROTOCOL
Forty first Meeting
Montreal, 17 -19 December 2003

COUNTRY PROGRAMME UPDATE: MOROCCO

This document consists of:

- Comments and Recommendations of the Fund Secretariat
- Letter from the Government of Morocco
- Country Programme (Executive Summary)

MOROCCO COUNTRY PROGRAMME UPDATE

1. The Government of Morocco submitted to the 41st Meeting of the Executive Committee the Morocco country programme update, prepared with the assistance of UNIDO, using funds of US \$45,200 approved at the 38th Meeting of the Executive Committee.

ODS phase out projects approved for funding

2. So far, the Executive Committee has approved 49 ODS projects and activities for Morocco at a total cost of US \$11,273,538, to phase out 1,122.7 ODP tonnes of ODSs. As of December 2002, a total of 362.7 ODP tonnes have been phased out and US \$7,577,360 has been disbursed. Annex I provide a list of Multilateral Fund projects and activities approved for Morocco.

ODS consumption

3. The ODS baselines for compliance in Morocco and allowable ODS consumption for 2005-2015 are as follows:

Allowable consumption (ODP tonnes)	CFC	Halon	MB
Baseline consumption	802.27	7.00	697.20
2005	401.14	3.50	557.76
2007	120.34	3.50	557.76
2010	0	0	557.76
2015	0	0	0

^{*1995-1998} baseline

- 4. In 2002, the Government of Morocco reported to the Ozone Secretariat a total CFC consumption of 668.6 ODP tonnes, 3.9 ODP tonnes of halons and 387 ODP tonnes of MB.
- 5. According to the Government of Morocco, the CFC and MB consumption forecasted for the period 2002-2010 is presented in the following table:

Sector	2002	2003	2004	2005	2006	2007	2008	2009	2010
Foam	426	426	426	213	213	63,9	63,9	63,9	0
Commercial refrigeration	77	77	77	42	8	6	4	2	
Refrigeration servicing	175	145	125	104	83	62	42	21	
Subtotal	678	648	628	359	304	131,9	109,9	86,9	
Fumigation (MB)	645	697.2	697.2	557.8	557.8	557.8	557.8	557.8	557.8
Total	1,323	1,345.2	1,325.2	916.8	861.8	689.7	667.7	644	557.8

6. The CFC consumption in the foam sector remains significant due to the problems encountered in implementing the LCD technology (the issue of the LCD technology is presented to the Executive Committee in document UNEP/OzL.Pro/ExCom/41/65).

^{**1998-2000} baseline

Policy measures

7. The Government of Morocco will continue to monitor and control import and use of ODSs. The recently enforced measures controlling imports are already providing better control on ODS uses. Additional support would be needed, however, to enhance the local capacity, implement new ODS policies and regulations, and strengthen the management capability of the organizations involved with project implementation and monitoring.

ODS phase out plan

- 8. The Government of Morocco has decided to prepare a national CFC phase-out plan to address the remaining consumption in the country estimated at 237.6 ODP tonnes (25.3 ODP tonnes in the foam sector, 37.9 ODP tonnes in commercial refrigeration manufacturing sector and 174.4 ODP tonnes in the refrigeration servicing sub-sector).
- 9. Halon consumption will be addressed through a project that will be prepared with the assistance from the Government of Germany.
- 10. The Government of Morocco has developed the following action plan for the phase out of ODSs. The estimated cost of the plan is US \$1,517,038 and will be implemented over a 6 year period (2004-2009).

Year	Target	Action
2004	Strengthen import system and monitoring	Update import control system to include all imports and all ODS; improve monitoring and reporting and technical assistance activities
2004- 2005	Achieve annual targets for ODS reductions; Implement actions according to annual programs for all manufacturing components and portion of service components	Implement annual programs; funding to remaining CFC consuming manufacturing enterprises and technical assistance activities
2006- 2009	Achieve annual targets for ODS reductions; Implement actions according to annual programs for all remaining service components	Implement annual programs; funding to remaining CFC consuming service enterprises and any remaining technical assistance activities
2005	Reduce consumption of halon by 50% (Annex A, Group II); reduce consumption of CFCs by 50% (Annex A, Group I)	Regulatory measures and technical assistance activities
2005	Ban import of CFC based equipment in the refrigeration sector	Combination of financial incentives and regulatory measures and technical assistance activities; funding to remaining CFC-consuming enterprises and legislation
2010	Ban import and use of CFCs (Annex A, Group I); excluding recycled CFCs	Combination of regulatory measures and awareness and technical assistance activities
2015	Ban import and use of MB	Combination of regulatory measures and awareness

SECRETARIAT'S COMMENTS AND RECOMMENDATIONS

COMMENTS

- 11. In the review of the document, the Secretariat noted that the 2002 consumption of all ODSs as reported by the Government of Morocco under Article 7, is below the respective baselines for compliance.
- 12. According to Decision 35/57 of the Executive Committee, the remaining consumption eligible for funding for Morocco was calculated at 49.8 ODP tonnes of CFCs on the basis of Option 1 (Montreal Protocol baseline) or -96.1 ODP tonnes on the basis of Option 2 (very recent consumption) (document UNEP/OzL.Pro/ExCom/35/61). After taking account of the phase out of CFCs in projects approved on or after the 35th Meeting (31.4 ODP tonnes), the maximum remaining CFC consumption eligible for funding is 18.4 ODP tonnes based on Option 1.
- 13. In total, the Executive Committee has approved for funding the phase out of 796.9 ODP tonnes of CFCs in Morocco. As of December 2002, a total of 303.6 ODP tonnes of CFCs had been phased out. Therefore, a further 493.3 ODP tonnes will be phased out from approved but not yet implemented projects.
- 14. The Government of Morocco has not yet selected an option for the remaining consumption eligible for funding. Through a letter signed by the Head of the Department of Commerce and Industry, the Government indicated that the results of the remaining CFC consumption in Morocco under Decision 35/57 did not reflect the current situation in the country. In this regard, the Government had requested UNIDO to prepare a country programme update to reflect the actual consumption in Morocco. According to the country programme update, the remaining CFC consumption has been estimated at 237.6 ODP tonnes.
- 15. The Secretariat noted that according to Proviso A of Decision 35/57, "if an Article 5 country selects option 2, it should be with the understanding that the Executive Committee may agree in exceptional cases to adjust the resulting baseline at the first instance a project from a country is considered, to take into account the demonstrated non representative nature of the last year's data for reasons such as clearly demonstrated stockpiling in the specific 12-month period, and/or national economic difficulties in the specific 12-month period". There are no other provisos in Decision 35/57 for a change in the starting point for determining the remaining consumption eligible for funding.

RECOMMENDATIONS

- 16. The Fund Secretariat recommends approval of the Morocco country programme update, noting that approval of the country programme does not denote approval of the projects identified therein or their funding levels.
- 17. The Executive Committee may also wish to provide guidance to the Government of Morocco regarding the remaining consumption eligible for funding.

Annex I
List of projects and activities approved by the Executive Committee for Morocco

		ODP	ODP phased	US\$	US\$
Projects and activities	Agency	funded	out	approved	disbursed
Aerosol sector					
Preparation of investment project in the aerosol					
sector	UNIDO	-	-	13,607	13,607
Foam sector					
Project preparation for 2 projects in the foam					
sector	UNDP	-	-	22,600	22,600
Phasing out of CFC-11 in the manufacture of rigid					
polyurethane foam at Engequife by conversion to a					
combination of water and HCFC-141b based					
systems	UNDP	7.2	5.0	63,722	58,167
Phasing out of CFC-11 in the manufacture of rigid					
polyurethane foam at Interfer by conversion to a					
combination of water and HCFC-141b based					
systems	UNDP	10.1	-	89,239	82,398
Conversion to LCD technology in the manufacture					
of flexible foam (slabstock) to replace CFC-11 at					
Bonbino Confort	UNDP	90.0	-	553,926	520,600
Phase out of CFC in the manufacture of flexible					
foam (slabstock) at Mousse d'Or S.A.	UNDP	45.0	-	316,796	288,215
Phase out of CFC in the manufacture of flexible					
foam (slabstock) at Molen Industrie S.A.	UNDP	9.0	9.0	63,359	59,108
Phase out of CFC in the manufacture of rigid foam			40.0		
at Panaf Isolation S.A.	UNDP	17.5	18.0	151,204	151,204
Phase out of CFCs in the manufacture of integral					
skin and cold cured molded PUF products at	TIMED	12.0	12.0	125 600	125 600
Maghreb Elastoplast	UNDP	13.0	13.0	135,600	135,600
Phase out of CFC in the manufacture fo flexible	LINIDD	40.0		227 970	207.057
foam (slabstock) at Salidor S.A.	UNDP	48.0	-	337,870	297,857
Phase out of CFC in the manufacture of flexible					
foam (slabstock) at Sodiflex and Tiznit Plastic S.A.	UNDP	85.0		594 540	572 501
Phase out of CFC in the manufacture of flexible	UNDP	83.0	-	584,549	572,591
foam (slabstock) at Dolidol(*)	UNDP			537,679	422,868
Phase out of CFC in the manufacture of flexible	UNDI		-	331,019	422,000
foam (slabstock) at Richbond S.A.	UNDP	150.0	150.0	531,806	485,920
	UNDP	130.0	130.0	75,490	75,490
Project preparation in the foam sector Phase out of CFC in the manufacture of flexible	UNDF	-	-	73,490	73,490
foam (slabstock) at Richdor S.A.	UNDP	10.0	10.0	70,399	70,141
Conversion to HCFC-141b/water technology in the	UNDI	10.0	10.0	70,399	70,141
manufacture of rigid polyurethane spray foam at					
Batcomar S.A.	UNDP	9.2	9.0	69,127	69,127
Fumigant sector	01101	7.2	7.0	07,127	07,127
Phase out of methyl bromide for soil fumigation in					
strawberry production	UNIDO	155.0	59.0	2,440,599	397,326
Preparation of phase-out project in the methyl	ONIDO	133.0	37.0	∠, ++ ∪,J <i>j</i> 9	391,320
bromide sector	UNIDO	_	_	33,553	33,553
		61.0	-	1,127,384	1,039,369
Phase-out of methyl bromide use in the cut flower	France	01.0	-	1,14/,384	1,039,309

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			ODP		
		ODP	phased	US\$	US\$
Projects and activities	Agency	funded	out	approved	disbursed
and banana production					
Preparation of investment project in the					
fumigants/methyl bromide sector (flowers)	UNIDO	-	-	16,756	16,756
Preparation of investment project in the					
fumigants/methyl bromide sector (bananas)	UNIDO	-	-	16,379	16,379
Four alternatives to the use of methyl bromide in					
horticulture: steam pasteurization, non-soil					
cultivation, solarization, and low-dose chemicals,					
in combination with an Integrated Pest					
Management	UNIDO	-	-	541,610	541,610
Phase-out of methyl bromide for soil fumigation in					
tomato production (first tranche)	UNIDO	109.8	-	452,000	1,903
Three alternatives to the use of methyl bromide:					
enemy plants, organic amendments and grafting on					
resistant rootstocks in combination with an					
integrated pest management system in tomatoes	_				
and curcubits	Germany	-	-	229,523	229,523
Halon sector					
Project preparation/technical assistance in the					
halon sector	Germany	-	-	11,887	11,887
Refrigeration sector					
Conversion to HCFC-141b technology (rigid					
foam) and HFC-134a (refrigeration) in the					
manufacture of domestic refrigerators and freezers					
at Manar	UNIDO	38.6	38.6	460,234	460,234
Conversion from CFC-11 to HCFC-141b and					
CFC-12 to HFC-134a technology in the					
manufacture of commercial refrigeration					
equipment at Etablissement Lahdar	UNIDO	7.4	-	114,640	80,683
Conversion from CFC-11 to HCFC-141b and					
CFC-12 to HFC-134a technology in the					
manufacture of commercial refrigeration					
equipment at First Clim Co.	UNIDO	9.0	-	152,842	94,734
Conversion from CFC-11 to HCFC-141b and					
CFC-12 to HFC-134a technology in the					
manufacture of commercial refrigeration					
equipment at Climatisation et Froid Loudaya	TIMIDO	15.0		200.262	142.066
(CFL)	UNIDO	15.0	-	200,363	142,966
Technical assistance for cold storage equipment (traning and demonstration project)	France			120.054	
	France	-	-	120,054	
Replacement of refrigerant CFC-12 with HFC-134a and foam blowing agent CFC-11 with					
HCFC-141b in the manufacture of domestic and					
commercial refrigeration equipment at Comafro	UNIDO	6.5	6.5	150,737	137,990
Replacement of refrigerant CFC-12 with HFC-	OTTIDO	0.5	0.5	150,757	131,770
134a and foam blowing agent CFC-11 with					
HCFC-141b in the manufacture of commercial					
refrigeration at Sonyafroid	UNIDO	13.1	13.1	308,371	308,371
Project preparation for the formulation of a project	51,115	13.1	13.1	330,371	330,371
to implement a recycling network for CFC-11,					
CFC-12 and HCFC-22	France	_	_	20,000	20,000
				=0,000	=0,000

		000	ODP	*IGA	*IGA
Ducinets and activities	Aconor	ODP	phased	US\$	US\$
Projects and activities Replacement of refrigerant CFC-12 with HFC-	Agency	funded	out	approved	disbursed
134a and foam blowing agent CFC-11 with					
HCFC-141b in the manufacture of commercial					
refrigeration equipment at Siafmo	UNIDO	8.7	8.7	138,758	138,758
Preparation of a refrigerant management plan	UNEP	1	-	33,900	9,040
Preparation of investment project in the				,	,
commercial refrigeration sector	UNIDO	_	-	6,186	6,186
Replacement of CFC-12 with HFC-134a for					
commercial refrigeration at Smifam	UNIDO	4.9	4.9	67,896	67,896
Replacement of CFC-12 with HFC-134a for					
commercial refrigeration at Batinox	UNIDO	4.5	4.5	36,756	36,756
Replacement of CFC-12 with HFC-134a for					
commercial refrigeration at Alom Du Nord	UNIDO	7.7	7.7	97,719	97,719
Preparation of investment project in the					
commercial refrigeration sector for Allom du Nord	TIMIDO			12 200	12 200
and others	UNIDO	-	-	12,309	12,309
Training of refrigeration technicians on recovery and recycling methodologies	France			53,361	53,361
Implementation of an ODS recovery and recycling	France	-	-	33,301	33,301
network	France	22.0	_	355,867	_
Technical assistance on alternative technologies	Trance	22.0		333,007	
for cold storage facilities	France	-	_	40,000	40,000
Replacement of refrigerant CFC-12 with HFC-				,	,
134a and foam blowing agent CFC-11 with					
HCFC-141b in the manufacture of commercial					
refrigeration equipment at Mafidec	UNIDO	5.6	5.6	123,517	117,137
Several sector					
Preparation of the country programme update	UNIDO	1	-	45,200	-
Country programme preparation	UNEP	1	-	-	-
Creation of Ozone Unit	UNEP	-	-	202,270	93,526
Project formulation of investment projects in					
domestic refrigeration and methyl bromide sectors	UNIDO	-	-	23,295	23,295
Project preparation	UNDP		-	22,600	22,600
Total		962.8	362.6	11,273,538	7,577,360

^(*) Project closed

ROYAUME DU MAROC



MINISTERE DE L'INDUSTRIE, DU COMMERCE ET DES TELECOMMUNICATIONS

DEPARTEMENT DU COMMERCE L'I DE L'EINDUSTRIE

DPI/C

FAX

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Fax n°	1	359/03/RE/DPI/C	Nb de pages: 3
De	:	DIRECTION DE LA PRODUCTION Tél.: 212 (07) 76 22 97	NDUSTRIELLE Fax: 212 (07) 66 00 27
A	:	ONUDI	
Αtt	:	MONSIEUR A. MALAEYRI	FAX: 431213464568
Objet	:	Protocole de Montréal. Mise à jour du programme pays du Ma	roc.
REF.	:	Votre e-mail en date du 26 Septembre 2	
		1.	

Monsieur,

Par e-mail cité en reference, vous avez communiqué à ce Département, pour signature, la note de transmission au Comité Exécutif du projet relatif à la mise à jour du programme pays du Maroc.

A ce sujet, j'ai l'honneur de vous transmettre, ci-joint, ladite note dûment signée, et de vous demander de bien vouloir soumettre le programme pays mis à jour à la 41^{èm} réunion du Comité Exécutif prévue à Montréal

Veuillez agréer, Monsieur, l'expression de mes salutations distinguées.

Le Directeur de la Production

Signe : Jamal Eddine EL J MALI

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EXECUTIVE SUMMARY

Morocco has decided to base the remaining phase-out activity of ODS on a National Phase-out Plan (NPP) where The Ozone Office will assume the leading role managing the ODS phase-out plan. The plan will be implemented by UNIDO, UNEP, UNDP, France and Germany as implementing agencies with UNIDO as the leading agency.

The CPU was prepared on the basis of a review of the current results under the original CP and the added action programs for halon and methyl bromide in addition to a critical assessment of needed policy, strategy and actions to complete phase-out of remaining ODS in the country. Ongoing actions will continue as individual projects as detailed in the CPU.

All remaining phase-out actions will be included in a National Phase-out Program according to the phase-out schedule of the Montreal Protocol. The overall targets for all sectors will be as follows:

Sector	Phaseout Target
Halons	2010
Methyl Bromide	2015
Solvents	2010
CFCs (except service)	2010
CFCs in service and Maintenance	2010

The components of the National CFC Phase-out Plan will consist of the phase-out of:

- Remaining CFCs in commercial refrigeration sector
- Remaining CFCs in refrigeration service sector (inc MAC)
- Remaining CFCs in foam sector
- Remaining solvent (CTC) sector;

The estimated cost of a NPP is **US\$ 1,517,038** for funding of the remaining consumption of **238 ODP tons,** excluding methyl bromide. This gives a costs effectiveness of 6.65 US\$/kg ODP.

The Ozone Office will also be in charge of the technical support and technical assistance program to ensure that the obligations under the MP are met and residual consumption by a large number of very small workshops are addressed through a combination of awareness, training and financial support. UNIDO will *be* the implementing agency for the commercial refrigeration sector.

UNEP is preparing the refrigerant management plan. France will continue with the implementation of the recovery and recycling and technical assistance for cold stores. The conversion of foam projects will be submitted by UNDP.

The NPP will be implemented through a series of annual action programs covering each concerned sector that will be prepared by The Ozone Office in cooperation with the Implementing Agencies.

UNIDO will continue implementing methyl bromide phase-out and the Germany will continue implementing the halon phase-out. UNIDO will continue implementing ongoing commercial refrigeration projects.

The program will lead to a complete phase-out of consumption of Annex A, Annex B and Annex E chemicals in Morocco and will assure that future need for servicing of all remaining ODS containing equipment can be met through recycled ODS after 2010.

BACKGROUND

Morocco is committed to the complete ODS phase-out in accordance with the timetable set by the MP. In 1996 Morocco ratified the MP, committing to phase out ODS and therefore became eligible to receive grants from the MLF.

Table 1: Ratification of the Montreal Protocol and its Amendments

Agreement	Date Ratified	Date of Entry into Force
Vienna Convention	13/12/1995	27/03/1996
Montreal Protocol	09/11/1992	27/03/1996
London Amendment	13/12/1995	27/03/1996
Copenhagen Amendment	13/12/1995	27/03/1996
Montreal Amendment:	under consideration	-
Beijing Amendment	under consideration	-

The original country's objective is to phase out most of the CFCs (Group AI) by year 2005; with some continued use of ODS for service and maintenance up to 2010.

Morocco's ODS Phaseout Country Program (CP) was prepared during 1995/96. It was approved in May 1996 at the 20th meeting of the Executive Committee (ExCom) of the Montreal Protocol (MP).

PURPOSE OF THE UPDATED COUNTRY PROGRAMME

The Country Program Update (CPU) for Morocco provides an overview of activities implemented under the Montreal Protocol to date and includes an analysis of remaining ODS phaseout that is required. It also presents a strategy, action plan and cost estimate to complete phaseout.

The Up-date of the Country Programme is aiming at::

- Assessing feed-back gained to date on the implementation of the National Action Plan for the phase out of Ozone Depleting Substances (ODS)
- Identifying what additional measures might be needed to ensure the phase out of the remaining ODS consumption in Morocco
- Up-dating National Action Plan to reflect the latest Amendments to the Montreal Protocol;
- Update and information pertaining to ODS importers, exporters, producers and users in Morocco
- Reflecting the actual consumption of ODS in Morocco
- Identifying ODS users that have not been included in the original CPU

ASSISTANCE RECEIVED

The original Country Programme and associated investment projects were prepared in 1995/96 by the Ministry of Industry and Commerce (Department of Industry) in close cooperation with the Ministry of Environment.

The Country Programme Update was prepared by UNIDO based on the information provided by the international expert as well as the two local experts. The Multilateral Fund (MLF) has provided financial assistance for this revision of the CPU.