UNITED NATIONS





United Nations Environment Programme

Distr. LIMITED

UNEP/OzL.Pro/ExCom/44/28 3 November 2004

ORIGINAL: ENGLISH

EXECUTIVE COMMITTEE OF
THE MULTILATERAL FUND FOR THE
IMPLEMENTATION OF THE MONTREAL PROTOCOL
Forty-fourth Meeting
Prague, 29 November-3 December 2004

PROJECT PROPOSAL: BOSNIA AND HERZEGOVINA

This document consists of the comments and recommendation of the Fund Secretariat on the following project proposal:

Phase out

• National ODS phase-out plan: second tranche

UNIDO

PROJECT EVALUATION SHEET – MULTI-YEAR PROJECTS COUNTRY: BOSNIA AND HERZEGOVINA

PROJECT TITLE BILATERAL/IMPLEMENTING AGENCY

National ODS phase-out plan: second tranche	UNIDO
---	-------

NATIONAL CO-ORDINATING AGENCY:	NOU, Ministry of Foreign Trade
	and Economic Relations

LATEST REPORTED CONSUMPTION DATA FOR ODS ADDRESSED IN PROJECT

A: ARTICLE-7 DATA (ODP TONNES, 2003, AS OF JULY 2004)

Annex A, Group I, CFCs	230.0
Annex B, Group III, TCA	3.6

B: COUNTRY PROGRAMME SECTORAL DATA (ODP TONNES, 2003 DATA, AS OF 1 JUNE 2004)

ODS	Aerosol	Foam	Ref. mfg.	Ref. Service	Solvent		
CFC-11	0	47.0	81.8	0	0		
CFC-12	0	0	16.2	85.0	0		
TCA	0	0	0	0	3.6		

CFC consumption remaining eligible for funding (ODP tonnes)	n/a
---	-----

CURRENT YEAR BUSINESS PLAN: Total funding US \$318,000 : total phase-out 42.1 ODP tonnes

PROJECT DA	ΓΑ	2003*	2004	2005	2006	2007	2008	2009	2010	Total
	Montreal Protocol limits for the country	24.2	24.2	12.1	12.1	3.6	3.6	3.6	0	n.a.
CFCs	Agreed annual consumption limits	235.3	167.0	102.1	33.0	3.0	0	0	0	n.a.
(ODP tonnes)	Annual phase-out from ongoing projects		67.1	47.0	0	0	0	0	0	114.1
	Annual phase-out newly addressed		0	17.9	69.1	30.0	3.0	0	0	120.0
	Annual MLF-funded phase-out		67.1	64.9	69.1	30.0	3.0	0	0	234.1
	Montreal Protocol limits for the country	1.7	1.7	1.1	0	0	0	0	0	n.a.
TCA	Annual phase-out from ongoing projects		0.6	0	0	0	0	0	0	0.6
(ODP tonnes)	Annual phase-out newly addressed		0	1.1	0	0	0	0	0	1.1
	Annual MLF-funded phase-out		0.6	1.1	0	0	0	0	0	1.7
TOTAL ODS (CFCs and TCA)	CONSUMPTION TO BE PHASED-OUT		67.7	66.0	69.1	30.0	3.0	0	0	235.8
Total ODS consum	ption to be phased in	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Final total project	funding (US\$)	265,300	295,860	303,000	0	0	0	0	0	864,160
Final total support cost (US\$)		19,898	22,190	22,725	0	0	0	0	0	64,812
TOTAL COST TO MULTILATERAL FUND (US\$ 000)		285,198	318,050	325,725	0	0	0	0	0	928,972
Final project cost	effectiveness (US \$/kg)									7.24

^{*}Estimated value

FUNDING REQUEST: Approval of funding for the second tranche (2004) as indicated above.

SECRETARIAT'S	For individual consideration
RECOMMENDATION	

PROJECT DESCRIPTION

Background

- 1. The National ODS Phase-out Plan for Bosnia and Herzegovina was approved in December 2003 at the 41st Meeting of Executive Committee, taking into account the plan of action recommended by the 31st Meeting of the Implementation Committee and approved at the 15th Meeting of the Parties (Decision XV/30). In its plan of action the Government of Bosnia and Herzegovina committed to reduce its CFC consumption from 243.6 ODP-tonnes in 2002 235.3 ODP tonnes in 2003, 167 ODP tonnes in 2004, 102.1 ODP tonnes in 2005, 33 ODP tonnes in 2006, 3 ODP tonnes in 2007, and to phase out CFC consumption by 1 January 2008, except for essential uses that might be authorized by the Parties. Bosnia and Herzegovina also committed to establish, by 2004, a system for licensing imports and exports of ODS, including quotas, and to ban, by 2006, imports of ODS-based equipment.
- 2. Targets and funding are reproduced in Table 1 below as contained in the Agreement between the Government of Bosnia and Herzegovina and the Executive Committee.

Table 1

	2003(*)	2004	2005	2006	2007	2008	2009	2010
1A. Max agreed total consumption								
of Annex A Group I substances	235.3	167.0	102.1	33.0	3.0	0	0	0
(ODP tonnes)								
2. Reduction from ongoing projects		68.3	47.0	0	0	0	0	0
3. New reduction under plan		0	17.9	69.1	30.0	3.0	0	0
4. Total annual reduction of Annex		(0.2	64.0	<i>(</i> 0 1	20.0	2.0	0	0
A Group I substances (ODP tonnes)		68.3	64.9	69.1	30.0	3.0	U	0
5. Max allowable total consumption								
of Annex B Group III substances	1.7	1.7	1.1	0	0	0	0	0
(ODP tonnes)								
6. Reduction from ongoing projects	ı	0.6	0	0	0	0	0	0
7. New reduction under plan	1	0	1.1	0	0	0	0	0
8. Total annual reduction of								
Annex B Group III substance (ODP	-	0.6	1.1	0	0	0	0	0
tonnes)								
9. Lead I.A. agreed funding (US \$)	265,300	295,860	303,000	0	0	0	0	0
10. Lead I.A. support costs (US \$)	19,898	22,190	22,725	0	0	0	0	0
11. Total agreed funding (US \$)	285,198	318,050	325,725	0	0	0	0	0

^(*) Estimated consumption figure

Progress Report on Activities Undertaken in 2004

3. UNIDO, on behalf of the Government of Bosnia and Herzegovina, submitted the progress report on implementation of the 2004 Work Programme.

- 4. According to the progress report, several activities were initiated in 2004:
 - <u>In the foam sector</u>, one company manufacturing water boilers was identified for technical assistance. The letter of consent was signed with UNIDO, technical specifications for the purchase of equipment WERE agreed. Competitive bidding was organized subsequently. The installation and commissioning of equipment is planned to be completed at the end of 2004.
 - <u>In the refrigeration manufacturing sector</u>, three companies have been identified as eligible for funding. Technical specifications for the purchase of foaming and refrigeration production equipment have been agreed and competitive bidding has commenced. The installation and commissioning of equipment is planned to be completed at the end of 2004.
 - Discussion between UNIDO and the Government of Bosnia and Herzegovina has been initiated on proper modalities for the implementation of the <u>customs training programme</u>.
 - Under the <u>National Programme for Training Service Technicians</u>, UNIDO is in communication with the Government of Bosnia and Herzegovina regarding the preparation of the training manual for refrigeration servicing technician.
- 5. The progress report contains information on the financial status of the implementation of the National ODS Phase-out Plan. The approved expenditures represent about 75% of the total allocations approved under the first tranche.
- 6. The consumption of CFCs in 2003 was 230 ODP tonnes, which was lower than the estimated consumption of 235.3 ODP tonnes. The consumption of TCA was 3.6 ODP tonnes, which is higher than the Montreal Protocol baseline consumption level of 1.7 ODP tonnes for TCA.

2005 Annual Implementation Programme

- 7. The 2005 annual implementation programme contains planning activities to be implemented in the refrigeration manufacturing and servicing sub-sectors and in the foam and solvent sectors. The estimated CFC consumption in 2004 of 168.7 ODP tonnes in these sectors is expected to be reduced by 65.5 ODP tonnes to 103.2 ODP tones in 2005. The planning level of consumption and reduction corresponds to targets established in the Action Plan and the Agreement. The proposed activities cover the provision of technical assistance in the solvent sector, undertaking investment activities for conversion of refrigeration manufacturing enterprises to non-ODS technologies, recovery and recycling of CFC refrigerants, and training of refrigeration technicians. Policy development activities at the Government level will address: the establishment of policy control on ODS import; enforcement of regulations facilitating the reduction in CFC consumption and total phase-out and monitoring; public awareness activities. The proposed activities are presented in accordance with the format outlined in the Agreement.
- 8. The requested funding is US \$295,860 with agency support costs of US\$ 22,190.

SECRETARIAT'S COMMENTS AND RECOMMENDATION

COMMENTS

- 9. The Secretariat noted that the 2004 progress report has no indications on activities at the Government level undertaken in 2004 toward establishing a system for licensing imports and exports of ODS, including quotas in Bosnia and Herzegovina. It also drew UNIDO's attention to the Government's commitments to establish such a system by 2004 and to ban, by 2006, imports of ODS-based equipment as reflected in the plan of action approved by the Fifteenth Meeting of Parties (Decision XV/30). The Secretariat advised UNIDO to revise the 2005 work programme by introducing the necessary activities.
- 10. The reported consumption of TCA in 2003 (3.6 ODP tonnes) exceeded Bosnia and Herzegovina's Montreal Protocol baseline limit for TCA consumption of 1.7 ODP tonnes which is also the limit contained in Table 1 of the Agreement. Bosnia and Herzegovina therefore appears to be in non-compliance for TCA. The Secretariat sought clarification from UNIDO on this issue. UNIDO clarified that, at the time of approval of the National ODS Phase-out Plan and the Agreement at the 41st Meeting of the Executive Committee in December 2003, the TCA consumption of 2.3 ODP tonnes for 2003 was reflected as an estimate in the footnote to Table 1 in the Agreement. More accurate data on TCA consumption in 2003 were obtained and reported by the NOU only in 2004. The consumption of TCA will be consistent with the targets established in following years.
- 11. No provision has been made in the 2005 annual programme for an independent audit of CFC and TCA phase-out and consumption. Since, unlike payments in 2003 and 2004, the payment in 2005 is not exempt from verification audit, it would be expected that, as a condition for receiving the third tranche in 2005, the Government of Bosnia and Herzegovina would provide data on CFC and TCA phase-out and level of consumption in 2004, verified through an independent audit.
- 12. UNIDO agreed to revise the 2005 work programme introducing the necessary activities accordingly.
- 13. The proposal is submitted for individual consideration.

RECOMMENDATION

14. The Executive Committee may wish to consider approval of the 2005 work programme and the requested funding in light of information provided above.

- - - -

PROJECT COVER SHEET – MULTI-YEAR PROJECTS

COUNTRY: Bosnia and Herzegovina

PROJECT TITLENational ODS Phase-out Plan (multi sector), 2nd Tranche

IMPLEMENTING AGENCY

UNIDO

NATIONAL COORDINATING AGENCY:

NOU, Ministry of Foreign Trade and Economic Relations

LATEST REPORTED CONSUMPTION DATA FOR ODS ADDRESSED IN PROJECT

A: ARTICLE-7 DATA (ODP tonnes, 2003, AS OF JULY 2004)

Annex A, Group I, CFCs	230.0
Annex B, Group III, TCA	3.6

B: COUNTRY PROGRAMME SECTORAL DATA (2003), ODP tonnes

ODS	Aerosol	Foam	Ref. mfg.	Ref. Service	Solvent	TOTAL
CFC-11	0	47.0	81.8	0	0	128.8
CFC-12	0	0	16.2	85.0	0	101.2
CFC Total	0	47.0	98.0	85.0	0	230.0
TCA	0	0	0	0	3.6	3.6
Total	0	47.0	98.0	85.0	3.6	233.6
CFC Consump	otion remaining		n.a.			

CURRENT YEAR BUSINESS PLAN: Total funding \$ 318,000: Total phase-out, 42.1 ODP tonnes

PROJECT :	DATA	2003*	2004	2005	2006	2007	2008	2009	2010	Total
	Montreal Protocol limits for the country	24.2	24.2	12.1	12.1	3.6	3.6	3.6	0	n.a.
CFCs	Agreed annual consumption limits	235.3	167.0	102.1	33.0	3.0	0	0	0	n.a.
(ODP tonnes)	Annual phase-out from ongoing projects		67.1	47.0	0	0	0	0	0	114.1
	Annual phase-out newly addressed		0	17.9	69.1	30.0	3.0	0	0	120.0
	Annual MLF-funded phase-out		67.1	64.9	69.1	30.0	3.0	0	0	234.1
	Montreal Protocol limits for the country	1.7	1.7	1.1	0	0	0	0	0	n.a.
TCA (ODP tonnes)	Annual phase-out from ongoing projects		0.6	0	0	0	0	0	0	0.6
(ODI tollies)	Annual phase-out newly addressed		0	1.1	0	0	0	0	0	1.1
	Annual MLF-funded phase-out		0.6	1.1	0	0	0	0	0	1.7
TOTAL ODS (OUT (CFCs ar	CONSUMPTION TO BE PHASDE- nd TCA)		67.7	66.0	69.1	30.0	3.0	0	0	235.8
Total ODS cons	sumption to be phased in	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Total project funding (US\$ 000)		265.3	295.86	303.0	0	0	0	0	0	864.16
Total support	cost (US\$ 000)	19.898	22.19	22.725	0	0	0	0	0	64.812
TOTAL COST TO MULTILATERAL FUND (US\$ 000)		285.198	318.05	325.725	0	0	0	0	0	928.972
* Estimated val	110									

^{*} Estimated value

Project cost effectiveness (US\$/kg ODP)	7.24

FUNDING REQUEST: Approval in principle of total ODS phase-out, total project funding and total

costs, and approval of funding for the second tranche (2004) as indicated

above.

Prepared by: Ministry of Environment/UNIDO Date: 30 September 2004

Reviewed by: n.a. Date: n.a.

Part 1. ACHIEVEMENT; FIRST TRANCHE

Preface

The National ODS Phase-out Plan for Bosnia and Herzegovina was approved in December 2003 at the 41st Meeting of Executive Committee of the Multilateral Fund for the implementation of the Montreal Protocol. The implementation of the project started in January 2004 through intimate discussion between the NOU and UNIDO to determine the implementation modality of this complicated project involving a number of different types of activities and stakeholders. Major achievement for project implementation during January – September 2004 is described in this Chapter.

1. Project Management (including technical support)

UNIDO and the NOU are working on establishing the adequate national system to support and facilitate implementation of the project.

2. Foam Sector Program

One company in the foam sector producing water boilers was verified to be eligible for technical assistance through the procurement of foaming equipment. Company was visited by UNIDO expert, letter of consent was signed and technical specification for the purchase of equipment was agreed. Competitive bidding was organized subsequently. Delivery time November 2004.

3. Refrigeration Manufacturing Sector Program

Seven production companies in the commercial refrigeration sub-sector as listed in the project document were verified and visited by NOU. Three of them have been found eligible to receive foaming equipment for their cabinet and cold room insulating operations. Technical specification for the purchase of foaming as well as refrigeration component equipment was agreed and competitive bidding commenced. Delivery time for foaming equipment, November 2004.

Bidding for selected set of the refrigeration equipment still in progress.

4. Customs Improvement Program

Discussion between UNIDO and the NOU has been initiated to find the proper modality to implement this component of the NPP.

5. National Program for Training Service Technicians

UNIDO communicated with the NOU on preparation of the training manual for service technicians.

6. Financial status (as of 30 September 2004)

Table 1 shows the financial status of the National ODS Phase-out Plan, first tranche as of 30 September. The expenditure is 75% of the total project costs approved

Table 1. Financial status of the National ODS Phase-out Plan, first tranche

NPP Components	Approved US\$	Expenditure US\$	Remarks		
Project management					
International consultant	3,000	0	To be obligated by the end 2004		
Coordination office set up	3,000	0	Same as above		
TOTAL	6,000	0			
Foam Sector Program					
Equipment procurement	43,850	46,543			
Commissioning, start up, trial, training		3,225			
TOTAL	43,850	49,768			
Refrigeration Manufacturing	Sector Progr	ram			
Equipment procurement	173,000	139,704	Foaming equipment where eligible		
Commissioning, start up, trial,		9,600			
training		9,000			
TOTAL	173,000	149,304			
Customs Empowerment prog	ram				
Workshop1x2 days for 20 train	ees				
Support of trainees travel	1,000	0	To be obligated by the end 2004		
Workshop arrangement	3,000	0	Same as above		
Training material	8,000	0	Same as above		
International expert	5,000	0	Same as above		
Trainers fee	450	0	Same as above		
Refrigerant identifiers	10,000	0	Same as above		
Contingency	5,000	0	Same as above		
TOTAL	34,450)			
National Project for Training	Service Tecl	nnicians			
Training workshops 40x4 days	for 10 trainee	s			
Material preparation, drafting, translation, printing 500 copies	10,000	0	To be obligated by the end 2004		
TOTAL	10,000	0			
GRAND TOTAL	265,300	199,072	Expenditure, 75% as of 30 September 2004		

7. ODS Consumption

The actual consumption of CFCs in 2003 was 230 ODP tonnes, which was lower than the estimated consumption of 235.3 ODP tonnes. That of TCA was 3.6 ODP tonnes, higher than the estimated consumption of 1.7 ODP tonnes. The total consumption of CFCs and TCA in 2003 was 233.6 ODP tonnes a little lower than estimated consumption of 237 ODP tonnes.

8. Conclusion

Most of the milestones in manufacturing sectors set for the first tranche in the National ODS Phase-out Plan for Bosnia and Herzegovina have been achieved, which were of highest priority in the first tranche of the NPP. Activities related to the service sector will be achieved by the end 2004. This achievement along with the project implementation of on-going investment projects will lead to the drastic reduction of CFC/TCA consumption in 2004 toward the compliance status planned in 2007.

PART 2. ANNUAL IMPLEMENTATION PROGRAMME; SECOND TRANCHE

1. Data

Country : Bosnia and Herzegovina

Year of plan : 2005

of years completed : 1
of years remaining under the plan : 3

Target ODS consumption of the preceding year : 167.0 ODP tonnes for CFCs

1.7 ODP tonnes for TCA

Target ODS consumption of the year of plan : 102.1 ODP tonnes for CFCs

1.1 ODP tonnes for TCA

Level of funding requested : US\$ 318, 050

Lead implementing agency : UNIDO

2. Targets

Target (CFC):	102.1 ODP tonnes			
Indicators		Preceding Year	Year of Plan	Reduction
Supply of ODS	Import	167	102.1	64.9
	Production*	0	0	0
	Total (1)	167	102.1	64.9
Demand of ODS	Manufacturing	88.7	26.9	64.9
	Servicing	78.3	75.2	0
	Stockpiling	0	0	0
	Total (2)	167	102.1	64.9

Target(TCA):	1.1 ODP tonnes			
Indicators		Preceding	Year of Plan	Reduction
		Year		
Supply of ODS	Import	1.7	1.1	0.6
	Production*	0	0	0
	Total (1)	1.7	1.1	0.6
Demand of ODS	Manufacturing	1.7	1.1	0.6
	Servicing	0	0	0
	Stockpiling	0	0	0
	Total (2)	1.7	1.1	0.6

3. **Industry Action**

Sector	Consumption Preceding Year (1)	Consumption Year of Plan (2)	Reduction within Year of Plan (1)-(2)	Number of Projects Completed	Number of Servicing Related Activities	ODS Phase- Out (in ODP tonnes
		Manufa	cturing			
Aerosol	0	0	n.a.	n.a.		n.a.
Foam	40.6	0	40.6	2		40.6
Refrigeration	48.1	26.9	21.2	3		21.2
Solvents	1.7	1.1	0.6	1		0.6
Other	n.a.	n.a.	n.a	n.a.		n.a.
Total	90.4	28.0	62.4			62.4
		Serv	icing			
Refrigeration	78.3	75.2	3.1	-	3	3.1
Total	78.3	75.2	3.1	-	3	3.1
GRAND TOTAL	168.7	103.2	65.5	6	3	65.5

4. **Technical Assistance**

4.1	Proposed Activity:	Project management
	Objective:	Further strengthening of the national system for
		project implementation.
	Target Group:	Project management team
	Impact:	Smooth project implementation
4.2	Proposed Activity:	Technical Assistance for Solvent Sector Program
	Objective:	Preparation of terms of reference to phase out TCA at
		MIK D.O.O. Kupres. To carry out eligible technical
		assistance through relevant technology transfer, training
		and equipment.
	Target Group:	MIK D.O.O.
	Impact:	Phase-out of TCA consumption at MIK D.O.O.
4.3	Proposed Activity:	Refrigeration Manufacturing Sector Program
	Objective:	Conversion technology from CFC-12 to HCFC-134a
		through procurement of necessary equipment like
		charging boards, vacuum pumps and leak detector for
		remaining four eligible companies.
	Target Group:	Relevant enterprises
	Impact:	Phase-out of CFC-12 consumption at relevant

^{*} For ODS-producing countries

		enterprises
4.4	Proposed Activity:	National Project for Training Service Technicians
	Objective:	Training of trainers workshops (30x4 days)
	Target Group:	300 trainees
	Impact:	Trainers trained and certified
4.5	Proposed Activity:	National Recovery and Recycling Project
	Objective:	Training of staff for recovery centers
	Target Group:	Staff of recovery centers
	Impact:	Five recycling centers established

5. Government Action

Policy/Activity Planned	Schedule of Implementation
Type of Policy Control on ODS Import:	During 2005
Enforcement of relevant regulations related to	
ODS phased reduction and complete phase-out	
and monitoring of their implementation.	
Public Awareness	During 2005
Fill in relevant Ozone information on the NOU	
web-site, Ozone officers appearance at TV, etc.	
Others	

6. **Annual Budget**

Activity	Planned Expenditures (US \$)
Project management	20,000
Technical assistance for solvent sector program	20,000
Refrigeration Manufacturing Sector Program	100,000
Technical assistance for the refrigeration service	155,860
sector establishment of training centers, national project for training service technicians, provision of service equipment and recovery tools	
TOTAL	295,860

7. Administrative Fees

US\$ 22,190