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EXECUTIVE COMMITTEE OF  
THE MULTILATERAL FUND FOR THE  
IMPLEMENTATION OF THE MONTREAL PROTOCOL  
Seventy-first Meeting  
Montreal, 2-6 December 2013

**PROJECT PROPOSAL: CAPE VERDE**

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

Phase-out

- HCFC phase-out management plan (stage I, second tranche)

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## PROJECT EVALUATION SHEET – MULTI-YEAR PROJECTS

### Cape Verde

<b>(I) PROJECT TITLE</b>	<b>AGENCY</b>
HCFC phase-out management plan (stage I)	UNEP

<b>(II) LATEST ARTICLE 7 DATA</b>	Year: 2012	0.23 (ODP tonnes)
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<b>(III) LATEST COUNTRY PROGRAMME SECTORAL DATA (ODP tonnes)</b>								<b>Year: 2012</b>	
Chemical	Aerosol	Foam	Fire fighting	Refrigeration		Solvent	Process agent	Lab Use	Total sector consumption
				Manufacturing	Servicing				
HCFC-123									
HCFC-124									
HCFC-141b									
HCFC-142b									
HCFC-22					0.28				0.28

<b>(IV) CONSUMPTION DATA (ODP tonnes)</b>			
2009 - 2010 baseline:	1.10	Starting point for sustained aggregate reductions:	0.25
<b>CONSUMPTION ELIGIBLE FOR FUNDING (ODP tonnes)</b>			
Already approved:	0.09	Remaining:	0.16

<b>(V) BUSINESS PLAN</b>		2013	2014	2015	2016	2017	2018	2019	2020	Total
UNEP	ODS phase-out (ODP tonnes)	0.02	0	0	0.02	0	0.02	0	0.01	0.07
	Funding (US \$)	39,550	0	0	39,550	0	33,900	0	18,080	131,080

<b>(VI) PROJECT DATA</b>			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
Montreal Protocol consumption limits			n/a	n/a	1.10	1.10	0.99	0.99	0.99	0.99	0.99	0.72	n/a
Maximum allowable consumption (ODP tonnes)			n/a	n/a	0.25	0.25	0.23	0.23	0.23	0.23	0.23	0.16	n/a
Agreed Funding (US\$)	UNEP	Project costs	44,000	0	35,000	0	0	35,000	0	30,000	0	16,000	160,000
		Support costs	5,720	0	4,550	0	0	4,550	0	3,900	0	2,080	20,800
Funds approved by ExCom (US\$)		Project Costs	44,000	0	0	0	0	0	0	0	0	0	44,000
		Support Costs	5,720	0	0	0	0	0	0	0	0	0	5,720
Total funds requested for approval at this meeting (US\$)		Project Costs	0	0	35,000	0	0	0	0	0	0	0	35,000
		Support Costs	0	0	4,550	0	0	0	0	0	0	0	4,550

<b>Secretariat's recommendation:</b>	Blanket approval
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## **PROJECT DESCRIPTION**

1. On behalf of the Government of Cape Verde UNEP, as the designated implementing agency, has submitted to the 71<sup>st</sup> meeting a request for funding for the second tranche of stage I of the HCFC phase-out management plan (HPMP)<sup>1</sup> at the amount of US \$35,000, plus agency support costs of US \$4,550. The submission included a progress report on the implementation of the first tranche of the HPMP, and the tranche implementation plan for 2013 to 2016.

### Progress report on the implementation of the first tranche of the HPMP

2. In 2011 the Government of Cape Verde issued a decree on the import and export of ODS including HCFCs, providing a compulsory annual quota on import of HCFCs (issued by the Ministry of the Environment). In implementing this decree, a licensing and quota system for HCFCs and HCFC-based equipment has been introduced into the existing regulations. The quota for 2013 was set at 4 metric tonnes (mt). Cape Verde has banned second hand ODS-based equipment. There are currently no bans in place on the import of HCFC-based new equipment.

3. The following activities have been implemented in the refrigeration and air-conditioning servicing sector: Five trainers, six police officers and 12 customs officers have been trained in the identification and control of HCFCs and HCFC-based equipment, and one ODS identifier was purchased and distributed to a main port of entry. A total of 37 technicians have been trained in good service practices including the safe handling of hydrocarbon refrigerants. Furthermore, agreement has been reached with Variante vocational training centre (VTC), Sao Domingus, to include refrigerant recovery and recycling and safe handling hydrocarbon refrigerants into its curricula for on-going training of technicians. Training institutions and a few large repair workshops have been identified to serve as reference centres and 20 tool kits will be purchased in October 2013 to strengthen these referral centres. The National Ozone Unit (NOU) and National Ozone Committee are monitoring the implementation of activities.

4. As of September 2013, the total amount of US \$44,000 approved for the first tranche has been disbursed.

### Annual plans for the second tranche of the HPMP

5. The main activities to be implemented during the second tranche of stage I of the HPMP includes: further training of 80 customs and police officers (US \$15,000); additional training of 100 refrigeration service technicians on recovery and recycling of HCFCs and safe handling of flammable refrigerants (US \$15,000); and monitoring and evaluation of activities in the HPMP (US \$5,000).

## **SECRETARIAT'S COMMENTS AND RECOMMENDATION**

### **COMMENTS**

#### Operational license system

6. In line with decision 63/17, confirmation has been received from the Government that an enforceable national system of licensing and quotas for HCFC imports and exports is in place and that the system is capable of ensuring compliance with the Montreal Protocol HCFC phase-out schedule for the duration of the Agreement.

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<sup>1</sup> Approved by the Executive Committee at the 64<sup>th</sup> meeting to achieve 35 per cent reduction by 1 January 2020.

HCFC consumption

7. During the preparation of the HPMP, it was found that the HCFC consumptions reported under Article 7 of the Montreal Protocol was higher than that of 0.2 ODP tonnes gathered during the survey. As a result, the Government of Cape Verde submitted a request to the Ozone Secretariat for a downward revision of its reported consumption. However, for the calculation of its starting point for sustained aggregate reduction in HCFC consumption, the Government agreed to use the consumption of 0.20 ODP tonnes reported under the HPMP for 2009 and the consumption of 0.30 ODP tonnes reported under Article 7 for 2010, resulting in 0.25 ODP tonnes (Table.1). On this basis, the Executive Committee approved the HPMP.

8. The import quota of 0.22 ODP tonnes (4.0 mt) has been issued for 2013.

**Table.1 Consumption of HCFC-22 in Cape Verde (2007-2012 Article 7, 2013 estimated)**

<b>HCFC-22</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013*</b>	<b>Baseline</b>
Metric tonnes	3.8	4.1	32.3	4.7	5.13	4.20	4.00	20.0
ODP tonnes	0.2	0.2	1.8	0.3	0.28	0.23	0.22	1.1

(\*) Estimated amount for total quota in 2013.

Technology issues

9. Upon a request for additional information on hydrocarbon-based refrigerants, UNEP explained that there are no reports available on the current use and supply of hydrocarbon refrigerants and equipment, nor are there any regulations and standards on their use in the country. However training courses provided for technicians included safe use of hydrocarbon refrigerants in preparation for servicing such equipment once they enter the market. UNEP indicated that the alternative refrigerants to be used in the second tranche will depend on the availability of refrigerants with low global warming potentials and high energy efficiency on the market. It is expected that the situation will become clearer at the end of second tranche.

10. In responding to a query from the Secretariat regarding the roles of the refrigeration associations, UNEP explained that, as a member of the National Ozone Committee, the Association of Refrigeration Technicians and Engineers is actively involved in the implementation of the HPMP. It contributes to the HPMP implementation through participating in policy and strategy development; awareness raising among its members; assisting the NOU in data collection and coordination of a training programme. The said Association is also involved in project monitoring.

Conclusion

11. The Secretariat noted that the consumption of HCFC-22 has been fairly stable in the country since 2009 and that an import licensing and quota system is operational and will enable consumption reductions in line with the Montreal Protocol's phase-out schedule. The activities in the servicing sector have been developed with the participation of key stakeholders. As reported by UNEP, the Government is considering integrating HCFC issues into the training curricula for national customs officers; strengthening the collaboration with the refrigeration vocational training school and large servicing workshops to enable continuous training of technicians and control of ODS which will ensure the long-term sustainability of the activities proposed in stage I of the HPMP.

**RECOMMENDATION**

12. The Fund Secretariat recommends that the Executive Committee takes note of the progress report on the implementation of the first tranche of stage I of the HCFC phase-out management plan of (HPMP) in Cape Verde, and further recommends blanket approval of the second tranche of stage I of the HPMP

for Cape Verde, and the corresponding 2013 – 2016 tranche implementation plan, with associated support costs at the funding level shown in the table below:

	<b>Project Title</b>	<b>Project Funding (US \$)</b>	<b>Support Cost (US \$)</b>	<b>Implementing Agency</b>
(a)	HCFC phase-out management plan (stage I, second tranche)	35,000	4,550	UNEP

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