



**United Nations  
Environment  
Programme**

Distr.  
GENERAL

UNEP/OzL.Pro/ExCom/71/33  
4 November 2013

ORIGINAL: ENGLISH



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

**PROJECT PROPOSAL: GAMBIA (THE)**

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)

UNEP/UNIDO

## PROJECT EVALUATION SHEET – MULTI-YEAR PROJECTS

### Gambia (The)

<b>(I) PROJECT TITLE</b>	<b>AGENCY</b>
HCFC phase out plan (Stage I)	UNEP (lead), UNIDO

<b>(II) LATEST ARTICLE 7 DATA (Annex C Group I)</b>	Year: 2012	1.91 (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	Serviceing				
HCFC-123									
HCFC-124									
HCFC-141b					0.99				
HCFC-141b in Imported Pre-blended Polyol									
HCFC-142b									
HCFC-22					0.92				1.91

<b>(IV) CONSUMPTION DATA (ODP tonnes)</b>			
2009 - 2010 baseline:	1.5	Starting point for sustained aggregate reductions:	1.5
<b>CONSUMPTION ELIGIBLE FOR FUNDING (ODP tonnes)</b>			
Already approved:	0.52	Remaining:	0.98

<b>(V) BUSINESS PLAN</b>		2013	2014	2015	2016	2017	2018	2019	2020	Total
UNEP	ODS phase-out (ODP tonnes)	0.0			0.0		0.0		0.0	0.1
	Funding (US \$)	25,990			22,600		23,730		23,730	96,050
UNIDO	ODS phase-out (ODP tonnes)						0.0			0.0
	Funding (US \$)						29,224			29,224

<b>(VI) PROJECT DATA</b>			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
Montreal Protocol consumption limits			n/a	n/a	1.5	1.5	1.35	1.35	1.35	1.35	1.35	0.98	n/a
Maximum allowable consumption (ODP tonnes)			n/a	n/a	1.5	1.5	1.35	1.35	1.35	1.35	1.35	0.98	n/a
Agreed Funding (US\$)	UNEP	Project costs	25,000	0	23,000	0	0	20,000	0	21,000	0	21,000	110,000
		Support costs	3,250	0	2,990	0	0	2,600	0	2,730	0	2,730	14,300
	UNIDO	Project costs	50,000	0	0	0	0	50,000	0	0	0	0	100,000
		Support costs	4,500	0	0	0	0	4,500	0	0	0	0	9,000
Funds approved by ExCom (US\$)	Project Costs	75,000	0	0	0	0	0	0	0	0	0	0	75,000
	Support Costs	7,750	0	0	0	0	0	0	0	0	0	0	7,750
Total funds requested for approval at this meeting (US\$)	Project Costs	0	0	23,000	0	0	0	0	0	0	0	0	23,000
	Support Costs	0	0	2,990	0	0	0	0	0	0	0	0	2,990

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

1. On behalf of the Government of the Gambia UNEP, as the lead 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 \$23,000, plus agency support costs of US \$2,990 for UNEP only. The submission includes a progress report on the implementation of the first tranche of the HPMP and the tranche implementation plan for 2014 to 2016.

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

2. The following activities had been implemented during the first tranche of the HPMP for the refrigeration servicing sector: a training workshop for 20 enforcement officers was provided; four refrigerant identifiers were procured and distributed to key entry points of the country; 80 refrigeration technicians were trained in the safe handling of hydrocarbon (HC)-refrigerants and good service practices; recovery and recycling equipment for the retrofitting centres were purchased, and awareness workshops were conducted. The Government has also enforced its HCFC import quota system effective in 2013, and strengthened the refrigeration association who has been instrumental in completing the training programmes for service technicians, as well as their certification. A comprehensive programme for reduction of HCFCs through servicing and how this contributes to reducing carbon emissions was also developed.

3. The project monitoring staff visited all stakeholders involved in the implantation of HPMP activities to collect and analyse data that would assist in identifying the changes necessary to be introduced during the second tranche implementation.

4. As of September 2013, of the US \$75,000 approved for the first tranche, US \$62,950 had been disbursed. The balance of US \$12,050 will be disbursed in early 2014.

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

5. The main activities to be implemented during the second tranche of the HPMP include:
- (a) Further training of 60 customs officers and other law enforcement agents; implementation of the new curricula for customs school and follow-up on the enforcement of HCFC licensing and quota systems (US \$9,000);
  - (b) Strengthening the refrigeration and air-conditioning association, technical institutions and additional training of 60 refrigeration technicians good practices (US \$8,000);
  - (c) Strengthening the regional retrofitting centres by providing additional equipment and training and implementation of a comprehensive programme for reduction of HCFCs and carbon emissions in the refrigeration and air conditioning sector (on-going); and
  - (d) Monitoring and evaluation of the implementation of HPMP (US \$6,000).

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<sup>1</sup> The HPMP for the Gambia was approved by the Executive Committee at its 65<sup>th</sup> meeting to reduce HCFC consumption by 35 per cent of the baseline by 1 January 2020.

## 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. The licensing system includes control of imports of HCFC-22, which are the only HCFCs consumed in the country, equivalent to the maximum consumption levels allowed in order to meet compliance with the HCFC phase-out. The import quota for 2013 was set at 1.5 ODP tonnes.

#### HCFC consumption

7. At the 65<sup>th</sup> meeting, the Government of the Gambia established its starting point for aggregate reduction in HCFC consumption based on the estimated baseline of 0.92 ODP tonnes. However, the HCFC baseline for compliance has been established at 1.5 ODP tonnes, based on the actual consumption reported under Article 7 of the Montreal Protocol as shown in Table 1, which is 0.58 ODP tonnes lower than the established baseline.

Table 1. HCFC consumption in Gambia (2006-2012 Article 7)

Year	Article 7 data	
	mt	ODP tonnes
2006	1.7	0.1
2007	1.7	0.1
2008	1.5	0.1
2009	16.6	1.5
2010	15.0	1.5
2011	17.8	0.98
2012	25.7	1.91

8. Between 2011 and 2012, HCFC consumption increased from 17.8 mt (0.98 ODP tonnes) to 25.7 mt (1.91 ODP tonnes). In 2012, 9 mt (0.99 ODP tonnes) of HCFC-141b were imported for the use in flushing/cleaning in the servicing sector, but this was expected to stop in 2013. As explained by UNEP, the increase in consumption of HCFCs was due to the recent and rapid infrastructure development in the country, where most buildings were equipped with HCFC-based refrigeration and air-conditioning systems that require servicing. This was further exacerbated because there were no controls for HCFC imports, as the licensing and quota systems came into effect only early January 2013.

#### Technology issues

9. The Secretariat requested additional information on the current use of HC-based refrigerants in the country, taking into account the current approach where safe handling of flammable refrigerants is included in the training courses for service technicians. It sought information on the extent to which HC is being used to retrofit HCFC-22 equipment, the scope of the use of HC, availability of the refrigerant, source, and on how safety issues were considered in the process. The Secretariat also suggested that UNEP advise relevant Government authorities and key stakeholders to give due consideration to addressing barriers for the introduction of non-HCFC, climate friendly alternative technologies and

refrigerants (including other aspects related to the equipment, such as energy efficiency), during implementation of the HPMP.

10. In its response, UNEP mentioned that refrigerators using R-600a are available in the country coming from the European Union (EU) and Malaysia. While the training for service technicians covers aspects related to the use of R-600a in refrigerators and R-290 in air-conditioning equipment, HC-based (R-290) air-conditioning equipment are not yet available in the country. It will be available when the Government limits the imports of HCFC containing equipment. The Government is partnering very closely with the refrigeration association to introduce a certification programme for technicians and workshops in the proper and safe use of HCs. These formal procedures are still in process. The Government will also put in place mechanisms that will address barriers to the introduction of alternative technologies, introduce incentives to encourage the use of energy saving technologies, and initiate the development of standards on the use of flammable refrigerants and ensure that HC-based equipment is imported into the country. It will also ensure the sustainability of the training programme by working closely with vocational schools and the refrigeration association.

#### Revision to the Agreement of the HPMP

11. The HPMP for the Gambia was approved prior to the establishment of the HCFC baseline for compliance. Accordingly, in approving the HPMP the Executive Committee requested the Secretariat to, *inter alia*, update Appendix 2-A (“The targets, and funding”) to the Agreement with the figures for the maximum allowable consumption, and to notify the Committee of the resulting levels accordingly (decision 62/47). Based on the data reported by the Government of the Gambia under Article 7 and its revised phase-out schedule, the relevant paragraph of the Agreement has been updated, and a new paragraph has been added to indicate that the updated Agreement supersedes that reached at the 65<sup>th</sup> meeting, as shown in Annex I to this document. The change in the baseline does not have any impact on the overall funding for the HPMP. The full revised Agreement will be appended to the final report of the 71<sup>st</sup> meeting.

#### Conclusion

12. The Secretariat noted that an import licensing and quota system is operational and will enable reductions in HCFC consumption in line with the Montreal Protocol’s phase-out schedule. The activities in the servicing sector are progressing, and have been developed with the participation of key stakeholders. The refrigeration association has also been strengthened with the aim of empowering it to undertake training and certification activities under the HPMP, and to sustain future training activities in the country.

#### **RECOMMENDATION**

13. The Fund Secretariat recommends that the Executive Committee:
- (a) Takes notes of the progress report on the implementation of the first tranche of stage I of the HCFC phase-out management plan of (HPMP) in the Gambia;
  - (b) Notes that the Fund Secretariat has updated paragraph 1, Appendices 1-A and 2-A of the Agreement between the Government of the Gambia and the Executive Committee, based on the established HCFC baseline for compliance, and that a new paragraph 16 had been added to indicate that the updated Agreement superseded the Agreement reached at the 65<sup>th</sup> meeting, as contained in Annex I to the present document; and

- (c) Notes that the revised starting point for sustained aggregate reduction in HCFC consumption was 1.5 ODP tonnes, calculated using actual consumption of 1.5 ODP tonnes reported each for 2009 and 2010, under Article 7 of the Montreal Protocol.

14. The Fund Secretariat further recommends blanket approval of the second tranche of stage I of the HPMP for the Gambia, and the corresponding 2014-2016 implementation plan, at the funding level with associated support costs as 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)	23,000	2,990	UNEP

## Annex I

### TEXT TO BE INCLUDED IN THE UPDATED AGREEMENT BETWEEN THE GOVERNMENT OF GAMBIA (THE) AND THE EXECUTIVE COMMITTEE OF THE MULTILATERAL FUND FOR THE REDUCTION IN CONSUMPTION OF HYDROCHLOROFLUOROCARBONS

(Relevant changes are in bold font for ease of reference)

1. This Agreement represents the understanding of the Government of Gambia (the) (the “Country”) and the Executive Committee with respect to the reduction of controlled use of the ozone depleting substances (ODS) set out in Appendix 1-A (“The Substances”) to a sustained level of **0.98** ODP tonnes by 1 January 2020 in compliance with Montreal Protocol schedules.

**16. This updated Agreement supersedes the Agreement reached between the Government of Gambia (the) and the Executive Committee at the 65<sup>th</sup> meeting of the Executive Committee.**

## APPENDICES

### APPENDIX 1-A: THE SUBSTANCES

Substance	Annex	Group	Starting point for aggregate reductions in consumption (ODP tonnes)
HCFC-22	C	I	<b>1.5</b>

### APPENDIX 2-A: THE TARGETS, AND FUNDING

Row	Particulars	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
1.1	Montreal Protocol reduction schedule of Annex C, Group I substances (ODP tonnes)	n/a	n/a	<b>1.5</b>	<b>1.5</b>	<b>1.35</b>	<b>1.35</b>	<b>1.35</b>	<b>1.35</b>	<b>1.35</b>	<b>0.98</b>	n/a
1.2	Maximum allowable total consumption of Annex C, Group I substances (ODP tonnes)	n/a	n/a	<b>1.5</b>	<b>1.5</b>	<b>1.35</b>	<b>1.35</b>	<b>1.35</b>	<b>1.35</b>	<b>1.35</b>	<b>0.98</b>	n/a
2.1	Lead IA (UNEP) agreed funding (US \$)	25,000	0	23,000	0	0	20,000	0	21,000	0	21,000	110,000
2.2	Support costs for Lead IA (US \$)	3,250	0	2,990	0	0	2,600	0	2,730	0	2,730	14,300
2.3	Cooperating IA (UNIDO) agreed funding (US \$)	50,000	0	0	0	0	50,000	0	0	0	0	100,000
2.4	Support costs for Cooperating IA (US \$)	4,500	0	0	0	0	4,500	0	0	0	0	9,000
3.1	Total agreed funding (US \$)	75,000	0	23,000	0	0	70,000	0	21,000	0	21,000	210,000
3.2	Total support costs (US \$)	7,750	0	2,990	0	0	7,100	0	2,730	0	2,730	23,300
3.3	Total agreed costs (US \$)	82,750	0	25,990	0	0	77,100	0	23,730	0	23,730	233,300

## Annex I

4.1.1	Total phase-out of HCFC-22 and under this Agreement (ODP tonnes)	<b>0.52</b>
4.1.2	Phase-out of HCFC-22 in previously approved projects (ODP tonnes)	0
4.1.3	Remaining eligible consumption for HCFC-22 (ODP tonnes)	<b>0.98</b>

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