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EXECUTIVE COMMITTEE OF
THE MULTILATERAL FUND FOR THE
IMPLEMENTATION OF THE MONTREAL PROTOCOL
Eightieth Meeting
Montreal, 13-17 November 2017

PROJECT PROPOSAL: BARBADOS

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

Phase-out

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

PROJECT EVALUATION SHEET – MULTI-YEAR PROJECTS

Barbados

(I) PROJECT TITLE	AGENCY	MEETING APPROVED	CONTROL MEASURE
HCFC phase out plan (Stage I)	UNDP, UNEP (lead)	69th	35% by 2020

(II) LATEST ARTICLE 7 DATA (Annex C Group I)	Year: 2016	2.25 (ODP tonnes)

(III) LATEST COUNTRY PROGRAMME SECTORAL DATA (ODP tonnes)								Year: 2016	
Chemical	Aerosol	Foam	Fire fighting	Refrigeration		Solvent	Process agent	Lab use	Total sector consumption
				Manufacturing	Servicing				
HCFC-142b					0.0				0.0
HCFC-22					2.25				2.25

(IV) CONSUMPTION DATA (ODP tonnes)			
2009 - 2010 baseline:	3.69	Starting point for sustained aggregate reductions:	3.69
CONSUMPTION ELIGIBLE FOR FUNDING (ODP tonnes)			
Already approved:	1.29	Remaining:	2.40

(V) BUSINESS PLAN		2017	2018	2019	2020	Total
UNEP	ODS phase-out (ODP tonnes)	0.2	0.2		0.1	0.5
	Funding (US \$)	54,240	47,460		31,640	133,340
UNDP	ODS phase-out (ODP tonnes)	0.2	0.0	0.0	0.0	0.2
	Funding (US \$)	41,420	0	0	0	41,420

(VI) PROJECT DATA			2013	2014	2015	2016	2017*	2018	2019	2020	Total
Montreal Protocol consumption limits			3.69	3.69	3.32	3.32	3.32	3.32	3.32	2.40	n/a
Maximum allowable consumption (ODP tonnes)			3.69	3.69	3.32	3.32	3.32	3.32	3.32	2.40	n/a
Agreed funding (US\$)	UNDP	Project costs	50,000	0	0	38,000	0	0	0	0	88,000
		Support costs	4,500	0	0	3,420	0	0	0	0	7,920
	UNEP	Project costs	74,000	0	0	48,000	0	42,000	0	28,000	192,000
		Support costs	9,620	0	0	6,240	0	5,460	0	3,640	24,960
Funds approved by ExCom (US\$)	Project costs		124,000	0	0	0	86,000	0	0	0	210,000
	Support costs		14,120	0	0	0	9,660	0	0	0	23,780
Total funds requested for approval at this meeting (US\$)	Project costs						86,000				86,000
	Support costs						9,660				9,660

*The second tranche should have been submitted in 2016.

Secretariat's recommendation:	For blanket approval
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PROJECT DESCRIPTION

1. On behalf of the Government of Barbados, UNEP as the lead implementing agency, has submitted to the 80th meeting a request for funding for the second tranche of stage I of the HCFC phase-out management plan (HPMP), at a total cost of US \$95,660, consisting of US \$48,000, plus agency support costs of US \$6,240 for UNEP, and US \$38,000, plus agency support costs of US \$3,420 for UNDP.¹ The submission includes a progress report on the implementation of the first tranche, the verification report on HCFC consumption, and the tranche implementation plan for 2017 to 2018.

Report on HCFC consumption

HCFC consumption

2. The Government of Barbados reported a consumption of 2.25 ODP tonnes of HCFC in 2016, which was 39 per cent below the HCFC baseline for compliance and 32 per cent below the maximum allowable consumption in the Agreement with the Executive Committee for the year. The 2012-2016 HCFC consumption is shown in Table 1.

Table 1. HCFC consumption in Barbados (2012-2016 Article 7 data*)

HCFC	2012	2013	2014	2015	2016	Baseline
Metric tonnes						
HCFC-22	44.84	41.26	22.29	18.44	40.66	64.68
HCFC-142b	3.02	0.39	0.10	0.71	0.17	2.06
HCFC-124	0.0	0.04	0.00	0.00	0.00	0.00
Total (mt)	47.86	41.69	22.39	19.15	40.83	66.74
ODP tonnes						
HCFC-22	2.47	2.27	1.23	1.01	2.24	3.56
HCFC-142b	0.20	0.03	0.01	0.05	0.01	0.13
HCFC-124	0.00	0.00	0.00	0.00	0.00	0.00
Total (ODP tonnes)	2.66	2.30	1.23	1.06	2.25	3.69

*The Government of Barbados has sent a request to the Ozone Secretariat to revise the Article 7 data for 2013 to 2015 according to the verification report.

3. HCFC consumption has shown an overall decreasing trend since 2013 attributed to the implementation of the HPMP, particularly the enforcement of the licensing and quota system. In 2016, HCFC consumption increased significantly as compared to 2015 due to a growth in the construction sector. A slight fluctuation of the consumption is due to the market fluctuation inherited from the supply and demand relationship affected by import quota control, price and supply of HCFCs in the international market.

Country programme (CP) implementation report

4. The Government of Barbados reported HCFC sector consumption data under the 2016 CP implementation report that is consistent with the data reported under Article 7.

Verification report

5. The verified consumption is 0.59, 0.41 and 0.42 ODP tonnes higher than the consumption reported under Article 7 and the CP implementation report for 2013, 2014 and 2015, respectively as shown in Table 2. This was attributed to the inadvertent omission of some import records by the Department of Commerce and Consumer Affairs. The Government of Barbados has formally requested the Ozone

¹ As per the letter of 19 September 2017 from the Ministry of Environment and Drainage of Barbados to the Secretariat.

Secretariat to revise the Article 7 data for 2013, 2014 and 2015. The verified consumption for 2016 has been reported under Article 7 and CP data.

Table 2. Verified HCFC consumption in Barbados (2012-2016)

HCFC	2012	2013	2014	2015	2016	Baseline
Metric tonnes						
HCFC-22	44.84	52.11	29.60	26.09	40.66	64.68
HCFC-124	0.00	0.03	0.00	0.00	0.00	0.00
HCFC-142b	3.02	0.40	0.19	0.76	0.17	2.06
Total (mt)	47.86	52.54	29.79	26.85	40.83	66.73
ODP tonnes						
HCFC-22	2.47	2.87	1.63	1.43	2.24	3.56
HCFC-124	0.00	0.00	0.00	0.00	0.00	0.00
HCFC-142b	0.20	0.03	0.01	0.05	0.01	0.13
Total (ODP tonnes)	2.66	2.89	1.64	1.48	2.25	3.69

6. The verification report recommended that additional capacity building be provided to Customs officers to prevent future data discrepancies. The verification also confirmed that the Government is implementing and enforcing a licensing and quota system for HCFC imports and exports and it has met its commitment to comply with the Montreal Protocol phase-out targets.

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

Legal framework

7. The Government of Barbados passed Customs Order 2009 and Customs Order (amendment) 2010 to establish the licensing and quota system for the import/export of all ODS including HCFCs. The development of labelling and safety standards for the refrigeration and air-conditioning (RAC) sector is underway. Policies are being developed to ban the import of HCFC-consuming equipment, to implement technician certification and to promote low-GWP technologies through tax incentives and good RAC design in green buildings. These policy are expected to be included in a new Act of Parliament.

Refrigeration servicing sector

8. The following activities have been conducted:

- (a) A memorandum was signed between the Ministry of Commerce and the Samuel Jacksman Prescod Polytechnic (SJPP) regarding the training of technicians;
- (b) Tools and equipment for technician's training were purchased and installed in SJPP to upgrade its facility as a national center for the implementation of the National Vocational Qualification (NVQ) and Caribbean Vocational Qualification (CVQ) programmes;
- (c) Training was conducted for 12 trainers in good refrigeration practices, recovery, recycling and reuse of refrigerants;
- (d) One technical seminar was carried out for 45 participants; a guide for good servicing practices has been developed and was used in the technical seminar; the curriculum of tertiary training institutions for RAC technicians was reviewed; and
- (e) Public education and awareness-raising activities were conducted to inform stakeholders about HCFC phase-out activities through the media, workshops and meetings.

Project implementation and monitoring unit (PMU)

9. The national ozone unit (NOU), established within the Ministry of Environment and Drainage, closely coordinated and monitored implementation progress of activities in the HPMP.

Level of fund disbursement

10. As of September 2017, of the US \$124,000 approved so far (US \$74,000 for UNEP and US \$50,000 for UNDP), US \$110,000 (88.7 per cent) had been disbursed (US \$60,000 for UNEP and US \$50,000 for UNDP). The balance of US \$14,000 will be disbursed in the first half of 2018.

Implementation plan for the second tranche of the HPMP

11. The following activities will be implemented no later than November 2018:

- (a) Continue development of policy initiatives (UNEP) (US \$10,000);
- (b) Conduct four training workshops for 20 customs officers on RAC policies, obligations under the Kigali Amendment and on the role of Customs; (UNEP) (US \$1,000 and also from the balance of the first tranche);
- (c) Conduct three workshops to train 30 technicians in good practices and servicing with alternative technologies, mainly HFCs (R-410A, R-407C, HFC-134a, R-404A and R-507) and safe use of flammable refrigerant (R-600a), and implement a certification programme for technicians (UNEP) (US \$17,000);
- (d) Procure equipment to support the training of technicians in refrigerant recovery, recycling and reuse, and servicing with alternative refrigerants (a mobile refrigerant system trainer, vacuum pumps, leak detectors, filters, recovery machines and tools) (UNDP) (US \$38,000);
- (e) Conduct public education and awareness activities and one technical seminar (UNEP) (US \$15,000); and
- (f) Project coordination and management (UNEP) (US \$5,000).

SECRETARIAT'S COMMENTS AND RECOMMENDATION

COMMENTS

Report on HCFC consumption and licensing and quota system

12. With regard to the data discrepancies in HCFC consumption, UNEP informed that the Government of Barbados will give due consideration to the recommendations in the verification report and further strengthen the licensing and quota system through collaboration with the Customs Department and the Department of Commerce and Consumer Affairs, to improve data accuracy.

Progress report on the implementation of the first tranche of the HPMP*Legal framework*

13. The Government of Barbados has already issued national HCFC import quotas for 2017 in accordance with the Montreal Protocol control targets.

Refrigeration servicing sector

14. The Secretariat noted that the second tranche was planned in 2016 but was delayed by slow progress in the procurement of equipment, which in turn delayed the training of technicians and customs officers. So far in 2017, the equipment has been delivered and the training of trainers for technician training has been conducted; further training of technicians and customs officers will be conducted in the second tranche. Other activities that had been planned for the servicing sector, including implementation of the licensing and quota system, development of labelling standards, tax incentives to encourage the import of non-ODS, low-GWP and energy-efficient alternative technologies, and the certification of technicians, are progressing as planned. The support to the vocational training institutes and implementation of technician's certification programme will ensure long-term sustainability of technician's training.

Conclusion

15. The implementation of the HPMP is progressing. The country's import licensing and quota system is operational and will enable compliance with the Montreal Protocol's control targets and the verified consumption for 2013, 2014, 2015 and 2016 is below that specified in the Agreement with the Executive Committee. The second tranche has been delayed, but activities implemented so far, particularly the equipment and tools provided and the training of trainers, as well as the activities planned under the second tranche will further strengthen the servicing sector, ensure the long-term sustainability of the phase-out and continue to enable the country to meet its compliance obligations under the Protocol. The disbursement of the funding for the first tranche has reached 89 per cent. In view of the progress made in the first tranche, the Secretariat recommends approval of the funding for the second tranche.

RECOMMENDATION

16. The Fund Secretariat recommends that the Executive Committee take note of the progress report on the implementation of the first tranche of stage I of the HCFC phase-out management plan (HPMP) for Barbados; and further recommends blanket approval of the second tranche of stage I of the HPMP for Barbados, and the corresponding 2017-2018 tranche implementation plan, at the funding levels shown in the table below:

	Project title	Project funding (US \$)	Support cost (US \$)	Implementing agency
(a)	HCFC phase-out management plan (stage I, second tranche)	48,000	6,240	UNEP
(b)	HCFC phase-out management plan (stage I, second tranche)	38,000	3,420	UNDP