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EXECUTIVE COMMITTEE OF
THE MULTILATERAL FUND FOR THE
IMPLEMENTATION OF THE MONTREAL PROTOCOL
Eighty-first Meeting
Montreal, 18-22 June 2018

OVERVIEW OF ISSUES IDENTIFIED DURING PROJECT REVIEW

1. This document consists of the following sections:
 - (a) An overview of projects and activities submitted by bilateral and implementing agencies;
 - (b) Issues identified during the project review process:
 - (i) Outstanding project completion reports (PCRs) for stage I of an HPMP with stage II ongoing; and
 - (ii) Deadline for submission of projects.
 - (c) HFC-related projects submitted to the 81st meeting:
 - (i) Funding requests for enabling activities; and
 - (ii) Funding requests for fully developed stand-alone HFC investment projects;
 - (d) Project and activities submitted for blanket approval; and
 - (e) Investment projects for individual consideration.

Projects and activities submitted by bilateral and implementing agencies

2. Bilateral and implementing agencies submitted 110 funding requests for tranches of approved multi-year agreements, projects and activities amounting to US \$90,076,367 (US \$316,888,150 including amount requested in principle), including agency support costs, where applicable. The funding requests covered:

- (a) Stage II of the HPMP for three non-low-volume-consuming countries;

- (b) Stage II of the HCFC production phase-out management plan (HPPMP) for China (to be considered by the Sub-group on the Production Sector);
- (c) Tranches of approved HPMPs for 25 countries;
- (d) One investment project to phase out HCFC-141b contained in imported pre-blended polyols in the polyurethane (PU) foam sector in Ecuador;
- (e) One investment project to phase out HCFC-142b/HCFC-22 in the extruded polystyrene (XPS) foam sector in Pakistan;
- (f) Renewals of institutional strengthening (IS) projects in 25 countries; and
- (g) Preparation of stage II of HPMPs for 13 countries and for the Pacific Island countries through regional approach.

3. Following the project review process, 73 projects and activities totalling US \$12,365,576, including agency support costs, are recommended for blanket approval, and 27 projects and activities totalling US \$59,842,976, of which US \$19,984,461 is for the second tranche of stage II of the HPMP for China and US \$28,587,288 for the first tranche of China's stage II HPPMP, are being forwarded for individual consideration. Together, the projects for blanket approval and those for individual consideration amount to US \$72,208,552.

4. In addition, 83 HFC-related projects and activities totalling US \$21,912,004, including agency support costs, are being forwarded to the 81st meeting following the project review process. These activities include funding for enabling activities in 60 countries (amounting to US \$8,329,950 recommended for blanket approval), funding for preparation for an HFC-related investment project in one country, and fully-developed stand-alone HFC investment projects in 11 countries. HFC-related projects and activities are discussed separately, as the Executive Committee would need to decide the funding source either from the regular contributions or from the additional voluntary contributions provided by a group of non-Article 5 Parties.

HPMPs submitted and subsequently withdrawn (Cameroon, China, Equatorial Guinea, Niger, Pakistan)

5. During the project review process, the submission of stage II of the HPMP for Cameroon was withdrawn as aspects related to HCFC consumption and technical details related to the project for promoting low-global warming potential (GWP) alternatives were not fully addressed. UNIDO agreed to re-submit the project proposal to the 82nd meeting, once all identified issues have been successfully addressed.

6. Requests of tranches for HPMPs for three countries submitted to the 81st meeting were also withdrawn as detailed in document on Tranche submission delays.¹ These include:

- (a) The request for the second tranche of the PU foam sector plan of stage II of the HPMP for China submitted by the World Bank, which the Secretariat could not review and recommend as the implementation agreement between the World Bank and the Government had not been signed and consequently no disbursement had taken place yet;
- (b) The request for the third and fourth tranches of stage I of the HPMP for Equatorial Guinea was withdrawn by UNEP and UNIDO due to the lack of an operational licensing and quota system; and

¹ UNEP/OzL.Pro/ExCom/81/13

- (c) The request for the second tranche of stage I of the HPMP for Niger was withdrawn by UNEP as no confirmation was received from the Government that the country has an operational licensing and quota system.

7. The request for an investment project to phase out HCFC-142b and HCFC-22 in the manufacturing of XPS foam at one enterprise in Pakistan was withdrawn by UNIDO for submission to a future meeting due to lack of information in the proposal that would allow the Secretariat to review the project.

IS renewal requests

8. The Secretariat reviewed the terminal reports and requests for extension of IS funding for 25 countries against relevant decisions including decision 74/51(c) on the funding level for IS projects, and decision 74/51(e) on the requirement to include specific performance indicators for planned activities.² All requests were cross-checked against: previous IS reports; progress reports on the implementation of country programmes (CP); data reported under Article 7 of the Montreal Protocol; the latest reports on implementation of HPMPs; bilateral and implementing agencies' progress reports submitted to the 79th meeting; and relevant decisions on compliance adopted by the Parties to the Montreal Protocol. All countries, with one exception, had reported 2017 country programme implementation data as at issuance of the present document.³ Seventeen countries reported on specific performance indicators as part of the progress report for the previous IS phase.⁴ In this regard, all 17 countries achieved all, or the majority of the targets set. The Secretariat recommended all IS projects submitted to the 81st meeting for blanket approval.

9. The Secretariat also reviewed the strategy and action plan to assist Dominica to return to its pre-hurricane implementation levels, that was submitted by UNEP, as lead implementing agency for the country.

Funding withheld pending submission of verification reports or meeting specific conditions

10. At the 77th meeting, the Executive Committee requested the Treasurer to withhold funding for the fourth tranche of stage I of the HPMP for Saudi Arabia,⁵ pending the receipt of a comprehensive report demonstrating that the conditions specified in Appendix 8-A of the Agreement had been met and on the understanding that, if the report were not provided by the first regular meeting of 2018, the amount of US \$966,254 would be returned to the Multilateral Fund, and that a request for those funds could be made by the Government of Saudi Arabia only once the conditions in Appendix 8-A had been fully met. As of the time of issuance of the present document, the Secretariat had not received the report confirming that the conditions have been met. In line with decision 77/54(f), the Secretariat has requested the Treasurer to return the withheld amount of US \$966,254 to the Multilateral Fund, noting that a request for those funds could be made by the Government of Saudi Arabia only once the conditions in Appendix 8-A had been fully met.

11. The Executive Committee may wish to request UNEP and UNIDO to continue assisting the Government of Saudi Arabia to fully meet the conditions specified in Appendix 8-A of its Agreement with

² Eight countries requested a 28 per cent increase in accordance with decision 74/51(c) and included performance indicators in their corresponding action plan for the requested phase: Djibouti, Dominica, Equatorial Guinea, Georgia, Guatemala, Mali, Mauritania, and Saint Kitts and Nevis.

³ UNEP indicated that Djibouti planned to report 2017 country programme implementation data in advance of the 81st meeting.

⁴ Bahrain, Belize, Burundi, Cabo Verde, Congo, Egypt, Gabon, Grenada, Kuwait, Kyrgyzstan, Lao People's Democratic Republic, Libya, Maldives, Nepal, Nicaragua, Seychelles, and Sudan.

⁵ Decision 77/54(f).

the Executive Committee, so that the country could make a request for US \$966,254 from the fourth tranche of stage I of the HPMP, which had been returned to the Multilateral Fund in accordance to decision 77/54(f).

12. At the 80th meeting, the Executive Committee approved the fourth tranche of stage I of the HPMP for Zimbabwe on the understanding that *inter alia* the approved funds would not be transferred to the Government of Germany until the Secretariat had reviewed the revised verification report covering the period 2009 to 2016 and addressing the issues that were identified in the verification report submitted to the 80th meeting. The Government of Germany submitted the verification report on 28 February 2018, due to internal delays in the country. However, the report submitted had not addressed the issues identified and a revision was needed. Currently, these issues are being addressed.

Summary of prices of the controlled substances and alternatives

13. In line with decision 79/4(c),⁶ the Secretariat is presenting a summary of the prices of the controlled substances and the alternatives to be phased in for the two new stage II of HPMPs and one HCFC investment project submitted to the 81st meeting:

- (a) *Bangladesh*: Incremental operating costs (IOC) were calculated for the refrigeration and air-conditioning manufacturing enterprises using a price of HCFC-22 of US \$7.20/kg obtained by the enterprises, while the average price reported in CP data report is US \$7.80/kg. The reason for the difference is that the price used by UNDP in calculating the IOC is the average wholesale price, while the CP data reflects the average market retail price. The price of the alternatives used, R-290 and HFC-32, are US \$11.36/kg and US \$7.10/kg, respectively; this price data is not reported in the CP data report for the year 2017;
- (b) *Ecuador*: The project to phase out the consumption of HCFC-141b contained in imported pre-blended polyols in the PU foam sector, included a request for IOCs for one enterprise being converted to hydrofluoro-olefins (HFOs). While the project had been initially calculated using a reference price of US \$2.40/kg for HCFC-141b; upon confirmation of the price with the end-users it was later changed to US \$3.10/kg, which is the same price reported in the CP data report in 2015 (no price was reported for 2016 nor 2017); and
- (c) *Nigeria*: Stage II of the HPMP for Nigeria included a price of US \$5.31/kg for HCFC-141b. However, a price of US \$2.80/kg was used in the calculation of the IOCs of the PU foam project included in stage II. HCFC prices have not been reported on the CP data. UNDP indicated that the difference could be that the lower price was for importers and distributors, while the higher cost in the HPMP was for final users. Subsequently, a price of HCFC-141b of US \$4.40/kg was used for the project involving the systems house, and a price of US \$5.31/kg for the four commercial refrigeration enterprises.

14. It was also noted that the final report on the demonstration project to validate the use of HFOs for discontinuous panels in Article 5 countries through the development of cost-effective formulations in Colombia⁷ indicated a price of HCFC-141b of US \$2.97/kg. In the CP report, the country reported a price of HCFC-141b of US \$3.42/kg in 2016 and US \$15.39/kg in 2017.

⁶ The Secretariat was requested to include in this document a summary of the prices of the controlled substances and the alternatives to be phased in, as communicated by enterprises requesting funding in any new project proposal, including clarification of any differences between those and the prices reported in the CP data report.

⁷ UNEP/OzL.Pro/ExCom/81/10.

15. Data on costs of HCFC-141b from CP reports is limited, with only 33 Article 5 Parties reporting such costs in 2016 and 18 in 2017. The average reported price of HCFC-141b was US \$10.00/kg in 2016 and US \$9.17/kg in 2017.

Issues identified during project review

Outstanding project completion reports (PCRs) for stage I of an HPMP with stage II ongoing

16. In line with decision 72/25(a), the PCR for the stage I of the HPMP for Colombia was to be submitted to the second meeting of 2016. In the course of its review of the request for the second tranche of the stage II of the HPMP for the country, the Secretariat noted that the PCR for stage I had not been submitted. Similarly, the Executive Committee approved the extension of the duration of stage I of the HPMP of India to 31 December 2017, on the understanding that no further extension of project implementation would be requested and that the project completion report would be submitted to the 81st meeting (decision 80/20(b)). The PCR for the stage I of the HPMP of India was not submitted; the request for the second tranche of the stage II is expected to be submitted to the 82nd meeting. There may be other cases where the PCR for stage I of the HPMP was expected to be submitted but had not, and where second or later tranches of the stage II of the HPMP are considered.

17. The Executive Committee may wish to consider, when approving second or subsequent tranches of stage II of the HPMP for a country with an outstanding PCR for stage I, that disbursement from the Treasurer to the relevant bilateral and implementing agencies would only take place after the outstanding PCR had been submitted and reviewed by the Secretariat.

Deadline for submission of projects

18. At each meeting, the Secretariat reviews project submissions and prepares documents on those submissions and on other matters for the Executive Committee's consideration. The intensity of the required analysis of proposals by the Secretariat is based on the complexity of the projects, as well as the completeness and quality of the submissions, which varies considerably among projects.

19. The Secretariat did its utmost to provide the Executive Committee with all the meeting documents four weeks in advance of the 81st meeting; however, the Secretariat was not able to do so. Some of the issues faced during the project review process included major data inconsistencies in several of the proposals; incomplete information that had to be provided during the project review process; substantive changes related to consumption or costs during the review process; review of HFC investment projects, some of them in new areas that required additional analysis and consultation with experts.

20. The Secretariat considers that absent changes, documents will continue to be provided to the Executive Committee late, as there is not sufficient time to undertake a thorough review of the proposals; reach agreement with relevant bilateral and implementing agencies; and prepare comprehensive project documents for consideration by the Executive Committee.

21. On this basis, and in order to allow the Executive Committee members sufficient time to review the meeting documents, the Executive Committee may wish to consider extending the relevant submissions deadlines for projects as follows:

- (a) That new stages of multi-year agreements should be submitted to the Secretariat in full, at least 16 weeks in advance of the Executive Committee meeting at which they were to be considered;
- (b) That stand-alone HFC investment projects should be submitted in full at least 14 weeks in advance of the Executive Committee meeting at which they were to be considered,

irrespective of their level of funding requested from the Multilateral Fund;

- (c) That projects with a requested level of funding of more than US \$5 million, including agency support costs and irrespective of the level of funding requested of the Multilateral Fund, should be submitted in full, at least 14 weeks in advance of the Executive Committee meeting at which they were to be considered;
- (d) That projects with a requested level of funding of less than US \$5 million, including agency support costs; should be submitted in full, at least 12 weeks in advance of the Executive Committee meeting at which they were to be considered;
- (e) That projects with specific reporting requirements should be submitted in full, at least 14 weeks in advance of the Executive Committee meeting at which they were to be considered; and
- (f) To encourage bilateral and implementing agencies to submit projects in advance of the applicable deadline indicated in sub-paragraphs (a) to (d) above.

HFC-related projects submitted to the 81st meeting

Background

22. The Treasurer has submitted a document on the status of additional contributions pledged by a group of donor countries intended to provide fast-start support for the implementation of the HFC phase-down, and availability of resources.⁸ As at 24 May 2018, the Treasurer has received US \$23,410,162 from sixteen countries and has disbursed US \$12,588,623;⁹ the balance available for programming at the 81st meeting is US \$10,821,539.

23. The Government of Canada (as bilateral cooperation) and the four implementing agencies submitted to the 81st meeting 67 funding requests for enabling activities in 60 Article 5 countries, one project preparation request (described in the bilateral cooperation document and the respective implementing agencies' work programme for 2018), and 13 HFC-related investment projects in 11 Article 5 countries (described under the country project related document). The Secretariat has presented below an overview of these requests.

Funding requests for enabling activities

24. On behalf of 60 Article 5 countries, bilateral and implementing agencies submitted 67 funding requests for enabling activities (i.e., 11 from Latin America and the Caribbean, 13 from Asia and the Pacific, 26 from Africa, one from Europe and Central Asia, and nine from Pacific Island Countries). Out of these requests, six are from Article 5 group 2 countries. The requests by Article 5 countries are summarized in Table 1.

Table 1. Overview of funding requests for enabling activities submitted to 81st meeting

Agency	Document (ExCom)	Total request*	Funding request (US \$)		
			Cost	Support	Total
Canada	81/15	4	250,000	17,500	267,500**
UNDP	81/16	5	364,000	25,480	389,480
UNEP	81/17	49	5,666,000	396,620	6,062,620
UNIDO	81/18	8	1,255,000	87,850	1,342,850
World Bank	81/19	1	250,000	17,500	267,500

⁸ UNEP/OzL.Pro/ExCom/81/5

⁹ All HFC-related activities submitted to the 80th meeting, were funded from the additional voluntary contributions to the Fund.

Agency	Document (ExCom)	Total request*	Funding request (US \$)		
			Cost	Support	Total
Total		67	7,785,000	544,950	8,329,950

* Requests submitted on behalf of 60 Article 5 countries

** Part of bilateral allocation to the Multilateral Fund

Secretariat's review

25. Each funding request for enabling activities contained a set of activities (that were adjusted according to the requirements of each country), institutional arrangements to support the implementation of the enabling activities, implementation plans and budgets. The Secretariat has recommended blanket approval for all enabling activities, and individual consideration for funding for a preparation of an HFC investment project.

26. The Executive Committee may wish to note that if the requests for enabling activities submitted to the 81st meeting are approved, funding of US \$17,178,850 (including agency support costs) would have been approved for 119 Article 5 countries. Only 26 out of 145 Article 5 countries would not have an approved enabling activity (funding for these remaining countries would be no more than US \$4,354,900).

Secretariat's recommendation

27. The Executive Committee may wish to consider the funding source for the enabling activities for HFC phase-down, either from the regular contributions or from the additional voluntary contributions provided by a group of non-Article 5 Parties, except for those to be implemented by the Government of Canada as bilateral agency which will be deducted from its regular bilateral contribution to the Multilateral Fund as indicated by the Government.

Funding requests for stand-alone HFC investment projects

28. On behalf of 11 Article 5 countries, bilateral and implementing agencies submitted their funding requests for 13 fully-developed stand-alone HFC investment projects at a total cost of US \$20,899,759 including support costs, contained in Table 2.

Table 2. Overview of submissions of HFC-related projects in the manufacturing sector

Investment projects	Agency	Doc. ExCom	Funding (US \$)			Agreed
			Submitted	Recommended		
Argentina*	Replacement of HFC-134a with HC-600a refrigerant in the manufacturing of domestic refrigerators	UNIDO	81/22	1,840,755	1,840,755	Yes
China	Conversion from C5+HFC-245fa to C5+HFOs in a domestic refrigerator manufacturer (Hisense Kelon)	UNDP	81/29	3,877,300	757,558	No
Colombia*	Conversion from HFC-134a to isobutane in the manufacture of domestic refrigerators at Mabe	UNDP	81/30	1,114,350	1,114,350	Yes
Dominican Republic	Conversion from HFC-134a to HC-290 in the manufacture of stand alone, self-contained commercial refrigerators at Farco	UNDP/Canada	81/31	370,760	179,825	Yes
Ecuador	Elimination of HFC-134a and HFC-404A in the manufacturing of domestic and commercial refrigerators in Ecasa	UNIDO	81/32	235,190	199,480	Yes
Ecuador	Elimination of HFC-134a in the manufacturing of commercial refrigerators in Induglob	UNIDO	81/32	319,370	220,660	Yes

Investment projects		Agency	Doc. ExCom	Funding (US \$)		
				Submitted	Recommended	Agreed
Egypt	Conversion from HFC-134a to HFOs in a polyurethane foam panel manufacturer (Army Factory)	UNDP	81/33	1,007,400	224,694	No
Islamic Republic of Iran	Conversion from HFC-134a to HFO1234yf in mobile air-conditioning of the automotive sector	UNIDO	81/39	795,055	689,000	Yes
Jordan	Conversion of large commercial unitary roof top air-conditioning units of up to 400kW manufacturing facility from HFC (R134a, R407c, R410a) to propane R290 as refrigerant at Petra Engineering Industries Co.	UNIDO	81/40	3,437,311	1,637,610	Yes
Lebanon	Conversion from HFC-134a and HFC-404A to R-600a and R-290 in domestic refrigeration at Lematic Industries	UNIDO	81/42	2,174,163	1,053,858	Yes
Mexico*	Conversion from HFC-134a to isobutane as refrigerant in the manufacture of domestic refrigerators and of reciprocating compressors from HFC-134a-based to isobutane-based at Mabe Mexico	UNDP/ Canada	81/45	3,118,650	3,118,650	Yes
Mexico	Replacement of HFC-134a and HFC-404A with HC-290 and HC-600a refrigerant in the manufacturing of commercial refrigerators at Imbera	UNIDO	81/45	1,270,766	1,018,123	Yes
Zimbabwe	Conversion from HFC-134a to isobutane in the manufacture of domestic refrigerators at Capri (SME Harare)	UNDP	81/52	1,338,689	563,526	Yes
Total				20,899,759	12,618,089	

*Resubmission

Secretariat's review

29. The Secretariat reviewed the stand-alone HFC projects using the same approach when reviewing stand-alone investment projects. Eleven of the 13 projects are for the domestic or commercial refrigeration sector and related to the conversion from HFC-134a and/or R-404A to isobutane (R-600a) or propane (R-290). Two projects are for the foam sector, one for conversion from HFC-134a in polyurethane (PU) foam manufacturing to HFO, while the other is for the conversion of cyclopentane/HFC-245fa to cyclopentane/HFO-1233zd as insulation foam in domestic refrigerators.

Secretariat's recommendation

30. The Executive Committee may wish to consider each of the funding requests for HFC-related investment projects under agenda item (9)(e) "Investment projects" and also to consider, during its deliberation, the funding source for each project either from the regular contributions or from the additional voluntary contributions provided by a group of non-Article 5 Parties.

Projects and activities submitted for blanket approval

Verification reports of LVC countries' compliance with their HPMP agreement

31. In line with decision 61/46(c),¹⁰ the Secretariat selected a sample of 16 countries for the purpose of verifying compliance with the HPMP agreement. One of the criteria used to select the countries for verification was the proximity of the next tranche of their HPMP (between 2019 and 2021) and, where possible, not having been previously selected for verification. Noting that a large number of LVCs had received funding for verification reports, there may be some countries on this list where funding for verification was already provided. In considering this fact, the Secretariat used additional criteria for selection: that their previous verification should have been approved no earlier than five years ago, in addition to the criteria of geographic distribution, level of consumption, and distribution among bilateral and implementing agencies. The countries selected (six in Africa, four in Asia, three in Latin America and the Caribbean, and three in Europe) are listed in Table 3.

Table 3. Sample of Article 5 countries for verification of compliance with their HPMP agreement

No.	Country	HCFC baseline (mt)	Lead/cooperating agency	Next tranche request
1	Albania	107.31	UNIDO	2020
2	Bahamas (the)	88.00	UNEP	2020
3	Central African Republic (the)	217.94	UNEP	2020
4	Cuba	283.62	UNDP	2020
5	Fiji	152.79	UNDP	2020
6	Gambia (the)	25.70	UNEP	2020
7	Lao People's Democratic Republic (the)	41.93	UNEP	2020
8	Malawi	196.30	UNEP	2020
9	Mongolia	23.73	UNEP	2020
10	Niger (the)	290.39	UNIDO	2020
11	Saint Lucia	3.96	UNEP	2020
12	Sao Tome and Principe	39.00	UNEP	2020
13	Serbia	151.11	UNIDO	2020
14	Sri Lanka	235.20	UNDP	2020
15	Turkmenistan	124.10	UNIDO	2020
16	Uganda	2.67	UNEP	2020

Secretariat's recommendation

32. The Executive Committee may wish to request relevant bilateral and implementing agencies to include in their respective amendments to the work programmes for submission to the 82nd meeting, funding for verification reports for stage I of the HPMPs in the amount of US \$30,000, plus agency support costs, for each of the Article 5 countries listed in Table 3.

Projects for blanket approval

33. Annex I to the present document lists 140 projects and activities totalling US \$20,695,526 including agency support costs, that are recommended for blanket approval. The approval of these projects would include the relevant conditions or provisions in the corresponding project evaluation sheets as well as the approval of implementation programmes associated with the relevant tranches of multi-year projects.

¹⁰ The Secretariat was requested to provide, at the first meeting of each year, a list representing 20 per cent of countries with an HCFC consumption baseline of up to 360 metric tonnes (mt), and with an approved HPMP, to approve funding for them for the purposes of verification of that country's compliance with the HPMP agreement for that year.

Investment projects for individual consideration

34. Twenty-seven projects/activities totalling US \$59,842,976 including agency support costs, of which US \$19,984,461 is for the second tranche of stage II of the HPMP for China, and US \$28,587,288 for the first tranche of China's stage II HPPMP (US \$301,872,605 including amount requested in principle, of which US \$257,285,587 is for China's HPPMP), and 16 HFC-related projects and activities totalling US \$13,582,054 including agency support costs, after the review by the Secretariat, are proposed for individual consideration.

35. To facilitate the work of the Executive Committee, the Secretariat has classified the projects by sector, by substance (HCFC or HFC) and has grouped them according to the issues, as shown in Table 4.

Table 4. Investment projects submitted for individual consideration

Country	Project	Agency	ExCom	Issue
Stage II of HPMPs				
Bangladesh	HCFC phase-out management plan (stage II, first tranche)	UNDP/UNEP	81/23	All technical and cost issues resolved; stage II of HPMP
Nigeria	HCFC phase-out management plan (stage II, first tranche)	UNDP/UNIDO/Italy	81/47	All technical and cost issues resolved; stage II of HPMP
Tranche request of stage I, stage II HPMP				
Bolivia (Plurinational State of)	HCFC phase-out management plan (stage I, fourth tranche)	UNIDO	81/25	Continued data reporting challenges
Burundi	HCFC phase-out management plan (stage I, third tranche)	UNIDO/UNEP	81/26	Starting point reduced; Government to request the Ozone Secretariat to revise baseline
China	HCFC phase-out management plan - Room air conditioning sector plan (stage II, second tranche)	UNIDO	81/29	All technical and cost issues resolved; stage II of HPMP
China	HCFC phase-out management plan – Refrigeration servicing sector (stage II, second tranche)	UNEP/Japan	81/29	All technical and cost issues resolved; stage II of HPMP
Ecuador	HCFC phase-out management plan – Foam investment project (stage I)	UNIDO	81/32	Need to postpone spray foam due to technology
Ghana	HCFC phase-out management plan (stage I, fifth tranche)	UNDP/Italy	81/35	Consumption and starting point, retrofitting to HFC in end-user incentive program
Indonesia	HCFC phase-out management plan (stage II, second tranche)	World Bank/UNDP	81/38	Return of funds and possible switch of beneficiary enterprise
Lebanon	HCFC phase-out management plan (stage II, second tranche)	UNDP	81/42	Interim use of a high-GWP technology
Individual investment projects to reduce HFCs pursuant to decisions 78/3(g) and 79/45				
Argentina	Replacement of HFC-134a with HC-600a refrigerant in the manufacturing of domestic refrigerators	UNIDO	81/22	Agreement on cost reached
China	Conversion from C5+HFC-245fa to C5+HFOs in a domestic refrigerator manufacturer (Hisense Kelon)	UNDP	81/29	No agreement on cost
Colombia	Conversion from HFC-134a to isobutane in the manufacture of domestic refrigerators at Mabe	UNDP	81/30	Agreement on cost reached. Enterprise started conversion

Country	Project	Agency	ExCom	Issue
Dominican Republic	Conversion from HFC-134a to R-290 in the manufacture of stand alone, self-contained commercial refrigerators at Farco	UNDP/ Canada	81/31	Agreement on cost reached
Ecuador	Elimination of HFC-134a and HFC-404A in the manufacturing of domestic and commercial refrigerators in Ecasa	UNIDO	81/32	Agreement on cost reached
Ecuador	Elimination of HFC-134a in the manufacturing of commercial refrigerators in Induglob	UNIDO	81/32	Agreement on cost reached
Egypt	Conversion from HFC-134a to HFOs in a polyurethane foam panel manufacturer (Army Factory)	UNDP	81/33	Replicability uncertain No agreement on cost
Islamic Republic of Iran	Conversion from HFC-134a to HFO1234yf in mobile air-conditioning of the automotive sector	UNIDO	81/39	Agreement on cost reached
Jordan	Conversion of large commercial unitary roof top air-conditioning units of up to 400kW manufacturing facility from HFC (R134a, R407c, R410a) to propane R290 as refrigerant at Petra Engineering Industries Co.	UNIDO	81/40	Agreement on cost reached Possible delay in disbursement of IOCs
Lebanon	Conversion from HFC-134a and HFC-404A to R-600a and R-290 in domestic refrigeration at Lematic Industries	UNIDO	81/42	Agreement on cost reached
Mexico	Conversion from HFC-134a to isobutane as refrigerant in the manufacture of domestic refrigerators and of reciprocating compressors from HFC-134a-based to isobutane-based at Mabe Mexico	UNDP/Canada	81/45	Agreement on cost reached
Mexico	Replacement of HFC-134a and HFC-404A with HC-290 and HC-600a refrigerant in the manufacturing of commercial refrigerators at Imbera	UNIDO	81/45	Agreement on cost reached
Zimbabwe	Conversion from HFC-134a to isobutane in the manufacture of domestic refrigerators at Capri (SME Harare)	UNDP	81/52	Agreement on cost reached

List of projects and activities recommended for blanket approval

UNEP/OzL.Pro/ExCom/81/14
Annex I

Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
AFGHANISTAN					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
Total for Afghanistan			\$150,000	\$10,500	\$160,500
ALBANIA					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, fourth tranche)	UNIDO	1.1	\$30,000	\$2,700	\$32,700
Preparation of a HCFC phase-out management plan (stage I, fourth tranche)	UNIDO		\$30,000	\$2,100	\$32,100
HCFC phase-out management plan (stage I, fourth tranche)	UNEP	0.4	\$8,500	\$1,105	\$9,605
Total for Albania			1.5	\$68,500	\$5,905
ARGENTINA					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNIDO		\$250,000	\$17,500	\$267,500
Total for Argentina			\$250,000	\$17,500	\$267,500
BAHRAIN					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase IX: 6/2018-5/2020)	UNEP		\$85,000	\$0	\$85,000
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
Total for Bahrain			\$235,000	\$10,500	\$245,500
BANGLADESH					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$61,000	\$4,270	\$65,270

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
Enabling activities for HFC phase-down	UNDP		\$14,000	\$980	\$14,980
Enabling activities for HFC phase-down	Canada		\$75,000	\$5,250	\$80,250
Total for Bangladesh			\$150,000	\$10,500	\$160,500
BELIZE					
SEVERAL					
Ozone unit support					
Renewal of institutional strengthening project (phase IX: 6/2018-5/2020)	UNEP		\$98,176	\$0	\$98,176
Total for Belize			\$98,176		\$98,176
BENIN					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, fourth tranche)	UNEP	3.5	\$65,000	\$8,450	\$73,450
<i>Approved on the understanding that UNEP and UNIDO would assist the Government to implement the recommendations contained in the verification report for HCFC consumption, and would report on the progress made in this regard at the time of the next tranche submission.</i>					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
Total for Benin			3.5	\$215,000	\$18,950
BOTSWANA					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
Total for Botswana			\$150,000	\$10,500	\$160,500
BURUNDI					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase VIII: 8/2018-7/2020)	UNEP		\$85,000	\$0	\$85,000
Total for Burundi			\$85,000		\$85,000

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)			C.E. (US\$/kg)
			Project	Support	Total	
CAPE VERDE						
PHASE-OUT PLAN						
HCFC phase out plan						
HCFC phase-out management plan (stage I, fourth tranche)	UNEP	0.1	\$30,000	\$3,900	\$33,900	
Preparation of a HCFC phase-out management plan (stage I, fourth tranche)	UNEP		\$30,000	\$3,900	\$33,900	
SEVERAL						
Ozone unit support						
Extension of the institutional strengthening project (phase VI: 6/2018-5/2020)	UNEP		\$85,000	\$0	\$85,000	
Total for Cape Verde		0.1	\$145,000	\$7,800	\$152,800	
CHAD						
SEVERAL						
Technical assistance/support						
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500	
Total for Chad			\$150,000	\$10,500	\$160,500	
CHILE						
PHASE-OUT PLAN						
HCFC phase out plan						
HCFC phase-out management plan (stage II, second tranche) (foam sector)	UNDP	23.2	\$1,401,911	\$98,134	\$1,500,045	
HCFC phase-out management plan (stage II, second tranche) (refrigeration servicing sector)	UNIDO	6.4	\$618,420	\$43,289	\$661,709	
HCFC phase-out management plan (stage II, second tranche) (refrigeration servicing sector)	UNEP	1.5	\$130,962	\$17,025	\$147,987	
Total for Chile		31.2	\$2,151,293	\$158,448	\$2,309,741	
CHINA						
PHASE-OUT PLAN						
HCFC phase out plan						
HCFC phase-out management plan (stage II, balance of second tranche) (extruded polystyrene foam sector plan)	Germany		\$3,988	\$475	\$4,463	
Total for China			\$3,988	\$475	\$4,463	

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
COLOMBIA					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage II, second tranche) (foam sector)	UNDP	34.6	\$1,137,247	\$79,607	\$1,216,854
<p><i>Approved on the understanding that the approved funds would not be transferred to UNDP, UNEP and the Government of Germany until the Secretariat had reviewed the verification report for 2015, 2016 and 2017 and confirmed that the Government of Colombia was in compliance with the Montreal Protocol and the Agreement with the Executive Committee; that UNDP would report the actual IOC incurred during the conversion to reduced-HFO formulations in the foam sector when requesting a future tranche of stage II of the HPMP, on the understanding that if the IOC were below US \$2.13/kg the Government would return the associated funds to the Multilateral Fund in line with decision 75/44(b)(vi); and that UNDP would continue assisting the Government to enact the ban on the use of HCFC-141b in the fire protection sector as soon as possible.</i></p>					
HCFC phase-out management plan (stage II, second tranche) (refrigerant servicing sector, project management and monitoring)	UNDP		\$130,760	\$9,154	\$139,914
<p><i>Approved on the understanding that the approved funds would not be transferred to UNDP, UNEP and the Government of Germany until the Secretariat had reviewed the verification report for 2015, 2016 and 2017 and confirmed that the Government of Colombia was in compliance with the Montreal Protocol and the Agreement with the Executive Committee; that UNDP would report the actual IOC incurred during the conversion to reduced-HFO formulations in the foam sector when requesting a future tranche of stage II of the HPMP, on the understanding that if the IOC were below US \$2.13/kg the Government would return the associated funds to the Multilateral Fund in line with decision 75/44(b)(vi); and that UNDP would continue assisting the Government to enact the ban on the use of HCFC-141b in the fire protection sector as soon as possible.</i></p>					
HCFC phase-out management plan (stage II, second tranche) (refrigeration servicing sector)	Germany	1.9	\$162,900	\$20,919	\$183,819
<p><i>Approved on the understanding that the approved funds would not be transferred to UNDP, UNEP and the Government of Germany until the Secretariat had reviewed the verification report for 2015, 2016 and 2017 and confirmed that the Government of Colombia was in compliance with the Montreal Protocol and the Agreement with the Executive Committee; that UNDP would report the actual IOC incurred during the conversion to reduced-HFO formulations in the foam sector when requesting a future tranche of stage II of the HPMP, on the understanding that if the IOC were below US \$2.13/kg the Government would return the associated funds to the Multilateral Fund in line with decision 75/44(b)(vi); and that UNDP would continue assisting the Government to enact the ban on the use of HCFC-141b in the fire protection sector as soon as possible.</i></p>					

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
HCFC phase-out management plan (stage II, second tranche) (technical assistance in policies formulation and implementation)	UNEP	0.6	\$50,000	\$6,500	\$56,500
<i>Approved on the understanding that the approved funds would not be transferred to UNDP, UNEP and the Government of Germany until the Secretariat had reviewed the verification report for 2015, 2016 and 2017 and confirmed that the Government of Colombia was in compliance with the Montreal Protocol and the Agreement with the Executive Committee; that UNDP would report the actual IOC incurred during the conversion to reduced-HFO formulations in the foam sector when requesting a future tranche of stage II of the HPMP, on the understanding that if the IOC were below US \$2.13/kg the Government would return the associated funds to the Multilateral Fund in line with decision 75/44(b)(vi); and that UNDP would continue assisting the Government to enact the ban on the use of HCFC-141b in the fire protection sector as soon as possible.</i>					
Total for Colombia		37.0	\$1,480,907	\$116,180	\$1,597,087
COMOROS					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$50,000	\$3,500	\$53,500
Total for Comoros			\$50,000	\$3,500	\$53,500
CONGO					
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage	UNIDO		\$15,000	\$1,050	\$16,050
Preparation of a HCFC phase-out management plan (stage	UNEP		\$25,000	\$3,250	\$28,250
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase X: 6/2018-5/2020)	UNEP		\$85,000	\$0	\$85,000
Total for Congo			\$125,000	\$4,300	\$129,300
CONGO, DR					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
Total for Congo, DR			\$150,000	\$10,500	\$160,500

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
COSTA RICA					
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage	UNDP		\$40,000	\$2,800	\$42,800
Total for Costa Rica			\$40,000	\$2,800	\$42,800
COTE D'IVOIRE					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
Total for Cote D'Ivoire			\$150,000	\$10,500	\$160,500
CUBA					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNDP		\$75,000	\$5,250	\$80,250
Enabling activities for HFC phase-down	Canada		\$75,000	\$5,250	\$80,250
Total for Cuba			\$150,000	\$10,500	\$160,500
DJIBOUTI					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase VII: 7/2018-6/2020)	UNEP		\$85,000	\$0	\$85,000
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$50,000	\$3,500	\$53,500
Total for Djibouti			\$135,000	\$3,500	\$138,500
DOMINICA					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase VII: 6/2018-5/2020)	UNEP		\$85,000	\$0	\$85,000
Total for Dominica			\$85,000		\$85,000

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
EGYPT					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase XII: 1/2019-12/2020)	UNIDO		\$292,253	\$20,458	\$312,711
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$145,000	\$10,150	\$155,150
Enabling activities for HFC phase-down	UNIDO		\$105,000	\$7,350	\$112,350
		Total for Egypt	\$542,253	\$37,958	\$580,211
EL SALVADOR					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	Canada		\$50,000	\$3,500	\$53,500
Enabling activities for HFC phase-down	UNDP		\$100,000	\$7,000	\$107,000
		Total for El Salvador	\$150,000	\$10,500	\$160,500
EQUATORIAL GUINEA					
SEVERAL					
Ozone unit support					
Renewal of the institutional strengthening project (phase III: 6/2018-5/2020)	UNEP		\$102,400	\$0	\$102,400
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
		Total for Equatorial Guinea	\$252,400	\$10,500	\$262,900
ETHIOPIA					
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage I)	UNEP		\$22,000	\$2,860	\$24,860
Preparation of a HCFC phase-out management plan (stage II)	UNIDO		\$8,000	\$560	\$8,560

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$95,000	\$6,650	\$101,650
Total for Ethiopia			\$125,000	\$10,070	\$135,070
GABON					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase X: 7/2018-6/2020)	UNEP		\$85,000	\$0	\$85,000
Total for Gabon			\$85,000		\$85,000
GEORGIA					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, third tranche) <i>Approved on the understanding that an updated verification report to include 2016 and 2017 consumption data would be submitted by June 2018; that Georgia had consumption in the servicing sector only; and that the financial incentive scheme would enhance the sustainability of the training of servicing technicians, and that end-users would provide co financing to participate in the scheme.</i>	UNDP	1.2	\$119,400	\$8,955	\$128,355
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase X: 6/2018-5/2020)	UNDP		\$85,000	\$5,950	\$90,950
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$95,000	\$6,650	\$101,650
Total for Georgia			1.2	\$299,400	\$21,555
GHANA					
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage X)	UNDP		\$60,000	\$4,200	\$64,200
Total for Ghana			\$60,000	\$4,200	\$64,200

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
GRENADA					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase VI: 6/2018-5/2020)	UNEP		\$85,000	\$0	\$85,000
Technical assistance/support					
Enabling activities for HFC phase-down	UNIDO		\$50,000	\$3,500	\$53,500
Total for Grenada			\$135,000	\$3,500	\$138,500
GUATEMALA					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, fourth tranche)	UNIDO	1.2	\$42,850	\$3,214	\$46,064
HCFC phase-out management plan (stage I, fourth tranche)	UNEP	0.2	\$23,250	\$3,023	\$26,273
SEVERAL					
Ozone unit support					
Renewal of the institutional strengthening project (phase VIII: 7/2018-6-2020)	UNEP		\$159,744	\$0	\$159,744
Total for Guatemala			1.4	\$225,844	\$6,237
GUINEA-BISSAU					
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage I)	UNEP		\$20,000	\$2,600	\$22,600
Preparation of a HCFC phase-out management plan (stage II)	UNIDO		\$10,000	\$700	\$10,700
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$95,000	\$6,650	\$101,650
Total for Guinea-Bissau			\$125,000	\$9,950	\$134,950

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
GUYANA					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$95,000	\$6,650	\$101,650
Total for Guyana			\$95,000	\$6,650	\$101,650
HONDURAS					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, fourth tranche)	UNIDO	3.0	\$60,000	\$4,500	\$64,500
<p><i>Approved on the understanding that UNEP and the Government will intensify efforts to implement the training activities for refrigeration technicians associated with stage I of the HPMP; that UNEP would submit a progress report to each meeting on the implementation of activities under UNEP's components associated with stage I of the HPMP, including disbursements achieved, until the submission of the fifth and final tranche of stage I of the HPMP; that the disbursement targets for the total amount of funds approved for the UNEP components of the first, second and third tranches of stage I of the HPMP for Honduras are 50 per cent by 30 September 2018, 80 per cent by 31 March 2019, and 100 per cent by December 2019, and for the UNEP component of the fourth tranche are 20 per cent disbursement by 31 March 2019 and 50 per cent disbursement by December 2019; and if Honduras were to decide to proceed with retrofits and associated servicing to flammable and toxic refrigerants in refrigeration and air-conditioning equipment originally designed for non flammable substances, it would do so assuming all associated responsibilities and risks and only in accordance with the relevant standards and protocols.</i></p>					
HCFC phase-out management plan (stage I, fourth tranche)	UNEP	2.0	\$50,000	\$6,500	\$56,500
<p><i>Approved on the understanding that UNEP and the Government will intensify efforts to implement the training activities for refrigeration technicians associated with stage I of the HPMP; that UNEP would submit a progress report to each meeting on the implementation of activities under UNEP's components associated with stage I of the HPMP, including disbursements achieved, until the submission of the fifth and final tranche of stage I of the HPMP; that the disbursement targets for the total amount of funds approved for the UNEP components of the first, second and third tranches of stage I of the HPMP for Honduras are 50 per cent by 30 September 2018, 80 per cent by 31 March 2019, and 100 per cent by December 2019, and for the UNEP component of the fourth tranche are 20 per cent disbursement by 31 March 2019 and 50 per cent disbursement by December 2019; and if Honduras were to decide to proceed with retrofits and associated servicing to flammable and toxic refrigerants in refrigeration and air-conditioning equipment originally designed for non flammable substances, it would do so assuming all associated responsibilities and risks and only in accordance with the relevant standards and protocols.</i></p>					

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
	Total for Honduras	5.0	\$260,000	\$21,500	\$281,500
INDONESIA					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	IBRD		\$250,000	\$17,500	\$267,500
	Total for Indonesia		\$250,000	\$17,500	\$267,500
IRAQ					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$250,000	\$17,500	\$267,500
	Total for Iraq		\$250,000	\$17,500	\$267,500
JAMAICA					
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage	UNDP		\$40,000	\$2,800	\$42,800
	Total for Jamaica		\$40,000	\$2,800	\$42,800
KENYA					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
	Total for Kenya		\$150,000	\$10,500	\$160,500
KIRIBATI					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$50,000	\$3,500	\$53,500
	Total for Kiribati		\$50,000	\$3,500	\$53,500

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
KUWAIT					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase VII: 6/2018-5/2020)	UNEP		\$134,810	\$0	\$134,810
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$250,000	\$17,500	\$267,500
Total for Kuwait			\$384,810	\$17,500	\$402,310
KYRGYZSTAN					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage II, second tranche)	UNEP	0.2	\$155,800	\$20,254	\$176,054
<i>Approved on the understanding that end-users would provide co-financing to participate in the incentive programme for retrofit or replacement of air-conditioning equipment to technologies with low global warming potential refrigerants; and that, if Kyrgyzstan were to decide to proceed with retrofits and associated servicing to flammable and toxic refrigerants in refrigeration and air-conditioning equipment originally designed for non-flammable substances, it would do so assuming all associated responsibilities and risks and only in accordance with the relevant standards and protocols.</i>					
HCFC phase-out management plan (stage II, second tranche)	UNDP	0.5	\$175,000	\$12,250	\$187,250
<i>Approved on the understanding that end-users would provide co-financing to participate in the incentive programme for retrofit or replacement of air-conditioning equipment to technologies with low global warming potential refrigerants; and that, if Kyrgyzstan were to decide to proceed with retrofits and associated servicing to flammable and toxic refrigerants in refrigeration and air-conditioning equipment originally designed for non-flammable substances, it would do so assuming all associated responsibilities and risks and only in accordance with the relevant standards and protocols.</i>					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase IX: 1/2019-12/2020)	UNEP		\$148,262	\$0	\$148,262
Total for Kyrgyzstan			0.7	\$479,062	\$32,504
LAO, PDR					
SEVERAL					
Ozone unit support					
Renewal of the institutional strengthening project (phase IX: 12/2018-11/2020)	UNEP		\$85,000	\$0	\$85,000

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$95,000	\$6,650	\$101,650
Total for Lao, PDR			\$180,000	\$6,650	\$186,650
LESOTHO					
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage	Germany		\$30,000	\$3,900	\$33,900
Total for Lesotho			\$30,000	\$3,900	\$33,900
LIBYA					
SEVERAL					
Ozone unit support					
Renewal of institutional strengthening project (Phase V: 7/2018-6/2020)	UNIDO		\$174,164	\$12,191	\$186,355
Technical assistance/support					
Enabling activities for HFC phase-down	UNIDO		\$150,000	\$10,500	\$160,500
Total for Libya			\$324,164	\$22,691	\$346,855
MADAGASCAR					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, fourth tranche)	UNEP	2.3	\$44,000	\$5,720	\$49,720
<i>Approved on the understanding that Madagascar has consumption in the servicing sector only; and that the financial incentive scheme would enhance the sustainability of the training of servicing technicians, and that end-users would provide co financing to participate in the scheme.</i>					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
Total for Madagascar			2.3	\$194,000	\$16,220
MALAWI					
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage	UNIDO		\$15,000	\$1,050	\$16,050

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			Project	Support	
Preparation of a HCFC phase-out management plan (stage I, fourth tranche)	UNEP		\$25,000	\$3,250	\$28,250
HCFC phase-out management plan (stage I, fourth tranche) <i>Approved on the understanding that if Malawi were to decide to proceed with retrofits and associated servicing to flammable and toxic refrigerants in refrigeration and air conditioning equipment originally designed for non flammable substances, it would do so assuming all associated responsibilities and risks and only in accordance with the relevant standards and protocols.</i>	UNEP	1.8	\$40,000	\$5,200	\$45,200
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
	Total for Malawi	1.8	\$230,000	\$20,000	\$250,000
MALDIVES					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase X: 12/2018-11/2020)	UNEP		\$85,000	\$0	\$85,000
	Total for Maldives		\$85,000		\$85,000
MALI					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase IX: 7/2018-6/2020)	UNEP		\$85,000	\$0	\$85,000
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
	Total for Mali		\$235,000	\$10,500	\$245,500
MARSHALL ISLANDS					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$50,000	\$3,500	\$53,500
	Total for Marshall Islands		\$50,000	\$3,500	\$53,500

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)	
			Project	Support		Total
MAURITANIA						
SEVERAL						
Ozone unit support						
Renewal of the institutional strengthening project (phase VI: UNEP 6/2018-5/2020)			\$85,000	\$0	\$85,000	
Technical assistance/support						
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500	
Total for Mauritania			\$235,000	\$10,500	\$245,500	
MEXICO						
PHASE-OUT PLAN						
HCFC phase out plan						
HCFC phase-out management plan (stage II, third tranche) (refrigeration servicing sector)	Spain	13.1	\$1,070,000	\$122,731	\$1,192,731	
<i>Noted that one enterprise in the aerosol sector, conversion of which was approved on the basis of the use of an alternative with low GWP, is temporarily using approximately two metric tonnes of HFC-365mfc and HFC-227ea in one cleaning application, owing to corrosiveness issues. UNIDO was requested to continue assisting the Government in identifying a low GWP alternative for the application mentioned above during the implementation of the HPMP; and to report to the Executive Committee on the status of use of the interim technology at each meeting, until the technology originally selected or another technology with a low-GWP has been fully introduced.</i>						
HCFC phase-out management plan (stage II, third tranche) (refrigeration servicing sector)	UNIDO	33.2	\$2,139,719	\$149,780	\$2,289,499	
<i>Noted that one enterprise in the aerosol sector, conversion of which was approved on the basis of the use of an alternative with low GWP, is temporarily using approximately two metric tonnes of HFC-365mfc and HFC-227ea in one cleaning application, owing to corrosiveness issues. UNIDO was requested to continue assisting the Government in identifying a low GWP alternative for the application mentioned above during the implementation of the HPMP; and to report to the Executive Committee on the status of use of the interim technology at each meeting, until the technology originally selected or another technology with a low-GWP has been fully introduced.</i>						
Total for Mexico			46.3	\$3,209,719	\$272,511	\$3,482,230
MICRONESIA						
SEVERAL						
Technical assistance/support						
Enabling activities for HFC phase-down	UNEP		\$50,000	\$3,500	\$53,500	
Total for Micronesia			\$50,000	\$3,500	\$53,500	

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
MOROCCO					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNIDO		\$150,000	\$10,500	\$160,500
		Total for Morocco	\$150,000	\$10,500	\$160,500
MOZAMBIQUE					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
		Total for Mozambique	\$150,000	\$10,500	\$160,500
MYANMAR					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$95,000	\$6,650	\$101,650
		Total for Myanmar	\$95,000	\$6,650	\$101,650
NAURU					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$50,000	\$3,500	\$53,500
		Total for Nauru	\$50,000	\$3,500	\$53,500
NEPAL					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase X: 11/2018-10/2020)	UNEP		\$85,000	\$0	\$85,000
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$95,000	\$6,650	\$101,650
		Total for Nepal	\$180,000	\$6,650	\$186,650

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
NICARAGUA					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, third tranche)	UNEP	0.6	\$30,000	\$3,900	\$33,900
HCFC phase-out management plan (stage I, third tranche)	UNIDO	1.4	\$50,000	\$4,500	\$54,500
SEVERAL					
Ozone unit support					
Renewal of institutional strengthening project (phase IX: 7/2018-6/2020)	UNEP		\$85,000	\$0	\$85,000
Technical assistance/support					
Enabling activities for HFC phase-down	UNIDO		\$150,000	\$10,500	\$160,500
		Total for Nicaragua	2.0	\$315,000	\$18,900
\$333,900					
NIGER					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNIDO		\$150,000	\$10,500	\$160,500
		Total for Niger	\$150,000	\$10,500	\$160,500
NIUE					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$50,000	\$3,500	\$53,500
		Total for Niue	\$50,000	\$3,500	\$53,500
OMAN					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
		Total for Oman	\$150,000	\$10,500	\$160,500

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
PAKISTAN					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$250,000	\$17,500	\$267,500
		Total for Pakistan	\$250,000	\$17,500	\$267,500
PANAMA					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	Canada		\$50,000	\$3,500	\$53,500
Enabling activities for HFC phase-down	UNDP		\$100,000	\$7,000	\$107,000
		Total for Panama	\$150,000	\$10,500	\$160,500
PARAGUAY					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$75,000	\$5,250	\$80,250
Enabling activities for HFC phase-down	UNDP		\$75,000	\$5,250	\$80,250
		Total for Paraguay	\$150,000	\$10,500	\$160,500
RWANDA					
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage	UNIDO		\$8,000	\$560	\$8,560
Preparation of a HCFC phase-out management plan (stage	UNEP		\$22,000	\$2,860	\$24,860
		Total for Rwanda	\$30,000	\$3,420	\$33,420
SAINT KITTS AND NEVIS					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase VII: 6/2018-5/2020)	UNEP		\$85,000	\$0	\$85,000

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$50,000	\$3,500	\$53,500
Total for Saint Kitts and Nevis			\$135,000	\$3,500	\$138,500
SAMOA					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$50,000	\$3,500	\$53,500
Total for Samoa			\$50,000	\$3,500	\$53,500
SAO TOME AND PRINCIPE					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, fourth tranche)	UNEP	0.1	\$30,000	\$3,900	\$33,900
Preparation of a HCFC phase-out management plan (stage	UNEP		\$30,000	\$3,900	\$33,900
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$95,000	\$6,650	\$101,650
Total for Sao Tome and Principe			0.1	\$155,000	\$14,450
SAUDI ARABIA					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$250,000	\$17,500	\$267,500
Total for Saudi Arabia			\$250,000	\$17,500	\$267,500
SEYCHELLES					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase VIII: 6/2018-5/2020)	UNEP		\$85,000	\$0	\$85,000
Total for Seychelles			\$85,000		\$85,000

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
SIERRA LEONE					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$95,000	\$6,650	\$101,650
		Total for Sierra Leone	\$95,000	\$6,650	\$101,650
SOLOMON ISLANDS					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$95,000	\$6,650	\$101,650
		Total for Solomon Islands	\$95,000	\$6,650	\$101,650
SOUTH SUDAN					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$95,000	\$6,650	\$101,650
		Total for South Sudan	\$95,000	\$6,650	\$101,650
SRI LANKA					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$150,000	\$10,500	\$160,500
		Total for Sri Lanka	\$150,000	\$10,500	\$160,500
SUDAN					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening (phase IX: 7/2018-6/2020)	UNEP		\$186,701	\$0	\$186,701
		Total for Sudan	\$186,701		\$186,701

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
SURINAME					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, third tranche)	UNIDO		\$29,000	\$2,610	\$31,610
<i>Approved on the understanding that funding under the last tranche of stage I of the HPMP for Suriname would be considered only after the Government has addressed all the issues identified in the verification report and implemented relevant actions that had strengthened import/export licensing and quota systems; and if Suriname were to decide to proceed with retrofits and associated servicing to flammable and toxic refrigerants in refrigeration and air-conditioning equipment originally designed for non-flammable substances, it would do so assuming all associated responsibilities and risks and only in accordance with the relevant standards and protocols.</i>					
HCFC phase-out management plan (stage I, third tranche)	UNEP	0.3	\$35,000	\$4,550	\$39,550
<i>Approved on the understanding that funding under the last tranche of stage I of the HPMP for Suriname would be considered only after the Government has addressed all the issues identified in the verification report and implemented relevant actions that had strengthened import/export licensing and quota systems; and if Suriname were to decide to proceed with retrofits and associated servicing to flammable and toxic refrigerants in refrigeration and air-conditioning equipment originally designed for non-flammable substances, it would do so assuming all associated responsibilities and risks and only in accordance with the relevant standards and protocols.</i>					
Total for Suriname		0.3	\$64,000	\$7,160	\$71,160
SWAZILAND					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$95,000	\$6,650	\$101,650
Total for Swaziland			\$95,000	\$6,650	\$101,650
TANZANIA					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$95,000	\$6,650	\$101,650
Total for Tanzania			\$95,000	\$6,650	\$101,650

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
TRINIDAD AND TOBAGO					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, fourth tranche)	UNDP	11.2	\$145,000	\$10,875	\$155,875
<i>Approved on the understanding that the funds approved would not be disbursed by the Treasurer to UNDP until the Secretariat has reviewed the verification report for the years 2015 to 2017 that would be submitted no later than 15 July 2018, and confirmed that the Government is in compliance with the Montreal Protocol and its Agreement with the Executive Committee; and in case the verification report is not submitted in line with above, the funding approved for the fourth tranche would be returned to the Multilateral Fund and the tranche request with the verification report would be resubmitted at a future meeting.</i>					
Total for Trinidad and Tobago		11.2	\$145,000	\$10,875	\$155,875
TUVALU					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$50,000	\$3,500	\$53,500
Total for Tuvalu			\$50,000	\$3,500	\$53,500
UGANDA					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$50,000	\$3,500	\$53,500
Total for Uganda			\$50,000	\$3,500	\$53,500
VANUATU					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNEP		\$50,000	\$3,500	\$53,500
Total for Vanuatu			\$50,000	\$3,500	\$53,500
VENEZUELA					
SEVERAL					
Technical assistance/support					
Enabling activities for HFC phase-down	UNIDO		\$250,000	\$17,500	\$267,500
Total for Venezuela			\$250,000	\$17,500	\$267,500

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)			C.E. (US\$/kg)
			Project	Support	Total	
ZAMBIA						
PHASE-OUT PLAN						
HCFC phase out plan						
HCFC phase-out management plan (stage I, fourth tranche)	UNEP	0.6	\$30,000	\$3,900	\$33,900	
<i>Approved on the understanding that if Zambia were to decide to proceed with retrofits and associated servicing to flammable and toxic refrigerants in refrigeration and air-conditioning equipment originally designed for non-flammable substances, it would do so assuming all associated responsibilities and risks and only in accordance with the relevant standards and protocols.</i>						
Total for Zambia		0.6	\$30,000	\$3,900	\$33,900	
REGION: ASP						
PHASE-OUT PLAN						
HCFC phase out plan						
Development of stage II of HCFC phase-out management plans for PIC countries through regional approach	UNEP		\$360,000	\$46,800	\$406,800	
<i>Approved on the understanding that no further funding for project preparation would be made available for any Pacific Island country which submits a stage III of the HPMP after 2025.</i>						
Total for Region: ASP			\$360,000	\$46,800	\$406,800	
GRAND TOTAL		146.0	\$19,355,217	\$1,340,309	\$20,695,526	