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EXECUTIVE COMMITTEE OF
THE MULTILATERAL FUND FOR THE
IMPLEMENTATION OF THE MONTREAL PROTOCOL
Seventy-fifth Meeting
Montreal, 16-20 November 2015

OVERVIEW OF ISSUES IDENTIFIED DURING PROJECT REVIEW

1. This document consists of the following sections:
 - (a) An analysis of the number of projects and activities submitted by bilateral and implementing agencies to the 75th meeting;
 - (b) Issues identified during the project review process:
 - (i) Calculation of incremental operational cost (IOC) of HFO technology reduced with CO₂; and
 - (ii) Verification reports of low-volume-consuming (LVC) countries' compliance with their HPMP agreement in 2014;
 - (c) Projects to demonstrate low-global warming potential (GWP) technologies pursuant to decision 72/40;
 - (d) Projects 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 to the 75th meeting 213 funding requests for tranches of approved multi-year agreements, projects and activities amounting to US \$138,418,844, including agency support costs where applicable. The funding requests covered:
 - (a) Six stage II of the HCFC phase-out management plan (HPMP) for one LVC countries and five non-LVC countries;

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Pre-session documents of the Executive Committee of the Multilateral Fund for the Implementation of the Montreal Protocol are without prejudice to any decision that the Executive Committee might take following issuance of the document.

- (b) Second/third/fourth/fifth/sixth tranches of approved HPMPs for 32 countries and a request for the fourth tranche of stage I of the HCFC production phase-out management plan for China;
- (c) Renewals of institutional strengthening (IS) projects in 29 countries;
- (d) Project preparation for stage II of the HPMP/HCFC phase-out investment activities for six countries;
- (e) Preparation of a HCFC production phase-out management plan (stage II) for China;
- (f) One project preparation, nine projects to demonstrate low-global-warming potential (GWP) technologies and two feasibility studies on district cooling pursuant to decision 72/40;
- (g) Inventories or surveys on alternatives to ozone-depleting substances (ODS) in 44 countries (decision XXVI/9 of the Meeting of the Parties);
- (h) Compliance assistance programme (CAP) for UNEP and core unit costs for UNDP, UNIDO and the World Bank; and
- (i) Verification reports on the implementation of the HPMP for 17 low-volume consuming (LVC) countries.

3. Following the project review process, 123 projects and activities totalling US \$18,216,848 including support costs, are recommended for blanket approval and 74 projects and activities totalling US \$116,560,160 are being forwarded for individual consideration. Together, the projects for blanket approval and those for individual consideration amount to US \$134,777,008.

IS renewal requests

4. The Secretariat reviewed the terminal reports and requests for extension of IS funding for 29 countries against relevant decisions including decision 74/51(c) on the funding level for IS projects and renewals and decision 74/51(e) on the need to include performance indicators for planned activities. All requests were cross-checked against: previous IS reports; progress reports on the implementation of country programmes; progress reports on the implementation of country programmes; 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 75th meeting; and relevant decisions on compliance adopted by the Parties to the Montreal Protocol.

5. All the requests submitted by UNDP and UNEP included performance indicators for the planned activities for the next phase of the IS projects in accordance with decision 74/51(e). The Secretariat and UNEP worked together on developing performance indicators for IS projects being implemented by UNEP in order to clearly describe the obligation of the NOU, which would be used for monitoring IS activities.

Requests for project preparation funding for stage II of HPMPs

6. Implementing agencies submitted a request for funding for the preparation of stage II of HPMPs for six countries at a total amount of US \$560,000, plus agency support costs of US \$44,600. These requests were reviewed in light of the guidelines in decision 71/42, phase-out priorities¹ and previous funding provided for the preparation of stages I and II of HPMPs.

¹ Bilateral agencies, implementing agencies and Article 5 countries were reminded to prioritize the phase-out of HCFC-141b and compliance with the 2020 target, when requesting and using project preparation funds for projects in non-LVC countries (decision 72/18).

7. The Secretariat noted that the requests were comprehensive, and provided the information required in line with the guidelines. Recommendations were made after all outstanding issues were satisfactorily addressed.

Projects and activities submitted and subsequently withdrawn

8. During the project review process, issues associated with the tranches of stage I of the HPMPs for Senegal (second tranche) and Tunisia (second tranche), at a total cost of US \$1,268,878, could not be addressed on time, and therefore, were withdrawn by the relevant lead implementing agency. The reasons for the withdrawal of these tranches are described in the document on tranche submission delays², and summarized below:

- (a) The request for Senegal was withdrawn since HCFC consumption verification reports for 2013 and 2014 were not submitted. The Secretariat had raised issues in connection with substantial fluctuations in the levels of HCFC consumption and requested UNEP and UNIDO to discuss with the country an adjustment to the starting point for sustained aggregate reduction in HCFC consumption if the verified consumption was significantly lower than the established baseline. In that case, a revision of the funding level, the HPMP strategy and activities to be implemented (based on the revised funding eligibility); and the Agreement between the Government and the Executive Committee would be required; and
- (b) The request for Tunisia was withdrawn due to lack of progress in the implementation of the first tranche with a disbursement below the 20 per cent threshold. UNIDO advised that the tranche will be submitted to the 76th meeting.

Issues identified during project review

Uncertainty in calculation of IOCs for the foam sector

9. Decision 60/44 established incremental operating costs (IOC) for conversions in stage I in the foam sector of up to US \$1.60/kg. For stage II, decision 74/50 allows for higher IOCs to be considered when the conversion is to a low-GWP alternative (up to US \$5.0/kg), and even higher IOCs for conversion of small- and medium-sized enterprises (SMEs). The Secretariat has undertaken a detailed review of the IOCs for the stage II of HPMPs submitted to the 75th meeting and found that small changes in assumptions in the calculation of the IOCs can have a large effect on the costs.

10. Moreover, the IOC for reduced HFO formulations is uncertain and could not be determined. The uncertainty is driven primarily by the unknown quantity of additional water that would be co-blown with the HFO; how the polyol formulation would be changed given the additional water; the quantity of polymeric MDI that would be needed for the formulation; and the ratio of blowing agent plus polyol to MDI. While large foam enterprises with sufficient expertise and equipment could use formulations based on a 1:1 ratio, this is not necessarily the case for SMEs where a small variation ratio can have a large effect on the IOC.

11. The conversions to cyclopentane in several projects have requested increases in the foam density that the Secretariat has found difficult to justify. This is in contrast to conversions to water-blown technology, where an increased density is often required to ensure comparable foam properties when HCFC-141b blowing agent was used. For those conversions, however, there is uncertainty of how the polyol formulation would be changed based on the additional water, and what effect this would have on the price of the formulated polyol.

² UNEP/OzL.Pro/ExCom/75/6.

12. Given that formulations with new blowing agents have been (or are being) optimized and introduced in local markets in Article 5 countries, the Executive Committee may wish to consider requesting the Secretariat to prepare a document on the calculation of the incremental operating costs for the foam sector for consideration to the 76th meeting.

Verification reports of LVC countries compliance with their HPMP agreement in 2014

13. In line with decision 61/46(c)³, at the 74th meeting the Secretariat selected a sample of 17 countries for the purpose of verifying compliance with their HPMP agreement. The Executive Committee accordingly requested relevant bilateral and implementing agencies to include in their respective amendments to the work programmes for submission to the 75th meeting, funding for verification reports for those countries.

14. Preparatory funds for the verification report associated with the HPMP for Seychelles and the request for the third tranche of the HPMP for Seychelles⁴ had been submitted to the 75th meeting. During the review of the tranche request, it was noted that the request for the fourth tranche would be submitted only in 2025; given the importance of verifying HCFC consumption reported in HPMPs, it was agreed that the verification of 2013 and 2014 consumption will be conducted immediately after the funding is approved at the 75th meeting and the report will be submitted to the Secretariat prior to the 76th meeting. The Secretariat will report the result of the verification to the 76th meeting.

15. Upon further review of other preparatory funding for verification reports authorized at the 74th meeting, it was noted that in the case of the HPMP for Montenegro the next tranche request is programmed for 2019. In order to avoid having the preparatory funding approved at the 75th meeting for a number of years until the next tranche of the HPMP is submitted, the Secretariat requested UNIDO not to include the request in its 2015 amendments to the work programme⁵, noting that this request would be included in a future work programme of UNIDO. To avoid this situation in the future, the Secretariat will only select LVC countries that would submit the subsequent funding tranche within the next year after the preparatory funding for the verification of HCFC consumption had been approved by the Executive Committee.

Projects to demonstrate low-GWP technologies and feasibility studies on district cooling pursuant to decision 72/40

Background

16. At the 74th meeting, the Executive Committee considered 26 demonstration projects on low-GWP technologies in 17 countries and in three regions, and three feasibility studies for district cooling, in line with decision 72/40. Following discussions, funding was approved for one feasibility study for district cooling and for the preparation of 13 projects to demonstrate low-GWP technologies as part of the work programmes of UNDP, UNIDO and the World Bank, with full proposals to be submitted to the 75th and 76th meetings.⁶ In addition, the Executive Committee agreed on the submission for consideration at the 75th meeting of a limited number of additional requests for the preparation of projects to demonstrate low-GWP technologies in the air-conditioning manufacturing sector, the resubmission of two full demonstration projects proposals for Colombia and Egypt that were submitted to the 74th meeting but not considered by the Executive Committee, and additional feasibility studies for district cooling (decision 74/21).

³ 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.

⁴ UNEP/OzL.Pro/ExCom/75/65.

⁵ UNEP/OzL.Pro/ExCom/75/31.

⁶ In addition, the Executive Committee also considered the request for funds for the preparation of a regional centre of excellence for demonstration and training of low-GWP ozone-safe alternative technologies in the Europe and Central Asia to be implemented by the Government of the Russian Federation.

An overview of the submissions

17. In response to decision 74/21, bilateral and implementing agencies submitted 11 proposals for consideration at the 75th meeting with a total funding request of US \$6,165,330 plus agency support costs of US \$434,033 for demonstration projects, and US \$200,000 including agency support costs for feasibility studies, described as follows:

- (a) Five demonstration projects out of the 13 project concepts where funding for preparation was approved at the 74th meeting, with a total funding request amounting to US \$3,695,050 plus agency support costs of US \$258,653;
- (b) Two demonstration projects for the foam sector in Colombia and Egypt amounting to US \$622,480 plus agency support costs of US \$43,574 that were submitted to the 74th meeting;
- (c) Two demonstration projects for Colombia and Saudi Arabia in the air-conditioning manufacturing sector amounting to US \$1,806,800 plus agency support costs of US \$126,476. No funding was provided for the preparation of these two projects;
- (d) One funding request for project preparation for the Federated States of Micronesia amounting to US \$41,000 plus agency support costs of US \$5,330;
- (e) One concept note for a demonstration project in West Asia with no funding requested at the 75th meeting (PRAHA II⁷); and
- (f) Two feasibility studies on district cooling in Egypt and Kuwait with a total request of US \$200,000 including agency support costs (i.e. US \$100,000 per study), which are contained in the 2015 work programme amendments of UNEP⁸ and UNIDO⁹.

18. The breakdown of all the funding requests is summarized in Table 1.

Table 1. Overview of submission of demonstration projects and feasibility studies for district cooling

Country (document number)	Agency	Sector	Proposals/concepts considered at the 74 th meeting (US \$)		Fund requested (US\$)
			Approved project preparation	Estimated cost of full project at 74 th meeting	
Projects submitted to the 75th meeting					
China (ExCom/75/41)	UNDP	RAC	24,000	2,500,000	2,412,263
Colombia (ExCom/75/42)	UNDP	Foam	n/a	459,450	282,480
Egypt (ExCom/75/45)	UNDP	Foam	n/a	340,000	340,000
Morocco (ExCom/75/58)	UNIDO	Foam	40,000	250,000	280,500
Saudi Arabia (ExCom/75/64)	UNIDO	Foam	30,000	240,000	274,016
South Africa (ExCom/75/66)	UNIDO	Foam	40,000	400,000	372,366
Thailand (ExCom/75/68)	World Bank	Foam	30,000	1,046,100	355,905
Colombia (ExCom/75/42)	UNDP	RAC	n/a	n/a	500,000
Federated states of Micronesia (ExCom/75/28)	Japan	RAC	n/a	n/a	41,000
Saudi Arabia (ExCom/75/64)	World Bank	RAC	n/a	n/a	1,306,800

⁷ Promoting refrigerant alternatives for countries with high-ambient temperature. Concept note is found in UNEP business plan for 2016-2018 (UNEP/OzL.Pro/ExCom/75/24)

⁸ UNEP/OzL.Pro/ExCom/75/30

⁹ UNEP/OzL.Pro/ExCom/75/31

Country (document number)	Agency	Sector	Proposals/concepts considered at the 74 th meeting (US \$)		Fund requested (US\$)
			Approved project preparation	Estimated cost of full project at 74 th meeting	
Regional: West Asia (n/a)*	UNEP	RAC	n/a	n/a	n/a
Cost	n/a	n/a	164,000	n/a	6,165,330
Support costs	n/a	n/a	11,480	n/a	434,033
Total cost	n/a	n/a	175,480	n/a	6,599,363
Projects with approved project preparation funding at the 74th meeting for submission to the 76th meeting					
Costa Rica	UNDP	Asmb	40,000	590,000	n/a
India	UNDP	Foam	30,000	2,300,000	n/a
Kuwait	UNDP	RAC	20,000	300,000	n/a
Maldives	UNDP	Serv	15,000	200,000	n/a
Saudi Arabia	UNIDO	RAC	30,000	1,800,000	n/a
Europe and Central Asia	UNIDO/ Russian Federation	Serv	50,000	n/a	n/a
Tunisia and Argentina	UNIDO	Asmb	60,000	1,000,000	n/a
Global	UNIDO	Serv	150,000	n/a	n/a
Cost	n/a	n/a	395,000	6,190,000	n/a
Support costs	n/a	n/a	27,650	437,300	n/a
Total Cost	n/a	n/a	422,650	6,627,300	n/a
Grand total				13,824,793	
Feasibility studies for district cooling					
Egypt (ExCom/75/30-31)	UNIDO/ UNEP	n/a	n/a	100,000**	100,000**
Kuwait (ExCom/75/30-31)	UNIDO/ UNEP	n/a	n/a	100,000**	100,000**
Total	n/a	n/a	n/a	200,000	200,000

* The concept note for the PRAHA II project estimates that the cost of the project would be US \$750,000 when submitted at the 76th meeting

**Including agency support costs

19. With regard to the demonstration projects submitted to the 75th meeting, five were in the refrigeration and air-conditioning sector and six in the foam sector. Detailed information concerning the projects submitted is contained in individual project documents, the document on bilateral cooperation¹⁰, and the work programme amendments of the implementing agencies.

20. The assessment of the feasibility studies for district cooling for Egypt and Kuwait took into consideration additional information provided by UNEP and UNIDO.

Review of proposals by the Secretariat

21. The Secretariat appreciated the efforts made by Article 5 countries, with the assistance from bilateral and implementing agencies, to develop project proposals on alternative technologies.

22. Following the methodology used at the 74th meeting, the Secretariat undertook an assessment of all of the demonstration projects proposals taking into consideration the following criteria:

- (a) Increase in current know-how with respect to low-GWP alternative technology;
- (b) Added value of the project for established technologies;

¹⁰ UNEP/OzL.Pro/ExCom/75/28

- (c) Description of technology and link to other activities in a country;
- (d) Replicability (i.e., facilitating its introduction in HPMPs);
- (e) Geographical distribution;
- (f) Sector (i.e., refrigeration and air-conditioning, particularly air-conditioning manufacturing, as priority; for the foam sector, the added value as compared to projects completed in stage I of HPMPs);
- (g) Energy efficiency promotion and consideration of other environmental impacts; and
- (h) Commitment from an eligible manufacturing enterprise to undertake the conversion to the alternative technology.

23. The Secretariat provided comments to bilateral and implementing agencies on all the demonstration projects, followed by discussions that clarified outstanding issues. In addition, the Secretariat sought technical advice from independent refrigeration and foam experts. The assessment for each project is contained in Table 2.

Assessment of ODS demonstration projects

24. In considering the demonstration projects submitted to the 75th meeting, the Executive Committee might wish to note the following:

- (a) Two projects in the refrigeration and air-conditioning sector in China (ExCom/75/41) and Colombia (ExCom/75/42) largely comply with the criteria and could be recommended for approval at the 75th meeting;
- (b) One project in the air-conditioning sector in Saudi Arabia (ExCom/75/64) could be reviewed at the 76th meeting, noting that funding for preparation of a similar project in Saudi Arabia was approved for UNIDO for submission to the 76th meeting;
- (c) Three projects on reduced-HFO formulations in the foam sector in Colombia (ExCom/75/42), Saudi Arabia (ExCom/75/64) and Thailand (ExCom/75/68) have similarities in the proposed demonstration activities and are recommended to be jointly discussed;
- (d) Three projects on new equipment/technology in the foam sector in Egypt (ExCom/75/45), Morocco (ExCom/75/58) and South Africa (ExCom/75/66) have similarities in the proposed demonstration activities and are recommended to be jointly discussed;
- (e) One project preparation in the air-conditioning sector in the Federated States of Micronesia, noting that if funding is approved, the full project could be submitted to the 76th meeting (ExCom/75/28); and
- (f) A concept note for PRAHA II project with no funding request for project preparation, noting that the full project proposal would be submitted the 76th meeting.

25. The results of the assessment for each individual demonstration project are summarized in Table 2 per sector:

Table 2. The results of the assessment for demonstration projects

Refrigeration and air-conditioning sector

Document number	ExCom/75/41	
Country	China	
Agency	UNDP	
Project title	Demonstration project for ammonia semi-hermetic frequency convertible screw refrigeration compressor unit in the industrial and commercial refrigeration industry at Fujian Snowman Co. Ltd	
Subsector/application	Industrial/ commercial/ screw compressor	
Alternative(s)	NH ₃ , CO ₂	
PRP approved at 74th meeting	Yes	
Funding requested (US \$)	2,412,263	
Support costs (US \$)	168,858	
Description	<p>The objective is to establish the suitability of NH₃/CO₂ refrigeration system using semi-hermetic compressor for small- and medium-sized ICR systems as a replacement for HCFC-22-based compressors. The demonstration will test and standardize the technology and make it possible to produce the NH₃/CO₂ system on a commercial scale. Prototypes of three modules will be produced and tested in laboratory environment to validate the technology.</p>	Assessment
		<p>The demonstration addresses a priority area for HCFC phase-out and is closely linked with the activities in the HPMP. The success of the demonstration will assist in the introduction of NH₃/CO₂ technology in manufacturing of small- and medium-sized refrigeration equipment used in supermarkets and cold storage. Potential phase out in the enterprise is 359 mt of HCFC-22 consumption per year, if the demonstration is successful. The overall cost of the project is very high (almost 25 per cent of the total US \$10 million available for all projects). The project would offer a good demonstration if the total cost can be reduced.</p>
Document number	ExCom/75/42	
Country	Colombia	
Agency	UNDP	
Project title	Demonstration project for the use of R-290 (propane) as an alternative refrigerant in commercial air conditioning manufacturing at Industrias Thermotar Ltda	
Subsector/application	Commercial AC	
Alternative(s)	R-290	
PRP approved at 74th meeting	No	
Funding requested (US \$)	500,000	
Support costs (US \$)	35,000	
Description	<p>The project will demonstrate the use of HC-290 (propane) in commercial air-conditioning equipment with a capacity between 3.5-17.5 kW, contributing to the elimination of HCFC-22 use in the RAC subsector. The project will design, construct and test prototypes, carry a safety risk assessment, convert a production line for commercial air-conditioning equipment to HC-290. The project includes training for operators and technical assistance to end-users to improve the risk management framework.</p>	Assessment
		<p>Development of HC-290 commercial AC equipment with this cooling capacity would be a novel development. Project output will include a report with lessons learned from the project implementation, and approaches to replicate the technology in other enterprises in the country and the region. Project impact is to achieve the phase-out of 0.73 ODP tonnes (13.27 mt) of HCFC-22 in the beneficiary enterprise (Industrias Thermotar). The enterprise may include design optimization to enhance the energy efficiency of units. Some similarities to the demonstration project in the Philippines submitted but subsequently withdrawn at the 74th meeting, though smaller enterprise, smaller units. Dissemination and replicability of this project appear to be more limited to the regional level.</p>
Document number	(Preparatory funding requested)	
Country	Federated States of Micronesia	
Agency	Japan	

Project title	Demonstration of low GWP technologies performance in air-conditioning applications	
Subsector/application	AC	
Alternative(s)	HFC-32	
PRP approved at 74th meeting	No	
Funding requested (US \$)	41,000	
Support costs (US \$)	5,330	
Description	<p>The project objectives would be to install, monitor and evaluate the performance of HFC-32 AC equipment provided by Daikin (e.g., energy efficiency, cooling of the installed equipment); identify any issues faced during installation and maintenance of equipment; and provide training for technicians servicing this equipment.</p>	Assessment
		<p>The project seeks to address performance parameters of low-GWP based AC equipment already commercially available (i.e. Daikin HFC-32 based AC). The project will focus on characteristics of the equipment that would enable it to withstand the high humidity and heavy salt spray typical to the environment in the country. If successful, possible replication would be in the increased uptake of this equipment initially in the country, and potentially in other island countries where similar issues are faced. The project also includes training which should be part of HPMP rather than demonstration.</p>
Document number	ExCom/75/64	
Country	Saudi Arabia	
Agency	World Bank	
Project title	Demonstration project at air-conditioning manufacturers to develop windows and packaged air-conditioners using lower-GWP refrigerant	
Subsector/application	AC	
Alternative(s)	HFC-32, HC-290	
PRP approved at 74th meeting	No	
Funding requested (US \$)	1,306,800	
Support costs (US \$)	91,476	
Description	<p>The project proposes to build, test, and optimize prototypes of window and packaged air-conditioning (AC) units based on HFC-32 and HC-290 refrigerants; evaluate their energy performance and incremental cost; and disseminate the results to interested manufacturers in Saudi Arabia and other countries. The testing of the prototypes will be carried out in a laboratory.</p>	Assessment
		<p>The demonstration proposes to develop AC equipment prototypes based on HFC-32 and HC-290 and evaluate their performance in high ambient temperature environment. Two enterprises have been identified. One of them was established in 2010 therefore is not eligible for assistance under the Multilateral Fund. Given the remaining HCFC consumption in several AC applications, there is potential for replicability. At the 74th meeting, the Executive Committee approved preparation funding for UNIDO for a demonstration project on promoting HFO-based technologies for AC sector in Saudi Arabia. The potential overlap of this demonstration with UNIDO's proposal as well as PRAHA project and the trials being conducted in the HPMP of Bahrain (ExCom/75/37) with the same technologies should be considered.</p>
Document number	Concept note (ExCom/75/24)	
Country	Regional (West Asia)	
Agency	UNEP/UNIDO	
Project title	Promoting refrigerant alternatives for high ambient countries (PRAHA II)	
Subsector/application	AC	
Alternative(s)	Not specified	
PRP approved at 74th meeting	No	
Funding requested (US \$)	No funding requested to this meeting, estimated cost: US \$750,000	
Support costs (US \$)	n/a	
Description	<p>The project proposes to develop a stage II for the PRAHA</p>	Assessment
		<p>The proposed activities appear to be more suitable for a</p>

<p>project, approved at the 69th meeting, with the aim to assess feasibility of low-GWP refrigerants suitable for countries with high-ambient temperature in air-conditioning applications. PRAHA is building and testing 18 different prototypes for comparison with HCFC and high-GWP HFC-based units and will be completed by the end of 2015. To ensure smooth deployment of alternatives the current project proposes risk assessment for A2L & A3 alternatives; strengthening capacity of local industry in high ambient countries; field testing of AC units with low-GWP; strengthening the capacities of the A/C supply chain network to safely manage units with low-GWP alternatives; promotion of involvement of local research institutes; and assessment of economic implications of deploying low-GWP alternatives.</p>	<p>technical assistance rather than a demonstration project, as it includes capacity building, risk and economic implications assessment. The currently ongoing project is already testing prototypes and doing comparisons with existing units (which in itself is a demonstration). More information is required to fully assess the project proposal in line with decision 72/40.</p>
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Foam sector

Document number	ExCom/75/42	
Country	Colombia	
Agency	UNDP	
Project title	Demonstration project to validate the use of HFOs for discontinuous panels in Article 5 countries through the development of cost-effective formulations	
Subsector/application	Rigid PU foam: discontinuous panels, spray	
Alternative(s)	Reduced HFO-1233zd(E), reduced HFO-1336maam(z)	
PRP approved at 74th meeting	No	
Funding requested (US \$)	282,480	
Support costs (US \$)	19,774	
Description	Assessment	
<p>The project has multiple components including validation of reduced-HFOs formulation for use in polyurethane (PU) discontinuous panels; optimising the cost/performance balance to achieve a similar foam thermal performance to HCFC-141b based formulations; and conducting a cost analysis of different HFO/water formulations versus HCFC-141b-based system. Project activities to be conducted in a systems house include planning, formulation development, testing, analysis of results, field tests and technology replication.</p>	<p>Development of reduced HFO pre-blended polyol formulations will decrease the cost of the polyol systems and make HFOs more economically viable for SMEs. Optimization of the water/blowing agent mixture composition would be a valuable contribution. Results may be replicable in other foam applications in Colombia and other Article 5 countries given the potential increase in performance and possible cost reductions. A systems house and a downstream user have been identified. The systems house selected already participated in a demonstration project for supercritical CO₂ in spray foam. There are similarities between this and the foam demonstration projects submitted for Saudi Arabia and Thailand. Some cost elements appear high.</p>	
Document number	ExCom/75/45	
Country	Egypt	
Agency	UNDP	
Project title	Demonstration of low cost options for the conversion to non-ODS technologies in polyurethane foams at very small users	
Subsector/application	Rigid PU, pour-in-place	
Alternative(s)	methyl formate, methylal	
PRP approved at 74th meeting	No	
Funding requested (US \$)	340,000	
Support costs (US \$)	23,800	
Description	Assessment	
<p>The project proposes to develop a low-cost foam dispensing unit for pour-in-place (PIP) applications that includes an air compressor or explore options for</p>	<p>The demonstration will develop low-cost equipment for use with low-GWP alternatives (i.e. methyl formate and methylal). Equipment manufacturer has not been</p>	

reducing the cost of foam dispensers currently in use; and consider the option of pre-packaging PU foam systems that are sealed, have a long lifetime and can be used upon demand (they are currently in use in Colombia, Mexico, and the United States of America for certain applications) for very small users (VSU).		identified and will be selected through UNDP bidding process. If successful, this equipment may be used in a large number of very small enterprises in several Article 5 countries. It is noted that SMEs in Egypt were already provided technical assistance through stage I of the HPMP.
Document number	ExCom/75/58	
Country	Morocco	
Agency	UNIDO	
Project title	Demonstration of the use of low cost pentane foaming technology for the conversion to non-ODS technologies in polyurethane foams at small and medium enterprises	
Subsector/application	Rigid PU foam: several	
Alternative(s)	Pentane	
PRP approved at 74th meeting	Yes	
Funding requested (US \$)	280,500	
Support costs (US \$)	19,635	
Description The objective of the demonstration is to develop and validate low-cost pentane foaming technology through designing a simple, standardized and easy-to-handle compact foaming machine capable of operating with flammable pentane. The cost reduction will be realized through standardization of equipment, designing movable ventilation systems and the use of pre-blended polyols systems.		Assessment The demonstration addresses the issue of high capital costs that limits the applicability of pentane technology for SMEs. If successful the project has a potential for replication due to a large number of SMEs in several Article 5 countries. Although there is no direct phase-out of HCFCs through the demonstration, the enterprise will be converted using the technology if the demonstration is successful together with other SMEs in stage II of the HPMP in Morocco.
Document number	ExCom/75/64	
Country	Saudi Arabia	
Agency	UNIDO	
Project title	Demonstration project for the phase-out of HCFCs by using HFO as foam blowing agent in the spray foam applications in high ambient temperatures	
Subsector/application	Rigid PU foam: spray	
Alternative(s)	HFO-1233zd(E), HFO-1336mzz(Z)	
PRP approved at 74th meeting	Yes	
Funding requested (US \$)	274,016	
Support costs (US \$)	19,181	
Description The project will demonstrate the use of reduced HFOs pre-blended polyols in the spray foam sector, and explore the feasibility of reducing the operating costs, including optimizing the HFO/water mixture. The project would focus on the application of spray foam in countries with high-ambient temperature.		Assessment The technology will assist in the introduction of low-GWP HFO alternatives in the spray foam sector where high performance non-flammable, low-GWP alternatives are not available. It adds value to the overall promotion of the use of HFOs, including by optimizing the water/HFO mixture composition. It is noted that several similar demonstration projects are being proposed, for Colombia and Thailand. Saudi Arabia has no remaining consumption of HCFC-141b eligible for funding and stage I included technical assistance to the systems house to customize formulations using hydrocarbons and HFOs. Some cost elements appear high.
Document number	ExCom/75/66	
Country	South Africa	
Agency	UNIDO	
Project title	Demonstration project on the technical and economic advantages of the vacuum assisted injection in discontinuous panel's plant retrofitted from HCFC-141b to pentane	

Subsector/application	PU foam	
Alternative(s)	Pentane	
PRP approved at 74th meeting	Yes	
Funding requested (US \$)	372,366	
Support costs (US \$)	26,066	
Description	<p>The project will demonstrate the benefit of application of vacuum-assisted injection (VAI) using cyclopentane as a blowing agent in manufacturing of discontinuous panels for commercial refrigeration equipment at an enterprise in South Africa.</p>	<p>Assessment</p> <p>The project would demonstrate a new technology that will enhance cyclopentane blown technology, an already known and accepted low-GWP technology. VAI would likely result in technology enhancements independent of the blowing agent, suggesting the technology may constitute an upgrade. The proposed demonstration component has been used in several countries, including at least one Article 5 country. All the eligible consumption of HCFC-141b in South Africa has been funded in stage I HPMP and South Africa will implement a ban on HCFC-141b at least one year before the conversion would take place.</p>
Document number	ExCom/75/68	
Country	Thailand	
Agency	World Bank	
Project title	Demonstration project at foam system houses to formulate pre-blended polyol for spray polyurethane foam applications using low-global warming potential blowing agent	
Subsector/application	Rigid PU foam: several including spray	
Alternative(s)	Reduced HFO-1233zd (E), HFO-1336mzzz(Z), pre-blended HC, reduced HFC-245fa	
PRP approved at 74th meeting	Yes	
Funding requested (US \$)	355,905	
Support costs (US \$)	24,913	
Description	<p>The demonstration includes the development of formulations of pre-blended polyol using HFOs for SMEs in polyurethane (PU) spray foam sector; validating the use of HFOs co-blown with CO₂ for spray foam; optimization of the HFC-245fa/HFO ratio to get a similar thermal performance to that of HCFC-141b; and preparation of cost analysis for the different HFC/HFO formulations versus the HCFC-141b-based systems.</p>	<p>Assessment</p> <p>The development and testing of HFO co-blown with CO₂ will assist in the introduction of this new technology for SMEs in the spray foam sector where high performance non-flammable, low-GWP alternatives are not available. Reduced formulations of HFOs with CO₂, if technically feasible, could increase performance of using only CO₂ and reduce the operating cost of using only HFO. The replicability potential is high given the amount of spray foam enterprises in Thailand as well as China, Indonesia, Viet Nam and the Philippines. There will be a phase out of 35.6 mt of HCFC 141b after successful implementation of the project. The demonstration includes the test of one formulation using HFO and HFC-245fa justified by the need to have a transition formulation while the supply of HFO is limited and prices are high. The project could be considered without the HFC formulation and together with the demonstration projects submitted for Colombia and Saudi Arabia.</p>

Overview of costs of the demonstration projects

26. The current funding requested of US \$6,599,363 (including agency support costs) together with the preparatory funding approved for projects at the 74th meeting of US \$598,130 is below the US \$10 million funding available as per decision 72/40. However, there are still eight projects with preparatory funding approved that are due to the 76th meeting with an estimated cost of US \$6,627,300 (including agency support

costs) for six of them. The total amount of funding already approved or (to be) requested (including project preparation funding and agency support costs) is US \$13,824,793, which surpasses the amount set aside for demonstration projects by US \$3,824,793. This does not include the estimated cost of PRAHA II project of US \$750,000 and three other projects where full costs are yet to be determined.

Secretariat's recommendation

27. The Executive Committee may wish to consider the assessment on the proposals for demonstration projects for low-GWP alternatives to HCFCs contained in document UNEP/OzL.Pro/ExCom/75/27, for selecting the demonstration projects for low-GWP alternatives to HCFCs to be implemented within the funding levels established under decision 72/40.

Projects and activities submitted for blanket approval

28. Annex I to the present document lists 123 projects and activities totalling US \$18,216,848 including support costs that are recommended for blanket approval. The approval of these projects by the Executive Committee 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.

Investment projects for individual consideration

29. Seventy-four projects/activities, totalling US \$134,777,008 including support costs, after the review by the Secretariat, are proposed for individual consideration. To facilitate the Executive Committee's consideration of the investment projects for individual consideration, the Secretariat has classified the projects by sector, and has grouped them according to the issues, as shown in Table 3. Table 3 also includes a section on the projects to demonstrate low-GWP technologies listed on Table 1.

Table 3. Projects submitted for individual consideration

Country	Project	Agency	ExCom	Issue
Projects to demonstrate low-GWP technologies				
Several	Low-GWP demonstration projects	Several	Table 1 above	Demonstration projects to be selected based on the assessment presented above
HPMP stage II				
Brazil	HCFC phase-out management plan stage II - first tranche	UNDP/UNIDO/ Germany	75/40	Pending agreed costs for the project
Colombia	HCFC phase-out management plan stage II - first tranche	UNDP/UNEP/ Germany	75/42	All technical and capital cost issues agreed but operating costs for reduced HFO formulations are uncertain; complete ban on HCFC-141b is proposed while there remains eligible consumption; accelerated phase-out for non-LVC countries
Guyana	HCFC phase-out management plan stage II - first tranche	UNEP/UNDP	75/47	All technical and cost issues agreed; stage II of the HPMP
Lebanon	HCFC phase-out management plan stage II - first tranche	UNDP	75/52	All technical and cost issues agreed; accelerated phase-out for non-LVC countries
Oman	HCFC phase-out management plan stage II - first tranche	UNIDO/UNEP	75/61	All technical and cost issues agreed; ban of HCFC-141b in imported pre-blended polyols delayed
Sudan	HCFC phase-out management plan stage II - first tranche	UNIDO	75/67	All technical and cost issues agreed; stage II of the HPMP

Country	Project	Agency	ExCom	Issue
HPMP stage I				
Botswana	HCFC phase-out management plan stage I - first tranche	UNEP/UNIDO	75/39	All technical and cost issues agreed; stage I of the HPMP
Libya	HCFC phase-out management plan stage I - first tranche	UNIDO	75/53	All technical and cost issues agreed; stage I of the HPMP; potential non-compliance with the Protocol pending action plan approval at XXVII Meeting of the Parties
HPMP tranche request				
Bahrain	HCFC phase-out management plan stage I – second tranche	UNEP/UNIDO	75/37	Less than 20 per cent disbursement
Bolivia (Plurinational State of)	HCFC phase-out management plan stage I – third tranche	UNIDO	75/38	Data discrepancies; revised Agreement in light of change of implementing agency at 74th meeting
Brazil	HCFC phase-out management plan stage I – fifth and last tranche	UNDP/Germany	75/40	Return of funds from non-eligible enterprises
China	HCFC phase-out management plan stage I – fifth and last tranche	UNDP/UNIDO/ /The World Bank/ Germany	75/41	PU, XPS, RAC, ICR above US \$5 million
Democratic People’s Republic of Korea	HCFC phase-out management plan stage I – second tranche	UNIDO/UNEP	75/44	Transfer of UNEP’s component to UNIDO
Guatemala	HCFC phase-out management plan stage I – third tranche	UNIDO/UNEP	75/46	Non-compliance with HCFC consumption in 2013
Indonesia	HCFC phase-out management plan stage I – third tranche	UNDP/ UNIDO/World Bank/Australia	75/49	Potential return of funds and potential revised Agreement; conversion to high-GWP alternatives
Jordan	HCFC phase-out management plan stage I – second tranche	UNIDO/World Bank	75/50	Revised agreement resulting from a bankruptcy and return of associated funds, of tranche 2 of stage I
Malaysia	HCFC phase-out management plan stage I – third tranche	UNDP	75/54	Withdrawal of a technical assistance project
Maldives	HCFC phase-out management plan stage I – third tranche	UNEP/UNDP	75/55	Use of a high GWP alternative for retrofitting in the fishery sector
Peru	HCFC phase-out management plan stage I – second tranche	UNDP/UNEP	75/62	Revised work plan for the second and subsequent tranches of stage I
Saudi Arabia	HCFC phase-out management plan stage I – third tranche	UNIDO/UNEP	75/64	Lack of a signed agreement for servicing sector activities; customs clearance of equipment
Venezuela (Bolivarian Republic of)	HCFC phase-out management plan stage I – fourth and final tranche	UNIDO/UNEP	75/73	Transfer of UNEP’s component to UNIDO
Viet Nam	Stage I – third tranche	World Bank	75/74	Bankrupt enterprise and possible replacement; potential return of funds or revised Agreement

List of projects and activities recommended for blanket approval

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Annex I

Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
ALBANIA					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, third tranche)	UNEP		\$23,000	\$2,990	\$25,990
HCFC phase-out management plan (stage I, third tranche)	UNIDO		\$40,000	\$3,600	\$43,600
	Total for Albania		\$63,000	\$6,590	\$69,590
ANGOLA					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, third tranche)	UNDP	1.6	\$31,111	\$2,800	\$33,911
<i>Noted that the Agreement had been updated to reflect the extension of stage I of the HPMP from 2015 to 2016.</i>					
Preparation of a HCFC phase-out management plan (stage II)	UNDP		\$60,000	\$4,200	\$64,200
	Total for Angola	1.6	\$91,111	\$7,000	\$98,111
BAHAMAS					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$20,000	\$2,600	\$22,600
<i>Noted that eligible funding (US \$40,000) was reduced by 50 per cent to account for surveys funded outside the Multilateral Fund.</i>					
	Total for Bahamas		\$20,000	\$2,600	\$22,600
BAHRAIN					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$60,000	\$7,800	\$67,800
Survey of ODS alternatives at the national level	UNIDO		\$50,000	\$4,500	\$54,500
	Total for Bahrain		\$110,000	\$12,300	\$122,300
BANGLADESH					
REFRIGERATION					
Preparation of project proposal					
Preparation for HCFC phase-out investment activities (stage II) (refrigeration and air-conditioning sector)	UNDP		\$80,000	\$5,600	\$85,600

List of projects and activities recommended for blanket approval

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage II)	UNEP		\$30,000	\$3,900	\$33,900
Preparation of a HCFC phase-out management plan (stage II)	UNDP		\$30,000	\$2,100	\$32,100
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNDP		\$55,000	\$4,950	\$59,950
<i>Noted that eligible funding (US \$110,000) was reduced by 50 per cent to account for surveys funded outside the Multilateral Fund.</i>					
Total for Bangladesh			\$195,000	\$16,550	\$211,550
BARBADOS					
PHASE-OUT PLAN					
HCFC phase out plan					
Verification report on the implementation of the HCFC phase-out management plan	UNEP		\$30,000	\$3,900	\$33,900
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					
SEVERAL					
Ozone unit support					
Renewal of institutional strengthening project (phase VI: 11/2015-10/2017)	UNEP		\$149,760	\$0	\$149,760
Total for Barbados			\$179,760	\$3,900	\$183,660
BELIZE					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$40,000	\$5,200	\$45,200
Total for Belize			\$40,000	\$5,200	\$45,200
BENIN					
SEVERAL					
Ozone unit support					
Renewal of institutional strengthening project (phase IX: 1/2016-12/2017)	UNEP		\$85,000	\$0	\$85,000
Total for Benin			\$85,000		\$85,000

List of projects and activities recommended for blanket approval

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
BOSNIA AND HERZEGOVINA					
PHASE-OUT PLAN					
HCFC phase out plan					
Verification report for stage I of HCFC phase-out management plan	UNIDO		\$30,000	\$2,700	\$32,700
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					
Total for Bosnia and Herzegovina			\$30,000	\$2,700	\$32,700
BRAZIL					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase VIII: 12/2015-11/2017)	UNDP		\$449,280	\$31,450	\$480,730
Total for Brazil			\$449,280	\$31,450	\$480,730
BRUNEI DARUSSALAM					
PHASE-OUT PLAN					
HCFC phase out plan					
Verification report on the implementation of the HCFC phase-out management plan	UNEP		\$30,000	\$3,900	\$33,900
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					
Total for Brunei Darussalam			\$30,000	\$3,900	\$33,900
BURUNDI					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase VII: 1/2015-12/2017)	UNEP		\$85,000	\$0	\$85,000
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$70,000	\$9,100	\$79,100
Total for Burundi			\$155,000	\$9,100	\$164,100
CAMEROON					
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage II)	UNIDO		\$70,000	\$4,900	\$74,900

List of projects and activities recommended for blanket approval

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase X: 1/2016-12/2017)	UNEP		\$178,601	\$0	\$178,601
Technical assistance/support					
Survey of ODS alternatives at the national level	UNIDO		\$110,000	\$9,900	\$119,900
Total for Cameroon			\$358,601	\$14,800	\$373,401
CAPE VERDE					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase V: 1/2016-12/2017)	UNEP		\$85,000	\$0	\$85,000
Total for Cape Verde			\$85,000		\$85,000
CHAD					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase VII: 1/2016-12/2017)	UNEP		\$85,000	\$0	\$85,000
Total for Chad			\$85,000		\$85,000
CHINA					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, fifth tranche) (refrigeration servicing sector including enabling programme)	UNEP		\$786,000	\$87,960	\$873,960
<p><i>The Government of China and UNEP were requested to submit progress reports on a yearly basis on the implementation of the work programme associated with the final tranche until the completion of the project, and the project completion report to the first meeting of the Executive Committee in 2018. The Treasurer was requested to offset future transfers to UNEP by US \$3,148, representing interest accrued by the Government of China in 2012, 2013 and 2014 from funds previously transferred for the implementation of the refrigeration servicing sector plan and the national enabling programme for China, as per decision 69/24.</i></p>					

List of projects and activities recommended for blanket approval

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
HCFC phase-out management plan (stage I, third tranche) (solvent sector) <i>The Government of China and UNDP were requested to submit progress reports on a yearly basis on the implementation of the work programme associated with the final tranche until the completion of the project, verification reports until approval of stage II, and the project completion report to the first meeting of the Executive Committee in 2018. The Treasurer was requested to offset future transfers to UNDP by US \$12,384, representing interest accrued by the Government of China in 2013 and 2014 from funds previously transferred for the implementation of the solvent sector plan for China as per decision 69/24.</i>	UNDP		\$500,000	\$35,000	\$535,000
HCFC phase-out management plan (stage I, fifth tranche) (refrigeration servicing sector including enabling programme) <i>The Government of China and UNEP were requested to submit progress reports on a yearly basis on the implementation of the work programme associated with the final tranche until the completion of the project, and the project completion report to the first meeting of the Executive Committee in 2018. The Treasurer was requested to offset future transfers to UNEP by US \$3,148, representing interest accrued by the Government of China in 2012, 2013 and 2014 from funds previously transferred for the implementation of the refrigeration servicing sector plan and the national enabling programme for China, as per decision 69/24.</i>	Japan		\$80,000	\$10,400	\$90,400
	Total for China		\$1,366,000	\$133,360	\$1,499,360
COLOMBIA					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level <i>Noted that eligible funding (US \$130,000) was reduced by 50 per cent to account for surveys funded outside the Multilateral Fund.</i>	Germany		\$65,000	\$8,450	\$73,450
	Total for Colombia		\$65,000	\$8,450	\$73,450
COMOROS					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase IX: 1/2016-6/2017)	UNEP		\$85,000	\$0	\$85,000
	Total for Comoros		\$85,000		\$85,000
CONGO					
PHASE-OUT PLAN					
HCFC phase out plan					
Verification report on the implementation of the HCFC phase-out management plan <i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>	UNEP		\$30,000	\$3,900	\$33,900

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase IX: 1/2015-12/2017)	UNEP		\$85,000	\$0	\$85,000
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$70,000	\$9,100	\$79,100
		Total for Congo	\$185,000	\$13,000	\$198,000
CONGO, DR					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$110,000	\$14,300	\$124,300
		Total for Congo, DR	\$110,000	\$14,300	\$124,300
COOK ISLANDS					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$20,000	\$2,600	\$22,600
<i>Noted that eligible funding (US \$40,000) was reduced by 50 per cent to account for surveys funded outside the Multilateral Fund.</i>					
		Total for Cook Islands	\$20,000	\$2,600	\$22,600
COSTA RICA					
PHASE-OUT PLAN					
HCFC phase out plan					
Verification report for stage I of HCFC phase-out management plan	UNDP		\$30,000	\$2,700	\$32,700
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase XI: 1/2016-12/2017)	UNDP		\$179,857	\$12,590	\$192,447
		Total for Costa Rica	\$209,857	\$15,290	\$225,147

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
COTE D'IVOIRE					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, second tranche)	UNEP	3.1	\$190,000	\$22,998	\$212,998
<i>Noted that the Agreement had been updated to reflect the change in agency support costs owing to the new administrative cost regime. Approved on the understanding that if Côte d'Ivoire 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 Cote D'Ivoire		3.1	\$190,000	\$22,998	\$212,998
CUBA					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase X: 1/2016-12/2017)	UNDP		\$190,804	\$13,356	\$204,160
Technical assistance/support					
Survey of ODS alternatives at the national level	UNDP		\$70,000	\$6,300	\$76,300
Total for Cuba			\$260,804	\$19,656	\$280,460
DOMINICA					
PHASE-OUT PLAN					
HCFC phase out plan					
Verification report on the implementation of the HCFC phase-out management plan	UNEP		\$30,000	\$3,900	\$33,900
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					
Total for Dominica			\$30,000	\$3,900	\$33,900
DOMINICAN REPUBLIC					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNDP		\$55,000	\$4,950	\$59,950
<i>Noted that eligible funding (US \$110,000) was reduced by 50 per cent to account for surveys funded outside the Multilateral Fund.</i>					
Total for Dominican Republic			\$55,000	\$4,950	\$59,950

List of projects and activities recommended for blanket approval

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
EQUATORIAL GUINEA					
PHASE-OUT PLAN					
HCFC phase out plan					
Verification report on the implementation of the HCFC phase-out management plan	UNEP		\$30,000	\$3,900	\$33,900
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					
Total for Equatorial Guinea			\$30,000	\$3,900	\$33,900
ETHIOPIA					
PHASE-OUT PLAN					
HCFC phase out plan					
Verification report on the implementation of the HCFC phase-out management plan	UNEP		\$30,000	\$3,900	\$33,900
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					
Total for Ethiopia			\$30,000	\$3,900	\$33,900
FIJI					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$35,000	\$4,550	\$39,550
<i>Noted that eligible funding (US \$70,000) was reduced by 50 per cent to account for surveys funded outside the Multilateral Fund.</i>					
Total for Fiji			\$35,000	\$4,550	\$39,550
GABON					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase IX: 1/2016-12/2017)	UNEP		\$85,000	\$0	\$85,000
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$110,000	\$14,300	\$124,300
Total for Gabon			\$195,000	\$14,300	\$209,300

List of projects and activities recommended for blanket approval

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
GEORGIA					
PHASE-OUT PLAN					
HCFC phase out plan					
Verification report for stage I of HCFC phase-out management plan	UNDP		\$30,000	\$2,700	\$32,700
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					
Total for Georgia			\$30,000	\$2,700	\$32,700
GRENADA					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase V: 1/2016-12/2017)	UNEP		\$85,000	\$0	\$85,000
Total for Grenada			\$85,000		\$85,000
GUINEA-BISSAU					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$40,000	\$5,200	\$45,200
Total for Guinea-Bissau			\$40,000	\$5,200	\$45,200
HAITI					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase IV: 11/2015-10/2017)	UNEP		\$128,000	\$0	\$128,000
Total for Haiti			\$128,000		\$128,000
HONDURAS					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase VIII: 1/2016-12/2017)	UNEP		\$85,000	\$0	\$85,000
Total for Honduras			\$85,000		\$85,000

List of projects and activities recommended for blanket approval

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
INDIA					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, third tranche) (refrigeration servicing sector and enabling activities)	UNEP	3.3	\$86,160	\$10,478	\$96,638
<i>The Government of India, UNDP, UNEP and the Government of Germany were requested to submit progress reports on a yearly basis on the implementation of the work programme associated with the third tranche until the completion of the project, verification reports until approval of stage II, and the project completion report to the second meeting of the Executive Committee in 2017.</i>					
HCFC phase-out management plan (stage I, third tranche) (polyurethane foam sector plan)	UNDP	47.8	\$1,438,490	\$100,694	\$1,539,184
<i>The Government of India, UNDP, UNEP and the Government of Germany were requested to submit progress reports on a yearly basis on the implementation of the work programme associated with the third tranche until the completion of the project, verification reports until approval of stage II, and the project completion report to the second meeting of the Executive Committee in 2017.</i>					
HCFC phase-out management plan (stage I, third tranche) (refrigeration servicing sector)	Germany	24.4	\$199,440	\$22,938	\$222,378
<i>The Government of India, UNDP, UNEP and the Government of Germany were requested to submit progress reports on a yearly basis on the implementation of the work programme associated with the third tranche until the completion of the project, verification reports until approval of stage II, and the project completion report to the second meeting of the Executive Committee in 2017.</i>					
Total for India		75.5	\$1,724,090	\$134,110	\$1,858,200
INDONESIA					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase X: 1/2016-12/2017)	UNDP		\$347,194	\$24,304	\$371,498
Total for Indonesia			\$347,194	\$24,304	\$371,498
IRAQ					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$110,000	\$14,300	\$124,300
Total for Iraq			\$110,000	\$14,300	\$124,300

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
JAMAICA					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase IX: 12/2015-11/2017)	UNEP		\$85,000	\$0	\$85,000
Total for Jamaica			\$85,000		\$85,000
JORDAN					
FOAM					
Preparation of project proposal					
Preparation for HCFC phase-out investment activities (stage II) (foam sector)	IBRD		\$45,000	\$3,150	\$48,150
Preparation for HCFC phase-out investment activities (stage II) (rigid polyurethane foam sector)	UNIDO		\$55,000	\$3,850	\$58,850
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage II)	IBRD		\$70,000	\$4,900	\$74,900
Total for Jordan			\$170,000	\$11,900	\$181,900
KENYA					
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage II)	France		\$60,000	\$7,800	\$67,800
HCFC phase-out management plan (stage I, third tranche)	France		\$176,250	\$21,346	\$197,596
<i>Noted the progress made by the Government of Kenya in improving its licensing and quota system and encouraging the Government of Kenya to continue its efforts to improve it. The Government of Kenya was requested with the assistance from the Government of France to continue improving the licensing and quota system and to report annually on this matter through the progress and financial report submitted to the Executive Committee by the Government of France. Approved on the understanding that if Kenya 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 Kenya			\$236,250	\$29,146	\$265,396
KIRIBATI					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$40,000	\$5,200	\$45,200

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
Total for Kiribati			\$40,000	\$5,200	\$45,200
KUWAIT					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$70,000	\$9,100	\$79,100
Survey of ODS alternatives at the national level	UNIDO		\$50,000	\$4,500	\$54,500
Total for Kuwait			\$120,000	\$13,600	\$133,600
LIBERIA					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase VI: 11/2015-10/2017)	UNEP		\$109,073	\$0	\$109,073
Total for Liberia			\$109,073		\$109,073
LIBYA					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNIDO		\$110,000	\$9,900	\$119,900
Total for Libya			\$110,000	\$9,900	\$119,900
MACEDONIA, FYR					
PHASE-OUT PLAN					
HCFC phase out plan					
Verification report for stage I of HCFC phase-out management plan	UNIDO		\$30,000	\$2,700	\$32,700
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					
HCFC phase-out management plan (phase I, sixth tranche)	UNIDO	0.1	\$82,000	\$6,150	\$88,150
Total for Macedonia, FYR		0.1	\$112,000	\$8,850	\$120,850
MALAYSIA					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase XI: 1/2016-12/2017)	UNDP		\$357,760	\$25,043	\$382,803
Total for Malaysia			\$357,760	\$25,043	\$382,803

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
MALI					
PHASE-OUT PLAN					
HCFC phase out plan					
Verification report on the implementation of the HCFC phase-out management plan	UNEP		\$30,000	\$3,900	\$33,900
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$70,000	\$9,100	\$79,100
Total for Mali			\$100,000	\$13,000	\$113,000
MARSHALL ISLANDS					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$40,000	\$5,200	\$45,200
Total for Marshall Islands			\$40,000	\$5,200	\$45,200
MAURITIUS					
PHASE-OUT PLAN					
HCFC phase out plan					
Verification report for stage I of HCFC phase-out management plan	Germany		\$30,000	\$3,900	\$33,900
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	Germany		\$70,000	\$9,100	\$79,100
Total for Mauritius			\$100,000	\$13,000	\$113,000

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)			C.E. (US\$/kg)
			Project	Support	Total	
MEXICO						
PHASE-OUT PLAN						
HCFC phase out plan						
HCFC phase-out management plan (stage I, fifth tranche) (foam sector plan for systems houses and local customers)	UNDP	30.0	\$1,122,503	\$84,188	\$1,206,691	
<i>The Government of Mexico, UNIDO and UNDP were requested to submit progress reports on a yearly basis on the implementation of the work programme associated with the final tranche until the completion of the project and the project completion report no later than the first meeting of the Executive Committee in 2019. UNIDO and UNDP were requested to include in the next progress report to be submitted along with the request of the second tranche under stage II to the 77th meeting, the complete list of downstream foam enterprises assisted by the Multilateral Fund under stage I, including their HCFC 141b consumption phased out, subsector, baseline equipment and technology adopted, and a report on the destruction of the baseline equipment in Mabe, the closure of HCFC-based manufacturing capacity and the confirmation of project completion.</i>						
HCFC phase-out management plan (stage I, fifth tranche) (refrigeration servicing, technical assistance and monitoring)	UNIDO	1.4	\$226,317	\$16,974	\$243,291	
<i>The Government of Mexico, UNIDO and UNDP were requested to submit progress reports on a yearly basis on the implementation of the work programme associated with the final tranche until the completion of the project and the project completion report no later than the first meeting of the Executive Committee in 2019. UNIDO and UNDP were requested to include in the next progress report to be submitted along with the request of the second tranche under stage II to the 77th meeting, the complete list of downstream foam enterprises assisted by the Multilateral Fund under stage I, including their HCFC 141b consumption phased out, subsector, baseline equipment and technology adopted, and a report on the destruction of the baseline equipment in Mabe, the closure of HCFC-based manufacturing capacity and the confirmation of project completion.</i>						
Total for Mexico		31.4	\$1,348,820	\$101,162	\$1,449,982	
MONTENEGRO						
PHASE-OUT PLAN						
HCFC phase out plan						
HCFC phase-out management plan (stage I, third tranche)	UNIDO		\$98,500	\$7,388	\$105,888	
Total for Montenegro			\$98,500	\$7,388	\$105,888	
MOROCCO						
SEVERAL						
Technical assistance/support						
Survey of ODS alternatives at the national level	UNEP		\$110,000	\$14,300	\$124,300	
Total for Morocco			\$110,000	\$14,300	\$124,300	

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
NAURU					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$40,000	\$5,200	\$45,200
	Total for Nauru		\$40,000	\$5,200	\$45,200
NEPAL					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, second tranche)	UNEP	0.2	\$50,400	\$6,552	\$56,952
<i>Approved on the understanding that if Nepal 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, second tranche)	UNDP	0.1	\$33,600	\$3,024	\$36,624
<i>Approved on the understanding that if Nepal 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 Nepal	0.3	\$84,000	\$9,576	\$93,576
NICARAGUA					
SEVERAL					
Ozone unit support					
Renewal of institutional strengthening project (phase VIII: 4/2016-3/2018)	UNEP		\$85,000	\$0	\$85,000
	Total for Nicaragua		\$85,000		\$85,000
NIGER					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase X: 1/2016-12/2017)	UNEP		\$85,000	\$0	\$85,000
	Total for Niger		\$85,000		\$85,000

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
NIGERIA					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, fifth tranche) (foam sector and refrigeration servicing)	UNDP	56.0	\$299,974	\$22,498	\$322,472
<i>Noted that the Agreement had been updated based on the revised baseline. The Government of Nigeria, UNDP and UNIDO were requested to submit the project completion report of stage I of the HPMP to the second meeting of the Executive Committee in 2017; and a verification report of the country's HCFC consumption in 2015, when submitting stage II of the HPMP for consideration of the Executive Committee.</i>					
HCFC phase-out management plan (stage I, fifth tranche) (refrigeration air-conditioning manufacturing sector)	UNIDO	34.1	\$193,908	\$14,543	\$208,451
<i>Noted that the Agreement had been updated based on the revised baseline. The Government of Nigeria, UNDP and UNIDO were requested to submit the project completion report of stage I of the HPMP to the second meeting of the Executive Committee in 2017; and a verification report of the country's HCFC consumption in 2015, when submitting stage II of the HPMP for consideration of the Executive Committee.</i>					
Total for Nigeria		90.1	\$493,882	\$37,041	\$530,923
NIUE					
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase VI: 12/2015-11/2017)	UNEP		\$85,000	\$0	\$85,000
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$40,000	\$5,200	\$45,200
Total for Niue			\$125,000	\$5,200	\$130,200
PALAU					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$40,000	\$5,200	\$45,200
Total for Palau			\$40,000	\$5,200	\$45,200
PANAMA					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase VII: 12/2015-11/2017)	UNDP		\$191,360	\$13,395	\$204,755
Total for Panama			\$191,360	\$13,395	\$204,755

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
PAPUA NEW GUINEA					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	Germany		\$40,000	\$5,200	\$45,200
Total for Papua New Guinea			\$40,000	\$5,200	\$45,200
PARAGUAY					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNDP		\$70,000	\$6,300	\$76,300
Total for Paraguay			\$70,000	\$6,300	\$76,300
PERU					
PHASE-OUT PLAN					
HCFC phase out plan					
Preparation of a HCFC phase-out management plan (stage II)	UNDP		\$60,000	\$4,200	\$64,200
<i>Noted that UNDP may submit a request for project preparation for investment projects in the foam sector during implementation of stage II of the HPMP for consideration and approval by the Executive Committee.</i>					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNDP		\$110,000	\$9,900	\$119,900
Total for Peru			\$170,000	\$14,100	\$184,100
PHILIPPINES					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	IBRD		\$130,000	\$11,700	\$141,700
Total for Philippines			\$130,000	\$11,700	\$141,700
RWANDA					
PHASE-OUT PLAN					
HCFC phase out plan					
Verification report on the implementation of the HCFC phase-out management plan	UNEP		\$30,000	\$3,900	\$33,900
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
SEVERAL					
Ozone unit support					
Extension of the institutional strengthening project (phase VI: 12/2015-11/2017)	UNEP		\$85,000	\$0	\$85,000
Total for Rwanda			\$115,000	\$3,900	\$118,900
SAINT LUCIA					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$40,000	\$5,200	\$45,200
Total for Saint Lucia			\$40,000	\$5,200	\$45,200
SAINT VINCENT AND THE GRENADINES					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (second tranche)	UNEP		\$140,000	\$18,200	\$158,200
<i>Approved on the understanding that if Saint Vincent and the Grenadines 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 Saint Vincent and the Grenadines			\$140,000	\$18,200	\$158,200
SAMOA					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$20,000	\$2,600	\$22,600
<i>Noted that eligible funding (US \$40,000) was reduced by 50 per cent to account for surveys funded outside the Multilateral Fund.</i>					
Total for Samoa			\$20,000	\$2,600	\$22,600
SENEGAL					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase XI: 1/2016-12/2017)	UNEP		\$194,689	\$0	\$194,689
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$55,000	\$7,150	\$62,150
<i>Noted that eligible funding (US \$110,000) was reduced by 50 per cent to account for surveys funded outside the Multilateral Fund.</i>					
Total for Senegal			\$249,689	\$7,150	\$256,839

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
SEYCHELLES					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (third tranche)	Germany	0.6	\$180,000	\$22,800	\$202,800
<i>Approved on the understanding that verification report on HCFC consumption for 2013 and 2014 would be submitted to the 76th meeting; and if Seychelles 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>					
Verification report for stage I of HCFC phase-out management plan	Germany		\$30,000	\$3,900	\$33,900
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase VII: 11/2015-10/2017)	UNEP		\$85,000	\$0	\$85,000
Total for Seychelles		0.6	\$295,000	\$26,700	\$321,700
SIERRA LEONE					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase VI: 12/2015-11/2017)	UNEP		\$109,824	\$0	\$109,824
Total for Sierra Leone			\$109,824		\$109,824
SOLOMON ISLANDS					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$40,000	\$5,200	\$45,200
Total for Solomon Islands			\$40,000	\$5,200	\$45,200
SUDAN					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening (phase VIII: 12/2015-11/2017)	UNEP		\$186,701	\$0	\$186,701
Technical assistance/support					
Survey of ODS alternatives at the national level	UNIDO		\$110,000	\$9,900	\$119,900
Total for Sudan			\$296,701	\$9,900	\$306,601

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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					
Verification report on the implementation of the HCFC phase-out management plan	UNEP		\$30,000	\$3,900	\$33,900
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$40,000	\$5,200	\$45,200
Total for Suriname			\$70,000	\$9,100	\$79,100
TONGA					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$20,000	\$2,600	\$22,600
<i>Noted that eligible funding (US \$40,000) was reduced by 50 per cent to account for surveys funded outside the Multilateral Fund.</i>					
Total for Tonga			\$20,000	\$2,600	\$22,600
TRINIDAD AND TOBAGO					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, third tranche)	UNDP		\$471,833	\$35,387	\$507,220
<i>Approved on the understanding that if Trinidad and Tobago 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 Trinidad and Tobago			\$471,833	\$35,387	\$507,220
TURKEY					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, second tranche) (refrigeration servicing and monitoring)	UNIDO	30.7	\$1,970,550	\$137,939	\$2,108,489
<i>Approved on the understanding that if Turkey 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>					

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Project Title	Agency	ODP (tonnes)	Funds recommended (US\$)		C.E. (US\$/kg)
			Project	Support	
HCFC phase-out management plan (stage I, second tranche) (technical assistance for small and medium enterprises in the foam sector)	UNIDO	113.3	\$529,450	\$37,061	\$566,511
<i>Approved on the understanding that if Turkey 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 Turkey		144.0	\$2,500,000	\$175,000	\$2,675,000
TUVALU					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$40,000	\$5,200	\$45,200
Total for Tuvalu			\$40,000	\$5,200	\$45,200
URUGUAY					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, fifth tranche)	UNDP	1.9	\$45,004	\$3,375	\$48,379
<i>Noted that in line with decision 65/47(d), the project to phase out HCFC 22 in the refrigeration manufacturing assembly of cold rooms will be submitted as part of the stage II of the HPMP. The Government of Uruguay and UNDP were requested to submit the project completion report of stage I of the HPMP to the second meeting of the Executive Committee in 2017; and a verification report of the country's HCFC consumption in 2015, when submitting stage II of the HPMP for consideration of the Executive Committee.</i>					
SEVERAL					
Ozone unit support					
Extension of institutional strengthening project (phase XI: 1/2016-12/2017)	UNDP		\$193,024	\$13,512	\$206,536
Total for Uruguay		1.9	\$238,028	\$16,887	\$254,915
VANUATU					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	UNEP		\$20,000	\$2,600	\$22,600
<i>Noted that eligible funding (US \$40,000) was reduced by 50 per cent to account for surveys funded outside the Multilateral Fund.</i>					
Total for Vanuatu			\$20,000	\$2,600	\$22,600

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			Project	Support	
VIETNAM					
SEVERAL					
Technical assistance/support					
Survey of ODS alternatives at the national level	IBRD		\$45,000	\$4,050	\$49,050
<i>Noted that the funding had taken into account an on-going survey funded outside the Multilateral Fund.</i>					
Total for Vietnam			\$45,000	\$4,050	\$49,050
ZIMBABWE					
PHASE-OUT PLAN					
HCFC phase out plan					
HCFC phase-out management plan (stage I, third tranche) (refrigeration servicing sector)	Germany		\$112,000	\$13,398	\$125,398
<i>Noted that the ban on imports of HCFC-141b both pure and contained in imported pre blended polyols was postponed from 1 January 2015 to 1 January 2016 as the five foam enterprises completed their conversion to non HCFC-141b technology in July 2015. Approved on the understanding that if Zimbabwe 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>					
Verification report for stage I of HCFC phase-out management plan	Germany		\$30,000	\$3,900	\$33,900
<i>Approved on the understanding that the verification report should be submitted at least 60 days prior to the applicable Executive Committee meeting where the next funding tranche for its HPMP is being sought.</i>					
Total for Zimbabwe			\$142,000	\$17,298	\$159,298
GRAND TOTAL		348.5	\$16,937,417	\$1,279,431	\$18,216,848