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EXECUTIVE COMMITTEE OF
THE MULTILATERAL FUND FOR THE
IMPLEMENTATION OF THE MONTREAL PROTOCOL
Eighty-sixth Meeting
Montreal, 2-6 November 2020
Postponed to 8-12 March 2021¹

PROGRESS REPORT OF UNIDO AS AT 31 DECEMBER 2019

1. This document presents the progress report of UNIDO as at 31 December 2019.²

Introduction

2. The progress report of UNIDO includes the status of implementation of projects, including 35 HFC-related projects that have been funded under the additional voluntary contributions by 17 non-Article 5 Parties to provide fast-start support for implementation of the Kigali Amendment.

3. The Secretariat reviewed the status of implementation of each ongoing project on a country-by-country basis, taking into account implementation delays that have occurred with respect to planned completion dates that had been reported in 2019, the potential impact of these delays on the phase-out of controlled substances and the rate of planned disbursements. The analysis contained in the present document is based on ODP tonnes for all controlled substances (including HFCs which should be measured in mt CO₂-eq).³

Scope of the document

4. This document consists of the following parts:

Part I: Projects approved under the regular contributions to the Multilateral Fund. It presents a summary of progress in implementation of projects for 2019 and cumulative since 1991 addressing all controlled substances under the Montreal

¹ Due to coronavirus disease (COVID-19)

² The progress report is attached to the present document. The data has been included in the Consolidated Progress Report database that is available upon request.

³ In line with decision 84/12(a)(iv), the measurement for HFCs in mt CO₂-eq. would be included in the progress reports submitted from the 88th meeting. This issue is discussed in the consolidated progress report (UNEP/OzL.Pro/ExCom/86/15).

Protocol, including Annex F substances (HFCs); it contains a review on the status of implementation of each ongoing⁴ project at the country level; and it identifies projects with implementation delays and the potential impact on the phase-out of controlled substances, and projects with outstanding issues for consideration by the Executive Committee.

Part II: Projects approved under the additional voluntary contributions for fast-start support for HFC phase-down. It provides a summary on the status of implementation of HFC phase-down projects funded under the voluntary contributions.⁵

Recommendation.

5. The document also contains the following annexes:

Annex I: A summary status and a recommendation for each ongoing project with outstanding issues for consideration by the Executive Committee.

Annex II: An analysis of the progress report.

PART I: PROJECTS APPROVED UNDER THE REGULAR CONTRIBUTIONS TO THE MULTILATERAL FUND

Summary of progress in implementation of projects for 2019 and cumulative

6. Implementation of projects and activities by UNIDO for 2019 and cumulative since 1993⁶ up to 31 December 2019, is summarized as follows:

- (a) **Phase-out:**⁷ In 2019, 219 ODP tonnes of consumption of controlled substances were phased out and an additional 148.7 ODP tonnes of consumption of controlled substances were approved for phase-out. Since 1993, 63,048 ODP tonnes of consumption of controlled substances and 17,381 ODP tonnes of production of controlled substances had been phased out, of an expected total of 81,941 ODP tonnes from projects approved (excluding cancelled and transferred projects);
- (b) **Disbursements/approvals:** In 2019, US \$18.56 million was disbursed and US \$23.58 million was planned for disbursement based on the 2018 progress report, representing a rate of disbursement of 79 per cent of that planned. Cumulatively, US \$740.69 million had been disbursed out of the total US \$839.66 million approved for disbursement (excluding agency support costs), representing a rate of disbursement of 88 per cent. In 2019, US \$19.51 million was approved for implementation;

⁴ Ongoing projects are all projects that were under implementation as at 31 December 2019. Key indicators of progress include: percentage of funds disbursed and percentage of projects that have begun disbursing funds; funding expected to be disbursed by the end of the year as a percentage of the approved funding; the average length of projected delay in implementation; and information provided in the remarks column in the progress report database.

⁵ In line with decision 84/12(b), a detailed progress report providing an overview of the objectives, status of implementation, key findings and lessons learned, the amounts of HFC phased out where applicable, the level of funds approved and disbursed and potential challenges in completing the projects and activities, is presented in the consolidated progress report (UNEP/OzL.Pro/ExCom/86/15).

⁶ UNIDO became an implementing agency in 1993.

⁷ The phase-out includes approvals for HFC investment projects of 118.7 mt (211,512 mt CO₂-eq.).

- (c) **Cost-effectiveness (in ODP):**⁸ Since 1993, the average cost-effectiveness of investment projects approved leading to a permanent reduction in consumption was US \$11.12/kg and for all production sector activities (CFC and methyl bromide (MB)) was US \$2.90/kg. The average cost-effectiveness of investment projects per ODP tonne was US \$7.06/kg for completed projects and US \$48.02/kg for ongoing projects;⁹
- (d) **Number of projects completed:** In 2019, 33 projects were completed. Since 1993, 1,556 projects of the 1,793 projects approved (excluding closed or transferred projects) were completed, representing a completion rate of 87 per cent;
- (e) **Speed of delivery – investment projects:** Projects that were completed in 2019 were completed on average 53 months after their approval. Since 1993, the average time for completion of investment projects has been 38 months after their approval. First disbursements under these projects occurred, on average, nine months after they had been approved;
- (f) **Speed of delivery – non-investment projects:** Projects that were completed in 2019 were completed on average 37 months after their approval. Since 1993, the average time for completion of non-investment projects has been 35 months after their approval. First disbursements under these projects occurred, on average, ten months after they had been approved;
- (g) **Project preparation:** Of the 531 project preparation activities approved by the end of 2019, 475 have been completed, leaving 56 ongoing activities. In 2019, three preparation activities have been completed;
- (h) **Implementation delays:** A total of 237 projects were under implementation at the end of 2019, experiencing, on average, a delay of 26 months. Forty-seven of these projects are classified as “projects with implementation delays”¹⁰ that are subject to the procedures of project cancellation (as demonstration projects, project preparation, and IS are not subject to those procedures); and
- (i) **Multi-year agreements (MYAs):** In 2019, one MYA for ODS phase-out, one MYA for MB production phase-out and 70 MYAs for HCFC phase-out management plans (HPMPs) were under implementation. Since 1993, 157 MYAs have been approved and 85 MYAs have been completed, representing a completion rate of 54 per cent.

Project implementation progress in 2019

7. Further to the review process, a number of issues were discussed and satisfactorily addressed, except for 47 projects classified as projects with implementation delays (including 45 projects related to components of MYAs that are subject to procedures for project cancellation, in line with decision 84/45(c); one project for the phase-out of MB; and one national phase-out plan). Annex I to the present document presents those projects classified with implementation delays, and the Secretariat’s recommendation requesting the submission of a report to the 87th meeting.

⁸ Including 118.7 mt of HFC investment projects.

⁹ The higher value of the cost-effectiveness for ongoing projects is largely due to the lower ODP values of HCFCs but also due to the means of assigning phase-out by agencies.

¹⁰ Projects approved over 18 months with disbursement less than 1 per cent, or projects that had not been completed 12 months after the proposed completion date in the progress report (decision 22/61) (as demonstration projects, project preparation, and institutional strengthening (IS) are not subject to those procedures).

8. In addition, a number of issues were identified regarding projects or tranches of MYAs for the phase-out of HCFCs; one chiller project; and IS renewal projects. These issues are also presented in Annex I to the present document. For each of these projects, a brief description on the status of implementation and the outstanding issues are presented and a recommendation is proposed for consideration by the Executive Committee.

9. Details of progress in implementation of projects associated with the HPMPs for Bolivia (Plurinational State of),¹¹ Brazil,¹² Ecuador,¹³ the Gambia,¹⁴ Guatemala,¹⁵ Honduras,¹⁶ the Islamic Republic of Iran,¹⁷ Myanmar,¹⁸ Nicaragua,¹⁹ North Macedonia,²⁰ Oman,²¹ Qatar,²² Rwanda,²³ the Sudan,²⁴ Turkmenistan,²⁵ Uganda,²⁶ and Zambia,²⁷ and reports on projects with specific reporting requirements²⁸ associated with Argentina (HPMP), the Democratic People's Republic of Korea (HPMP), Egypt (HPMP), Lebanon (ODS disposal), Libya (HPMP), Mexico (HPMP), and Tunisia (HPMP), and China (HPMP, MB production phase-out plan),²⁹ have been submitted to the 86th meeting. Recommendations for outstanding issues for these projects, including approval of extension requests, if any, are addressed in the relevant sections of these documents. The issues relating to the HPMPs for Bangladesh, Mali, Mauritania, Nigeria and South Sudan, are addressed in the document on tranche submission delays.³⁰ Outstanding issues for the remaining ongoing projects not included in Annex I to the present document, and requests for extension of date of completion, are addressed below.

10. Of the 166 ongoing projects, excluding IS and project preparation, 76 projects have revised planned dates of completion since the 2018 progress report.

11. In line with decision 82/11(c)(ii), the Secretariat noted that renewal of the IS project for Syrian Arab Republic had not been submitted for the last two years. UNIDO explained that the main reason for the delay is the large balance still available mainly on account of slow progress in implementation; however, it is planning to submit the renewal request in 2021.

12. In line with decision 82/11(b),³¹ UNIDO has requested the extension of the duration of three projects relating to HPMPs for two countries, implementation of which is beyond the completion date as per their respective Agreements with the Executive Committee; one project related to HCFC phase-out;

¹¹ UNEP/OzL.Pro/ExCom/86/39

¹² UNEP/OzL.Pro/ExCom/86/41

¹³ UNEP/OzL.Pro/ExCom/86/47

¹⁴ UNEP/OzL.Pro/ExCom/86/51

¹⁵ UNEP/OzL.Pro/ExCom/86/52

¹⁶ UNEP/OzL.Pro/ExCom/86/53

¹⁷ UNEP/OzL.Pro/ExCom/86/55

¹⁸ UNEP/OzL.Pro/ExCom/86/62

¹⁹ UNEP/OzL.Pro/ExCom/86/64

²⁰ UNEP/OzL.Pro/ExCom/86/65

²¹ UNEP/OzL.Pro/ExCom/86/66

²² UNEP/OzL.Pro/ExCom/86/70

²³ UNEP/OzL.Pro/ExCom/86/72

²⁴ UNEP/OzL.Pro/ExCom/86/75

²⁵ UNEP/OzL.Pro/ExCom/86/78

²⁶ UNEP/OzL.Pro/ExCom/86/79

²⁷ UNEP/OzL.Pro/ExCom/86/81

²⁸ UNEP/OzL.Pro/ExCom/86/21

²⁹ UNEP/OzL.Pro/ExCom/86/21/Add.1

³⁰ UNEP/OzL.Pro/ExCom/86/24

³¹ Any request for an extension would have to be submitted for approval by the Executive Committee in advance of the project completion date, noting that no new commitments were to be made before the extension had been approved.

one metered-dose inhaler project; one chiller project; and two projects related to the phase-out of ODS. The reasons for the requests for extension of completion dates for these projects are shown in Table 1.

Table 1. Projects for which an extension of the completion dates has been requested

Country/Project code	Project title	Disbursement (%)	Status/issues	Original date of completion	Date of completion requested
Egypt EGY/ARS/50/INV/92	Phase-out of CFC consumption in the manufacture of aerosol metered-dose inhalers (MDIs)	98	Delays in completing pending activities including test data assessment and finalisation of registration process due to delays in final approval steps	30 Jun 2020	31 Dec 2020
Iraq IRQ/PHA/58/INV/09	National phase-out plan (first tranche)	89	Delays due to logistics issues on obtaining visas for international consultants followed by COVID-19 travel restrictions. Additional time is required for consultant or contractor to travel to complete installation, trial runs and commissioning	31 Dec 2019	30 Jun 2021
Iraq IRQ/REF/57/INV/07	Replacement of refrigerant CFC-12 with isobutane and foam blowing agent CFC-11 with cyclopentane in the manufacture of domestic refrigerators and chest freezers at Light Industries Company	89			
Iraq IRQ/PHA/74/INV/23	HCFC phase-out management plan (stage I, second tranche) (refrigeration servicing sector)	19	The laboratories associated with the reclamation centres are not fully operational due to delays in completion of procurement and delivery of equipment	31 Dec 2020	31 Dec 2021
Iraq IRQ/PHA/84/INV/29	HCFC phase-out management plan (stage I, third tranche) (refrigeration servicing sector)	0	Procurement of equipment for servicing training is expected to be completed by the end of 2020; all remaining activities are therefore expected to be completed by December 2021	31 Dec 2020	31 Dec 2021
Serbia YUG/PHA/84/INV/51	HCFC phase-out management plan (stage I, fourth tranche)	0	The last tranche under stage I was approved at the 84 th meeting; activities are being delayed due to COVID-19 restrictions	31 Dec 2020	30 Jun 2021
Syrian Arab Republic SYR/REF/62/INV/103	Phase-out of HCFC-22 and HCFC-141b from the manufacture of unitary air-conditioning equipment and rigid polyurethane insulation panels at Al Hafez Group	28	Delays due to country situation and COVID-19 restrictions; extension to 31 December 2021 needed for completing the remaining activities relating to purchase, installation and commissioning of equipment	31 Dec 2020	31 Dec 2021

Country/Project code	Project title	Disbursement (%)	Status/issues	Original date of completion	Date of completion requested
Global GLO/REF/80/DEM/344	Global chiller replacement project (Argentina)	9	Financial situation in the country has delayed finalization of the financial terms with beneficiaries on account of changes in the borrowing rates	31 Dec 2020	31 Dec 2021

13. The Executive Committee may wish to approve the extension of the projects contained in Table 1 above, to the date indicated in the last column.

Stage I of the HPMP for Saudi Arabia

14. Stage I of the HPMP for Saudi Arabia, approved at the 68th meeting³² and under implementation by UNIDO (lead agency) and UNEP (cooperating agency), had experienced major implementation delays. At its 84th meeting, the Executive Committee considered document UNEP/OzL.Pro/ExCom/84/25 on Tranche submission delays and urged the Government of Saudi Arabia through UNIDO to submit to the 85th meeting (i) a comprehensive report demonstrating that the conditions specified in Appendix 8-A of its Agreement had been met;³³ (ii) the request for the fifth (2016) tranche, with a revised plan of action to take into account the reinstatement of the funds that had been returned to the 81st meeting in line with decisions 77/54(f) and 81/2(a)(xii) and the reallocation of the 2016 and subsequent tranches; and (iii) the verification of consumption for 2016, 2017, 2018 and 2019. The Committee also decided that if this information was not received to the 85th meeting, stage I of the HPMP would be cancelled and the country could submit a request for project preparation for stage II (decision 84/45(b)).³⁴ On 3 February 2020, the Secretariat sent a letter to the Government of Saudi Arabia informing the country of the decision adopted by the Committee.

15. At the 85th meeting, UNIDO did not submit the requested information, and therefore, the project should be cancelled. During the review process of the 2019 progress reports, the Secretariat had extensive discussions with UNIDO and UNEP on the cancellation of the project components of the HPMP (eight under UNIDO and three under UNEP).³⁵ During the discussions, the Secretariat was informed that in the case of the UNIDO components, no new activities would be initiated, and projects would be completed and balances would be returned as soon as possible.

³² Four stand-alone extruded polystyrene foam projects were approved at the 62nd meeting and subsequently subsumed in stage I of the HPMP.

³³ The conditions specified in Appendix 8-A are: (a) banning of disposable refrigerant containers for HCFC refrigerants; (b) introducing a certification scheme for refrigeration technicians, requiring certain standards of training and equipment; (c) introducing a system regulating access to refrigerant only to entities where certified technicians are carrying out and supervising the work on servicing refrigeration and air-conditioning systems, (i) taking into account the rate of increase of certified personnel, and ensuring that training efforts are carried out timely; and (ii) with means to discourage that supervising of uncertified personnel by certified technicians is carried out only in a perfunctory manner; and (d) developing and submitting with the 2015 tranche request a strategy to strongly encourage end-users of refrigeration and air-conditioning equipment to carry out leak detection and repair measures in case of refrigerant losses from refrigeration and air-conditioning systems, and committing to implement the strategy during the remainder of the HPMP without additional cost.

³⁴ The decision on stage I of the HPMP for Saudi Arabia is contained in Annex IX to the Report of the 84th meeting (UNEP/OzL.Pro/ExCom/84/75).

³⁵ Issues related to the three components under UNEP implementation are presented in document UNEP/OzL.Pro/ExCom/86/18.

16. The eight project components under UNIDO's implementation include three activities in the refrigeration servicing sector and five activities relating to conversion project and technical assistance in the foam sector, as shown in Table 2. The Secretariat noted that:

- (a) UNIDO agreed to return the remaining balances relating to the three servicing sector projects (SAU/PHA/68/INV/17, SAU/PHA/72/INV/20 and SAU/PHA/75/INV/25) to the 86th meeting;
- (b) In the case of the five projects relating to the foam sector, it was agreed that UNIDO would: identify a buyer for equipment procured for Al-Watania Plastics (SAU/FOA/62/INV/13); identify another eligible enterprise that wishes to use the equipment procured for Hesco, which decided not to participate in the project due to a fire incident at their facility, or auction the equipment if no eligible enterprise could be found (SAU/PHA/68/INV/19); install equipment that have already been procured in Jundi Systems House at their new facility (SAU/PHA/72/INV/21); install equipment that were procured in Al Mutlak and Sahari (SAU/PHA/75/INV/24); and complete training for spray foam enterprises (SAU/PHA/77/INV/31). It was further agreed that UNIDO would submit an annual progress report on the implementation of remaining activities under stage I, to the last meeting of the Executive Committee of each year, until their completion, and that stage II would be considered only after financial completion of stage I.

Table 2. Ongoing tranches of stage I of the HPMP for Saudi Arabia under implementation by UNIDO

Project code	Project title	Disbursement (%)	Status
SAU/FOA/62/INV/13	Phase-out of HCFC-22 and HCFC-142b from the manufacture of extruded polystyrene panel at Al-Watania Plastics	53	12 months delays; delay in identifying the buyer for equipment that was procured for the project; the enterprise decided not to participate in the project after procurement of equipment
SAU/PHA/68/INV/17	HCFC phase-out management plan (stage I, first tranche) (refrigeration servicing and monitoring)	88	12 months delays; no new activities to be initiated under this project as it was cancelled (decision 84/45(b) and (c))
SAU/PHA/68/INV/19	HCFC phase-out management plan (stage I, first tranche) (polyurethane foam sector plan)	100	12 months delays; the equipment procured for one of the three enterprises (Hesco) that had a fire incident could be either be used in another eligible enterprise or auctioned in case no eligible enterprise could be found
SAU/PHA/72/INV/20	HCFC phase-out management plan (stage I, second tranche) (refrigeration servicing and monitoring)	45	12 months delays; no new activities to be initiated under this project as it was cancelled (decision 84/45(b) and (c))
SAU/PHA/72/INV/21	HCFC phase-out management plan (stage I, second tranche) (polyurethane foam sector plan)	71	12 months delays; there was a fire in Jundi Systems House, which is one of the enterprises covered under the project. The enterprise has initiated construction of the new facility. The equipment for this systems house was procured and would be installed in the new building in the next 12 months
SAU/PHA/75/INV/24	HCFC phase-out management plan (stage I, third tranche) (polyurethane foam sector plan)	59	12 months delays; only installation of equipment that was procured at two enterprises (Al Mutlak and Sahari) is to be completed; no new activities to be initiated under this project as it was cancelled (decision 84/45(b) and (c))

Project code	Project title	Disbursement (%)	Status
SAU/PHA/75/INV/25	HCFC phase-out management plan (stage I, third tranche) (refrigeration servicing and monitoring)	70	12 months delays; no new activities to be initiated under this project as it was cancelled (decision 84/45(b) and (c))
SAU/PHA/77/INV/31	HCFC phase-out management plan (stage I, fourth tranche) (polyurethane foam sector plan)	21	Training programme for the spray foam enterprises, which was delayed due to COVID-19, is to be completed

PART II: PROJECTS APPROVED UNDER THE ADDITIONAL VOLUNTARY CONTRIBUTIONS FOR FAST-START SUPPORT FOR HFC PHASE-DOWN

17. As of 31 December 2019, the Executive Committee had approved 35 HFC-related projects under the additional voluntary contributions, amounting to US \$8,089,434 (excluding agency support costs). A summary of the status of these projects is presented in Table 3.

Table 3. Status of approved HFC-related projects as of the end of 2019

Type	Number of projects			Funding (US \$)*			
	Approved	Completed	% completed	Approved	Disbursed	Balance	% disbursed
Investment**	3	0	0	3,912,736	1,522,952	2,389,784	39
Project preparation	4	3	75	119,755	95,807	23,948	80
Technical assistance - Enabling activities	28	4	14	4,056,943	2,072,872	1,984,071	51
Total	35	7	20	8,089,434	3,691,631	4,397,803	46

*Excludes agency support costs.

** Phase-out of 265.1 mt (508,586 mt CO₂-eq.) of HFCs.

18. As of the end of 2019, of the 35 projects approved, three preparation activities and four enabling activities had been completed, leaving 28 ongoing. Extension of the completion dates of 22 out of 24 ongoing enabling activities was approved at the 83rd meeting (15 projects) and at the 84th meeting (seven projects); these activities are at various stages of implementation.

19. Ongoing investment projects include three refrigeration projects in Argentina, Lebanon and Mexico, approved at the 81st meeting with fund disbursement in two projects; these projects will be completed in 2020 and 2021.

20. Of the total cumulative funding approved of US \$8,089,434, US \$3,691,631 had been disbursed representing a disbursement rate of 46 per cent.

Recommendation

21. The Executive Committee may wish:

- (a) To note the progress report of UNIDO as at 31 December 2019 contained in document UNEP/OzL.Pro/ExCom/86/19;
- (b) To approve the recommendations related to ongoing projects with specific issues contained in Annex I to the present document;
- (c) To approve, on an exceptional basis, the extension, to 31 December 2020, of the phase-out of CFC consumption in the manufacture of aerosol metered-dose inhalers (MDIs) for Egypt

(EGY/ARS/50/INV/92), to complete final activities relating to registration, noting that there would be no further extensions and to request UNIDO to submit the project completion report to the 87th meeting;

- (d) To approve the extension, on an exceptional basis, to 30 June 2021, of the national phase-out plan for Iraq (first tranche) (IRQ/PHA/58/INV/09) and the replacement of refrigerant CFC-12 with isobutane and foam blowing agent CFC-11 with cyclopentane in the manufacture of domestic refrigerators and chest freezers at Light Industries Company for Iraq (IRQ/REF/57/INV/07), to complete project activities relating to installation and commissioning of equipment at the beneficiary enterprise;
- (e) To approve the extension, to 31 December 2021, of the HCFC phase-out management plan (HPMP) for Iraq (stage I, second and third tranches) (refrigeration servicing sector) (IRQ/PHA/74/INV/23 and IRQ/PHA/84/INV/29), to complete the procurement and delivery of laboratory and service training equipment and related activities;
- (f) To approve the extension, to 30 June 2021, of the HPMP for Serbia (stage I, fourth tranche) (YUG/PHA/84/INV/51) to complete the remaining activities;
- (g) To approve the extension, to 31 December 2021, of the phase-out of HCFC-22 and HCFC-141b from the manufacture of unitary air-conditioning equipment and rigid polyurethane insulation panels at Al Hafez Group for Syrian Arab Republic (SYR/REF/62/INV/103), to complete the remaining activities relating to installation and commissioning of equipment;
- (h) To approve the extension, to 31 December 2021, of the global chiller replacement project for Argentina (GLO/REF/80/DEM/344), to complete activities relating to beneficiaries; and
- (i) With regard to the HPMP for Saudi Arabia:
 - (i) To cancel the HPMP for Saudi Arabia (stage I, first, second and third tranches) (refrigeration servicing and monitoring) (SAU/PHA/68/INV/17, SAU/PHA/72/INV/20, and SAU/PHA/75/INV/25) and (stage I, third tranche) (polyurethane foam sector plan) (SAU/PHA/75/INV/24), in line with decision 84/45(b) and (c), and request UNIDO to return the remaining balances to the 87th meeting;
 - (ii) To request UNIDO to submit an annual progress report on the implementation of remaining activities of the project for phase-out of HCFC-22 and HCFC-142b from the manufacture of extruded polystyrene panel at Al-Watania Plastics (SAU/FOA/62/INV/13) and of the HPMP for Saudi Arabia (stage I, first, second and fourth tranches) (polyurethane foam sector plan) (SAU/PHA/68/INV/19, SAU/PHA/72/INV/21 and SAU/PHA/77/INV/31) to the last meeting of the Executive Committee of each year until their completion; and
 - (iii) To note that stage II of the HPMP for Saudi Arabia would only be considered after the project completion report and the financial completion report of stage I have been submitted, and all remaining funding balances have been returned to the Multilateral Fund.

Annex I

ONGOING PROJECTS WITH OUTSTANDING ISSUES IN THE PROGRESS REPORT FOR UNIDO

Country/project code	Project title	Disbursement (%)	Status/Issues	Recommendation
Algeria ALG/PHA/66/INV/76	HCFC phase-out management plan (stage I, first tranche) (conversion from HCFC-22 in the manufacture of room air conditioners at Condor)	64	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Algeria ALG/PHA/66/INV/77	HCFC phase-out management plan (stage I, first tranche) (activities in the refrigeration servicing sector including phase-out of HCFC-141b used for flushing, and project monitoring)	41	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Argentina ARG/PHA/74/INV/174	HCFC phase-out management plan (stage I, second tranche) (refrigeration servicing sector)	58	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Argentina ARG/PHA/80/INV/184	HCFC phase-out management plan (stage II, first tranche) (foam sector)	11	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Bahamas (the) BHA/PHA/80/INV/25	HCFC phase-out management plan (stage I, third tranche)	0	(i) 18 months delays (ii) No disbursement due to changes in the implementation plan	(i) To request UNIDO to report to the 87 th meeting on this project with implementation delays; (ii) To request a status report to the 87 th meeting on the implementation progress and on the level of funds disbursement
Bosnia and Herzegovina BHE/PHA/72/INV/29	HCFC phase-out management plan (stage I, second tranche) (activities in the refrigeration servicing sector including policy actions)	90	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Bosnia and Herzegovina BHE/PHA/76/INV/33	HCFC phase-out management plan (stage I, third tranche) (activities in the refrigeration servicing sector including policy actions)	86	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Burundi BDI/PHA/81/INV/37	HCFC phase-out management plan (stage I, third tranche)	0	No disbursement as payment due on delivery of equipment is expected in 2020	To request a status report to the 87 th meeting on the level of funds disbursement
Cameroon CMR/PHA/82/INV/45	HCFC phase-out management plan (stage II, first tranche)	4	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays

Country/project code	Project title	Disbursement (%)	Status/Issues	Recommendation
China CPR/PHA/64/INV/513	HCFC phase-out management plan (room air-conditioner manufacturing sector plan) (stage I, first tranche)	90	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
China CPR/PHA/68/INV/524	HCFC phase-out management plan (stage I, second tranche) (room air-conditioner manufacturing sector plan)	90	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
China CPR/PHA/71/INV/536	HCFC phase-out management plan (stage I, third tranche) (room air-conditioner manufacturing sector plan)	90	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
China CPR/PHA/73/INV/548	HCFC phase-out management plan (stage I, fourth tranche) (room air-conditioner manufacturing sector plan)	90	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
China CPR/PHA/75/INV/564	HCFC phase-out management plan (stage I, fifth tranche) (room air-conditioner manufacturing sector plan)	30	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
China CPR/PRO/73/INV/552	Sector plan for methyl bromide production sector (fourth tranche)	90	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Cote d'Ivoire IVC/PHA/66/INV/36	HCFC phase-out management plan (stage I, first tranche)	40	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Democratic People's Republic of Korea (the) DRK/PHA/73/INV/59	HCFC phase-out management plan (stage I, first tranche) (phase-out of HCFC-141b in polyurethane foam sector at Pyongyang Sonbong and Puhung Building Materials)	22	(i) 12 months delays; (ii) Implementation subject to United Nations Security Council (UNSC) resolutions	(i) To request UNIDO to report to the 87 th meeting on these projects with implementation delays; (ii) To request a status report to the 87 th meeting on implementation progress including updates on the resumption of activities
Democratic People's Republic of Korea (the) DRK/PHA/73/TAS/60	HCFC phase-out management plan (stage I, first tranche) (refrigeration servicing and monitoring)	89		
Democratic People's Republic of Korea (the) DRK/PHA/75/INV/62	HCFC phase-out management plan (stage I, second tranche) (phase-out of HCFC-141b in polyurethane foam sector at Pyongyang Sonbong and Puhung Building Materials)	24		

Country/project code	Project title	Disbursement (%)	Status/Issues	Recommendation
Democratic People's Republic of Korea (the) DRK/PHA/77/INV/64	HCFC phase-out management plan (stage I, third tranche) (policy, refrigeration servicing and monitoring)	1		
Egypt EGY/PHA/79/INV/133	HCFC phase-out management plan (stage II, first tranche) (polyurethane foam sector)	0	18 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Egypt EGY/PHA/82/INV/140	HCFC phase-out management plan (stage I, third tranche) (enabling activities in the refrigeration and air-conditioning sector)	37	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Eritrea ERI/PHA/84/PRP/18	Preparation of a HCFC phase-out management plan (stage II)	0	Activities delayed due to lack of response from national ozone unit (NOU)	To request a status report to the 87 th meeting on progress in stage II preparation
Gabon GAB/PHA/79/INV/34	HCFC phase-out management plan (stage I, third tranche)	0	18 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Iraq IRQ/PHA/58/INV/09	National phase-out plan (first tranche)	89	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Iraq IRQ/PHA/73/PRP/19	Preparation of a HCFC phase-out management plan (stage II)	48	Stage II was submitted to the 85 th meeting and subsequently withdrawn for submission after completion of stage I	To request a status report to the 87 th meeting on the submission of stage II
Iraq IRQ/REF/73/PRP/20	Preparation for HCFC phase-out investment activities (stage II) (air-conditioning sector)	0		
Iraq IRQ/PHA/74/INV/23	HCFC phase-out management plan (stage I, second tranche) (refrigeration servicing sector)	19	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Jordan JOR/PHA/77/INV/100	HCFC phase-out management plan (stage II, first tranche) (polyurethane spray foam sector)	64	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Jordan JOR/PHA/77/INV/101	HCFC phase-out management plan (stage II, first tranche) (refrigeration servicing sector)	30	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Kuwait KUW/PHA/66/INV/21	HCFC phase-out management plan (stage I, first tranche) (extruded polystyrene foam sector phase-out: Gulf Insulating Materials Manufacturing and Trading; Isofoam Insulating Materials Plants; and Al Masaha Company)	87	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays

Country/project code	Project title	Disbursement (%)	Status/Issues	Recommendation
Kuwait KUW/PHA/74/INV/24	HCFC phase-out management plan (stage I, second tranche) (polyurethane foam sector phase-out: Kuwait polyurethane Industry Co.; Kirby Building Systems, technical assistance to spray foam users and other small users)	1	(i) 12 months delays; (ii) Activities related to installation of equipment and commissioning delayed due to COVID-19 restrictions	(i) To request UNIDO to report to the 87 th meeting on these projects with implementation delays; (ii) To request a status report to the 87 th meeting on implementation progress and on the level of fund disbursement
Kuwait KUW/PHA/74/INV/25	HCFC phase-out management plan (stage I, second tranche) (extruded polystyrene foam sector phase-out: Gulf Insulating Materials Manufacturing and Trading; Isofoam Insulating Materials Plants; and Al Masaha Company)	1		
Kuwait KUW/PHA/83/INV/36	HCFC phase-out management plan (stage I, third tranche) (polyurethane foam sector phase-out)	0	Implementation delayed due to COVID-19 restrictions; expected to start in September 2020	To request a status report to the 87 th meeting on implementation progress and on the level of funds disbursement
Kuwait KUW/PHA/83/TAS/35	HCFC phase-out management plan (stage I, third tranche) (extruded polystyrene foam sector phase-out)	0		
Kuwait KUW/PHA/83/TAS/37	HCFC phase-out management plan (stage I, third tranche) (refrigeration servicing sector)	0	Activities including bidding process for reclamation centre equipment delayed due to COVID-19 restrictions	To request a status report to the 87 th meeting on implementation progress and on the level of funds disbursement
Libya LIB/FOA/82/PRP/41	Preparation for HCFC phase-out investment activities (stage II) (foam sector)	6	Implementation slow due to political situation in the country	To request a status report to the 87 th meeting on the submission of stage II
Libya LIB/PHA/82/PRP/43	Preparation of a HCFC phase-out management plan (stage II)	0		
Libya LIB/PHA/75/INV/36	HCFC phase-out management plan (stage I, first tranche) (foam sector)	71	(i) 12 months delays (ii) Implementation slow due to political situation in the country	(i) To request UNIDO to report to the 87 th meeting on these projects with implementation delays; (ii) To request a status report to the 87 th meeting on implementation progress
Libya LIB/PHA/75/INV/37	HCFC phase-out management plan (stage I, first tranche) (refrigeration servicing sector)	54		
Libya LIB/PHA/82/INV/42	HCFC phase-out management plan (stage I, second tranche) (refrigeration servicing sector)	0		
Mexico MEX/PHA/73/INV/173	HCFC phase-out management plan (stage II, first tranche) (phase-out of HCFC-22 and HCFC-141b in solvent)	99	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays

Country/project code	Project title	Disbursement (%)	Status/Issues	Recommendation
Mexico MEX/PHA/73/INV/174	HCFC phase-out management plan (stage II, first tranche) (cleaning agent phase-out in refrigeration servicing sector)	94	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Mexico MEX/PHA/81/INV/189	HCFC phase-out management plan (stage II, third tranche) (refrigeration servicing sector)	2	Agreement not signed	To request a status report to the 87 th meeting on the signing of the agreement and implementation progress
Morocco MOR/PHA/65/INV/68	HCFC phase-out management plan (stage I, first tranche) (refrigeration servicing sector)	77	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Morocco MOR/PHA/68/INV/69	HCFC phase-out management plan (stage I, second tranche) (refrigeration servicing sector)	32	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Mozambique MOZ/PHA/66/INV/23	HCFC phase-out management plan (stage I, first tranche)	12	(i) 12 months delays; (ii) Confirmation to be received from the NOU on procurement of equipment, pending for several months	(i) To request UNIDO to report to the 87 th meeting on this project with implementation delays; (ii) To request a status report to the 87 th meeting on the confirmation of receipt of equipment by the Government
Mozambique MOZ/PHA/83/INV/31	HCFC phase-out management plan (stage I, third and fourth tranches)	0	Procurement plan yet to be finalised pending confirmation of receipt of equipment of the first tranche	To request a status report to the 87 th meeting on the procurement plan with the funds approved for the third and fourth tranches
Pakistan PAK/PHA/76/INV/94	HCFC phase-out management plan (stage II, first tranche) (polyurethane foam sector)	28	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Pakistan PAK/PHA/76/TAS/95	HCFC phase-out management plan (stage II, first tranche) (refrigeration servicing sector)	7	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
South Africa SOA/FOA/67/INV/03	HCFC phase-out management plan (stage I, first tranche) (polyurethane foam sector plan)	98	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
South Africa SOA/PHA/67/TAS/04	HCFC phase-out management plan (stage I, first tranche) (refrigeration servicing, custom training and monitoring)	77	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays

Country/project code	Project title	Disbursement (%)	Status/Issues	Recommendation
South Africa SOA/PHA/71/INV/06	HCFC phase-out management plan (stage I, second tranche) (refrigeration servicing, custom training and monitoring)	92	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
South Africa SOA/PHA/76/INV/10	HCFC phase-out management plan (stage I, third tranche) (polyurethane foam sector plan)	42	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
South Africa SOA/PHA/76/TAS/11	HCFC phase-out management plan (stage I, third tranche) (refrigeration servicing, custom training and monitoring)	28	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Syrian Arab Republic SYR/SEV/73/INS/104	Extension of institutional strengthening (phase V: 1/2015-12/2016)	7	Delay due to security situation in the country	To request a status report to the 87 th meeting on implementation progress and on the level of funds disbursement
Turkey TUR/PHA/75/INV/107	HCFC phase-out management plan (stage I, second tranche) (refrigeration servicing and monitoring)	18	12 months delays	To request UNIDO to report to the 87 th meeting on this project with implementation delays
Venezuela (Bolivarian Republic of) VEN/PHA/76/INV/134	HCFC phase-out management plan (stage II, first tranche) (technical assistance in refrigeration and air-conditioning manufacturing sector)	64	(i) 12 months delays (ii) Implementation slow due to political situation in the country	(i) To request UNIDO to report to the 87 th meeting on these projects with implementation delays; (ii) To request a status report to the 87 th meeting on implementation progress
Venezuela (Bolivarian Republic of) VEN/PHA/76/TAS/132	HCFC phase-out management plan (stage II, first tranche) (refrigeration servicing sector)	64		
Global GLO/REF/80/DEM/344	Global chiller replacement project (Argentina)	9	Low disbursement rate of approved funds; delays due to financial situation in the country and additional time needed for finalization of the financial terms for implementation with beneficiaries on account of changes in the borrowing rates in the country	To request a status report to the 87 th meeting on implementation progress

Annex II

ANALYSIS OF THE PROGRESS REPORT OF UNIDO AS AT 31 DECEMBER 2019

1. This Annex consists of the following two parts:

Part I: Projects approved under the regular contributions to the Multilateral Fund.

Part II: Projects approved under the additional voluntary contributions for fast-start support for HFC phase-down.

PART I: PROJECTS APPROVED UNDER THE REGULAR CONTRIBUTIONS TO THE MULTILATERAL FUND

2. As of 31 December 2019, the Executive Committee had approved US \$949.52 million, consisting of US \$839.66 million for the implementation of investment and non-investment projects and US \$109.86 million for agency support costs, as shown in Table 1. In 2019, 66 new projects and activities were approved. This level of funding is expected to result in the phase-out of 81,941 ODP tonnes of consumption and production of controlled substances.

Table 1: Approved funding by sector for UNIDO as at 31 December 2019

Sector	Funding (US \$)
Aerosol	34,413,701
Destruction	3,813,216
Foam	89,362,746
Halon	1,780,369
Fumigants	78,028,741
Multiple sectors	139,440
Other	11,317,246
Phase-out plan	340,083,408
Process agent	6,337,359
Production	50,645,327
Refrigeration	182,330,122
Several	18,165,654
Solvents	23,247,443
Sub-total	839,664,771
Agency support costs	109,857,585
Total	949,522,356

3. A summary of the status of projects implemented by category is presented in Table 2.

Table 2: Status of project implementation by category

Type	Number of projects*			Funding (US \$)**			
	Approved	Completed	% completed	Approved	Disbursed	Balance	% disbursed
Country programme	11	11	100	722,669	722,669	0	100
Demonstration	43	40	93	23,743,122	22,109,613	1,633,509	93
Institutional strengthening (IS)	86	71	83	13,567,705	11,519,989	2,047,716	85
Investment	905	775	86	754,270,059	666,192,481	88,077,578	88
Project preparation	531	475	89	22,300,638	20,873,128	1,427,509	94
Technical assistance	194	161	83	23,864,044	18,073,266	5,790,778	76
Training	23	23	100	1,196,535	1,196,535	0	100

Type	Number of projects*			Funding (US \$)**			
	Approved	Completed	% completed	Approved	Disbursed	Balance	% disbursed
Total	1,793	1,556	87	839,664,771	740,687,681	98,977,090	88

*Excludes closed and transferred projects.

**Excludes agency support costs.

4. Table 3 presents an overview of the status of project implementation by year¹. All projects and activities approved between 1993 and the end of 2005, as well as 2007, have now been completed.

Table 3: Status of project implementation by year

Year	Number of projects*			Funding (US \$)**			
	Approved	Completed	% completed	Approved	Disbursed	Balance	% disbursed
1993	22	22	100	11,815,540	11,815,540	0	100
1994	52	52	100	30,645,899	30,645,899	0	100
1995	59	59	100	25,662,092	25,662,092	0	100
1996	46	46	100	19,820,493	19,820,493	0	100
1997	130	130	100	42,083,037	42,083,038	0	100
1998	88	88	100	23,638,291	23,638,291	0	100
1999	123	123	100	34,140,324	34,140,324	0	100
2000	96	96	100	30,180,752	30,180,752	0	100
2001	119	119	100	24,700,254	24,700,254	0	100
2002	76	76	100	35,992,041	35,992,041	1	100
2003	49	49	100	29,997,305	29,997,305	0	100
2004	44	44	100	33,105,459	33,105,459	1	100
2005	74	74	100	52,035,808	52,035,807	0	100
2006	44	43	98	20,760,993	20,642,655	118,338	99
2007	42	42	100	24,186,740	24,186,740	0	100
2008	77	75	97	33,405,264	33,103,537	301,727	99
2009	70	68	97	15,409,470	14,695,886	713,584	95
2010	69	66	96	46,339,532	44,462,245	1,877,287	96
2011	71	67	94	76,639,775	72,823,929	3,815,846	95
2012	52	41	79	32,695,947	30,092,576	2,603,370	92
2013	37	35	95	31,118,928	30,212,166	906,762	97
2014	55	39	71	27,891,730	25,243,751	2,647,979	91
2015	84	66	79	37,430,168	19,991,332	17,438,836	53
2016	58	26	45	36,070,768	19,343,837	16,726,931	54
2017	28	8	29	16,476,598	9,812,944	6,663,654	60
2018	62	2	3	27,913,186	2,132,592	25,780,594	8
2019	66	0	0	19,508,378	126,198	19,382,180	1
Total	1,793	1,556	87	839,664,771	740,687,681	98,977,090	88

*Excludes closed and transferred projects.

**Excludes agency support costs.

5. Table 4 presents project implementation by country for 2019.

¹ The data is presented according to the year when a project was approved by the Executive Committee. It treats all approvals (investment and non-investment projects) equally (i.e., an investment project or a funding tranche of an MYA of US \$1 million is considered one project, same as a country programme preparation of US \$30,000). Key indicators from the annual summary are: the percentage of projects completed, ODP phased out, and percentage of funds disbursed. There are three types of disbursements: during implementation, after implementation and for retroactively-financed projects.

Table 4. Summary of project implementation by UNIDO for 2019

Country	Phased out in 2019* (ODP tonnes)	Percentage of planned phase-out achieved in 2019	Estimated funds disbursed in 2019 (US\$)	Funds disbursed in 2019 (US\$)	Percentage of funds disbursed over estimation in 2019	Percentage of planned projects completed in 2019
Afghanistan	1.0		55,001	75,569	137	0
Albania	1.1		57,001	62,963	110	
Algeria	0.0		104,000	78,344	75	
Argentina	0.0	0	471,000	489,338	104	25
Armenia	0.0		56,776	70,066	123	
Bahamas (the)	0.0		5,000	0	0	
Bahrain	0.0		94,200	96,764	103	100
Benin	2.4		30,000	52,496	175	
Bolivia (Plurinational State of)	0.5		38,220	21,951	57	
Bosnia and Herzegovina	0.0		144,948	177,620	123	0
Botswana	0.0		50,001	14,114	28	
Brazil	0.0		932,000	818,619	88	
Burkina Faso	0.0		50,000	25,741	51	
Burundi	0.0		16,000	1	0	100
Cameroon	0.0		166,886	145,377	87	100
Chad	0.0		5,000	0	0	
Chile	0.0		110,000	115,629	105	100
China	186.5	0	11,140,005	8,739,889	78	0
Congo (the)	0.0		8,000	8,936	112	
Cote d'Ivoire	0.0		50,000	0	0	
Democratic People's Republic of Korea (the)	0.0		5	103,150	2062992	
Ecuador	0.0		246,000	144,264	59	100
Egypt	14.3		1,610,800	561,579	35	0
Equatorial Guinea	0.1		30,000	5,787	19	
Eritrea	0.0		17,000	19,411	114	100
Ethiopia	0.0		5,001	0	0	
Gabon	0.0		70,000	7,534	11	100
Gambia (the)	0.0		15,000	26,922	179	
Grenada	0.0		27,000	27,400	101	
Guatemala	0.4		91,000	149,019	164	
Guinea-Bissau	0.0		16,000	7,305	46	0
Honduras	2.0		41,848	37,907	91	
Iran (Islamic Republic of)	1.0	100	393,600	561,395	143	100
Iraq	0.0		228,001	28,815	13	0
Jordan	0.0		1,105,000	526,444	48	
Kuwait	0.0	0	71,967	47,427	66	0
Lebanon	0.0		5,000	1,101	22	0
Libya	0.0		151,239	80,995	54	0
Madagascar	0.4		50,001	16,573	33	
Malawi	0.0		10,744	8,054	75	100
Mexico	0.0		310,000	456,330	147	33
Montenegro	0.2		6,700	23,801	355	100
Morocco	0.0		285,000	221,077	78	50
Mozambique	0.0		50,000	0	0	
Myanmar	0.0		30,000	51,844	173	
Nicaragua	0.6		25,029	5,443	22	
Niger (the)	0.0		25,075	25,948	103	
Nigeria	0.0		120,001	93,940	78	
North Macedonia	0.0		62,001	91,324	147	100

Country	Phased out in 2019* (ODP tonnes)	Percentage of planned phase-out achieved in 2019	Estimated funds disbursed in 2019 (US\$)	Funds disbursed in 2019 (US\$)	Percentage of funds disbursed over estimation in 2019	Percentage of planned projects completed in 2019
Oman	0.0		81,758	62,865	77	0
Pakistan	0.0		540,000	146,226	27	
Philippines (the)	0.0		0	15,965	Over	
Qatar	0.0	0	86,002	85,943	100	0
Rwanda	0.0		30,000	5,413	18	
Saint Lucia	0.0		18,000	3,356	19	100
Saudi Arabia	0.0	0	743,005	1,302,351	175	25
Senegal	0.0		55,321	0	0	50
Serbia	0.0		225,000	233,859	104	
Sierra Leone	0.1		20,000	35,625	178	
Somalia	0.0		6,000	14,607	243	
South Africa	0.0		275,001	298,762	109	33
Sudan (the)	7.9		455,000	424,198	93	100
Suriname	0.0		30,000	29,431	98	
Syria	0.0		57,000	12,876	23	
Togo	0.3		29,000	20,977	72	
Tunisia	0.0		395,712	319,870	81	100
Turkey	0.0		1,417,869	668,743	47	100
Turkmenistan	0.0		88,901	115,075	129	0
Uganda	0.0		18,000	25,488	142	100
United Republic of Tanzania (the)	0.0		35,000	2,368	7	
Venezuela (Bolivarian Republic of)	0.0		68,400	65,816	96	
Yemen	0.0		0	160	Over	
Zambia	0.0		1	0	0	
Global	0.0		146,400	258,173	176	100
Region: ASP	0.0		75,000	86,368	115	100
Region: EUR	0.0		2,895	2,897	100	
Total	219.0	0	23,582,315	18,561,616	79	48

* No phase-out in 2019 for HFC-related projects.

6. Table 5 presents a summary of HFC-related projects approved under regular contributions.

Table 5. HFC-related projects approved under regular contributions

Type	Number of projects			Funding (US \$)*			
	Approved	Completed	% completed	Approved	Disbursed	Balance	% disbursed
Investment**	1	0	0	1,637,610	403,401	1,234,209	25
Project preparation	2	1	50	130,000	129,598	402	100
Technical assistance - Enabling activities	3	0	0	400,000	22,216	377,784	6
Total	6	1	17	2,167,610	555,215	1,612,395	26

*Excludes agency support costs.

** 118.7 mt (211,512 mt CO₂-eq.) was approved for investment projects.

7. There are currently six HFC-related projects (including one investment, two preparation and three enabling activities). Of the six projects, one project preparation has been completed, leaving five ongoing. Extension of the completion dates of two enabling activities was approved at the 85th meeting; these activities are at various stages of implementation.

8. The HFC investment project related to the refrigeration sector in Jordan approved in June 2018 is progressing and UNIDO indicated that it will be completed on time.

9. Of the total cumulative funding approved of US \$2,167,610 (excluding agency support costs), US \$555,215 had been disbursed, representing a disbursement rate of 26 per cent.

PART II: PROJECTS APPROVED UNDER THE ADDITIONAL VOLUNTARY CONTRIBUTIONS FOR FAST-START SUPPORT FOR HFC PHASE-DOWN

10. As of 31 December 2019, the Executive Committee had approved 35 HFC-related projects under the additional voluntary contributions amounting to US \$8,089,434 (excluding agency support costs). A summary of the status of these projects is presented in Table 6.

Table 6. Status of approved HFC-related projects as of the end of 2019

Type	Number of projects			Funding (US \$)*			
	Approved	Completed	% completed	Approved	Disbursed	Balance	% disbursed
Investment**	3	0	0	3,912,736	1,522,952	2,389,784	39
Project preparation	4	3	75	119,755	95,807	23,948	80
Technical assistance - Enabling activities	28	4	14	4,056,943	2,072,872	1,984,071	51
Total	35	7	20	8,089,434	3,691,631	4,397,803	46

*Excludes agency support costs.

** Phase-out of 265.1 mt (508,586 mt CO₂-eq.) of HFCs.

11. As of the end of 2019, of the 35 projects approved, three preparation activities and four enabling activities had been completed, leaving 28 ongoing. Extension of the completion dates of 22 out of 24 ongoing enabling activities was approved at the 83rd meeting (15 projects) and at the 84th meeting (seven projects); these activities are at various stages of implementation.

12. Ongoing investment projects include three refrigeration sector projects in Argentina, Lebanon and Mexico, which were approved at the 81st meeting with fund disbursement in two projects; these projects will be completed in 2020 and 2021.

13. Of the total cumulative funding approved of US \$8,089,434, US \$3,691,631 had been disbursed representing a disbursement rate of 46 per cent.



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION

UNIDO Progress and Financial Report 2019

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I. Project Approvals and Disbursements

Annual summary data

- 1) Table 1 “Annual Summary” in the Excel file includes the most relevant annual data, such as number of approvals, corresponding ODP (wherever applicable), approved funding, adjustment and disbursement characteristics. The cumulative funds for the period 1993-2019 approved for UNIDO activities under the Multilateral Fund amount to US\$ 839,664,771, excluding agency support cost, the core unit funding and projects funded by the additional contributions for implementation of the Kigali Amendment. This amount, however, includes the adjustments made until end 2019. The details are contained in the attached database (Annex II in the Excel file). In this annex, the data are sorted by regions and within each region the completed, financially completed; ongoing and closed (cancelled) projects are listed.
- 2) From 2017 a total of US\$ 8,089,728 were approved for UNIDO activities from the additional contributions to provide fast-start support for implementation of the Kigali Amendment. The details are contained in the attached database (Annex IIa in the Excel file)
- 3) As of 31 December 2019, UNIDO’s cumulative disbursement for all projects (completed and ongoing) amounts to US\$ 740,687,681 excluding agency support cost, core unit funding and disbursements in projects funded by additional contributions. This corresponds to a delivery rate of 88 per cent. Out of this amount, US\$ 666,192,481 relate to cumulative disbursement for investment projects (Table 2, “Summary Data by Project Type” in the Excel file).

Interest

- 4) The interest earned for the period 1993 – 2019 amounts to US\$ 40,995,679 and is shown by years in the Table 1 “Annual Summary” in the Excel file. The interest earned in 2019 amounts to US\$ 1,717,033.

Summary data by type

- 5) The cumulative activities of UNIDO approved by the Multilateral Fund are listed in Annex II in the Excel file. The following table summarizes their breakdown by types.

Type	Approved Funding US\$*	Share of portfolio in per cent	Number of projects*	Share of portfolio in per cent
CPG (Country Programme Preparation)	815,000	0.10%	11	0.61%
DEM (Demonstration projects)	26,091,990	3.07%	43	2.40%
INS (Institutional strengthening)	13,586,801	1.6%	86	4.80%
INV (Investment projects)	757,744,501	89.12%	905	50.47%
PRP (Project preparation)	24,985,552	2.94%	531	29.62%
TAS (Technical Assistance)	25,734,730	3.03%	194	10.82%
TRA (Training)	1,249,459	0.15%	23	1.28%
Total (excluding agency support cost)	850,208,033	100%	1,793	100%

* These figures are without adjustments, which are in total US\$ -10,543,262.

** Excluding Closed and Transferred Projects.

- 6) Table 2 “Summary of Data by Project Type” in the Excel file, shows approvals, adjustments and disbursements by type of project/activity. In 2019 UNIDO’s overall disbursement rate (excluding agency support cost) was 88%. Disbursements by activity type and as percentage of activity allocations are summarized as follows:

Type	Funds Disbursed US\$	Disbursement rate in per cent
CPG (Country Programme Preparation)	722,669	100%
DEM (Demonstration projects)	22,109,613	93%
INS (Institutional strengthening)	11,519,989	85%
INV (Investment projects)	666,192,481	88%
PRP (Project preparation)	20,873,128	94%
TAS (Technical Assistance)	18,073,266	76%
TRA (Training)	1,196,535	100%
Total (excluding agency support cost)	740,687,681	88%

Multi-Year Agreements

In the reporting year, two new multi-year performance based projects were approved for UNIDO’s implementation, the Stage II HCFC Phase-out Management Plan in the Philippines¹ and Tunisia.

- 7) As shown in Annex II in the Excel file, UNIDO has been implementing one hundred and fifty-seven performance-based, multi-year agreements. Ninety one of these agreements are HCFC Phase-out Management Plans (Afghanistan, Albania, Algeria, Argentina (2), Bahamas, Bahrain, Benin, Bolivia, Bosnia & Herzegovina, Botswana, Brazil, Burkina Faso, Burundi,

¹ The HPMP Stage II for the Philippines was initially approved for the World Bank and was transferred to UNIDO at the 83rd meeting in May 2019.

Cameroon (2), Central African Republic, Chad, Chile, China (2x2), Congo (Rep. of), Cote d'Ivoire, Croatia, DPR Korea, Ecuador, Egypt (2), Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Grenada, Guinea-Bissau, Guinea, Guatemala, Honduras, Indonesia, Iran (2), Iraq, Jordan (2), Kuwait, Libya, Macedonia, Madagascar, Malawi, Mexico (2), Montenegro, Morocco, Mozambique, Myanmar, Nicaragua, Niger, Nigeria (2), Oman (2), Pakistan (2), Philippines (2), Qatar, Rwanda, Saint Lucia, Saint Vincent and the Grenadines, Saudi Arabia, Senegal, Serbia, Sierra Leone, Somalia, South Africa, Sudan (2), Suriname, Tanzania, Togo, Tunisia (2), Turkey, Turkmenistan, Uganda, Venezuela (2), Yemen and Zambia).

Sector phase out by country

The activities listed in the table below are the ONGOING projects with sectors (excluding HCFCs) by countries for which total phase-out has been funded.

#	Country	Project Title	ODS	Multi-year (yes/no)	Phase-out in sector
1.	China	MDI phase-out	CFC	No	Total
2.	China	Sector plan for methyl bromide production sector	MBr	Yes	Total
3.	Egypt	CFC phase-out in the MDI sector	CFCs	No	Total
4.	Iraq	National ODS Phase Out Plan	CFC, Halon, CTC, TCA	Yes	Total
5.	Iraq	Replacement of refrigerant CFC-12 with isobutane and foam blowing agent CFC-11 with cyclopentane in the manufacture of domestic refrigerators and chest freezers at Light Industries Company	CFC	No	Total

- 8) Information on funded ODP phase-out by region/country for ongoing projects is given in Table 3 “ODP Phase-out by Region, Country and Sector – Ongoing Projects” in the Excel file.

Ongoing projects	
Sector	ODP tonnes
Foams	23.7
Phase-out	1,832.59
Refrigeration	131.6
Total	1,987.89

- 9) As per Table 3a “ODP Phase-out by Region, Country and Sector – Completed Projects” in the Excel file, until end of the reporting period, UNIDO eliminated 77,844 ODP tonnes (excluding partial phase-out of ongoing projects and ODP phase out under closed projects). ODP phase by sector is summarized in the below table.

Completed projects	
Sector	ODP tonnes
Aerosols	3,683
Foams	13,074
Fumigants	5,612
Halons	2,003
Other (Tobacco)	1,170
Process agents	908
Phase-out	13,305
Production	17,381
Refrigeration	18,475
Several	39
Solvents	2,194
Total	77,844

- 10) Partial ODP phase out is reported in Table 3b “Partial ODP Phase-out by Sector, Region, Country” and in Annex II in the Excel file.
The partial phase-out achieved in 2019 is 217.8 ODP tonnes for phase-out sector.

II. Project Completion since last Report

ODP phased out since last report - investment projects

- 11) As per Table 4 in the Excel file, the cumulative ODP phase out through investment projects completed in the reporting period (1 January – 31 December 2019) amounts to 228.95 ODP tonnes. In addition, 217.8 ODP tonnes were partially phased-out from ongoing projects. The details are shown in Table 3b and Table 4 in the Excel file. Table 4 in the Excel file lists all investment, demonstration, technical assistance and institutional strengthening projects completed in 2019.

Non-investment project completions since last report

- 12) Since the last report, 12 non-investment projects, with approved funding of US\$ 2,791,920 were completed: 3 in Africa, 3 in Asia and the Pacific, 3 in Latin America and the Caribbean, 2 Global projects and the Core Unit Funding.

III. Global and Regional Project Highlights

Global Projects

- 13) Core Unit Funding for the year 2020 was approved in December 2019. The core unit funding for the year 2019 that was approved in 2018 for UNIDO as a global project in the amount of US\$ 2,083,871 was completed in December 2019.
- 14) The following global project has been ongoing in the reporting year:
 - Global chiller replacement project (Argentina)
- 15) The following global projects have been completed in the reporting year:
 - Demonstration project on refrigerant quality, containment and introduction of low-global warming potential alternatives (Eastern Africa and Caribbean regions)
 - Demonstration project for the introduction of trans-critical CO2 refrigeration technology for supermarkets (Argentina and Tunisia)

Regional Projects

- 16) The below regional project has been completed in Asia in the reporting year:
 - Promoting alternative refrigerants in air-conditioning for high ambient countries in West Asia (PRAHA-II);

IV. Performance Indicators

Business Plan Performance Goals as decided by the Executive Committee

- 17) The 71st Meeting of the Executive Committee in December 2013 reviewed and modified the performance indicators established by earlier decisions. The new weightings, based on Decision 71/28, are indicated in the below table.
- 18) The targets and achievements for the year 2019 performance indicators approved during the 82nd Meeting of the ExCom are indicated below.

A1. Planning – Approvals

- 19) Tranches approved: Number of tranches approved vs. those planned

In 2019, 14 tranches were approved in total against the updated target of 15. The original target was 23, however, the below projects were not approved beyond UNIDO's control:

- As reported to the 84th Meeting of the Executive Committee under the tranche submission delays, UNIDO was ready for submission of the following tranches: Guinea (lead agency was not ready), Saudi Arabia (legislation was not put in place by the country which was necessary for proceeding with the investment component), Senegal (the country requested change of lead agency),
- The tranche request for Venezuela was submitted, but UNIDO was requested to withdraw it.
- UNEP, as lead agency, decided to defer the project submission for Antigua and Barbuda.
- The 3rd tranche of the Stage II XPS sector plan for China was submitted to the ExCom, but was not approved, although all requirements specified in the agreement have been met. The tranche request for China HPMP Stage II RAC sector was not submitted due to the overall discussion on the unexpected CFCs and freeze in the approval of further funding for China. In line with decision 84/69, the Appendix 2-A, "The Targets and Funding", of the Agreement between the Government of China and the Executive Committee for stage II of the HPMP, has been revised and relevant bilateral and implementing agencies were asked to resubmit the funding tranches at the 85th meeting. Furthermore, relevant implementing agencies have been requested to submit to the 86th meeting, a revised plan of action and associated funding tranches to extend through 2026 stage II of the room air-conditioning (RAC), ICR, and refrigeration and air-conditioning servicing sectors and enabling programme.
- In line with decision 84/65, the agreement with Bahrain was revised and the investment component has been cancelled.

Out of the 14 tranches approved, 14 are tranches of existing multi-year projects.

- 20) Projects/activities approved: Number of projects/activities approved vs. those planned (including project preparation activities)

During 2019, 21 individual projects were approved against the originally agreed target of 30. However the target should be updated to 21 taking into account the projects not approved for reasons beyond UNIDO's control:

- The Preparations for HPMP Stage II projects for Burundi and Guinea were not submitted as per decision from lead agency.
- The Preparation for HPMP Stage II project for Kuwait (foam sector) was not submitted because there was no foam consumption to be addressed under the HPMP Stage II.
- The project Controlling HFC-23 by-product emissions in Argentina was submitted, but the Executive Committee decided to defer its consideration to the 84th (decision 83/66) and then to the 85th meeting (decision 84/90).
- The renewals of the institutional strengthening projects in Qatar and Syrian Arab Republic could not be submitted due to the NOU restructuring and country security situation, respectively.
- The Demonstration project to provide experience in ICCs and IOCs associated with the phase-down of HFCs in the XPS manufacturing for China was not submitted and then UNIDO was asked to withdraw it; the demonstration project on accelerating energy efficiency as a co-benefit from HFC phase down in a domestic refrigerator manufacturing company for Iran was withdrawn based on the country decision; the Brazil project for phase-out of HFCs and phase-in of HFO-1234ze in industrial refrigeration and A/C was not submitted because the Government did not pass the legislation for controlling HFCs.

The approvals include 4 renewals of institutional strengthening projects (Bosnia and Herzegovina, Serbia, Tunisia and Turkey), 16 project preparations projects and 1 global project for UNIDO's 2020 Core Unit Funding.

A2. Implementation

21) Funds disbursed: Based on estimated disbursement in Progress Report

During 2019 the funds disbursed as per IPSAS were US\$ 18,534,864 against the estimated disbursements for year 2019 established in the Progress Report for year 2018 of US\$ 23,573,657.

22) ODS phased-out: ODS phase-out for the tranche when the next tranche is approved vs. those planned per business plans

Altogether 193.35 ODP tonnes can be recorded as achievements compared to an adjusted target of 196.35 ODP tonnes for all MYA projects approved in 2019. 425.59² ODP tonnes need to be deducted from the original target of 621.94 OPD as explained in section 19 due to the non-submission and/or non-approval of several tranches beyond UNIDO's control.

23) Project completion for activities: Project completion vs. planned in progress reports for all activities (excluding project preparation)

During 2019, UNIDO completed 30 projects against the target of 48.

24) The performance indicators with the weightings are summarized in the following table:

² 369.55 ODP tonnes are related only to the non-approval of funding for China under the HPMP Stage II, XPS and RAC sectors.

Performance indicators: Targets and achievements in 2019

Type of Indicator	Short title	Calculation	Weighting	Target 2019	Achievement 2019
Planning--Approval	Tranches approved	Number of tranches approved vs. those planned	10	15*	14
Planning--Approval	Projects/activities approved	Number of projects/activities approved vs. those planned (including project preparation activities)	10	21**	21
	Sub-total		20		
Implementation	Funds disbursed	Based on estimated disbursement in progress report (USD)	15	23,573,657 US\$	18,534,864 US\$***
Implementation	ODS phase-out	ODS phase-out for the tranche when the next tranche is approved vs. those planned per business plans	25	196.35 ODP tonnes****	193.35 ODP tonnes
Implementation	Project completion for activities	Project completion vs. planned in progress reports for all activities (excl. project preparation)	20	48	30
	Sub-total		60		
Administrative	Speed of financial completion	The extent to which projects are financially completed 12 months after project completion	10	12 months after operational completion	12 months
Administrative	Timely submission of project completion reports	Timely submission of project completion reports vs. those agreed	5	On time	On time
Administrative	Timely submission of progress reports	Timely submission of progress reports and business plans and responses unless otherwise agreed	5	On time	On time or as agreed
	Sub-total		20		

* The original target was 23, however, as reported to the 84th Meeting of the Executive Committee under the tranche submission delays, UNIDO was ready for submission of the following tranches: Guinea (lead agency was not ready), Saudi Arabia (legislation was not put in place by the country which was necessary for proceeding with the investment component), Senegal (the country requested change of lead agency). The 3rd tranche of the Stage II XPS sector plan for China was submitted to the ExCom, but was not approved, although all requirements specified in the agreement have been met. The tranche request for China HPMP Stage II RAC sector was not submitted due to the overall discussion on the unexpected CFCs and freeze in the approval of further funding for China. In line with decision 84/69, the Appendix 2-A, "The Targets and Funding", of the Agreement between the

Government of China and the Executive Committee for stage II of the HPMP, has been revised and relevant bilateral and implementing agencies were asked to resubmit the funding tranches at the 85th meeting. Furthermore, relevant implementing agencies have been requested to submit to the 86th meeting, a revised plan of action and associated funding tranches to extend through 2026 stage II of the room air-conditioning (RAC), ICR, and refrigeration and air-conditioning servicing sectors and enabling programme. The tranche request for Venezuela was submitted, but UNIDO was requested to withdraw it. UNEP as lead agency decided to defer the project submission for Antigua and Barbuda. In line with decision 84/65, the agreement with Bahrain was revised and the investment component has been cancelled.

*** The subject target should be reduced from 30 to 21 taking into account the projects not approved for reasons beyond UNIDO's control: the Preparations for HPMP Stage II projects for Burundi and Guinea were not submitted as per decision from lead agency; the Preparation for HPMP Stage II project for Kuwait (foam sector) was not submitted because there was no foam consumption to be addressed under the HPMP Stage II; the project Controlling HFC-23 by-product emissions in Argentina was submitted, but the Executive Committee decided to defer its consideration to the 84th (decision 83/66) and then to the 85th meeting (decision 84/90); the renewals of the institutional strengthening projects in Qatar and Syrian Arab Republic could not be submitted due to the NOU restructuring and country security situation, respectively; the Demonstration project to provide experience in ICCs and IOCs associated with the phase-down of HFCs in the XPS manufacturing for China was not submitted and then UNIDO was asked to withdraw it; the demonstration project on accelerating energy efficiency as a co-benefit from HFC phase down in a domestic refrigerator manufacturing company for Iran was withdrawn based on the country decision; the Brazil project for phase-out of HFCs and phase-in of HFO-1234ze in industrial refrigeration and A/C was not submitted because the Government did not pass the legislation for controlling HFCs.*

**** Disbursement value does not include disbursements made during 2019 under the projects funded from additional voluntary contributions from non-Article 5 countries.*

***** From the original target of 621.9 OPD tonnes needs to be deducted 425.59 OPD tonnes due to the non-submission and/or non-approval of several tranches beyond UNIDO's control as stated in section 19.*

In addition to the above, UNIDO's approvals in 2019 amounted to US\$ 19,508378 (excluding agency support costs).

Cumulative completed investment projects

25) Since 1993, UNIDO's cumulative number of completed investment projects has grown to 775 with a total of US\$ 530,541,304 of approved funding including adjustments. The average number of months from approval to first disbursement was 9.2 months. The average number of months from approval to completion was 37.9 months. The cost effectiveness of completed projects is US\$ 7.06/kg. Table 5 "Cumulative completed investment projects by region, sector and implementation characteristics" in the Excel file illustrates more details, presenting information both on a regional and on a sector basis. The vast majority of completed investment projects have been implemented with disbursements of funds during implementation; only ten retroactively funded projects were implemented by UNIDO.

Cumulative completed non-investment projects

26) Since 1993, UNIDO's cumulative number of completed non-investment projects is 306. Out of a total of US\$ 50,634,365 approved funding, 99 per cent of funds have been disbursed. Except for 71 institutional strengthening projects, all UNIDO completed non-investment projects were objective-sensitive. Table 6 "Cumulative completed non-investment projects by region, sector and implementation characteristics" in the Excel file provides details according to geographic region and sectors. In addition, UNIDO has completed four Technical Assistance projects funded by additional contributions for the Kigali Amendment.

Cumulative ongoing investment projects

27) By the end of 2019, UNIDO’s cumulative portfolio of ongoing investment, demonstration and recovery and recycling projects contained 130 projects. Of the US\$ 217,420,457 approved budget, 60 per cent has been disbursed. It took an average of 10 months from approval to first disbursement. The Africa region had 49 ongoing projects, Asia and the Pacific 49 ongoing projects, Europe 11 ongoing projects and Latin America and the Caribbean 21 ongoing projects. Table 7 “Cumulative ongoing investment projects by region, sector and implementation characteristics” in the Excel file illustrates the implementation characteristics among regions and sectors for UNIDO’s ongoing investment projects. The ongoing projects are objective sensitive and the disbursement of funds takes place during implementation. In addition, UNIDO is implementing 3 investment projects funded by additional voluntary contributions for the Kigali Amendment.

Cumulative ongoing non-investment projects

28) At the end of 2019, UNIDO’s cumulative portfolio of ongoing non-investment projects consisted of 51 projects. Out of a total of US\$ 12,273,723 of approved funding, 27 per cent has been disbursed. The ongoing non-investment projects include 33 Technical Assistance projects, 15 Institutional Strengthening projects and 3 Demonstration projects. Table 8 “Cumulative ongoing non-investment projects by region, sector and implementation characteristics” in the Excel file illustrates details, presenting the projects according to regions, sectors and types. In addition, UNIDO is implementing 24 Technical Assistance projects funded by additional contributions for the Kigali Amendment.

V. Status of Agreements and Project Preparation by Country

Agreements to be signed/executed/finalized and ready for disbursing

- 29) As soon as a project is approved by the Executive Committee and after having notified the respective authorities, UNIDO secures officially from the recipient country's Ozone and project authorities, validity/confirmation of basic project data, such as actual ODS consumption; validity of counterpart commitment, etc., since by this time, a substantial period of time might have elapsed from the time of formulation of the project, and the projects, in most cases, are adjusted as a result of the negotiations during the approval process. After this, wherever it is required by the Country, UNIDO prepares and signs with the Ozone Authorities the agreement of cooperation. UNIDO prepares detailed Terms of Reference (TOR) for services to be rendered under the project. The TOR and the list of potential suppliers are approved by the counterpart. The bidding and subcontracting takes place based on the mutually agreed TOR. The first payment is due upon entry into force of the first contract. Even if the first payment is released, as per the IPSAS, disbursements are not reflected until after services have been delivered. Under UNSAS, any payment outflow was recorded as disbursement. The above-illustrated preparatory work explains, for multi-year programmes, investment, demonstration and recovery and recycling projects, the time elapsing between project approval and first disbursement.

Project preparation by country, approved amount and amounts disbursed

- 30) As of the end of 2019, UNIDO had on-going project preparation in 50 countries with approved funding amounting to US\$ 1,827,750 out of which US\$ 485,205 has been disbursed. In addition one project preparation for the control of HFC-23 by-product emissions in the HCFC production sector in Mexico was approved and ongoing in 2019.

The list and details of active project preparation accounts are shown in Table 9 "Active project preparation accounts" in the Excel file.

Activities related to the phase-out of HCFCs

- 31) UNIDO is lead agency or only implementing agency for altogether 33 **Stage IHPMPs**. These MYAs/projects are listed below:

#	Mtg	Country	Main / Cooperating agency
1.	64	Albania	UNIDO lead agency with UNEP
2.	66	Algeria	UNIDO only impl. Agency
3.	66	Argentina	UNIDO lead agency with World Bank
4.	74	Bolivia	UNIDO only impl. agency
5.	66	Bosnia & Herzegovina	UNIDO only impl. Agency
6.	64	Cameroon	UNIDO only impl. Agency
7.	64	China – RAC sector	UNIDO only impl. Agency
8.	64	China – XPS sector	UNIDO lead agency with GIZ
9.	73	Democratic People's Republic of Korea	UNIDO lead agency with UNEP
10.	65	Ecuador	UNIDO lead agency with UNEP
11.	65	Egypt	UNIDO lead agency with UNDP
12.	64	Guatemala	UNIDO lead agency with UNEP
13.	63	Honduras	UNIDO lead agency with UNEP
14.	65	Jordan	UNIDO lead agency with WB
15.	75	Libya	UNIDO only impl. agency
16.	64	Mexico	UNIDO lead agency with UNDP
17.	63	Montenegro	UNIDO only impl. Agency
18.	65	Morocco	UNIDO only impl. Agency
19.	66	Niger	UNIDO lead agency with UNEP
20.	60	North Macedonia	UNIDO only impl. agency
21.	65	Oman	UNIDO lead agency with UNEP
22.	62	Pakistan	UNIDO lead agency with UNEP
23.	65	Qatar	UNIDO lead agency with UNEP
24.	68	Saudi Arabia	UNIDO lead agency with UNEP
25.	62	Serbia	UNIDO lead agency with UNEP
26.	67	Somalia	UNIDO only impl. Agency
27.	67	South Africa	UNIDO only impl. Agency
28.	66	Sudan	UNIDO only impl. Agency
29.	72	Tunisia	UNIDO lead agency with UNEP and France

#	Mtg	Country	Main / Cooperating agency
30.	62	Turkmenistan	UNIDO only impl. Agency
31.	68	Turkey	UNIDO lead agency with UNEP
32.	63	Venezuela	UNIDO lead agency with UNEP

Furthermore, UNIDO is co-implementing agency for the **Stage I HPMPs** for the following countries with the below agencies:

- UNEP: Afghanistan, Bahamas, Bahrain, Benin, Botswana, Burkina Faso, Burundi, Central African Republic, Chad, Congo (Rep. of), Cote d'Ivoire, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Grenada, Guinea, Guinea-Bissau, Iraq, Kuwait, Madagascar, Malawi, Mozambique, Myanmar, Nicaragua, Philippines, Rwanda, Saint Lucia, St. Vincent and the Grenadines, Senegal, Sierra Leone, Suriname, Tanzania, Togo, Uganda, Yemen and Zambia;
- UNDP: Indonesia, Iran and Nigeria;

Outstanding **Stage I HPMPs**:

- Stage I HPMP PRP activities could still not be finalized in Syria due to the security situation in the country.

Completed **Stage I HPMPs**:

- Croatia, implemented by UNIDO.

32) UNIDO is involved in **ongoing Stage II HPMPs** as only, lead or cooperating implementing agency in the following countries and sectors:

	Mtg	Country	Main / Cooperating agency
1.	79	Argentina	UNIDO lead w. Italy
2.	75	Brazil	UNDP/UNIDO/Germany/Italy
3.	82	Cameroon	UNIDO only impl. Agency
4.	76	Chile	UNDP lead agency w. UNIDO
5.	77	China- RAC Sector	UNIDO lead w. Italy
6.	77	China – XPS sector	UNIDO lead agency with GIZ
7.	79	Egypt	UNIDO lead agency/UNDP/UNEP/Germany
8.	77	Iran	UNDP/UNEP/UNIDO/Germany
9.	77	Jordan	World Bank lead w. UNIDO
10.	73	Mexico	UNIDO lead agency w. Germany, Italy, Spain and UNEP
11.	81	Nigeria	UNDP lead agency w. UNIDO
12.	75	Oman	UNIDO lead agency w. UNEP
13.	76	Pakistan	UNIDO lead agency w. UNEP
14.	83	Philippines	UNIDO only impl. Agency
15.	75	Sudan	UNIDO only impl. Agency
16.	84	Tunisia	UNIDO lead agency w. UNEP
17.	76	Venezuela	UNIDO lead agency w. UNDP

ODS destruction demonstration projects

- 33) The Pilot demonstration project on ODS waste management and disposal is under implementation in Lebanon.

Climate impact of Montreal Protocol activities

- 34) In the selection of alternative technologies to replace ODS, energy efficiency, has been taken into account since the first investment projects, from early 1990s in UNIDO. In the recent years, the introduction of low Global Warming Potential and high energy efficiency alternatives has gained high attention to achieve additional climate benefits in the ODS phase-out process. UNIDO has been looking into the assessment of climate impacts of the MP activities in order to respond to the needs of Dec XIX/6 of the Meeting of the Parties. In Decision 72/40 (May 2014) bilateral and implementing agencies have been encouraged to submit proposals for demonstration projects for low GWP alternatives to HCFCs in the refrigeration and air-conditioning subsectors and feasibility studies, including business cases for district cooling.

- 35) During the reporting period, the following demonstration projects were ongoing:

- Global chiller replacement project (Argentina);
- Demonstration project on promoting HFO-based low-global warming potential refrigerants for air-conditioning sector in high ambient temperatures (Saudi Arabia);
- Pilot demonstration project on ODS waste management and disposal (Lebanon).

The associated projects listed below were completed during 2019:

- Demonstration project on the use of low cost pentane foaming technology for the conversion to non-ODS technologies in polyurethane foams at small and medium enterprises (Morocco);
- Promoting alternative refrigerants in air-conditioning for high ambient countries in West Asia (PRAHA-II);
- Demonstration project on refrigerant quality, containment and introduction of low-global warming potential alternatives (Eastern Africa and Caribbean regions);
- Demonstration project for the introduction of trans-critical CO₂ refrigeration technology for supermarkets (Argentina and Tunisia);
- Demonstration project for the phase-out of HCFCs by using HFO as foam blowing agent in the spray foam applications in high ambient temperatures (Saudi Arabia).

Activities related to HFC phase down

- 36) In 2019, additional one enabling activities project was approved for UNIDO to provide fast-start support for implementation of the Kigali Amendment bringing the number of countries being supported by UNIDO with enabling activities to 31. Furthermore, in 2019, one project preparation for the control of HFC-23 by-product emissions in the HCFC production sector in Mexico was approved for UNIDO. Details on UNIDO HFC projects can be found in the Excel file in Annex II and Annex IIa for HFC projects funded by additional contributions.

VI. Administrative Issues (Operational, Policy, Financial and Other Issues)

Meetings attended

37) UNIDO attended/participated in the following meetings in 2019:

#	Meeting	Location	Dates
1	Second Global Inter-Regional and Parallel Network Meetings for National Ozone Officers	Paris	17 - 20 February 2019
2	Parallel Twinning of National Ozone Officers and Energy Policymakers for Energy Efficient and Climate-Friendly Cooling	Paris	21-22 February 2019
3	Inter-Agency Coordination Meeting	Montreal	4 - 8 March 2019
4	CFC-11 Symposium	Vienna	25 - 27 March 2019
5	83rd ExCom Meeting	Montreal	27 - 31 May 2019
6	EUREKA Conference 2019 (HVACR)	Bruges	11 - 12 June 2019
7	62nd Meeting of the Implementation Committee under the Non-Compliance Procedure for the Montreal Protocol (ImpCom)	Bangkok	29 June 2019
8	41st Meeting of the Open-ended Working Group of the Parties (OEWG)	Bangkok	1 - 5 July 2019
9	NOU and Customs Workshop Training	Asuncion	18 - 24 August 2019
10	Inter-Agency Coordination Meeting	Montreal	09 - 11 October 2019
11	63rd Meeting of the Implementation Committee under the Non-Compliance Procedure for the Montreal Protocol (ImpCom)	Rome	2 November 2019
12	31st Meeting of the Parties (MOP)	Rome	4 - 8 November 2019
13	Europe and Central Asia (ECA) Ozone2Climate meeting with Montreal Protocol Officers and RAC Associations / Experts and participation in the 50th International HVAC&R Congress and Exhibition	Belgrade	4 - 6 December 2019
14	84th ExCom Meeting	Montreal	16 - 20 December 2019

Implementing agency and other cooperation

- 38) Cooperation with UNDP and the World Bank:
Several ongoing HPMP activities in different countries and regions are being implemented together with UNDP and/or the World Bank, among others the following Stage I HPMPs: Argentina, Bolivia, and Stage II HPMP in Brazil, Chile, Egypt, Iran, Jordan, Nigeria and Venezuela.
- 39) Cooperation with UNEP: UNIDO has been implementing 60 HPMPs together with UNEP until 2019. In 2019 12 tranches of ongoing HPMPs were approved with UNEP as lead or co-implementing agency in Egypt, Iran, Iraq, Cote d'Ivoire, Kuwait, Mozambique, Niger, Pakistan, Serbia, Tunisia (x2) and Turkey.
- 40) Participation in inter-agency meetings: As in the past years, UNIDO participated in all major inter-agency coordination meetings organized by either the Multilateral Fund Secretariat or by any of the other implementing agencies.
- 41) Cooperation with Bilateral Agencies: During 2019, UNIDO continued implementation of the ongoing bilateral projects.
- 42) Those bilateral projects under UNIDO's implementation, which have been ongoing or have been completed in 2019 are listed in the below table. The list is sorted in alphabetical order of the bilateral agencies. The list includes one HFC phase-down enabling activity project for Tunisia.

#	Bilateral Agency	Project Title	Country	Impact	Approved Funding (US\$)	Status
1	France	HCFC phase-out management plan (stage I, first tranche) (residential air-conditioning manufacturing sector plan)	Tunisia	0,4	97.690	CLO
2	France	HCFC phase-out management plan (stage I, first tranche) (refrigeration servicing sector)	Tunisia	0,5	38.000	COM
3	France	HCFC phase-out management plan (stage I, second tranche) (residential air-conditioning manufacturing sector plan)	Tunisia	1,5	356.397	CLO
4	France	HCFC phase-out management plan (stage I, second tranche) (refrigeration servicing sector)	Tunisia	0,5	38.000	COM
5	France	HCFC phase-out management plan (stage I, third tranche) (refrigeration servicing sector)	Tunisia	0	19.000	ONG
6	Italy	HCFC phase-out management plan (stage II, first tranche) (reclamation of HCFC refrigerants)	Mexico	0	458.191	ONG

6	Italy	HCFC phase-out management plan (Stage II, first tranche)(RAC sector)	China	10,3	891.892	ONG
7	Italy	HCFC phase-out management plan (stage II, first tranche) (foam sector)	Iran (Islamic Republic of)	7,1	403.203	ONG
10	Italy	HCFC phase-out management plan (stage II, second tranche) (foam sector)	Iran (Islamic Republic of)	8,9	504.004	ONG
8	Italy	HCFC phase-out management plan (stage II, first tranche) (refrigeration servicing sector)	Argentina	2,9	250.000	ONG
9	Italy	Enabling activities for HFC phase-down	Tunisia	0	75.000	ONG
14	Japan	Phase-out of HCFC-22 and HCFC-142b from the manufacture of extruded polystyrene panel at Al-Watania Plastics	Saudi Arabia	1,9	110.000	COM
15	Russia	Development of a regional centre of excellence for training and certification and demonstration of low-global warming potential alternative refrigerants	Europe	0	591.600	COM
17	Spain	HCFC phase-out management plan (stage II, second tranche) (cleaning agent phase-out in refrigeration servicing sector)	Mexico	2,3	76.991	ONG
18	Spain	HCFC phase-out management plan (stage II, second tranche) (phase-out of HCFC-22 and HCFC-141b in solvent)	Mexico	0	700.000	COM
19	Spain	HCFC phase-out management plan (stage II, second tranche) (refrigeration servicing sector)	Mexico	0	280.000	ONG
	Spain	HCFC phase-out management plan (stage II, third tranche) (refrigeration servicing sector)	Mexico	13,1	1.070.000	ONG

Other issues

- 43) The status of ongoing projects is described in Annex II. The success and timely implementation of these activities are crucial in the current compliance period. In order to ensure timely project completion of projects approved so far, and to facilitate compliance of the recipient countries with their MP obligations, in 2019, UNIDO has continued to practice the following initiatives, which supported successful project implementation:
- Regular missions to ozone offices and project sites are organized to monitor together with the ozone officers the implementation of national and/or sector phase-out plans and ongoing stand-alone projects. UNIDO visits the respective ozone offices at least once a year. When required, UNIDO fields ad-hoc missions and requests support from the field representatives, who are in regular contact with the ozone office of the country to organize training, clear equipment from the customs, recruit national experts, undertake local procurement, process project travels, etc.
 - Good cooperation with the national ozone offices has continued and regular follow up of the implementation process is being done by the staff of the ozone office together with UNIDO's national and international consultants and project managers. This ensures that effective actions on critical issues such as resolving bottlenecks in site preparation, customs clearance, installation, commissioning and safety certification, monitoring of destruction of ODS-related equipment are taken in a timely manner.
 - Due to security and/or political issues, UNIDO experienced delays in project implementation during 2019 in several countries.
- 44) UNIDO is regularly attending Regional Network Meetings and respective workshops providing additional support to our counterpart countries.
- 45) UNIDO also provides, when requested, support such as policy assistance, putting in place relevant legislation etc.

In June 2019, representatives from 27 countries attended the “Kigali in Action” Expert Group Meeting organized by UNIDO in Vienna.

The event brought together mostly representatives from National Ozone Units in Europe and Central Asia, Africa and Latin America and external experts. The workshop aimed to support Article 5 countries to better address the upcoming challenges of the Kigali Amendment to the Montreal Protocol, and to grasp the immediate and longer term opportunities offered by the Amendment. The topics included national licensing and quota systems, energy efficiency and low GWP alternatives, data collection and new reporting requirements and safety codes and standards. Over 2 days of interactive discussions and presentations, participants expressed the main priorities of their countries and shared their experiences in tackling the phase down of ozone depleting substances and high global warming potential HFCs, while at the same time also considering energy efficiency, safety and economic development.

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