

United Nations Environment Programme

Distr. GENERAL

UNEP/OzL.Pro/ExCom/93/18 20 November 2023

ORIGINAL: ENGLISH

EXECUTIVE COMMITTEE OF THE MULTILATERAL FUND FOR THE IMPLEMENTATION OF THE MONTREAL PROTOCOL Ninety-third Meeting Montreal, 15-19 December 2023 Item 7(a)(v) of the provisional agenda¹

PROGRESS REPORT OF UNIDO AS AT 31 DECEMBER 2022

Introduction

1. This document presents the progress report of UNIDO as at 31 December 2022.²

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 2022, 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 except for HFCs which are measured in CO_2 -eq tonnes.³

4. This document consists of the following sections:

I. Projects approved for all controlled substances under the regular contributions to the Multilateral Fund. It presents a summary of progress in implementation of projects for 2022 and cumulative since 1993⁴ addressing all controlled substances under the Montreal Protocol, including Annex F substances (HFCs). It also contains a review on the status of

¹ UNEP/OzL.Pro/ExCom/93/1

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 CO₂-eq tonnes is included in the progress reports submitted to the 93^{rd} meeting.

⁴ UNIDO became an implementing agency in 1993.

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

implementation of each ongoing⁵ project at the country level. 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.

- II. Projects approved for Annex F substances (HFCs) under the additional voluntary contributions for fast-start support for HFC phase-down.⁶
- III. Recommendation.

I. Projects approved for all controlled substances under the regular contributions to the Multilateral Fund

I.1 Progress in implementation of projects for 2022 and cumulative since 1993

5. As of 31 December 2022, the Executive Committee had approved US \$1.02 billion in projects for UNIDO, consisting of US \$895.88 million for the implementation of investment and non-investment projects, and US \$119.22 million for agency support costs, as shown in table 1.

Sector	Funding (US \$)
Aerosol	34,397,921
Destruction	3,805,540
Foam	89,066,904
Halon	1,780,369
HFC phase-down plan	4,194,000
Fumigants	78,028,741
Multiple sectors	139,440
Other	11,317,246
Phase-out plan	388,710,642
Process agent	6,337,359
Production	50,638,105
Refrigeration	182,310,825
Several	21,904,344
Solvents	23,247,443
Sub-total	895,878,878
Agency support costs	119,222,126
Total	1,015,101,004

Table 1. Approved funding by sector for UNIDO as at 31 December 2022

6. In 2022, 66 new projects and activities were approved. This level of funding is expected to result in the phase-out of 84,246 ODP tonnes of consumption and production and 226,432 CO₂-eq tonnes of consumption of controlled substances. Annex I shows the status of project implementation per country in 2022.

⁵ Ongoing projects are all projects that were under implementation as at 31 December 2022. 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.

⁶ 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/93/14).

7. Table 2 shows the status of project implementation including fund disbursement per project type as at 31 December 2022. Annex II presents analytical information per year since 1993.

Туре	Nu	mber of proj	jects*	Funding (US \$)**					
	Approved	Completed	% completed	Approved	Disbursed	Balance	% disbursed		
Country programme	11	11	100	722,669	722,669	0	100		
Demonstration	43	42	98	23,405,832	22,730,368	675,464	97		
Institutional	102	83	81	17,306,395	14,307,697	2,998,698	83		
strengthening (IS)									
Investment	1,000	879	88	801,373,629	723,710,037	77,663,592	90		
Project preparation	597	534	89	27,274,254	23,312,172	3,962,082	85		
Technical assistance	213	186	87	24,599,563	21,453,904	3,145,659	87		
Training	23	23	100	1,196,535	1,196,535	0	100		
Total	1,989	1,758	88	895,878,878	807,433,382	88,445,496	90		

 Table 2. Status of project implementation by type as at 31 December 2022

* Excludes closed and transferred projects.

** Excludes agency support costs.

8. Implementation of projects and activities by UNIDO for 2022 and cumulative since 1993 up to 31 December 2022, is summarized as follows:

- (a) Phase-out:⁷ In 2022, 424.0 ODP tonnes of consumption of controlled substances were phased out⁸ and an additional 938.1 ODP tonnes of consumption of controlled substances were approved for phase-out. Since 1993, 64,672 ODP tonnes of consumption of controlled substances and 17,381 ODP tonnes of production of controlled substances had been phased out,⁹ of an expected total of 84,246 ODP tonnes and 226,432 CO₂-eq tonnes from projects approved (excluding cancelled and transferred projects);
- (b) Disbursements/approvals: In 2022, US \$22.29 million was disbursed and US \$21.22 million was planned for disbursement based on the 2021 progress report, representing a rate of disbursement of 105 per cent of that planned. Cumulatively, US \$807.43 million had been disbursed out of the total US \$895.88 million approved for disbursement (excluding agency support costs), representing a rate of disbursement of 90 per cent. In 2022, US \$20.32 million was approved for implementation;
- (c) **Cost-effectiveness (in ODP):**¹⁰ Since 1993, the average cost-effectiveness of investment projects approved leading to a permanent reduction in consumption was US \$11.52/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 \$8.74/kg for completed projects and US \$33.13/kg for ongoing projects;¹¹
- (d) **Number of projects completed:** In 2022, 67 projects were completed. Since 1993, 1,758 projects of the 1,989 projects approved (excluding closed or transferred projects) were completed, representing a completion rate of 88 per cent;

⁷ Phase-out of ODS is expressed in ODP tonnes and of HFCs in CO₂-eq tonnes.

⁸ No phase-out for HFC-related projects in 2022.

⁹ No phase-out so far for HFC-related projects.

¹⁰ Including 129.1 mt of HFC investment projects. Cost-effectiveness in CO₂-eq. is not included due to the limited number of projects approved.

¹¹ 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.

- (e) Speed of delivery investment projects: Projects that were completed in 2022 were completed on average 61 months after their approval. Since 1993, the average time for completion of investment projects has been 40 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 2022 were completed on average 45 months after their approval. Since 1993, the average time for completion of non-investment projects has been 36 months after their approval. First disbursements under these projects occurred, on average, nine months after they had been approved;
- (g) **Project preparation:** Of the 597 project preparation activities approved by the end of 2022, 534 have been completed, leaving 63 ongoing activities. In 2022, 26 preparation activities have been completed;
- (h) Implementation delays: A total of 231 projects were under implementation at the end of 2022, experiencing, on average, a delay of 15 months. Thirty-eight of these projects are classified as "projects with implementation delays"¹² 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 2022, two MYAs for the control and phase-out of HFC-23 emissions, 74 MYAs for HCFC phase-out management plans (HPMPs) and one Kigali HFC implementation plan (KIP) were under implementation. Since 1993, 208 MYAs have been approved and 131 MYAs have been completed, representing a completion rate of 63 per cent.
- 9. Table 3 summarized progress made by UNIDO since 1993.

Phase	e out	Disbursement	Average		Number		Speed of delivery for		Average	Number	of MYAs
achie	eved	(US \$)	CE (US\$/kg)		of projects		completion (months)		project		
ODP	CO ₂ -eq		Consump-	Produc-	Approved	Completed	Investment	Non-	delays	Approved	Completed
tonnes*	tonnes		tion	tion				investment	(months)		
82,053	0	807,433,382	11.52	2.90	1,989	1,758	40	36	15	208	131

Table 3: Progress made by UNIDO since 1993

*Consumption and production

HFC-related projects

10. As of 31 December 2022, the Executive Committee had approved 54 HFC-related projects (including five investment projects, 46 preparation projects and three enabling activities) under regular contributions amounting to US \$8,699,914 (excluding agency support costs). A summary of the status of these projects is presented in table 4 and the respective data has already been included in paragraphs 5 to 9.

Туре	N	umber of pro	jects	Funding (US \$)*				
	Approved	Completed	% completed	Approved	Disbursed	Balance	% disbursed	
Investment**	5	0	0	3,996,404	2,445,970	1,550,434	61	
Project preparation	46	4	9	4,303,510	1,121,060	3,182,450	26	

¹² 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).

Туре	N	umber of pro	jects	Funding (US \$)*				
	Approved	Completed	% completed	Approved	Disbursed	Balance	% disbursed	
Technical assistance -	3	3	100	400,000	359,057	40,943	90	
Enabling activities								
Total	54	7	13	8,699,914	3,926,087	4,773,826	45	

* Excludes agency support costs.

** 129.1 mt (226,432 CO₂-eq tonnes) of HFCs was approved for phase-out.

11. As of the end of 2022, of the 54 projects, four preparation projects and three enabling activities have been completed, leaving 47 ongoing.

12. Of the five ongoing HFC investment projects, stage I of the KIP for the Niger (advance funding) was approved at the 91st meeting and is expected to be completed in 2025. The others, approved at the 81st, 86th, 87th and 91st meetings, are at various stages of implementation.

13. Of the total cumulative funding approved of US \$8,699,914 (excluding agency support costs), US \$3,926,087 had been disbursed, representing a disbursement rate of 45 per cent.

I.2 Issues identified in project implementation in 2022

14. Further to the review process, several issues were discussed and satisfactorily addressed, except for issues on 38 projects classified as projects with implementation delays (including 36 projects related to components of MYAs that are subject to procedures for project cancellation, in line with decision 84/45(c); one technical assistance project; and one investment project). Annex III to the present document presents those projects classified with implementation delays, and the Secretariat's recommendations requesting the submission of a report to the 94th meeting.

15. In addition, issues have been identified regarding projects or tranches of MYAs for the phase-out of HCFCs. These issues are also presented in annex III. 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.

16. Details of progress in implementation of projects associated with the HPMPs for Bahrain,¹³ Bolivia (Plurinational State of),¹⁴ China (extruded polystyrene foam sector plan),¹⁵ Ecuador,¹⁶ the Gambia,¹⁷ Guatemala,¹⁸ Guinea,¹⁹ Morocco,²⁰ North Macedonia,²¹ Oman,²² the Philippines,²³ Qatar,²⁴ Sierra Leone,²⁵ Suriname,²⁶ Türkiye,²⁷ and Venezuela (Bolivarian Republic of),²⁸ and reports on projects with specific reporting requirements²⁹ associated with Argentina (HFC-23 by-product and global chiller

¹³ UNEP/OzL.Pro/ExCom/93/41

¹⁴ UNEP/OzL.Pro/ExCom/93/43

¹⁵ UNEP/OzL.Pro/ExCom/93/47

¹⁶ UNEP/OzL.Pro/ExCom/93/52

¹⁷ UNEP/OzL.Pro/ExCom/93/54

¹⁸ UNEP/OzL.Pro/ExCom/93/57

¹⁹ UNEP/OzL.Pro/ExCom/93/58

²⁰ UNEP/OzL.Pro/ExCom/93/72

²¹ UNEP/OzL.Pro/ExCom/93/78

²² UNEP/OzL.Pro/ExCom/93/79

²³ UNEP/OzL.Pro/ExCom/93/82

²⁴ UNEP/OzL.Pro/ExCom/93/83

²⁵ UNEP/OzL.Pro/ExCom/93/86

²⁶ UNEP/OzL.Pro/ExCom/93/88

²⁷ UNEP/OzL.Pro/ExCom/93/90

²⁸ UNEP/OzL.Pro/ExCom/93/92

²⁹ UNEP/OzL.Pro/ExCom/93/20 or UNEP/OzL.Pro/ExCom/93/21

replacement project), Côte d'Ivoire (HPMP) and Libya (HPMP), have been submitted to the 93rd meeting. Recommendations for outstanding issues for these projects, including approval of extension requests, if any, are addressed in the relevant sections of those documents. The issues relating to the HPMPs for Afghanistan, Algeria, Bosnia and Herzegovina, Botswana, Egypt, Iraq, Kuwait, and Senegal, tranches of which were due at the 93rd meeting but were not submitted, and for China (room air-conditioner manufacturing and heat pump water heaters sector plan) and the Islamic Republic of Iran, tranches of which were submitted but later withdrawn, are addressed in the document on tranche submission delays.³⁰ Outstanding issues for the remaining ongoing projects not included in annex III to the present document, and requests for extension of dates of completion, are addressed below.

17. Of the 149 ongoing projects, excluding IS and project preparation, 53 projects have revised planned dates of completion since the 2021 progress report.

18. In line with decision 82/11(b),³¹ UNIDO has requested the extension of the duration of two projects, as shown in table 5.

Country/ project code	Project title	Disburse- ment (%)	Status/issues	Original date of completion	Date of completion requested
JOR/PHA/91/INV/114	HCFC phase-out management plan (stage II, third tranche)		Additional time required for completing procurement of identifiers and training of trainers in good servicing practices	Dec-23	Dec-24
SUD/PHA/75/INV/38	HCFC phase-out management plan (stage II, first tranche) (foam sector)		Additional time required to complete equipment supply, installation and commissioning at Mina Factory and Target Steel	Dec-23	Dec-24

Table 5. Projects for which an extension of the completion dates has been requested

19. With regard to the HPMP for Myanmar, UNIDO informed the Secretariat that due to the political situation in the country, it is unable to communicate with the Government authorities and continue implementation. In consultation with the agency, it was agreed that the preparation of stage II of the HPMP (MYA/PHA/83/PRP/20) would be cancelled and the remaining balances would be returned in line with decision 28/7.

Gender mainstreaming³²

20. In 2022, UNIDO has implemented the Multilateral Fund operational policy on gender mainstreaming in 66 countries as part of projects approved since the 85th meeting. When preparing and submitting the project proposals, UNIDO tries to include to the extent possible activities that would address gender equality and women's empowerment. The checklists and potential indicators included in the project guides are used for that purpose.

21. UNIDO, as an organization, acknowledges the substantial positive impact of gender equality and women's empowerment on sustained economic growth and the promotion of sustainable industrial development. These factors are instrumental in driving poverty reduction and fostering social integration.

³⁰ UNEP/OzL.Pro/ExCom/93/24

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.

 $^{^{32}}$ The Executive Committee requested bilateral and implementing agencies to provide a brief report on key gender mainstreaming results achieved as part of their annual progress reports, as of 2023, on the basis of the information available to them (decision 90/48(d)).

Consequently, the organization has instituted its own policy and strategy for gender mainstreaming with the goal of achieving tangible outcomes.

22. The integration of gender mainstreaming into project implementation encompasses several key aspects starting from representation of women in project team constitution and recruitment process, participation of women in different capacity building and awareness raising activities and other project implementation monitoring and reporting processes.

23. UNIDO is actively engaged in identifying potential female technicians and engineers who could pursue careers in this sector, offering tailored training programmes. The success of these initiatives varies from country to country. Additional information relating to country level activities is provided in section VI of UNIDO's narrative attached to the present document.

24. From the experiences garnered thus far, it is evident that there exists immense potential for advancing gender mainstreaming within the Montreal Protocol portfolio. In this regard, UNIDO stands prepared to continue implementing the Multilateral Fund operational policy on gender mainstreaming, incorporating gender mainstreaming activities within existing budgetary constraints, while also being ready to develop more comprehensive programmes within the stages of MYA projects, such as HPMPs or KIPs.

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

25. As of 31 December 2022, the Executive Committee had approved 35 HFC-related projects under the additional voluntary contributions amounting to US \$8,043,152 (excluding agency support costs). A summary of the status of these projects is presented in table 6.

Туре	Nu	mber of pro	jects	Funding (US \$)*				
	Approved	Completed	% completed	Approved	Disbursed	Balance	% disbursed	
Investment**	3	3	100	3,898,752	2,450,030	1,448,722	63	
Project preparation	4	4	100	101,270	101,270	0	100	
Technical assistance – Enabling activities	28	28	100	4,043,130	3,697,732	345,398	91	
Total	35	35	100	8,043,152	6,249,032	1,794,120	78	

 Table 6. Status of approved HFC-related projects as of the end of 2022

* Excludes agency support costs.

** 189.4 mt (370,517 CO₂-eq tonnes) of 286.0 mt (508,586 CO₂-eq tonnes) of HFCs had been phased out.

26. As of the end of 2022, all the 35 projects approved had been completed.

27. Of the total cumulative funding approved of US \$8,043,152, US \$6,249,032 had been disbursed representing a disbursement rate of 78 per cent.

III. Recommendation

- 28. The Executive Committee may wish:
 - (a) To note the progress report of UNIDO as at 31 December 2022 contained in document UNEP/OzL.Pro/ExCom/93/18;
 - (b) To approve the extension, to 31 December 2024, of the completion dates of the HCFC phase-out management plans (HPMPs) for the countries listed below to allow for

completion of the remaining ongoing activities as reflected in table 5 of document UNEP/OzL.Pro/ExCom/93/18:

- (i) Jordan (stage II, third tranche) (JOR/PHA/91/INV/114); and
- (ii) Sudan (the) (stage II, first tranche) (foam sector) (SUD/PHA/75/INV/38);
- (c) To cancel the preparation of stage II of the HPMP for Myanmar (MYA/PHA/83/PRP/20) and to request UNIDO to return the remaining balances in line with decision 28/7; and
- (d) To approve the recommendations related to ongoing projects with specific issues contained in annex III to the present document.

Annex I

OVERVIEW OF STATUS OF PROJECT IMPLEMENTATION FOR UNIDO PER COUNTRY FOR 2022

1. Table 1 of annex I presents the status of project implementation by country for 2022 in achieved phased out, planned and achieved disbursements and project completion.

Country	Phased out	Phased out		Funds	Percentage of	Percentage of
	in 2022	in 2022	funds	disbursed in	funds disbursed	planned projects
	(ODP	(CO ₂ -eq	disbursed in	2022 (US\$)	over estimation	completed in
	tonnes)	tonnes)*	2022 (US\$)		in 2022	2022**
Afghanistan	0.0	0	3	9	316	0
Albania	0.0	0	79,400	47,792	60	
Algeria	0.0	0	58,002	57,316	99	100
Argentina	17.1	0	800,804	760,557	95	
Armenia	0.0	0	50,000	90,601	181	
Bahamas (the)	0.0	0	28,400	10,038	35	100
Bahrain	0.0	0	79,001	38,744	49	100
Benin	0.1	0	600	4,703	784	100
Bolivia (Plurinational State	0.4	0	100,000	141,982	142	
of)			-			
Bosnia and Herzegovina	0.6	0	93,280	50,712	54	100
Botswana	0.1	0	55,700	21,750	39	50
Brazil	6.1	0	194,000	295,297	152	
Burkina Faso	0.0	0	11,500	7,816	68	0
Burundi	0.0	0	6,500	5,775	89	100
Cameroon	0.3	0	118,000	107,107	91	
Chad	0.0	0	20,000	19,144	96	100
Chile	8.6	0	130,001	131,704	101	
China	1.0	0	10,782,503	11,002,040	102	
Congo (the)	0.0	0	2,600	0	0	100
Cote d'Ivoire	10.7	0	160,000	362,670	227	100
Democratic People's	0.0	0	3	20,548	684,931	
Republic of Korea (the)		_	_	- ,		
Ecuador	0.0	0	380,000	458,930	121	0
Egypt	11.3	0	1,071,302	807,371	75	50
Equatorial Guinea	0.0	0	1,000	0	0	0
Eritrea	0.0	0	1	12	1,182	
Ethiopia	0.0	0	6,301	1,103	18	
Gabon	4.9	0	35,000	5,149	15	50
Gambia (the)	0.0	0	23,001	1,424	6	
Grenada	0.0	0	1	0	0	
Guatemala	0.4	0	101,650	110,912	109	
Guinea	0.0	0	16,000	4,273	27	100
Guinea-Bissau	0.0	0	3,000	0	0	0
Honduras	0.4	0	78,000	152,090	195	<u>_</u>
Iran (Islamic Republic of)	3.8	0	122,000	45,060	37	
Iraq	0.0	0	856,501	314,883	37	
Jordan	0.0	0	143,002	171,605	120	100
Kuwait	204.0	0	712,834	213,596	30	100
Lebanon	0.0	0	10,000	24,155	242	100
Lesotho	0.0	0	5,000	2,974	59	
Liberia	0.0	0	7,000	6,933	99	100

Table 1. Status of project implementation by UNIDO for 2022

UNEP/OzL.Pro/ExCom/93/18 Annex I

Madagascar(Malawi(Mauritania(Mauritania(Mexico18Montenegro(Morocco8Morocco8Morocco8Mozambique(Myanmar(Namibia(Nicaragua(Niger (the)1Nigeria(North Macedonia(Oman(Pakistan41Philippines (the)(Qatar(Rwanda(Saint Lucia(Senegal(Serbia(South Africa78Sudan (the)(Syria(Türkiye(Turkmenistan(Uganda(2	Phased out in 2022 (CO ₂ -eq tonnes)*	funds disbursed in 2022 (US\$)	2022 (US\$)	Percentage of funds disbursed over estimation in 2022	completed in 2022**
Malawi(Mauritania(Mauritania(Mauritania(Mexico18Montenegro(Morocco8Mozambique(Myanmar(Namibia(Nicaragua(Niger (the)1Nigeria(North Macedonia(Oman(Pakistan41Philippines (the)(Qatar(Rwanda(Saudi Arabia(Senegal(Serbia(South Africa78Sudan (the)(Syria(Turkmenistan(Uganda(Uganda(Uganda(United Republic of Tanzania(.7	0	265,000	201,783	76	25
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Montenegro(Morocco8Mozambique(Myanmar(Namibia(Namibia(Nicaragua(Niger (the)1Nigeria(North Macedonia(Oman(Pakistan41Philippines (the)(Qatar(Rwanda(Saudi Arabia(Seregal(Sierra Leone(South Africa78Sudan (the)(Syria(Togo(Turkmenistan(Uganda(Uganda(Uganda(Uganda(United Republic of Tanzania(0.	0	5,000	0	0	
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Myanmar(Namibia(Nicaragua(Niger (the)(Nigeria(North Macedonia(Oman(Pakistan(Pakistan(Philippines (the)(Qatar(Rwanda(Saint Lucia(Saudi Arabia(Senegal(Serbia(South Africa78Sudan (the)(Syria(Togo(Turkiye(Turkiye(Uganda(Uganda(United Republic of Tanzania(.1	0	103,600	122,022	118	100
Namibia(Nicaragua(Niger (the)1Nigeria(North Macedonia(Oman(Pakistan41Philippines (the)(Qatar(Rwanda(Saint Lucia(Saudi Arabia(Senegal(Serbia(South Africa78Sudan (the)(Syria(Togo(Turkmenistan(Uganda(Uganda(United Republic of Tanzania(0.	0	60,000	32,263	54	100
Nicaragua(Niger (the)1Nigeria(North Macedonia(Oman(Pakistan41Philippines (the)(Qatar(Rwanda(Saint Lucia(Saudi Arabia(Senegal(Serbia(South Africa78Sudan (the)(Syria(Togo(Turkmenistan(Uganda(Uganda(United Republic of Tanzania(0.	0	2	0	9	
Niger (the)INigeria(1)Nigeria(1)North Macedonia(1)Oman(1)Pakistan(1)Pakistan(1)Philippines (the)(1)Qatar(1)Qatar(1)Rwanda(1)Saint Lucia(1)Saudi Arabia(1)Senegal(1)Serbia(1)Sierra Leone(1)South Africa(7)Sudan (the)(2)Suriname(1)Syria(1)Togo(1)Turkiye(2)Turkmenistan(1)Uganda(2)United Republic of Tanzania(1)	.0	0	20,000	29,567	148	
Nigeria()Nigeria()North Macedonia()Oman()Pakistan()Pakistan()Qatar()Qatar()Qatar()Saint Lucia()Saudi Arabia()Senegal()Serbia()Sierra Leone()South Africa78Sudan (the)()Syria()Togo()Tunisia()Turkmenistan()Uganda()United Republic of Tanzania()	.1	0	96,000	96,452	100	
North Macedonia(Oman(Pakistan(Pakistan(Philippines (the)(Qatar(Rwanda(Saint Lucia(Saudi Arabia(Senegal(Serbia(Sierra Leone(Somalia(South Africa78Sudan (the)(Syria(Togo(Tunisia(Turkmenistan(Uganda(United Republic of Tanzania(.1	0	163,001	227,803	140	100
Oman()Pakistan41Philippines (the)()Qatar()Qatar()Rwanda()Saint Lucia()Saudi Arabia()Senegal()Serbia()Sierra Leone()South Africa78Sudan (the)()Syria()Togo()Turkiye()Turkiye()Uganda()United Republic of Tanzania()	0.	0	16,250	8,766	54	
Pakistan41Philippines (the)0Qatar0Qatar0Rwanda0Saint Lucia0Saudi Arabia0Senegal0Serbia0Sierra Leone0South Africa78Sudan (the)2Syria0Togo0Tunisia0Turkmenistan0Uganda0United Republic of Tanzania0	.1	0	150,003	165,795	111	100
Philippines (the)(Qatar(Qatar(Rwanda(Saint Lucia(Saudi Arabia(Senegal(Serbia(Serbia(Sierra Leone(South Africa78Sudan (the)(Syria(Togo(Tunisia(Türkiye(Turkmenistan(Uganda(United Republic of Tanzania(0.	0	106,073	96,447	91	100
Qatar()Rwanda()Saint Lucia()Saudi Arabia()Senegal()Serbia()Serbia()Sierra Leone()South Africa78Sudan (the)()Suriname()Syria()Togo()Tunisia()Türkiye()Turkmenistan()Uganda()United Republic of Tanzania()		0	719,601	1,537,370	214	75
Rwanda()Saint Lucia()Saudi Arabia()Senegal()Serbia()Sierra Leone()South Africa78Sudan (the)()Suriname()Syria()Togo()Tunisia()Turkmenistan()Uganda()United Republic of Tanzania()	0.	0	90,000	124,335	138	
Saint Lucia()Saudi Arabia()Senegal()Serbia()Sierra Leone()Somalia()South Africa78Sudan (the)()Suriname()Syria()Togo()Tunisia()Türkiye()Turkmenistan()Uganda()United Republic of Tanzania()	0.	0	80,001	58,233	73	
Saudi Arabia()Senegal()Serbia()Sierra Leone()Somalia()South Africa78Sudan (the)()Suriname()Syria()Togo()Tunisia()Türkiye()Turkmenistan()Uganda()United Republic of Tanzania()	.0	0	55,001	4,629	8	
Senegal()Serbia()Sierra Leone()Somalia()South Africa78Sudan (the)()Suriname()Syria()Togo()Tunisia()Türkiye()Turkmenistan()Uganda()United Republic of Tanzania()	.0	0	20,001	51	0	
Serbia()Sierra Leone()Somalia()South Africa78Sudan (the)2Suriname()Syria()Togo()Tunisia()Türkiye()Turkmenistan()Uganda()United Republic of Tanzania()	.0	0	225,006	543,572	242	50
Sierra Leone()Somalia()South Africa78Sudan (the)()Suriname()Syria()Togo()Tunisia()Türkiye()Turkmenistan()Uganda()United Republic of Tanzania()	.0	0	53,000	12,262	23	100
Somalia(South Africa78Sudan (the)2Suriname(Syria(Togo(Tunisia(Türkiye(Turkmenistan(Uganda(United Republic of Tanzania(.0	0	110,002	113,062	103	0
South Africa78Sudan (the)2Suriname0Syria0Togo0Tunisia0Türkiye0Turkmenistan0Uganda0United Republic of Tanzania0	.0	0	25,002	6,221	25	
Sudan (the)4Suriname0Syria0Togo0Tunisia0Türkiye0Turkmenistan0Uganda0United Republic of Tanzania0	.0	0	83,000	66,701	80	50
Suriname()Syria()Togo()Tunisia()Türkiye()Turkmenistan()Uganda()United Republic of Tanzania()		0	603,001	599,708	99	100
Syria()Togo()Tunisia()Türkiye()Turkmenistan()Uganda()United Republic of Tanzania()	.2	0	170,900	232,935	136	100
Togo()Tunisia()Türkiye()Turkmenistan()Uganda()United Republic of Tanzania()	.0	0	1,501	8,500	566	100
Tunisia()Türkiye()Turkmenistan()Uganda()United Republic of Tanzania()	.0	0	153,201	197,467	129	100
Türkiye(Turkmenistan(Uganda(United Republic of Tanzania(.0	0	11,900	7,447	63	100
Turkmenistan()Uganda()United Republic of Tanzania()	.0	0	205,001	221,899	108	0
Uganda (United Republic of Tanzania	.0	0	147,000	175,017	119	0
United Republic of Tanzania (.0	0	93,000	83,474	90	0
	.0	0	28,000	26,377	94	
	.0	0	40,000	10,406	26	
	.0	0	99,000	136,152	138	50
	.0	0	35,001	40,026	114	0
	.0	0	87,000 21,222,040	130,665 22,292,292	150 105	100 72

* No phase-out in 2022 for HFC-related projects. ** For projects that were planned to be completed in 2022.

Annex II

OVERVIEW OF STATUS OF PROJECT IMPLEMENTATION FOR UNIDO PER YEAR AS AT 31 DECEMBER 2022

1. Table 1 of annex II presents an overview of the status of project implementation by year.¹ All projects and activities approved between 1993 and 2011, have now been completed.

Vacr	Nı	umber of proj	ects*		Funding (US \$)**	
Year	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	-1	100
1996	46	46	100	19,820,493	19,820,493	0	100
1997	130	130	100	42,083,037	42,083,038	-1	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	24,700,255	-1	100
2002	76	76	100	35,992,041	35,992,041	0	100
2003	49	49	100	29,997,305	29,997,305	0	100
2004	44	44	100	33,105,459	33,105,460	-1	100
2005	74	74	100	52,035,808	52,035,806	2	100
2006	44	44	100	20,760,312	20,760,312	0	100
2007	42	42	100	24,186,740	24,186,740	0	100
2008	77	77	100	33,386,108	33,386,111	-3	100
2009	70	70	100	15,345,924	15,054,995	290,929	98
2010	69	69	100	46,081,793	45,558,786	523,006	99
2011	71	71	100	76,542,461	76,542,380	81	100
2012	52	49	94	32,670,641	31,681,748	988,893	97
2013	37	36	97	31,117,693	31,086,604	31,089	100
2014	55	53	96	27,835,611	27,094,088	741,523	97
2015	83	75	90	37,085,970	32,640,253	4,445,716	88
2016	58	49	84	35,651,882	23,545,443	12,106,439	66
2017	28	24	86	16,417,092	14,442,589	1,974,503	88
2018	62	52	84	27,012,958	12,127,844	14,885,114	45
2019	66	35	53	19,210,508	7,432,234	11,778,274	39
2020	58	27	47	15,346,833	13,196,259	2,150,574	86
2021	73	7	10	23,091,580	4,531,688	18,559,892	20
2022	66	0	0	20,317,479	348,013	19,969,466	2
Total	1,989	1,758	88	895,878,878	807,433,382	88,445,496	90

Table 1. Status	of proje	ct implem	entation b	y year
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* Excludes closed and transferred projects.

** Excludes agency support costs.

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 tonnes/CO₂-eq tonnes phased out, and percentage of funds disbursed. There are three types of disbursements: during implementation, after implementation and for retroactively financed projects.

Annex III

ONGOING PROJECTS WITH OUTSTANDING ISSUES IN THE PROGRESS REPORT FOR UNIDO

Country/project code	Project title	Disbursement (%)	Status/Issues	Recommendation
Afghanistan AFG/PHA/79/INV/22	HCFC phase-out management plan (stage I, third tranche)	14	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Afghanistan AFG/PHA/85/INV/28	HCFC phase-out management plan (stage I, fourth tranche)	0	12 and 18 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Afghanistan AFG/PHA/85/INV/30	HCFC phase-out management plan (stage II, first tranche)	3	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
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 94 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)	62	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Argentina ARG/PHA/84/INV/192	HCFC phase-out management plan (stage II, second tranche) (foam sector)	1	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Argentina ARG/PHA/84/TAS/193	HCFC phase-out management plan (stage II, second tranche) (refrigeration servicing sector)	10	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Bosnia and Herzegovina BHE/PHA/86/TAS/38	Verification report on implementation of stage I of the HCFC phase-out management plan	0	12 and 18 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Botswana BOT/PHA/82/INV/21	HCFC phase-out management plan (stage I, second tranche)	12	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Botswana BOT/PHA/86/INV/27	HCFC phase-out management plan (stage II, first tranche)	0	18 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Brazil BRA/PHA/75/INV/311	HCFC phase-out management plan (stage II, first tranche) (commercial refrigeration and air-conditioning sector)	97	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Brazil BRA/PHA/75/TAS/308	HCFC phase-out management plan (stage II, first tranche) (project monitoring)	99	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Brazil BRA/PHA/82/INV/320	HCFC phase-out management plan (stage II, third tranche) (commercial refrigeration and air-conditioning sector)	48	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays

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Country/project code	Project title	Disbursement (%)	Status/Issues	Recommendation
Cameroon CMR/PHA/82/INV/45	HCFC phase-out management plan (stage II, first tranche)	47	(i) 12 months delays(ii) Delay inimplementation due tooperational challenges	 (i) To request UNIDO to report to the 94th meeting on this project with implementation delays (ii) To request UNIDO to submit a status report to the 94th meeting on implementation progress
Chile CHI/PHA/81/TAS/196	HCFC phase-out management plan (stage II, second tranche) (refrigeration servicing sector)	30	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
China CPR/PHA/77/INV/576	HCFC phase-out management plan (stage II, first tranche) (room air-conditioner manufacturing and heat pump water heaters sector plan)	30	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
China CPR/PHA/81/INV/588	HCFC phase-out management plan (stage II, second tranche) (room air-conditioner manufacturing and heat pump water heaters sector plan)	30	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
China CPR/PHA/88/INV/605	HCFC phase-out management plan (stage II, third tranche) (room air-conditioning manufacturing and heat pump water heaters sector plan)	0	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Egypt EGY/PHA/79/INV/133	HCFC phase-out management plan (stage II, first tranche) (polyurethane foam sector)	76	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Egypt EGY/PHA/84/INV/141	HCFC phase-out management plan (stage II, second tranche) (refrigeration servicing sector and project management unit)	64	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Egypt EGY/PHA/84/INV/147	HCFC phase-out management plan (stage II, second tranche) (residential air-conditioning manufacturing sector)	26	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Iran (Islamic Republic of) IRA/PHA/77/INV/228	HCFC phase-out management plan (stage II, first tranche) (foam sector)	65	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Iran (Islamic Republic of) IRA/PHA/84/INV/239	HCFC phase-out management plan (stage II, second tranche) (foam sector)	7	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Iran (Islamic Republic of) IRA/PHA/84/TAS/240	HCFC phase-out management plan (stage II, second tranche) (refrigeration servicing sector)	2	12 months delays	To request UNIDO to report to the 94 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)	99	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays

Country/project code	Project title	Disbursement (%)	Status/Issues	Recommendation
Jordan JOR/REF/81/INV/103	Conversion of large commercial unitary roof top air-conditioning units of up to 400kW manufacturing facility from HFC (R-134a, R-407c, R-410a) to propane R290 as refrigerant at Petra Engineering Industries Co.	93	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Mexico MEX/PHA/73/INV/174	HCFC phase-out management plan (stage II, first tranche) (cleaning agent phase-out in refrigeration servicing sector)	100	12 months delays	Noting decision 77/8(j), to request UNIDO to report to the 94 th meeting on this project with implementation delays
Mexico MEX/PHA/77/INV/183	HCFC phase-out management plan (stage II, second tranche) (refrigeration servicing sector)	100	12 months delays	Noting decision 77/8(j), to request UNIDO to report to the 94 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)	32	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Mozambique MOZ/PHA/83/INV/31	HCFC phase-out management plan (stage I, third and fourth tranches)	27	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Pakistan PAK/PHA/76/INV/94	HCFC phase-out management plan (stage II, first tranche) (polyurethane foam sector)	77	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Pakistan PAK/PHA/83/INV/102	HCFC phase-out management plan (stage II, second tranche) (polyurethane foam sector)	39	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Pakistan PAK/PHA/83/INV/99	HCFC phase-out management plan (stage II, second tranche) (domestic air-conditioning sector)	55	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Pakistan PAK/PHA/83/TAS/100	HCFC phase-out management plan (stage II, second tranche) (project management unit)	53	12 months delays	To request UNIDO to report to the 94 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)	99	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
South Africa SOA/PHA/71/INV/06	HCFC phase-out management plan (stage I, second tranche) (refrigeration servicing, custom training and monitoring)	96	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays
Sudan (the) SUD/PHA/75/INV/38	HCFC phase-out management plan (stage II, first tranche) (foam sector)	31	(i) 12 months delays(ii) Implementationdelayed due to politicalsituation	 (i) To request UNIDO to report to the 94th meeting on this project with implementation delays (ii) To request UNIDO to submit a status report to the 94th meeting on the status of implementation of activities

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Country/project code	Project title	Disbursement (%)	Status/Issues	Recommendation
Sudan (the) SUD/PHA/88/INV/48	HCFC phase-out management plan (stage III, first tranche)	3	Implementation delayed due to political situation	To request UNIDO to submit a status report to the 94 th meeting on the status of implementation of activities
Zambia ZAM/PHA/77/INV/33	HCFC phase-out management plan (stage I, third tranche)	28	12 months delays	To request UNIDO to report to the 94 th meeting on this project with implementation delays



UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

UNIDO Progress and Financial Report 2022

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I. Project Approvals and Disbursements

Annual summary data

- 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 1993-2022 approved for UNIDO activities under the Multilateral Fund amount to US\$ 895,878,878, 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 2022. 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\$ 8,066,306 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 2022, UNIDO's cumulative disbursement for all projects (completed and ongoing) amounts to US\$ 807,433,382 excluding agency support cost, core unit funding and disbursements in projects funded by additional contributions. This corresponds to a delivery rate of 90 per cent. Out of this amount, US\$ 723,710,037 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 – 2022 amounts to US\$ 42,413,373 and is shown by years in the Table 1 "Annual Summary" in the Excel file. The interest earned in 2022 amounts to US\$ 553,638.

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.

Туре	Approved Funding US\$*	Share of portfolio in per cent	Number of projects* *	Share of portfolio in per cent
CPG (Country Programme Preparation)	815,000	0.09%	11	0.55%
DEM (Demonstration projects)	26,091,990	2.87%	43	2.16%
INS (Institutional strengthening)	17,383,590	1.91%	102	5.13%
INV (Investment projects)	807,051,102	88.75%	1,000	50.28%
PRP (Project preparation)	30,234,552	3.32%	597	30.02%
TAS (Technical Assistance)	26,535,300	2.92%	213	10.71%
TRA (Training)	1,249,459	0.14%	23	1.16%
Total (excluding agency support cost)	909,360,993	100%	1,989	100%

* These figures are without adjustments, which are in total US\$ -13,482,115.

** 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 2022 UNIDO's overall disbursement rate (excluding agency support cost) was 90%. Disbursements by activity type and as percentage of activity allocations are summarized as follows:

Туре	Funds Disbursed US\$	Disbursement rate in per cent
CPG (Country Programme Preparation)	722,669	100%
DEM (Demonstration projects)	22,730,368	97%
INS (Institutional strengthening)	14,307,697	83%
INV (Investment projects)	723,710,037	90%
PRP (Project preparation)	23,312,172	85%
TAS (Technical Assistance)	21,453,904	87%
TRA (Training)	1,196,535	100%
Total (excluding agency support cost)	807,433,382	90%

Multi-Year Agreements

In the reporting year, 14 new multi-year performance based projects were approved for UNIDO's implementation, the Stage II HCFC Phase-out Management Plan in the Bahamas, Benin, Brunei Darussalam¹, Chad, Eritrea, Grenada, Liberia, Libya, Madagascar, Niger, South Africa and Togo, the Stage III HCFC Phase-out Management Plan in Nigeria and Pakistan.

7) As shown in Annex II in the Excel file, UNIDO has been implementing one hundred and eighty seven performance-based, multi-year agreements. One hundred and thirty six of these agreements are HCFC Phase-out Management Plans as listed in the table below.

¹ HPMP Stage II for Brunei Darussalam has been approved at the 86th meeting for UNEP and UNDP. At the 91st meeting, project was transferred from UNDP to UNIDO.

Country name	HPMP Stage I	HPMP Stage II	HPMP Stage III
Afghanistan	yes	yes	
Albania	yes	yes	
Algeria	yes		
Argentina	yes	yes	
Bahamas (the)	yes	yes	
Bahrain	yes	yes	
Benin	yes	yes	
Bolivia (Plurinational State of)	yes	yes	
Bosnia and Herzegovina	yes	yes	
Botswana	yes	yes	
Brazil	5	yes	
Brunei Darussalam		yes	
Burkina Faso	yes	J	
Burundi	yes		
Cameroon	yes	yes	
Central African Republic (the)	yes		
Chad	yes	yes	
Chile		yes	yes
China	yes	yes	
Congo (the)	yes		
Cote d'Ivoire	yes		
Croatia	yes		
Democratic People's Republic of Korea (the)	yes		
Ecuador	yes	yes	
Egypt	yes	yes	
Equatorial Guinea	yes		
Eritrea	yes	yes	
Ethiopia	yes	yes	
Gabon	yes		
Gambia (the)	yes	yes	
Grenada	yes	yes	
Guatemala	yes	yes	
Guinea	yes		
Guinea-Bissau	yes		
Honduras	yes	yes	
Indonesia	yes		
Iran (Islamic Republic of)	yes	yes	
Iraq	yes	yes	
Jordan	yes	yes	

Kuwait	yes	yes	
Liberia	<u>j</u> es	yes	
Libya	yes	yes	
Madagascar	yes	yes	
Malawi	yes	yes	
Mauritania	yes	<i>y</i> es	
Mexico	yes	yes	
Montenegro	yes	yes	
Morocco	yes	yes	
Mozambique	yes	<i>y</i> es	
Myanmar	yes		
Nicaragua	yes	yes	
Niger (the)	yes	-	
Nigeria	yes	yes yes	yes
North Macedonia	yes	yes	, , , , , , , , , , , , , , , , , , , ,
Oman	yes	yes	yes
Pakistan	yes	yes	yes
Philippines (the)			yes
Qatar	yes yes	yes	
Rwanda	-	yes	
Saint Lucia	yes	yes	
Saint Lucia Saint Vincent and the Grenadines	yes	yes	
Saudi Arabia	yes		
Senegal	yes	NOS	
Serbia	yes	yes	
Sierra Leone	yes	yes	
Somalia	yes	yes	
South Africa	yes	NOS	
Sudan (the)	yes	yes	NOC
Suriname	yes	yes	yes
	yes		
Syrian Arab Republic	yes		
Togo Tunisia	yes	yes	
	yes	yes	
Türkiye	yes		
Turkmenistan	yes	yes	
Uganda United Republic of Tenzenia (the)	yes	yes	
United Republic of Tanzania (the)	yes	yes	
Venezuela (Bolivarian Republic of)	yes	yes	
Yemen	yes		
Zambia	yes 75	yes	
Total	75	56	5

At the 91st meeting, UNIDO submitted on behalf of Niger the first ever Kigali HFC Implementation Plan (KIP). Although funding to start with the activities has been approved, the project has not yet been approved as multi-year agreement. Further discussion of the KIP Stage I for Niger has been deferred by the Executive Committee to the 93rd meeting.

Sector phase out by country

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	
Phase-out	2,537.8	
Refrigeration	129.1	
Total	2,666.9	

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 81,799 ODP tonnes. ODP phase by sector is summarized in the below table.

Completed projects		
Sector	ODP tonnes	
Aerosols	4,209.7	
Foams	13,288	
Fumigants	5,561.7	
Halons	2,002.8	
Other (Tobacco)	1,170	
Process agents	1,028.2	
Phase-out	16,185.9	
Production	17,381	
Refrigeration	18,688.4	
Several	39.3	
Solvents	2,194	
Total	81,799	

 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 2021 is 192.7 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 2022) amounts to 289.4 ODP tonnes. In addition, 192.7 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 2022.

Non-investment project completions since last report

12) Since the last report, 38 non-investment projects, with approved funding of US\$ 4,182,575 were completed: 19 in Africa, 12 in Asia and the Pacific, 3 in Europe, 2 in Latin America and the Caribbean, one global and the Core Unit Funding.

III. Global and Regional Project Highlights

Global Projects

- 13) Core Unit Funding for the year 2023 was approved in December 2022. The core unit funding for the year 2022 that was approved in 2021 for UNIDO as a global project in the amount of US\$ 2,036,154 was completed in December 2022.
- 14) The following global project has been completed in the reporting year:
 - Global chiller replacement project (Argentina)

Regional Projects

• No regional projects were ongoing during 2022.

IV. Performance Indicators

Business Plan Performance Goals as decided by the Executive Committee

- 15) 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.
- 16) The targets and achievements for the year 2022 performance indicators approved during the 88th Meeting of the ExCom are indicated below.

A1. Planning – Approvals

17) Tranches approved: Number of tranches approved vs. those planned

In 2022, 23 tranches were approved in total against the updated target of 30. The original target was 47, however, the below projects were not approved beyond UNIDO's control:

- UNIDO was ready for submission of the following tranches from HPMPs Stage I: Suriname; HPMPs Stage II for Antigua and Barbuda, Burkina Faso, Burundi, Congo, Cote d'Ivoire, Equatorial Guinea, Gabon, Guinea, Guinea-Bissau, Iran, Sao Tome and Principe and Suriname; and HPMP Stage III for Jordan, but the lead agencies were not ready for submission;
- The tranche request for Algeria (x2) were not submitted based on MLF Secretariat advice;
- The tranche request for Iraq could not be submitted due to Executive Committee decision related to other project in Iraq;
- The tranche request for Myanmar could not be requested due to the freeze of all UN activities in the country.

In addition to the approvals from the Business Plan, additional project that were not part of the Business Plan for 2022, were prepared, submitted and approved by the Executive Committee. These are two tranches from already approved MYA for Morocco and Syria and first tranche from 3 newly approved multi-year agreements for Brunei Darussalam and Grenada. The first ever Kigali HFC Implementation Plan (KIP) was submitted by UNIDO for Niger. Initial funding was approved to start with the activities. That brings the total number of additional tranches approved to five, leading to total of 29 tranches approved compared to the updated target of 30 tranches.

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

During 2022, 23 individual projects were approved against the originally agreed target of 29. However the target should be updated to 24 taking into account the projects not approved for reasons beyond UNIDO's control:

• The project on conversion of HFC-134a (or R-410a) to R-290 in the manufacturing of air-conditioning units at J.M. Group/Mina factory in Sudan was submitted in 2021, but decision has been deferred to the next in-person meeting in 2022. In 2022, official request was received from the beneficiary, Mina, to change the technology for conversion from R290 to R32 due to an inability to commit to the former. Based on this request, an updated proposal was submitted to the MLF during which time, UNIDO simultaneously communicated with the beneficiary on the detailed time

framework, including a deadline to halt the use of R410. After consultations with Midea and Samsung (the beneficiary's license holders), Mina decided to withdraw the project and sent an official request to UNIDO and the NOU. The same information was communicated with the Secretariat;

- The preparations for HFC phase down plans for Egypt, Guatemala and Sudan could not be submitted due to the fact that the countries did not ratify the Kigali Amendment;
- UNIDO was ready for requesting the preparatory funding for HPMP Stage II for Central African Republic and Jordan, but lead agencies were not.

The approvals include 6 renewals of institutional strengthening projects (Armenia, Egypt, Libya, Syrian Arab Republic, Turkmenistan and Türkiye), one project preparation for HPMPs Stage III, 15 project preparations for Kigali HFC implementation plan and one global project for UNIDO's 2023 Core Unit Funding.

In addition to the approvals from the Business Plan, additional project that were not part of the Business Plan for 2022, were prepared, submitted and approved by the Executive Committee. These are four project preparations for Kigali HFC implementation plan, one project preparation for HPMPs Stage III, one institutional strengthening project, three verification reports and one project for conversion of the manufacturing of domestic and commercial refrigerators from HFC-134a to isobutane (R-600a) and propane (R-290) at Induglob. That brings the total number of additional projects/activities approved to 10, leading to total of 33 projects/activities approved; 9 more compared to the updated target of 24.

A2. Implementation

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

During 2022 the funds disbursed as per IPSAS were US\$ 22,198,935 against the estimated disbursements for year 2022 established in the Progress Report for year 2021 of US\$ 26,753,292.

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

242.58 ODP tonnes can be recorded as achievements for all MYA projects approved in 2022. However, 26.83 ODP tonnes need to be deducted from the original target of 372.5 OPD as explained in section 17 due to the non-submission and/or non-approval of several tranches beyond UNIDO's control. The adjusted target should be 345.68 ODP tonnes.

As explained in paragraph 17, additional projects were approved for which the total ODS phase out is 18.2 ODP tonnes, bringing the total ODS tonnes to be recorded as achievement to 260.78 ODP tonnes against the updated target of 345.68 ODP tonnes. Furthermore, no ODP phase out has been allocated to the project in Morocco for phasing out HCFC-141b contained in imported pre-blended polyols in the polyurethane foam sector. The phase-down of HFCs associated with the approval of the KIP for Niger has not been recorded as an achievement.

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

During 2022, UNIDO completed 39 projects against the target of 42. It should be noted that three of the projects comprising the target are in Afghanistan where projects are delayed beyond UNIDO control. Therefore target should be adjusted to 39.

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

Type of Indicator	Short title	Calculation	Weighting	Target 2022	Achievement 2022	Additional Achievements 2022
Planning Approval	Tranches approved	Number of tranches approved vs. those planned	10	30 ²	23	5 ³
Planning Approval	Projects/ activities approved	Number of projects/activities approved vs. those planned (including project preparation activities)	10	24 ⁴	23	10 ⁵
	Sub-total		20			
Implementation	Funds disbursed	Based on estimated disbursement in progress report (USD)	15	26,753,292 US\$	22,198,936 US\$ ⁶	

Performance indicators: Targets and achievements in 2022

⁴ During 2022, 23 individual projects were approved against the originally agreed target of 29. However the target should be updated to 24 taking into account the projects not approved for reasons beyond UNIDO's control: (1) The project on conversion of HFC-134a (or R-410a) to R-290 in the manufacturing of air-conditioning units at J.M. Group/Mina factory in Sudan was submitted in 2021, but decision has been deferred to the next in-person meeting in 2022. In 2022, official request was received from the beneficiary, Mina, to change the technology for conversion from R290 to R32 due to an inability to commit to the former. Based on this request, an updated proposal was submitted to the MLF during which time, UNIDO simultaneously communicated with the beneficiary on the detailed time framework, including a deadline to halt the use of R410. After consultations with Midea and Samsung (the beneficiary's license holders), Mina decided to withdraw the project and sent an official request to UNIDO and the NOU. The same information was communicated with the Secretariat; (2) The preparations for HFC phase down plans for Egypt, Guatemala and Sudan could not be submitted due to the fact that the countries did not ratify the Kigali Amendment; (3) UNIDO was ready for requesting the preparatory funding for HPMP Stage II for Central African Republic and Jordan, but lead agencies were not.

⁵ In addition to the approvals from the Business Plan, additional project that were not part of the Business Plan for 2022, were prepared, submitted and approved by the Executive Committee. These are four project preparations for Kigali HFC implementation plan, one project preparation for HPMPs Stage III, one institutional strengthening project, three verification reports and one project for conversion of the manufacturing of domestic and commercial refrigerators from HFC-134a to isobutane (R-600a) and propane (R-290) at Induglob. That brings the total number of additional projects/activities approved to 10, leading to total of 33 projects/activities approved; 9 more compared to the updated target of 24.

⁶ Disbursement value does not include disbursements made during 2022 under the projects funded from additional

² The original target was 47, however, the below projects were not approved beyond UNIDO's control: (1) UNIDO was ready for submission of the following tranches from HPMPs Stage I: Suriname; HPMPs Stage II for Antigua and Barbuda, Burkina Faso, Burundi, Congo, Cote d'Ivoire, Equatorial Guinea, Gabon, Guinea, Guinea-Bissau, Iran, Sao Tome and Principe and Suriname; and HPMP Stage III for Jordan, but the lead agencies were not ready for submission; (2) The tranche request for Algeria (x2) were not submitted based on MLF Secretariat advice; (3) The tranche request for Iraq could not be submitted due to Executive Committee decision related to other project in Iraq; (4) The tranche request for Myanmar could not be requested due to the freeze of all UN activities in the country.

³ Five additional tranches were prepared, requested and approved that were not initially part of the 2022 Business Plan. These are two tranches from already approved MYA for Morocco and Syria and first tranche from 2 newly approved multi-year agreements for Brunei Darussalam and Grenada. The first ever Kigali HFC Implementation Plan (KIP) was submitted by UNIDO for Niger. Initial funding was approved to start with the activities.

Type of Indicator	Short title	Calculation	Weighting	Target 2022	Achievement 2022	Additional Achievements 2022
Implementation	ODS phase- out	ODS phase-out for the tranche when the next tranche is approved vs. those planned per business plans	25	345.68 ODP tonnes ⁷	242.58 ODP tonnes	18.2 ODP tonnes ⁸
Implementation	Project completion for activities	Project completion vs. planned in progress reports for all activities (excl. project preparation)	20	39 ⁹	39	
	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			

In addition to the above, UNIDO's approvals in 2022 amounted to US\$ 20,317,479 (excluding agency support costs).

Cumulative completed investment projects

23) Since 1993, UNIDO's cumulative number of completed investment projects has grown to 878 with a total of US\$ 688,120,404 of approved funding including adjustments. The average number of months from approval to first disbursement was 9 months. The average number of months from approval to completion was 40 months. The cost effectiveness of completed projects is US\$ 8.74/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.

⁹ Three of the projects comprising the target for project completion for activities are in Afghanistan where projects are delayed beyond UNDO control. Therefore the target should be reduced to 39.

voluntary contributions from non-Article 5 countries.

⁷242.58 ODP tonnes can be recorded as achievements for all MYA projects approved in 2022. However, 26.83 ODP tonnes need to be deducted from the original target of 372.5 OPD as explained in section 17 due to the non-submission and/or non-approval of several tranches beyond UNIDO's control. The adjusted target should be 345.68 ODP tonnes.

⁸ As explained in paragraph 17, additional projects were approved for which the total ODS phase out is 18.2 ODP tonnes, bringing the total ODS tonnes to be recorded as achievement to 260.78 ODP tonnes against the updated target of 345.68 ODP tonnes.

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. In addition, UNIDO has completed one investment project funded by additional contributions for the Kigali Amendment.

Cumulative completed non-investment projects

24) Since 1993, UNIDO's cumulative number of completed non-investment projects is 344. Out of a total of US\$ 55,660,099 approved funding, 98 per cent of funds have been disbursed. Except for 78 institutional strengthening projects, all UNIDO completed noninvestment projects were objective-sensitive. Table 6 "Cumulative completed noninvestment projects by region, sector and implementation characteristics" in the Excel file provides details according to geographic region and sectors. In addition, UNIDO has completed 6 Technical Assistance and project preparations funded by additional contributions for the Kigali Amendment.

Cumulative ongoing investment projects

25) By the end of 2022, UNIDO's cumulative portfolio of ongoing investment, demonstration and recovery and recycling projects contained 122 projects. Of the US\$ 107,103,317 approved budget, 52 per cent has been disbursed. It took an average of 9 months from approval to first disbursement. The Africa region had 50 ongoing projects, Asia and the Pacific 36 ongoing projects, Europe 13 ongoing projects and Latin America and the Caribbean 23 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.

Cumulative ongoing non-investment projects

26) At the end of 2022, UNIDO's cumulative portfolio of ongoing non-investment projects (excluding preparatory funding) consisted of 48 projects. Out of a total of US\$ 11,384,909 of approved funding, 47 per cent has been disbursed. The ongoing non-investment projects include 18 Technical Assistance projects (tranches of HPMPs), 19 Institutional Strengthening projects, 9 Verification Reports, 1 Demonstration project and 1 Core Unit Budget. 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.

V. Status of Agreements and Project Preparation by Country

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

27) 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 and projects, the time elapsing between project approval and first disbursement.

Project preparation by country, approved amount and amounts disbursed

28) As of the end of 2022, UNIDO had on-going project preparation in 51 countries with approved funding amounting to US\$ 4,961,500 out of which US\$ 1,198,766 has been disbursed.

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

29) UNIDO is lead agency or only implementing agency for altogether 32 <u>Stage I HPMPs</u>. These MYAs/projects are listed below:

#	Mtg	Country	Main / Cooperating agency
1.	64	Albania	UNIDO lead agency with UNEP
2.	66	Algeria	UNIDO only implementing agency
3.	66	Argentina	UNIDO lead agency with World Bank
4.	74	Bolivia	UNIDO only implementing agency
5.	66	Bosnia and Herzegovina	UNIDO only implementing agency
6.	64	Cameroon	UNIDO only implementing agency
7.	64	China – RAC sector	UNIDO only implementing 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 implementing agency
16.	64	Mexico	UNIDO lead agency with UNDP
17.	63	Montenegro	UNIDO only implementing agency
18.	65	Morocco	UNIDO only implementing agency
19.	66	Niger	UNIDO lead agency with UNEP
20.	60	North Macedonia	UNIDO only implementing 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 implementing agency
27.	67	South Africa	UNIDO only implementing agency
28.	66	Sudan	UNIDO only implementing agency
29.	72	Tunisia	UNIDO lead agency with UNEP and France

#	Mtg	Country	Main / Cooperating agency
30.	62	Turkmenistan	UNIDO only implementing 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 **<u>Stage I HPMPs</u>** 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, Mauritania, Mozambique, Myanmar, Nicaragua, Philippines, Rwanda, Saint Lucia, Saint Vincent and the Grenadines, Senegal, Sierra Leone, Suriname, Syria, Tanzania, Togo, Uganda, Yemen and Zambia;
- UNDP: Indonesia, Iran and Nigeria;

Other Stage I HPMPs:

- Croatia, implemented by UNIDO. Croatia is no longer Article-5 country.
- 30) UNIDO is involved in <u>Stage II HPMPs</u> as single, lead or cooperating implementing agency in the following countries:

	Mtg	Country	Main / Cooperating agency
1.	85	Afghanistan	UNEP lead with UNIDO as cooperating implementing agency
2.	85	Albania	UNIDO lead with UNEP as cooperating implementing agency
3.	79	Argentina	UNIDO lead with Italy as cooperating bilateral agency
4.	90	Bahamas	UNEP lead with UNIDO as cooperating implementing agency
5.	88	Bahrain	UNEP lead with UNIDO as cooperating implementing agency
6.	90	Benin	UNEP lead with UNIDO as cooperating implementing agency
7.	87	Bolivia	UNEP lead with UNIDO as cooperating implementing agency
8.	87	Bosnia and Herzegovina	
9.	86	Botswana	UNEP lead with UNIDO as cooperating implementing agency
10.	75	Brazil	UNDP lead with UNIDO, Germany and Italy as cooperating
			implementing and bilateral agencies
11.	90	Brunei Darussalam	UNEP lead with UNIDO as cooperating implementing agency
12.	82	Cameroon	UNIDO single implementing agency
13.	90	Chad	UNEP lead with UNIDO as cooperating implementing agency
14.	76	Chile	UNDP lead with UNIDO as cooperating implementing agency
15.	77	China- RAC Sector	UNIDO lead with Italy as cooperating bilateral agency
16.	77	China – XPS sector	UNIDO lead with GIZ as cooperating bilateral agency
17.	86	Ecuador	UNIDO lead with UNEP as cooperating implementing agency ¹⁰
18.	79	Egypt	UNIDO lead with UNDP, UNEP and Germany as
			cooperating implementing and bilateral agencies

¹⁰ At the 87th meeting a decision was made to transfer UNEPs components to UNIDO and UNIDO became single implementing agency for this project.

19.	91	Eritrea	UNEP lead with UNIDO as cooperating implementing agency
20.	88	Ethiopia	UNEP lead with UNIDO as cooperating implementing agency
21.	86	Gambia	UNEP lead with UNIDO as cooperating implementing agency
22.	90	Grenada	UNEP lead with UNIDO as cooperating implementing agency
23.	86	Guatemala	UNEP lead with UNIDO as cooperating implementing agency
24.	86	Honduras	UNIDO lead with UNEP as cooperating implementing agency
25.	77	Iran	UNDP lead with UNEP, UNIDO and Germany as cooperating
20.			implementing and bilateral agencies
26.	87	Iraq	UNEP lead with UNIDO as cooperating implementing agency
27.	77	Jordan	World Bank lead with UNIDO as cooperating implementing
			agency
28.	88	Kuwait	UNEP lead with UNIDO as cooperating implementing agency
29.	90	Liberia	UNEP lead with UNIDO as cooperating implementing agency
30.	90	Libya	UNIDO single implementing agency
31.	90	Madagascar	UNEP lead with UNIDO as cooperating implementing agency
32.	85	Malawi	UNEP lead with UNIDO as cooperating implementing agency
33.	73	Mexico	UNIDO lead with Germany, Italy, Spain and UNEP as
			cooperating implementing and bilateral agencies
34.	85	Montenegro	UNIDO single implementing agency
35.	88	Morocco	UNIDO single implementing agency
36.	86	Nicaragua	UNEP lead with UNIDO as cooperating implementing agency
37.	90	Niger	UNIDO lead with UNEP as cooperating implementing agency
38.	81	Nigeria	UNDP lead with UNIDO as cooperating implementing agency
39.	88	North Macedonia	UNIDO single implementing agency
40.	75	Oman	UNIDO lead with UNEP as cooperating implementing agency
41.	76	Pakistan	UNIDO lead with UNEP as cooperating implementing agency
42.	83	Philippines	UNIDO single implementing agency
43.	88	Qatar	UNIDO lead with UNEP as cooperating implementing agency
44.	86	Rwanda	UNEP lead with UNIDO as cooperating implementing agency
45.	87	Saint Lucia	UNEP lead with UNIDO as cooperating implementing agency
46.	88	Senegal	UNEP lead with UNIDO as cooperating implementing agency
47.	85	Serbia	UNIDO lead with UNEP as cooperating implementing agency
48.	87	Sierra Leone	UNEP lead with UNIDO as cooperating implementing agency
49.	91	South Africa	UNIDO single implementing agency
50.	75	Sudan	UNIDO single implementing agency
51.	87	Tanzania	UNEP lead with UNIDO as cooperating implementing agency
52.	91	Togo	UNEP lead with UNIDO as cooperating implementing agency
53.	84	Tunisia	UNIDO lead with UNEP as cooperating implementing agency
54.	86	Turkmenistan	UNIDO single implementing agency
55.	86	Uganda	UNEP lead with UNIDO as cooperating implementing agency
56.	76	Venezuela	UNIDO single implementing agency
57.	86	Zambia	UNEP lead with UNIDO as cooperating implementing agency

31) UNIDO is involved in <u>ongoing Stage III HPMPs</u> as single, lead or cooperating implementing agency in the following countries:

	Mtg	Country	Main / Cooperating agency
1.	88	Chile	UNDP lead with UNIDO and UNEP as cooperating

			implementing agencies
2.	91	Nigeria	UNDP lead with UNIDO as cooperating implementing agency
3.	88	Oman	UNIDO lead with UNEP as cooperating implementing agency
4.	90	Pakistan	UNIDO lead with UNEP as cooperating implementing agency
5.	88	Sudan	UNIDO single implementing agency

32) At the 91st meeting, UNIDO submitted the first ever Kigali HFC Implementation Plan (KIP) for Niger, with UNEP as cooperating implementing agency. The Executive Committee agreed to approve funding for starting with the activities, but did not approve the project as a multi-year agreement.

Climate impact of Montreal Protocol activities

- 33) 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.
- 34) During the reporting period, the following demonstration project was ongoing:
 - Demonstration project on promoting HFO-based low-global warming potential refrigerants for air-conditioning sector in high ambient temperatures (Saudi Arabia).

Activities related to HFC phase down

- 35) In 2022, funding was approved for 19 countries to start with the preparation of Stage I of their Kigali HFC implementation Plans. This brings the total number of countries where UNIDO is preparing the submission of Stage I of the KIPs, either as single, lead or cooperating implementing agency, to 42.
- 36) The first ever KIP, was submitted for Niger at the 91st meeting of the Executive Committee with UNIDO as lead and UNEP as cooperating implementing agency. A multi-year agreement between the Executive Committee meeting and the country was not issued, however funding was approved to initiate the activities under the Stage I.
- 37) A project for conversion of the manufacturing of domestic and commercial refrigerators form HFC-134a to isobutane (R-600a) and propane (R-290) at Induglob, Ecuador was submitted and approved at the 91st meeting of the Executive Committee.
- UNIDO continues with implementation of the projects for control and phase-out of HFC-23 emissions in production of HCFC-22 in Argentina and Mexico.
- 39) During 2022, the remaining ongoing Enabling activities for HFC phase-down implemented by UNIDO have been completed.

VI. Gender Mainstreaming

During 2022, UNIDO has been implementing the MLF Gender Policy in 66 countries as part of projects approved from the 85th meeting. When preparing and submitting the project proposals, UNIDO tries to include to the extent possible activities that would address gender equality and women's empowerment. The checklists and potential indicators included in the project guides are used for that purpose.

UNIDO, as an organization, acknowledges the substantial positive impact of gender equality and women's empowerment on sustained economic growth and the promotion of sustainable industrial development. These factors are instrumental in driving poverty reduction and fostering social integration. Consequently, the organization has instituted its own policy and strategy for gender mainstreaming with the goal of achieving tangible outcomes.

The integration of gender mainstreaming into project implementation encompasses several key facets:

- Project teams are conscientiously composed to ensure a balanced representation of both male and female members.
- The recruitment process is closely monitored to track the proportion of applications received from men and women.
- Vacancy announcements include provisions that actively encourage women to apply.
- Recruitment panels are constituted with a gender-balanced composition.
- Participation rates of male and female beneficiaries in capacity-building and awarenessraising activities are diligently monitored.
- All documents generated under the project are tailored to be responsive to gender considerations, including policies, strategies, training materials, and knowledge products.
- Online platforms, events, trainings, workshops, discussions, roundtables, and side events at conferences are designed with gender responsiveness in mind.
- Capacity-building initiatives are structured to be sensitive to gender-related nuances.
- Public awareness campaigns are crafted to incorporate gender perspectives, aiming to increase female involvement in the ozone protection process.
- Prioritizing women-led or women-owned business to be supported under the project activities.
- Monitoring and evaluation activities include dedicated reporting on gender-related issues.

In many countries, the technical workforce in the RAC sector is predominantly male. UNIDO is actively engaged in identifying potential female technicians and engineers who could pursue careers in this sector, offering tailored training programs. The success of these initiatives varies from country to country. For instance, in Albania, UNIDO successfully organized a training program for female engineers in the RAC sector, although efforts to organize similar training for female technicians were not as fruitful. In Tunisia, UNIDO training sessions have been conducted for female engineering students. In Nigeria, UNIDO has established a scholarship program to incentivize young women to pursue studies in refrigeration and air conditioning, with the first scholarships awarded in the first half of 2023. In Oman, as part of the HPMP Stage III training for end-users, a dedicated session on gender mainstreaming was included. Between August-September 2022, 14 female RAC technicians were trained in Sudan. Considering that a few years ago there were no women in the field, the participation of the 14 female participants was notable. In October 2022, a seminar was organized for custom officers to review Sudan's harmonized system codes and the tackling of illegal trade. From a total of 35 custom officers that attended the seminar, 6 were female officers. In Niger, 20 female customs officers were trained between 2020 and 2022.

From the experiences garnered thus far, it is evident that there exists immense potential for advancing gender mainstreaming within the Montreal Protocol portfolio. Engaging girls and women in ozone and climate protection initiatives has the potential to double human capacities in each country dedicated to

these pursuits. However, in some regions, sustained investments are imperative to bolster the number of female technicians and engineers. Additionally, in the case of LVC countries, budget constraints pose a challenge, with gender mainstreaming competing with other priorities. Adequate funding for gender mainstreaming activities, extending beyond mere participant tallies, holds the promise of yielding enduring results. The TEAP report assessing the funding requirement for the replenishment 2024-2026 analysed the funding for gender mainstreaming of other global funds and recognizes that "without a requirement to earmark funding for those activities, not all countries will be able to properly respond to gender required actions and will not prioritise it"¹¹. In this regard, UNIDO stands prepared to continue implementing the MLF Gender Policy, incorporating gender mainstreaming activities within existing budgetary constraints, while also being ready to develop more comprehensive programs within the stages of multi-year agreement projects, such as HCFC phase-out management plans or Kigali HFC implementation plans.

¹¹ <u>https://ozone.unep.org/system/files/documents/TEAP-DecisionXXXIV2-replenishment-TF-report-May2023-RTF-report.pdf</u>

VII. Administrative Issues (Operational, Policy, Financial and Other

Issues) Meetings attended

#	Meeting	Location	Dates
1.	Inter – agency coordination meeting	Online	31 March – 1 April 2022
2.	89 th meeting of the Executive Committee – part I	Online	16, 18 and 20 May 2022
3.	89 th meeting of the Executive Committee – part II	Montreal, Canada	16 – 18 June 2022
4.	90 th meeting of the Executive Committee	Montreal, Canada	20 – 23 June 2022
5.	68th Implementation Committee Meeting	Bangkok, Thailand	09 July 2022
6.	44th Open-Ended Working Group Meeting	Bangkok, Thailand	11 – 16 July 2022
7.	5th Extraordinary Meeting of the Parties	Bangkok, Thailand	16 Jul 2022
	Joint Network Meeting of the South Asia, Southeast Asia and Pacific Island		17 01 1 1 0000
8.	Countries, National Ozone Officers	Bangkok, Thailand	17 – 21 July 2022
9.	Network Meeting of the West Asia National Ozone Officers	Dubai, United Arab Emirates	15 – 16 September 2022
10.	Montreal Protocol meetings including the Europe and Central Asia (ECA)	Prague, Czech Republic	20 – 21 September 2022
11.	Inter – agency coordination meeting	Montreal, Canada	20 – 22 September 2022
12.	Joint Africa Network and Kigali HFC Implementation Plan (KIP) Preparation Meeting	Nairobi, Kenya	3 – 7 October 2022
13.	Joint Network Meeting of the South Asia and Southeast Asia National Ozone Officers	Chiangmai, Thailand	3 – 5 October, 2022
14.	69th Implementation Committee Meeting	Montreal, Canada	29 October 2022
15.	34th Meeting of the Parties	Montreal, Canada	31 October – 04 November 2022
16.	91 st meeting of the Executive Committee	Montreal, Canada	5 – 9 December 2022

40) UNIDO attended/participated in the following meetings in 2022:

It should be noted that the number of online meetings attended by UNIDO is significantly higher. In the above table are listed only the key meetings attended in 2022.

Implementing agency and other cooperation

- 41) 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 II HPMP in Brazil, Chile, Egypt, Iran, Jordan and Nigeria and Stage III HPMP in Chile and Nigeria.
- 42) Cooperation with UNEP: UNIDO has been implementing 95 HPMPs together with UNEP until 2022. In 2021, 17 tranches of ongoing and new HPMPs were approved with UNEP as lead or co-implementing agency in Albania, Bahamas, Benin, Brunei Darussalam, Chad, Eritrea, Grenada, Liberia, Madagascar, Mauritania, Mexico, Niger, Pakistan, Serbia, Syria and Togo. In addition to the cooperation under the HPMPs, the first ever KIP was submitted to the 91st meeting for Niger. The project document was submitted by UNIDO with UNEP as cooperating implementing agency. Although the multi-year agreement was not approved, funding was approved to initiate the activities under the KIP.
- 43) Participation in inter-agency meetings: During 2022, UNIDO attended the two interagency meetings that were organized in preparation for the 89th/90th and for the 91st Executive Committee meetings. The first meeting took place online and the second meeting took place at the MLF Secretariat premises in Montreal.
- 44) Cooperation with Bilateral Agencies: During 2022, UNIDO continued implementation of the ongoing bilateral projects.
- 45) Those bilateral projects under UNIDO's implementation, which have been ongoing or have been completed in 2022 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
		HCFC phase-out management				
		plan (stage II, third tranche)				
		(room air-conditioning manufacturing and heat pump				
1.	Austria	water heaters sector plan)	China	27.3	350,000	ONG
		HCFC phase-out management				
		plan (stage II, first tranche)				
		(reclamation of HCFC				
2.	Italy	refrigerants)	Mexico	0	458.191	COM
		HCFC phase-out management				
		plan (Stage II, first				
3.	Italy	tranche)(RAC sector)	China	10,3	891.892	ONG
			Iran			
		HCFC phase-out management	(Islamic			
		plan (stage II, first tranche)	Republic			
4.	Italy	(foam sector)	of)	7,1	403.203	ONG

5.	Italy	HCFC phase-out management plan (stage II, second tranche) (foam sector)	Iran (Islamic Republic of)	8,9	504.004	ONG
		HCFC phase-out management plan (stage II, first tranche)		•	250.000	0.110
6.	Italy	(refrigeration servicing sector)	Argentina	2,9	250.000	ONG
		HCFC phase-out management				
		plan (stage II, second tranche)				
		(cleaning agent phase-out in				
7.	Spain	refrigeration servicing sector)	Mexico	2,3	76.991	ONG
		HCFC phase-out management plan (stage II, second tranche)				
8.	Spain	(refrigeration servicing sector)	Mexico	0	280.000	ONG
		HCFC phase-out management				
		plan (stage II, third tranche)				
9.	Spain	(refrigeration servicing sector)	Mexico	13,1	1.070.000	ONG

Other issues

- 46) 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 2022, UNIDO has continued to practice the following initiatives, which supported successful project implementation:
 - 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 HCFC-related equipment are taken.
 - Following the approval of the cost-guidelines for preparation of HFC phase-down plans, UNIDO has intensified the work with countries related to the support and service that UNIDO can offer in implementation of the Kigali Amendment.
 - Communication and interaction between regional and country offices about the implementation process has ensured the smooth flow of project plans. As in previous years, directors of UNIDO regional and country offices are regularly briefed on ongoing and possible future activities. They are involved in the implementation process and are following up the progress of the programmes. In turn, the representatives brief headquarter staff working in a specific country on the regular activities in the field and problems faced, if any.
 - During 2022, in-person meetings slowly resumed to pre-pandemic level. Online meetings continue to take place as part of the daily communication.
 - Due to security and/or political issues, in addition to the pandemic, UNIDO experienced delays in project implementation during 2022 in several countries.
- 47) UNIDO is regularly attending Regional Network Meetings and respective workshops, organized online and in-person during 2022, providing additional support to our counterpart countries.
- 48) UNIDO also provides, when requested, support such as policy assistance, putting in place relevant legislation etc.
- 49) In April 2022, first time after the covid-19 pandemic, and as conditions allowed, UNIDO organized an in person meeting for several countries, namely Albania, Bosnia and Herzegovina and North Macedonia in preparation for their Kigali HFC Phase-down Plans (KIPs) preparations. This meeting was a prelude to larger KIP meetings that took place in 2023.
- 50) On the occasion of the World Refrigeration Day, on 22 June 2022, UNIDO organized a webinar on "Flammable refrigerants: future-proof, environmentally friendly and safe to use", marking the World Refrigeration Day under the message "Cooling matters". Speakers at the webinar were representatives from the World Refrigeration day (WRD) Secretariat, UNIDO and the Austrian Association of Refrigeration (ÖGKT). The webinar delved into many topics including the Kigali Amendment and stricter HFC regulations with the revised EU F-gas

Regulation, as well as terminology for discussing cooling to ensure the greatest outreach. Discussions centered on flammable refrigerants as future-proof, environmentally friendly and safe to use, when safety aspects are taken into consideration and when proper, safe handling and training practices are maintained.

- 51) At the 34th Meeting of the Parties (MOP) to the Montreal Protocol on Substances that Deplete the Ozone Layer that too place in Montreal, Canada, in October 2022, UNIDO organized a side event on the topic "Taking stock of existing RAC training tools and exploring future training needs and approaches". At the side event, various training tools made by GIZ, UNEP and other stakeholders to handle flammable refrigerants were presented to provide a better overview of all existing RAC tools and learning materials. Key questions were discussed, such as how we could better design and distribute future RAC training tools in consultation with all stakeholders in each country to harmonize the use of alternative refrigerants, in particular, A2L and A3 refrigerants. Canada, North Macedonia and Tunisia shared their countries experiences with regards to the training centers for flammable refrigerants, certification schemes and curricula.
- 52) At the 91st meeting of the Executive Committee, that took place in December 2022 in Montreal, Canada, UNIDO submitted the first ever KIP for Niger, ahead of the cost-guidelines agreement. The country decided to move forward considering that the first commitment under the Kigali Amendment is on the 1st of January 2024. The KIP was not approved in full, however funding has been approved to initiate the project activities. This was the first time that funding has been approved under a KIP.

VIII. Tables and Annexes*

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* Worksheets in Excel file