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EXECUTIVE COMMITTEE OF
THE MULTILATERAL FUND FOR THE
IMPLEMENTATION OF THE MONTREAL PROTOCOL
Ninety-third Meeting
Montreal, 15-19 December 2023
Item 9(d) of the provisional agenda¹

PROJECTS RECOMMENDED FOR INDIVIDUAL CONSIDERATION

1. This document provides summary information on projects and activities submitted to the 93rd meeting that are recommended for individual consideration. Table 1 presents a list of these requests.

Table 1: Requests recommended for individual consideration

Projects and activities	No. of countries	No. of funding requests	Amount recommended (US \$)	Amount in principle (US \$)
Stage II/III of HPMPs	6	14	7,300,366	17,907,720
Tranches of approved HPMPs	1	5	21,479,467	
Stage I of KIPs	23	54	20,372,787	51,905,576
HFC-related investment projects	1	3	1,250,593	
Preparation for KIPs and/or investment-related activities	2	2	267,500	
Additional activities to maintain energy efficiency in the servicing sector (decision 89/6)	1*	1	135,265.00	
Preparation for a pilot project on energy efficiency	1 and a global	2	117,700	
Pilot project on energy efficiency	11	13	7,169,581	
Compliance Assistance Programme (2024 budget)		1	11,265,696	
Core unit costs (2024)		3	5,969,740	
Total		98	75,328,695	

* Activities for the country (Mozambique) have been submitted as part of a new stage of its HPMP to this meeting.

Note: Funding amounts include agency support costs.

2. Tables 2-5 provide more information on the above-listed projects and activities recommended for individual consideration, including non-investment preparatory activities presented in the work programmes of implementing agencies and in the bilateral cooperation document; and tranche requests

¹ UNEP/OzL.Pro/ExCom/93/1

under stage II of the HCFC phase-out management plan (HPMP), requests for new stages II and III of HPMPs, requests for stage I of Kigali HFC implementation plans (KIPs) including HFC investment projects submitted as part of the KIPs, and pilot projects related to energy efficiency submitted in line with decision 91/65, as presented in the respective country project proposals.

Table 2: Non- investment activities – preparatory projects

Country /Region	Project title	IAs	Doc. #	Issue
Global	Preparation of a pilot project to demonstrate the use of digital monitoring and management tools to enhance energy efficiency and reduce emission of greenhouse gases in the space cooling and cold chain sectors in Colombia, Lebanon, Panama, Sri Lanka, and Trinidad and Tobago	UNDP	93/35	Guidance sought from the Executive Committee as the proposal represents a new prospective approach for considering energy efficiency in the context of the Montreal Protocol
India	Preparation of a demonstration project for the manufacture of compressors in the mobile air-conditioning manufacturing sector	UNDP	93/35	Guidance sought from the Executive Committee on demonstration projects submitted as part of KIPs other than end-user projects submitted in line with decision 92/36
Thailand	Preparation of a KIP (stage I)	World Bank	93/38	The country has not ratified the Kigali Amendment
Viet Nam	Preparation of a pilot project to maintain and/or enhance energy efficiency in the air-conditioning (AC) sector	World Bank	93/38	Guidance sought from the Executive Committee as the project is not submitted in the context of HFC phase-down

Table 3: HPMP stage and tranche requests

Country	Stage / Tranche #	Implementing agencies	Doc. #	Para. #	Issue
Requests for stage II or III of the HPMP					
Guinea	Stage II	UNEP/UNIDO	93/58		All technical and cost issues resolved
Lebanon	Stage III	UNDP	93/64		All technical and cost issues resolved
Mozambique	Stage II	UNEP/UNDP	93/73		All technical and cost issues resolved
Philippines (the)	Stage III	UNIDO	93/82		All technical and cost issues resolved
Suriname	Stage II	UNEP/UNIDO	93/88		All technical and cost issues resolved
Viet Nam	Stage III	World Bank	93/93	1-40	All technical and cost issues resolved
Tranche requests under stage II of the HPMP					
China – XPS*	Sixth tranche	UNIDO/ Germany	93/47	27-45	All technical and cost issues resolved
China – PU*	Fourth tranche	World Bank	93/47	46-70	All technical and cost issues resolved
China – ICR*	Fifth tranche	UNDP	93/47	71-91	All technical and cost issues resolved
China – Solvent	Sixth tranche	UNDP	93/47	92-113	All technical and cost issues resolved
China – Servicing*	Sixth tranche	UNEP/ Germany/Japan	93/47	114-134	All technical and cost issues resolved

*XPS = extruded polystyrene foam sector; PU = polyurethane foam sector; ICR = industrial and commercial refrigeration and air-conditioning sector; Servicing = refrigeration and air-conditioning servicing sector and the national enabling programme

Table 4: KIP stage I requests

Country	Implementing agencies	Doc. #	Para. #	Issue
KIPs that may not require a presentation by the Secretariat				
Albania	UNIDO/UNEP	93/39	18-65	All technical and cost issues resolved

Country	Implementing agencies	Doc. #	Para. #	Issue
Bolivia (Plurinational State of)	UNIDO/UNEP	93/43	29-87	All technical and cost issues resolved
Cambodia	UNEP/UNDP	93/45		All technical and cost issues resolved
Congo (the)	UNIDO/UNEP	93/49		All technical and cost issues resolved
Grenada	UNEP/UNDP	93/56	19-63	All technical and cost issues resolved
Kyrgyzstan	UNDP/UNEP	93/63	1-48	All technical and cost issues resolved
Malawi	UNEP/UNIDO	93/67		All technical and cost issues resolved
Nicaragua	UNIDO	93/75	1-61	All technical and cost issues resolved
Niger (the)	UNIDO/UNEP	93/76		All technical and cost issues resolved
North Macedonia	UNIDO	93/78	18-79	All technical and cost issues resolved
Trinidad and Tobago	UNDP	93/89	20-80	All technical and cost issues resolved
Turkmenistan	UNIDO	93/91	1-52	All technical and cost issues resolved
KIPs that require a presentation by the Secretariat				
Chile	UNDP/UNEP	93/46		Funding requested for more than 10 per cent reduction from the baseline
Cuba	UNDP	93/50		Inclusion of investment projects in the absence of cost guidelines
Dominican Republic	UNDP/UNEP/ UNIDO	93/51		Cost calculation for the servicing sector
Ecuador	UNIDO	93/52	33-98	Cost calculation for the servicing sector
Ghana	UNDP/UNEP	93/55		Low share of HFC consumption in the baseline
Jordan	UNIDO	93/62		Inclusion of investment projects in the absence of cost guidelines
Malaysia	World Bank	93/68		Inclusion of investment projects in the absence of cost guidelines
Mexico	UNIDO/UNDP/ UNEP	93/70	1-117	Inclusion of investment projects in the absence of cost guidelines; cost calculation for the servicing sector
Panama	UNDP	93/80		Cost calculation for the servicing sector
Peru	UNDP	93/81		Cost calculation for the servicing sector
Viet Nam	World Bank/UNEP	93/93	41-110	Inclusion of investment projects in the absence of cost guidelines
HFC investment projects in India (to be included in stage I of the KIP) (UNDP)				
Project title		Doc. #	Para. #	Issue
Conversion from R-407C and R-410A to HFC-32 in the manufacturing of light commercial packaged and ducted AC units at Voltas, Ltd.		93/60	1-25	All technical and cost issues resolved
Demonstration/conversion from R-404A and R-407C to CO ₂ trans-critical heat pump technology in the food processing and cold storage refrigeration equipment manufacturing at Mech Air Industries		93/60	26-46	Limited impact and sustainability of conversion
Conversion of the manufacturing of commercial refrigeration appliances at Rockwell Industries, Ltd. from HFC-134a to propane		93/60	47-71	All technical and cost issues resolved - <i>The Secretariat will present this investment project together with the request for technical assistance to enhance the energy efficiency of converted equipment 93/60, para. 72-84 and included in table 5</i>

Table 5: Pilot projects related to energy efficiency in the servicing sector (decision 91/65)

Country	Project title	IA	Doc. #	Para. #
Non-investment projects				
Bolivia (Plurinational State of)	Pilot project to maintain and/or enhance the energy efficiency of replacement technologies and equipment in the context of HFC phase-down through provision of equipment and training to 30 trainers on the use of CO ₂ -based technology in medium- and low-temperature applications; and a demonstration project for detecting and preventing leakages in HFC-based commercial refrigeration systems and reinforcing good practices in equipment installation, commissioning, operation, and maintenance in the commercial refrigeration sector	UNIDO	93/43	88-102
Ecuador	Pilot project to maintain and/or enhance the energy efficiency of replacement technologies and equipment in the context of HFC phase-down through promoting the coordination between the NOU and energy-efficiency and climate authorities; support to the servicing sector; and support for the introduction or improvement of MEPS and labelling systems, with emphasis on the commercial and industrial RAC systems	UNIDO	93/52	99-114
Egypt	Pilot project to maintain and/or enhance the energy efficiency of replacement technologies and equipment in the context of HFC phase-down through upgrading and strengthening three testing laboratories and implementing MEPS and equipment labelling	UNIDO	93/53	
Kyrgyzstan	Pilot project to maintain and/or enhance the energy efficiency of replacement technologies and equipment in the context of HFC phase-down through the development of MEPS and labelling for RAC equipment up to 3 kW	UNEP	93/63	49-66
Mexico	Energy-efficiency strategy for the Kigali HFC implementation plan: Institutional coordination with energy-efficiency authorities, strengthening of MEPS for equipment using alternatives to HFCs, and support provided to the servicing and local assembly sectors	UNIDO	93/70	118-138
Nicaragua	Pilot project to maintain and/or enhance the energy efficiency of replacement technologies and equipment in the context of HFC phase-down through provision of equipment and training to 45 trainers on the use of CO ₂ -based technology in medium- and low temperature applications; and a demonstration project for detecting and preventing leakages in HFC-based commercial refrigeration systems and reinforcing good practices in equipment installation, commissioning, operation, and maintenance in the commercial refrigeration sector	UNIDO	93/75	62-79
Nigeria	Pilot project to maintain and/or enhance the energy efficiency of replacement technologies and equipment in the context of HFC phase-down through establishing labelling standards for refrigeration appliances, survey of the market, review and updates to MEPS, upgrading a laboratory testing facility and training staff in verification testing, developing a green procurement policy, training for customs officers, and raising awareness	UNIDO	93/77	29-53
South Africa	Energy-efficiency strategy for the Kigali HFC implementation plan: Replacement of chillers in public buildings and collection of data to assist in the development of relevant MEPS	UNIDO	93/87	
Turkmenistan	Pilot project to maintain and/or enhance the energy efficiency of replacement technologies and equipment in the context of HFC phase-down through support for inter-institutional coordination; and the introduction of MEPS, labelling systems, and a National Plan for Energy Efficiency in the RACHP sector	UNIDO	93/91	53-72

Country	Project title	IA	Doc. #	Para. #
Investment projects				
China	Demonstration project of replacing HFC-134a with R-744 in the field of electric vehicles	UNIDO	93/47	135-176
India	Conversion of the manufacturing of commercial refrigeration appliances at Rockwell Industries, Ltd. from HFC-134a to propane: Technical assistance to enhance the energy efficiency of converted equipment	UNDP	93/60	72-84
India	Design and development of a pilot-scale energy-efficient rotary compressor and a microchannel heat exchanger compatible with R-290 technology at Godrej & Boyce Mfg., Ltd. in the manufacturing of room air conditioners	Germany	93/60	85-117