

**MULTILATERAL FUND FOR THE
IMPLEMENTATION OF THE MONTREAL PROTOCOL
HPMP PROJECT PREPARATION REQUEST FORM
HCFC PHASE-OUT MANAGEMENT PLAN (OVERARCHING STRATEGY)**

Part I: Project Information

Project title:	Preparation of stage II of HCFC Phase-out Management Plan	
Country:	SENEGAL	
Lead implementing agency:	UNEP	
Cooperating agency (1):	UNIDO	Click or tap here to enter text.
Cooperating agency (2):	(select)	Click or tap here to enter text.
Cooperating agency (3):	(select)	Click or tap here to enter text.
Implementation period:	2020-2021	
Funding requested:		
Agency	Sector	Funding requested (US \$)
UNEP	Overarching	40,000
UNIDO	Overarching	20,000

Part II: Prerequisites for submission

Item	Yes	No
1. Official endorsement letter from Government specifying roles of respective agencies (where more than one IA is involved)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Written confirmation – balances from previous PRP funding approved for stage I HPMP had been returned / will be returned (Decision 71/42(i))	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Specify meeting at which PRP funding balance had been returned/will be returned 	PRP funding for stage I had been fully used.	

A. Information required to support PRP funding (Overarching strategy)

1. Montreal Protocol compliance target to be met in <input checked="" type="checkbox"/> stage II / <input type="checkbox"/> stage III of the HPMP			
Phase-out commitment (%)	100	Year of commitment	2030
<input checked="" type="checkbox"/> Servicing only		<input type="checkbox"/> Manufacturing only	<input type="checkbox"/> Servicing and manufacturing
2. Brief background on previous stage of the HPMP			
<p>Stage I of the HCFC Phase-out Management Plan for Senegal was approved at the 65th Meeting of the Executive Committee (ExCom) in November 2011, by Decision 65/46. The first tranche of the HPMP amounting to US\$ 300,000 (excluding implementing agencies support costs) was approved at the same meeting. The second tranche of the HPMP amounting to US\$ 160,000 (excluding implementing agencies support costs) was approved at the 77th Meeting of the Executive Committee.</p> <p>The Government of Sénégal committed to the following control measures with the support of funding and technical assistance from the Multilateral Fund and implementing agencies:</p> <ul style="list-style-type: none"> (i) Freeze the consumption of HCFCs in 2013 to the agreed baseline figure (ii) Reduce consumption of HCFCs by 10% by 2015 (iii) Reduce consumption of HCFCs by 35% by 2020. <p>Based on the verification report submitted to the 77th meeting the starting point for sustained aggregate reduction and funding level for stage I of the HPMP for Senegal were revised, in accordance with decision 60/44(f)(xii). The revised starting point is 20.96 ODP tonnes and funding level is US\$630,000 plus agency support costs. The Agreement between the Government and the Executive Committee had been updated reflecting the revised starting point and funding level.</p> <p>At ExCom-84, the request from the Government of Senegal to change the lead implementing agency for stage I of the HCFC phase-out management plan (HPMP) from UNIDO to UNEP, and the cooperating implementing agency from UNEP to UNIDO was approved (Decision 84/25).</p>			

3. Current progress in implementation of previous stage of the HPMP

Activity	Description	Implementing agency
<p>Legal/regulatory framework</p>	<p>The Policy component related activities under the second tranche of the HPMP were implemented through national execution modality, by NOU.</p> <p>NOU was supported to enhance policy instruments to improve efficiency of data collection and reporting on control of ODS within the Government Ministries, Industry Stakeholders, Trade Associations and NGOs through introduction of policy-related activities:</p> <ul style="list-style-type: none"> • Follow-up on ODS new developed regulations approval and enforcement related activities • Further development of the database / electronic system for application for quotas and provision of licenses was subcontracted. <p>The legislation up-date component developed further the existing regulations for a better control of the HCFCs. The main outcomes of this component are:</p> <ul style="list-style-type: none"> • Introduction and continuous enforcement of quota for companies placing HCFCs on the market through import • Labelling requirements for HCFCs containing containers • Introduction of quota for import of HCFCs based equipment • Continuation of enforcement activities for labelling of the HCFCs containers • Monitoring of the specific HCFCs functioning equipment ban • Mandatory records keeping for the owners of equipment containing HCFCS and for SMEs performed servicing activities • Mandatory record keeping for the owners of equipment containing HCFCS • Mandatory log books for all SME service companies <p>The assessment of the regulations was achieved through the involvement of short-term national consultants, and the promotion of the legal provisions are under the responsibility of the NOU.</p> <p>The legal provisions included mandatory inspections (technical verification) performed by technicians to the owners of equipment functioning with HCFC 22, for emission leakage rate verification for equipment and installations containing specific HCFCs charges and addressed the equipment owners responsibility to ensure proper servicing activities in view of emissions prevention purposes.</p> <p>The improvement of the database and licensing system addressed mainly HCFCs end-users. This activity was introduced as a response to the issues arising during the HCFCs survey, and improved the data collection process as well as the accuracy of the country reports.</p> <p>Good practices handbook was developed through involvement of national consultant.</p>	<p>UNIDO</p>

Refrigeration servicing sector	315 custom officers were trained on identification and control of HCFCs and HCFC-based equipment, as well as monitoring of the licensing and quota system, during the past two tranches. Curricula and performance component of three Vocational Schools upgraded	UNEP																																																															
Refrigeration servicing sector	425 refrigeration technicians were trained on good refrigeration practices, including safe handling of flammable refrigerants during the past two tranches.	UNEP																																																															
Refrigeration servicing sector	<p>Providing service workshops with appropriate tools and equipment: 20 service technicians kits were purchased and delivered in field during the second tranche of the HPMP. The National Ozone Unit of Senegal, located in Dakar - Senegal was responsible for receiving the service technicians kits and for organizing local distribution to the selected service shops, listed below.</p> <p>The receiving refrigeration service workshops and their location is showed in below table.</p> <table border="1"> <thead> <tr> <th></th> <th>Service Shops</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>EFED . (Entreprise de Froid Electricité Dakaroise) Liberté 6 Extension</td> <td>Dakar</td> </tr> <tr> <td>2</td> <td>ESEF . (Entreprise Sénégalaise Electricité Froid) , Thiès</td> <td>Thiès</td> </tr> <tr> <td>3</td> <td>Froid Ménager ABK Chambre des Métiers de Tamba</td> <td>Tamba</td> </tr> <tr> <td>4</td> <td>F.R.K (Froid Rapide Kolda)</td> <td>Kolda</td> </tr> <tr> <td>5</td> <td>S.F.S. (Service Froid Sud) Bvd 54Mètres Ziguinchor</td> <td>Ziguinchor</td> </tr> <tr> <td>6</td> <td>GIE D-N- Techniques Froid Climatisation</td> <td>Louga</td> </tr> <tr> <td>7</td> <td>St-Louis Froiclies (Froid Climatisation Electricité Solaire)</td> <td>St-Louis</td> </tr> <tr> <td>8</td> <td>Q.S.T (Général Service Technology) , Mariste</td> <td>Mbour</td> </tr> <tr> <td>9</td> <td>L.D.S . Réfrigération et climatisation</td> <td>Matam</td> </tr> <tr> <td>10</td> <td>Mécano- Froid</td> <td>Kédougou</td> </tr> <tr> <td>11</td> <td>Etablissement RCD (Réfrigération –climatisation Diourbel)</td> <td>Diourbel</td> </tr> <tr> <td>12</td> <td>S.F.F (Sow Fatick Froid)</td> <td>Fatick</td> </tr> <tr> <td>13</td> <td>E.F.E.S.S (Entreprise Electricité Sine Saloum)</td> <td>Kaolack</td> </tr> <tr> <td>14</td> <td>S.T.F. (Sedhiou Tout pour le Froid)</td> <td>Sédhiou</td> </tr> <tr> <td>15</td> <td>E.S.F.E (Entreprise Sénégalaise Froid Electricité)</td> <td>Dakar</td> </tr> <tr> <td>16</td> <td>T.D.F (Travaux Dépannage Frigorifique)</td> <td>Kaolack</td> </tr> <tr> <td>17</td> <td>GIE FROID Amina Energie</td> <td>Dakar</td> </tr> <tr> <td>18</td> <td>Froid Cheikh- Anta</td> <td>Dakar</td> </tr> <tr> <td>19</td> <td>Etablissement - F.C.D (Froid – climatisation Dièye)</td> <td>Thiès</td> </tr> <tr> <td>20</td> <td>Entreprise Froid- Casa</td> <td>Tamba</td> </tr> </tbody> </table>		Service Shops	Contact	1	EFED . (Entreprise de Froid Electricité Dakaroise) Liberté 6 Extension	Dakar	2	ESEF . (Entreprise Sénégalaise Electricité Froid) , Thiès	Thiès	3	Froid Ménager ABK Chambre des Métiers de Tamba	Tamba	4	F.R.K (Froid Rapide Kolda)	Kolda	5	S.F.S. (Service Froid Sud) Bvd 54Mètres Ziguinchor	Ziguinchor	6	GIE D-N- Techniques Froid Climatisation	Louga	7	St-Louis Froiclies (Froid Climatisation Electricité Solaire)	St-Louis	8	Q.S.T (Général Service Technology) , Mariste	Mbour	9	L.D.S . Réfrigération et climatisation	Matam	10	Mécano- Froid	Kédougou	11	Etablissement RCD (Réfrigération –climatisation Diourbel)	Diourbel	12	S.F.F (Sow Fatick Froid)	Fatick	13	E.F.E.S.S (Entreprise Electricité Sine Saloum)	Kaolack	14	S.T.F. (Sedhiou Tout pour le Froid)	Sédhiou	15	E.S.F.E (Entreprise Sénégalaise Froid Electricité)	Dakar	16	T.D.F (Travaux Dépannage Frigorifique)	Kaolack	17	GIE FROID Amina Energie	Dakar	18	Froid Cheikh- Anta	Dakar	19	Etablissement - F.C.D (Froid – climatisation Dièye)	Thiès	20	Entreprise Froid- Casa	Tamba	UNIDO
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	<p>Each of the service technicians kits included following equipment:</p> <p>1 Screw driver set 1 digital manifold Charging hoses Portable electronic leak detector for halogenated refrigerants Portable electronic leak detector for hydrocarbons Tube cutters Vacuum pump Portable recovery unit Charging and vacuum station Recovery Cylinder 30 lbs. Recycling kit (consists on a portable carrying case with oil separator and distiller, high capacity filter, sight glass, 4 way manifold; connects to all recovery units in the market to add the extra feature of recycling) Flushing unit</p> <p>In addition, 3 Charging stations and Nitrogen equipment was purchased for selected service shops.</p> <p>The equipment purchase and delivery was supported through proper training. Under supervision of the NOU 2 workshops addressing recovery / recycling were planned, targeting specific training on recovery/recycling for a No. of 60 technicians / service shops.</p>			
Others, specify.	Monitoring the HPMP implementation: The NOU recruited two consultants (a refrigeration expert and a customs expert) in addition to the existing NOU team to assist in the monitoring of the effective implementation of all the HPMP activities and collect accurate data.	UNEP		
4. Overview of current HCFC consumption in ODP tonnes by substance (last three years)				
Substance	Sector	2016	2017	2018
HCFC-22	RAC servicing	18.7	17.88	15.13
5. Based on the consumption data given above, please provide a description of the sector/sub-sector that use HCFCs in the country, including a short analysis and explanation of the consumption trends (i.e., increasing or decreasing)				
The consumption of HCFCs has been declining due to the implementation of the HPMP and an increase in the import of non HCFC-based refrigeration equipment. The use of HFC and HFC blends is increasing in the country.				
6. Description of information that needs to be gathered and updated. Explain why this has not been undertaken during preparation for the previous stage of the HPMP.				
Information needed	Description			Agency
Updated data on HCFC consumption in manufacturing/servicing sector	Conduct surveys to collect information on the current demand for HCFCs in the RAC servicing sector.			UNEP
Updated sectoral consumption information	Analysis of the current situation and development trends;			UNEP
New information on ODS regulations	Review existing legislation to assess whether amendments are needed in light of Kigali Amendment.			UNEP
Analysis of types of equipment using HCFCs	Update the inventory of HCFC-based equipment especially air conditioners and commercial HCFC-based equipment including type, model and energy consumption level			UNIDO
7. Activities to be undertaken for project preparation and funding				
Activity	Indicative funding (US \$)			Agency

Survey of the HCFC servicing workshops, as well as HCFC importers for the HCFC consumption	15,000	UNEP
National review, discussion and consultation meetings on the draft of Stage II HPMP	10,000	UNEP
Consultant for the draft and finalization of stage II HPMP	15,000	UNEP
Survey of end users, importers of the HCFC-based equipment to update the inventory of the HCFC equipment	10,000	UNIDO
Consultant for the draft and finalization of stage II HPMP	10,000	UNIDO
TOTAL	60,000	
8. How will activities related to implementation of the Kigali Amendment to phase down HFCs be considered during project preparation for stage II of the HPMP?		
<p>The overarching strategy that Senegal expects to implement assumes that new commercially viable refrigeration and air-conditioning technologies that use zero-ODP and low-GWP refrigerants in energy efficient equipment will become available on the market.</p> <p>The overarching strategy will be based on strengthening the implementation of the existing quota and licensing system and technical capacity building of trainers and technicians, to support appropriate technology choices. The Government will promote the use of zero-ODP and low-GWP refrigerants.</p>		