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EXECUTIVE COMMITTEE OF  
THE MULTILATERAL FUND FOR THE  
IMPLEMENTATION OF THE MONTREAL PROTOCOL  
Eighty-fifth Meeting  
Montreal, 25-29 May 2020  
Postponed to 19-22 July 2020\*

**PROJECT PROPOSAL: SENEGAL**

This document consists of the comments and recommendation of the Secretariat on the following project proposal:

Phase-out

- HCFC phase-out management plan (stage I, third and fourth tranches) UNEP and UNIDO

\* Due to coronavirus disease (COVID-19)

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.

**PROJECT EVALUATION SHEET – MULTI-YEAR PROJECTS**

**Senegal**

| (I) PROJECT TITLE             | AGENCY             | MEETING APPROVED | CONTROL MEASURE |
|-------------------------------|--------------------|------------------|-----------------|
| HCFC phase out plan (stage I) | UNEP (lead), UNIDO | 65th             | 35% by 2020     |

| (II) LATEST ARTICLE 7 DATA (Annex C Group I) | Year: 2019 | 14.25 (ODP tonnes) |
|--|------------|--------------------|
|  |            |                    |

| (III) LATEST COUNTRY PROGRAMME SECTORAL DATA (ODP tonnes) |         |      |               |               |           |         |               | Year: 2019 |                          |
|---|---------|------|---------------|---------------|-----------|---------|---------------|------------|--------------------------|
| Chemical  | Aerosol | Foam | Fire fighting | Refrigeration |           | Solvent | Process agent | Lab use    | Total sector consumption |
|   |         |      |               | Manufacturing | Servicing |         |               |            |                          |
| HCFC-22   |         |      |               |               | 14.25     |         |               |            | 14.25                    |

| (IV) CONSUMPTION DATA (ODP tonnes)            |       |  |       |
|---|-------|--|-------|
| 2009 - 2010 baseline:                         | 36.15 | Starting point for sustained aggregate reductions: | 20.96 |
| CONSUMPTION ELIGIBLE FOR FUNDING (ODP tonnes) |       |  |       |
| Already approved:                             | 7.34  | Remaining:   | 13.62 |

| (V) BUSINESS PLAN |                            | 2020 |         |
|-------------------|----------------------------|------|---------|
| UNEP              | ODS phase-out (ODP tonnes) |      | 1.40    |
|                   | Funding (US \$)            |      | 135,600 |
| UNIDO             | ODS phase-out (ODP tonnes) |      | 0.58    |
|                   | Funding (US \$)            |      | 53,750  |

| (VI) PROJECT DATA  |               |               | 2011    | 2012 | 2013  | 2014  | 2015  | 2016    | 2017  | 2018  | 2019  | 2020*   | 2021  | Total   |
|--|---------------|---------------|---------|------|-------|-------|-------|---------|-------|-------|-------|---------|-------|---------|
| Montreal Protocol consumption limits                       |               |               | n/a     | n/a  | 36.15 | 36.15 | 32.54 | 32.54   | 32.54 | 32.54 | 32.54 | 23.50   | 23.50 | n/a     |
| Maximum allowable consumption (ODP tonnes)                 |               |               | n/a     | n/a  | 20.96 | 20.96 | 20.96 | 18.86   | 17.70 | 16.80 | 15.90 | 13.62   | 13.62 | n/a     |
| Agreed funding (US \$)                                     | UNEP          | Project costs | 100,000 | 0    | 0     | 0     | 0     | 80,000  | 0     | 0     | 0     | 120,000 | 0     | 300,000 |
|  |               | Support costs | 12,887  | 0    | 0     | 0     | 0     | 10,400  | 0     | 0     | 0     | 15,600  | 0     | 38,887  |
|  | UNIDO**       | Project costs | 200,000 | 0    | 0     | 0     | 0     | 80,000  | 0     | 0     | 0     | 50,000  | 0     | 330,000 |
|  |               | Support costs | 15,000  | 0    | 0     | 0     | 0     | 6,000   | 0     | 0     | 0     | 3,750   | 0     | 24,750  |
| Funds approved by ExCom (US \$)                            | Project costs |               | 300,000 | 0    | 0     | 0     | 0     | 160,000 | 0     | 0     | 0     | 0       | 0     | 460,000 |
|  | Support costs |               | 27,887  | 0    | 0     | 0     | 0     | 16,400  | 0     | 0     | 0     | 0       | 0     | 44,287  |
| Total funds requested for approval at this meeting (US \$) | Project costs |               |         |      |       |       |       |         |       |       |       | 170,000 |       | 170,000 |
|  | Support costs |               |         |      |       |       |       |         |       |       |       | 19,350  |       | 19,350  |

\*Revised updated Agreement to be considered at the 85<sup>th</sup> meeting.

\*\*UNIDO was the Lead IA for the first two tranches.

|                                      |                              |
|--------------------------------------|------------------------------|
| <b>Secretariat's recommendation:</b> | For individual consideration |
|--------------------------------------|------------------------------|

## PROJECT DESCRIPTION

1. On behalf of the Government of Senegal, UNEP as the lead implementing agency, has submitted a request for funding for the combined third and fourth tranches of stage I of the HCFC phase-out management plan (HPMP), at a total cost of US \$189,350, consisting of US \$120,000, plus agency support costs of US \$15,600 for UNEP, and US \$50,000, plus agency support costs of US \$3,750 for UNIDO.<sup>1</sup> The submission includes a progress report on the implementation of the second tranche, the verification report on HCFC consumption for 2016 to 2019, the tranche implementation plan for 2020-2021, and a request for extension of stage I of the HPMP.

### Introduction

2. The third funding tranche of stage I of the HPMP for Senegal was due for submission in 2018. However, due to delays in completing the verification of HCFC consumption required for submission and in finalizing some activities under the HPMP, the tranche request could not be submitted.

3. At the 84<sup>th</sup> meeting, the Government of Senegal had sent an official letter<sup>2</sup> to the Secretariat requesting for a change in the lead implementing agency from UNIDO to UNEP (the cooperating implementing agency). Subsequently, the Executive Committee noted the request by the Government, and requested UNEP to submit the third funding tranche of stage I of the HPMP together with the revised updated Agreement between the Government and the Committee, no later than the 85<sup>th</sup> meeting (decision 84/25).

4. Given the delay in submission of the third funding tranche, and in order to accelerate the implementation of stage I and meet the compliance targets under the updated Agreement with the Executive Committee, the Government of Senegal has requested the approval of the third tranche (US \$100,000 plus agency support costs) and the fourth tranche (US \$70,000 plus agency support costs) at the 85<sup>th</sup> meeting, and the extension of the completion date from 2020 to 2021.

### Report on HCFC consumption

5. The Government of Senegal reported a consumption of 14.25 ODP tonnes of HCFC in 2019, which is 61 per cent below the HCFC baseline for compliance and 10 per cent below the allowable level of consumption under the Agreement with Executive Committee. The 2015-2019 HCFC consumption is shown in Table 1.

**Table 1. HCFC consumption in Senegal (2015-2019 Article 7 data)**

| <b>HCFC-22</b>     | <b>2015</b> | <b>2016</b> | <b>2017</b> | <b>2018</b> | <b>2019</b> | <b>Baseline</b> |
|--------------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| Metric tonnes (mt) | 375.00      | 340.00      | 325.09      | 275.00      | 259.00      | 657.27          |
| ODP tonnes         | 20.63       | 18.70       | 17.88       | 15.13       | 14.25       | 36.15           |

6. The consumption of HCFC-22 is decreasing on account of the HPMP activities including the enforcement of the licensing and quota systems, better servicing practices followed by technicians as a result of training, and the technical assistance provided to the refrigeration servicing sector. In addition, the import of non-HCFC-based refrigeration and air-conditioning (RAC) equipment has contributed to the reduction on HCFC consumption.

<sup>1</sup> As per the letter of 4 March 2020 from the Ministry of Environment and Sustainable Development of Senegal to the Secretariat.

<sup>2</sup> Letter dated 2 October 2019 from the national ozone unit of Senegal.

*CP implementation report*

7. The Government of Senegal reported HCFC sector consumption data under the 2019 CP implementation report which is consistent with the data reported under Article 7 of the Montreal Protocol.

*Verification report*

8. The verification report confirmed that the Government is implementing a licensing and quota system for HCFC imports and exports and that the total consumption of HCFCs reported under Article 7 of the Montreal Protocol for 2016 to 2019 was correct (as shown in Table 1 above), except for 2017 where the consumption in the verification report was 17.60 ODP tonnes, (i.e., 0.28 ODP tonnes lower than the consumption reported under Article 7 of 17.88 ODP tonnes).

9. The verification reports also indicated that Senegal is in compliance with the targets set in the updated Agreement with the Executive Committee and provided recommendations for improving the quota, licencing and reporting systems; increasing the training of customs officers especially at the border, providing refrigerant identifiers to reduce the risk of illegal trade of ODS; and revising the 2017 consumption reported under Article 7 following the verification results. UNEP indicated that the Government of Senegal will implement the recommendations during the combined third and fourth tranches.

Progress report on the implementation of the second tranche of the HPMP

*Legal framework*

10. An Inter-Ministerial Order updating the HCFC regulation came into force in 2014, making the licensing and quota system fully functional; introducing a registration system for refrigeration technicians, refrigeration service workshops, refrigerants and refrigeration equipment distributors and special requirements for labelling HCFC-based containers; and regulating import of HCFC-based equipment. The electronic database linking the licensing system with the customs database is now operational (i.e., the NOU can now upload ODS and HCFC authorizations online) and is expected to facilitate more efficient monitoring the import/export of HCFCs and potentially HFCs in the future.

11. The Government is in the process of amending the draft Interim Administrative Order on the consumption of HCFCs and on HFCs to take into account the Kigali Amendment, which the country ratified in August 2018.

*Refrigeration servicing sector*

12. The following activities were implemented:

- (a) Assessment of the current regulatory framework with assistance of a policy consultant to support the national ozone unit (NOU) with regard to mandatory inspections (technical verification) for reducing refrigerant leakage rate when servicing equipment, checking refrigerant charge of equipment and installations, and addressing responsibilities of equipment owners to ensure proper servicing is done by qualified service technicians regularly to reduce emissions;
- (b) Eight workshops where 190 customs officers were trained on identification and control of ODS and ODS-based equipment and the use of a refrigerant identifier which was provided and used in previous tranches' training;
- (c) Seven workshops where 20 trainers and 175 refrigeration technicians were trained in good

refrigeration practices and safe handling of flammable refrigerants; and development of a manual on good practices for service technicians, and a database listing all technicians that had been certified; and

- (d) Delivery of 20 sets of recovery/recycling equipment (e.g., recovery units, vacuum pumps, storage tanks, gauges) to 20 workshops; and training of 60 refrigeration technicians in recovery and recycling procedures.

*Project implementation and monitoring unit (PMU)*

13. The monitoring of the implementation of the activities under the HPMP, including support to the independent expert recruited for verification, is done through the NOU. Funding of US \$10,000 was allocated for project monitoring, of which US \$2,118 will be carried over to the next tranche.

Level of fund disbursement

14. As of March 2020, of the US \$460,000 approved so far, US \$457,882 had been disbursed (US \$277,882 for UNIDO and US \$180,000 for UNEP) as shown in Table 3. The balance of US \$2,118 will be disbursed in 2020.

**Table 3. Financial report of stage I of the HPMP for Senegal (US \$)**

| Agency                       | First tranche |           | Second tranche |           | Total    |           |
|------------------------------|---------------|-----------|----------------|-----------|----------|-----------|
|                              | Approved      | Disbursed | Approved       | Disbursed | Approved | Disbursed |
| UNIDO                        | 200,000       | 200,000   | 80,000         | 77,882    | 280,000  | 277,882   |
| UNEP                         | 100,000       | 100,000   | 80,000         | 80,000    | 180,000  | 180,000   |
| <b>Total</b>                 | 300,000       | 300,000   | 160,000        | 157,882   | 460,000  | 457,882   |
| <b>Disbursement rate (%)</b> | 100           |           | 98.77          |           | 99.50    |           |

Implementation plan for the combined third and fourth tranches of the HPMP

15. The following activities will be implemented until December 2021:
- (a) Continued monitoring of implementation of licensing and quota system through regular maintenance and operation of the electronic licensing system database; updates to the database when required; (UNIDO) (US \$40,000);
  - (b) Organization of 20 workshops for about 500 refrigeration technicians on good practices in refrigeration, HCFC alternatives, and servicing of RAC equipment. (UNEP) (US \$70,000);
  - (c) Organization of 12 workshops in some ports of entry of the country covering all regions, for 240 customs officers on control and identification of HCFCs and HCFC-based equipment as well as monitoring of illegal trade (UNEP) (US \$50,000);
  - (d) Two workshops on recovery/recycling addressing recovery network (refrigeration service workshops) (UNIDO) (US \$10,000); and
  - (e) Monitoring and coordination of the implementation of the HPMP (UNIDO) (funding balance from the previous tranche).

## SECRETARIAT'S COMMENTS AND RECOMMENDATION

### COMMENTS

#### Request for approval of the combined third and fourth tranches and extension of stage I of the HPMP

16. UNEP explained that the delays in the implementation of the HPMP activities were related to administrative problems associated with procurement of equipment required for the training programmes; the timely completion of the verification was delayed due to issues related to the hiring of the independent verifier. These issues have since been resolved and the Government is committed to implement the remaining activities as soon as possible.

17. During the project review process, the Secretariat had extensive discussions with UNEP on the request by the Government to consider the joint implementation of the third and fourth tranches at the 85<sup>th</sup> meeting. During the discussions, both UNEP and UNIDO assured that they would be able to assist the Government in implementing the on-going activities and those proposed under the combined funding tranches expeditiously.

18. Noting that the issues that caused the delay in implementing the ongoing activities and in submitting the third tranche request in 2018 have been addressed and given the assurance by the implementing agencies that they would be able to implement all the activities on time, the Secretariat is favourably recommending the approval of the third and fourth tranches as requested by the Government of Senegal.

19. The Secretariat also recommends the extension of stage I from 2020 to 2021, noting that the Government will submit stage II of the HPMP on or before the 87<sup>th</sup> meeting. There is no funding allocated for 2021 as the extension is only to enable the completion of activities associated with this tranche requested at the 85<sup>th</sup> meeting.

20. Noting the request to change the lead implementing agency from UNIDO to UNEP, to combine two funding tranches into one, and to extend the date of completion of stage I, the Secretariat recommends a revision of the Agreement between the Government of Senegal and the Executive Committee, as shown in Annex I to the present document. The full revised Agreement will be appended to the final report of the 85<sup>th</sup> meeting.

#### Report on HCFC consumption

21. The Secretariat noted that the 2017 consumption was wrongly reported at 17.88 ODP tonnes under Article 7 of the Protocol instead of 17.60 ODP tonnes, as reported in the verification report submitted together with the funding tranche request, and that UNEP had confirmed that on 14 April 2020 the Government has requested the Ozone Secretariat to revise the consumption for 2017.

#### Progress report on the implementation of the second tranche of the HPMP

##### *Legal framework*

22. The Government of Senegal has issued HCFC import quotas for 2020 at 13.62 ODP tonnes which is in accordance with the targets set in its Agreement with the Executive Committee.

##### *Refrigeration servicing sector*

23. UNEP clarified that there is as yet no formal certification of technicians in Senegal; however, there is a regulation that requires the registration of technicians and refrigeration service workshops so that these can be regularly monitored; in addition, vocational schools have introduced a module on good refrigeration

servicing practices in their curricula. The training of technicians has resulted in less venting of refrigerants during servicing which in turn has reduced the demand for HCFC-22. To support this, UNEP also indicated that there is no retrofitting of HCFC-22-based equipment to flammable refrigerants taking place and that both the Government and the refrigeration servicing sector were not promoting such practices. While there are no formal recovery and recycling centres established, the Government has identified several service workshops which serve as these recovery centres and have been provided such equipment. The quantities of recovered refrigerants are very limited so far (i.e., below 1 mt per year).

### Gender policy implementation<sup>3</sup>

24. The Secretariat noted that the Government of Senegal will promote the Multilateral Fund gender policy and will track its implementation during the combined third and fourth tranches. This will include tracking the number of female customs officers and service technicians who will participate in the training courses. UNEP will also work closely with the Government to encourage more participation of females in training programmes as well as to ensure that female technicians are given the same opportunities as their male counterparts to develop their careers in the refrigeration servicing sector. The indicators measuring the implementation of the gender policy will be identified and reported upon.

### Sustainability of the HCFC phase-out

25. The Government of Senegal continues to implement their licensing and quota system for the import, sale and use of ODS, ODS alternatives and equipment ensuring compliance with the Montreal Protocol control measures and its Agreement targets. The NOU is working closely with vocational institutes to ensure the training of technicians would be sustained by ensuring that a module on good refrigeration servicing practices are included in their vocational curricula. The Government is also planning to include a formal certification system for technicians and a ban on the imports of HCFC-based equipment in stage II of the HPMP. In addition, the electronic database linking the licensing system with the customs database is now operational and is expected to facilitate more efficient monitoring the import/export of HCFCs and potentially HFCs in the future. With these measures, the sustainability of the HCFC phase-out could be ensured.

### Conclusion

26. The implementation of the HPMP is progressing. The country's import licensing and quota system is operational, and the consumption of HCFCs for 2019 was 61 per cent below the HCFC baseline for compliance and 10 per cent below the Agreement's target. The Government has committed to implement the recommendations in the verification report. The delays in implementation of the activities under the HPMP have been resolved and the Government, with the assistance from UNEP and UNIDO, commits to complete the activities under stage I by December 2021; towards this, it has requested a revision of its Agreement with the Executive Committee including combining the third and fourth tranches which will speed up implementation of activities. The overall fund disbursement as well as that of the second tranche have reached 99 per cent.

## **RECOMMENDATION**

27. The Executive Committee may wish to consider:

- (a) Noting the progress report on the implementation of the second tranche of stage I of the HCFC phase-out management plan (HPMP) for Senegal;

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<sup>3</sup> Decision 84/92(d) requested bilateral and implementing agencies to apply the operational policy on gender mainstreaming throughout the project cycle.

- (b) Approving the extension of the duration of stage I of the HPMP to 31 December 2021 on the understanding that no further extension would be approved;
- (c) Noting that the Fund Secretariat had revised the updated Agreement between the Government of Senegal and the Executive Committee, contained in Annex I to the present document, specifically Appendix 2-A, to reflect the extension of the duration of stage I and the revised funding schedule which combined the third (2018) and fourth (2020) tranches, paragraph 9, Appendices 2-A and 5-A to reflect the change in lead implementing agency to UNEP and cooperating implementing agency to UNIDO, and paragraph 16, to indicate that the revised updated Agreement superseded that reached at the 77<sup>th</sup> meeting;
- (d) Requesting the Government of Senegal, UNEP and UNIDO to submit a progress report on a yearly basis on the implementation of the work programme associated with the final tranche until the completion of the project, verification reports until approval of stage II, and the project completion report to the first meeting of the Executive Committee in 2023;
- (e) Approving the combined third and fourth tranches of stage I of the HPMP for Senegal, and the corresponding 2020-2021 tranche implementation plan, at the amount of US \$189,350 consisting of US \$120,000, plus agency support costs of US \$15,600 for UNEP; and US \$50,000, plus agency support costs of US \$3,750 for UNIDO, on the understanding that UNEP would include as part of the progress report referred to in paragraph (d) above the recommendations in the verification report submitted to the 85<sup>th</sup> meeting.



**Annex I**

**TEXT TO BE INCLUDED IN THE REVISED UPDATED AGREEMENT BETWEEN THE GOVERNMENT OF THE REPUBLIC OF SENEGAL AND THE EXECUTIVE COMMITTEE OF THE MULTILATERAL FUND FOR THE REDUCTION IN CONSUMPTION OF HYDROCHLOROFLUOROCARBONS**

(Relevant changes are in bold font for ease of reference)

9. The Country agrees to assume overall responsibility for the management and implementation of this Agreement and of all activities undertaken by it or on its behalf to fulfil the obligations under this Agreement. **UNEP** has agreed to be the lead implementing agency (the “Lead IA”) and **UNIDO** has agreed to be the cooperating implementing agency (the “Cooperating IA”) under the lead of the Lead IA in respect of the Country’s activities under this Agreement. The Country agrees to evaluations, which might be carried out under the monitoring and evaluation work programmes of the Multilateral Fund or under the evaluation programme of any of the agencies taking part in this Agreement.

16. This **revised** updated Agreement supersedes the Agreement reached between the Government of the Republic of Senegal and the Executive Committee at the **77<sup>th</sup>** meeting of the Executive Committee.

**APPENDIX 2-A: THE TARGETS, AND FUNDING**

| Row   | Particulars  | 2011    | 2012 | 2013  | 2014  | 2015  | 2016    | 2017  | 2018     | 2019     | 2020           | 2021         | Total   |
|-------|--|---------|------|-------|-------|-------|---------|-------|----------|----------|----------------|--------------|---------|
| 1.1   | Montreal Protocol reduction schedule of Annex C, Group I substances (ODP tonnes)   | n/a     | n/a  | 36.15 | 36.15 | 32.54 | 32.54   | 32.54 | 32.54    | 32.54    | 23.50          | <b>23.50</b> | n/a     |
| 1.2   | Maximum allowable total consumption of Annex C, Group I substances (ODP tonnes)    | n/a     | n/a  | 20.96 | 20.96 | 20.96 | 18.86   | 17.70 | 16.80    | 15.90    | 13.62          | <b>13.62</b> | n/a     |
| 2.1   | Lead IA ( <b>UNEP</b> ) agreed funding (US \$)                                     | 100,000 | 0    | 0     | 0     | 0     | 80,000  | 0     | <b>0</b> | <b>0</b> | <b>120,000</b> | <b>0</b>     | 300,000 |
| 2.2   | Support costs for Lead IA (US \$)  | 12,887  | 0    | 0     | 0     | 0     | 10,400  | 0     | <b>0</b> | <b>0</b> | <b>15,600</b>  | <b>0</b>     | 38,887  |
| 2.3   | Cooperating IA ( <b>UNIDO</b> )* agreed funding (US \$)                            | 200,000 | 0    | 0     | 0     | 0     | 80,000  | 0     | <b>0</b> | <b>0</b> | <b>50,000</b>  | <b>0</b>     | 330,000 |
| 2.4   | Support costs for Cooperating IA (US \$)   | 15,000  | 0    | 0     | 0     | 0     | 6,000   | 0     | <b>0</b> | <b>0</b> | <b>3,750</b>   | <b>0</b>     | 24,750  |
| 3.1   | Total agreed funding (US \$)   | 300,000 | 0    | 0     | 0     | 0     | 160,000 | 0     | <b>0</b> | <b>0</b> | <b>170,000</b> | <b>0</b>     | 630,000 |
| 3.2   | Total support costs (US \$)  | 27,887  | 0    | 0     | 0     | 0     | 16,400  | 0     | <b>0</b> | <b>0</b> | <b>19,350</b>  | <b>0</b>     | 63,637  |
| 3.3   | Total agreed costs (US \$)   | 327,887 | 0    | 0     | 0     | 0     | 176,400 | 0     | <b>0</b> | <b>0</b> | <b>189,350</b> | <b>0</b>     | 693,637 |
| 4.1.1 | Total phase-out of HCFC-22 agreed to be achieved under this Agreement (ODP tonnes) |         |      |       |       |       |         |       |          |          |                |              | 7.34    |
| 4.1.2 | Phase-out of HCFC-22 to be achieved in previously approved projects (ODP tonnes)   |         |      |       |       |       |         |       |          |          |                |              | n/a     |
| 4.1.3 | Remaining eligible consumption for HCFC-22 (ODP tonnes)                            |         |      |       |       |       |         |       |          |          |                |              | 13.62   |

\*UNIDO was the Lead IA for the first two tranches.

## **APPENDIX 5-A: MONITORING INSTITUTIONS AND ROLES**

2. The management of the implementation of the planned project activities will be allocated to the NOU in cooperation with **UNEP** as the Lead IA and **UNIDO** as Cooperating IA.

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