



HCFC Phase-out Management Plan (HPMP) Stage I

Technical Review Meeting

Cara Lodge Hotel, Georgetown, Guyana

April 9, 2015



From left to right: Dr. Patrick Chesney, Behonka Dey, Patrick Chinedu, Devendra Singh, Wendella Walton, Deborah Johnson, Azad Sugrim, Colis Wills, Zainool Rahaman, Odessa Shako; Mark Adams and Dr. Garvin Cummings.

The Ministry of Agriculture, Hydrometeorological Service – National Ozone Action Unit

In collaboration with

The United Nations Development Programme and the United Nations Environment Programme

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1 OVERVIEW

The meeting was organised by the Ministry of Agriculture, Hydrometeorological Service - National Ozone Action Unit in collaboration with partnering agencies; the United Nations Development Programme and the United Nations Environment Programme. The meeting was aimed at providing a platform to bring all stakeholders together to discuss the implementation of the HPMP Stage I in preparation for the implementation of Stage II.

Remarks were delivered by Ms. Khadija Musa, United Nations (UN) Resident Coordinator and United Nations Development Programme (UNDP) Resident Representative. Ms. Musa indicated that she is happy about the progress Guyana has made in achieving the first phase out target under the Montreal Protocol and emphasised the need to accelerate these efforts to achieve an earlier phase out than previously targeted. She believes this is achievable with policy enforcement.

Ms. Musa, said that the UNDP remains committed to the Montreal Protocol phase out programme in Guyana and is willing to support the Ministry of Agriculture in this regard.

Mr. George Jervis, Permanent Secretary, addressing the audience on the behalf of the Minister of Agriculture, reiterated the Ministry of Agriculture's commitment to the Montreal Protocol's programme and the phasing out of ozone depleting substances in Guyana. Mr. Jervis pointed out the willingness of his Ministry to accelerate the phasing out of HCFCs, providing that there are no legal implications, with regard to Guyana's agreement under the Montreal Protocol, for doing so.

In his closing remarks, Dr. Garvin Cummings, highlighted the importance of forums such as this which provide a platform for dialogue and the exchange of thoughts and ideas in a respectful manner. Dr. Cummings thanked the stakeholders who participated in the meeting and encouraged their continued support during the implementation of the HPMP programme in Guyana.

Please see list of attendees and the agenda in the annexes attached.

2 OBJECTIVES:

1. To highlight the achievements made under the HPMP Stage I implementation
2. To introduce the proposed activities to be implemented and objectives to be achieved under Stage II
3. To seek recommendations from the stakeholders on the way forward for the successful implementation of Stage II

3 ACHIEVEMENTS UNDER HPMP STAGE I

In a presentation titled “HCFC Phase out Management – Stage One Implementation” Ms. Behonka Dey, National Ozone Officer, discussed Guyana’s achievements under the HPMP Stage One project. Among achievements highlighted in her presentation were:

1. Implementation of Trade Order No. 6 of 2010 to monitor and regulate the importation of HCFCs
2. Implementation of Quota and Permit System to achieve targets set out under the Montreal Protocol
3. Introduction of licensing system for practicing R&AC technicians in Guyana
4. 10% reduction on the importation of HCFCs by January 1, 2015
5. Restriction on the importation of HCFC based equipment
6. Customs Workshop to facilitate training in the identification of refrigerant gases and verification using the refrigerant identifier. A total of 4 workshops were held in Regions 2, 4 and 9 and 70 custom officers were trained.
7. Technicians Workshop in Good Refrigeration Practices (using alternatives i.e. hydrocarbons). A total of 8 workshops were held in Regions 2, 5, 6 and 10 and 99 technicians were trained
8. Procurement of refrigeration equipment to support technical institutions and private technicians
9. Revision of labelling standard for refrigerants and equipment containing refrigerants
10. Development of 3 core modules for the Refrigeration & Air-conditioning course under the CVQ Level 1 standard
11. Establishment of a practical workshop at the Sophia Training Centre for the R&AC Course
12. Public Awareness through a number of activities for

13. Strengthening of partnerships with important Agencies such as the Guyana Revenue Authority, Ministry of Education, Guyana National Bureau of Standard, Environmental Protection Agency

4 PREPARING FOR HPMP STAGE II

Mr. Marco Pinzon, of the United Nations Environment Programme (UNEP) made a presentation on the “HCFC Phase-out Management Plan (Stage II) in Guyana. Mr. Pinzon in his presentation pointed out that preparatory funds for the HPMP Stage II were approved in December, 2014. The project document will be submitted at the 75th Executive Committee Meeting (ExCom) to be held November 9-12, 2015. The deadline for submission of this document to UNEP is July 20, 2015 and final submission for the meeting is August 3, 2015.

4.1 Activities to be completed for the submission of Project Proposal for Stage II

1. Evaluate progress of Stage I.
2. Evaluate legislation, LS/QS.
3. Prepare questionnaires for survey of HCFC use and equipment.
4. Undertake survey and mission to country
5. Develop a strategy (country ownership)
6. Hold consultations with stakeholders, incorporate inputs
7. Draft project proposal document
8. Submit to the Secretariat by deadline
9. Address comments/concerns in close consultation with country
10. Finalize negotiations for approval by the ExCom

4.2 Recommendations made by implementing Agency UNEP for the successful implementation of Stage II include

1. Involvement of all stakeholders from the outset
2. Ensure high-level political support
3. Take ownership of the process
4. Partnerships/synergies with other Ministries/Governmental institutions
5. Develop an ambitious yet achievable strategy
6. Maintain involvement and participation during implementation
7. Update and manage assumptions and risks
8. Meet commitments
9. Implement according to agreement
10. Implementing agencies UNEP and UNDP will support

4.3 Proposed policy, institutional and capacity building gaps to be addressed during Stage II of the HPMP

Discussions on the preparations for the implementation of Stage II of the HPMP continued with a presentation from Ms. Odessa Shako, National Ozone Manager, who identified some of the institutional and policy gaps observed during the implementation of Stage One of the HPMP, with the hope of undertaking these during Stage II of the HPMP. The gaps identified and corresponding recommendations were:

1. Strengthening collaboration between enforcement agencies (National Ozone Unit, Guyana Revenue Authority, Pesticides and Toxic Chemical Control Board).
2. Clearly defining the roles of agencies with respect to the legislation
3. Refining and strengthening of the retrofitter licence process. This include the introduction of an electronic testing and licensing process in the future
4. Regulation to curb emission of refrigerants
5. Policy and supporting regulation to address the safety implications for using natural refrigerants such as standards and guidelines for transportation, handling and storage of refrigerants;
6. Policies to influence procurement decisions for installations of new refrigeration and air conditioning systems as well as large plants and institutions. This may involve review of EIA regulations;
7. Better management and monitoring of the end use of refrigerants imported into Guyana. This may require the introduction of policies and regulations requiring technicians and refrigerant retailers to keep a log of refrigerant purchases and sales, whether locally or imported
8. Establishment of economic incentives/disincentives programmes to promote the use of HCFC alternatives and environmentally friendly practices in the RAC sector.
9. National research to inform policy decisions on adoption of alternative technologies (collaboration with technical institutions, industry experts and the University of Guyana.
10. Inclusion of Montreal Protocol training modules in the in-house training of the Guyana Revenue Authority custom officers
11. Continued support for the Technicians' Association. The existence of an association can improve information sharing in the industry, enhance the negotiating power of the refrigeration and air conditioning sector and assist

- in monitoring the industry and enforcement of the proposed refrigeration standard
12. Continued support for institutionalised training on good refrigeration and air conditioning. Emphasis should be placed on improving the certification programme for technicians and encouraging informal technicians to become fully certified
 13. Continued training of technicians on Good Servicing Practices, Recovery and Recycling and Retrofitting to alternative refrigerants
 14. Emphasis on the purchase of advanced refrigerant identifiers to support monitoring of the newer refrigerants at the respective ports and the provision of recovery and recycling equipment and materials for the refrigeration and air conditioning service sector.
 15. Increase public education on the HCFC phase out, the economic and environmental benefits of HCFC phase out (environmental impact and energy efficiency) and health and safety considerations for refrigerant use, with particular focus on natural refrigerants.
 16. Improved data collection on recovery and recycling process to determine the impact of the programme on avoided emissions

5 RECOMMENDATIONS MADE BY THE STAKEHOLDERS

1. **Acceleration of the HCFC phase out in Guyana** - Stakeholders present voiced their concern about Guyana's approach to the phase out schedule which they believe should be accelerated on a national level. While in agreement, the Ministry expressed its concern for opting for this approach based on the agreement that was signed with the Montreal Protocol and the implications to other importers that still have an interest in importing HCFCs.
2. **National demand for HCFC-22** - One participant questioned whether the current demand for HCFC is real or artificial and whether it may be a case of technicians stockpiling refrigerants. In this regard, it was pointed out that the local demand for HCFC-22 should be assessed as a means of addressing the issue of the phase out schedule and the suggested push for accelerated phase out.
3. **Resuscitation or re-establishment of refrigerant reclamation and recycling facilities throughout the country.** It was recommended that technical

training institutes could be used for this purpose. It is believed that with the establishment of these facilities the demand for importation of new HCFC-22 refrigerant could be significantly reduced. Development of project(s) for Recovery, Recycling and Reuse of refrigerants since this is a pressing issue that directly affects the ability to positively contribute to Good Refrigeration Practices and ozone layer protection.

4. **Research** - It was recommended that more efforts should be placed on research. Particularly, research that focuses on the performance of Hydrocarbon systems locally, including the efficiency of the systems and safety implications. It was recommended that the University of Guyana and technical institutions could be approached on this regard.
5. **Resuscitation of GARVA** – the need to have the Association operational was voiced by stakeholders present. The Ministry emphasised its willingness to provide support to the technicians in their efforts to have the association, however, it was made clear that the members must have a sense of ownership with minimal but necessary assistance from the National Ozone Action Unit.
6. **Public awareness** – The need for acceleration of the education programme on HCFC particularly at the household and business levels was suggested by one participant

6 HIGHLIGHTS FROM THE MEETING



Mr. George Jerois, Permanent Secretary – Ministry of Agriculture delivers the feature address at the meeting on behalf of the Hon. Minister of Agriculture, Dr. Leslie Ramsammy



Ms. Khadija Musa, United Nations Resident Coordinator and United Nations Development Programme Resident Representative, delivers remarks during the meeting



Patrick Chinedu, Assistant Chief Education Officer – Technical, addresses meeting attendees



Mr. Kent Phillips (right) receives his Retrofit License from Mr. Patrick Chinedu, Assistant Chief Education Officer – Technical, during the meeting. This is the first retrofit licence issued by the Ministry of Agriculture, under the Montreal Protocol's phase out programme.



Representatives from Technical Institutions (UCITC, KKTC, GTC-PM, STC and GTI) receive hampers containing Refrigeration & Air-conditioning tools from Mr. Garvin Cummings, Ministry of Agriculture and Dr. Patrick Chesney, UNDP

7 ANNEXES

7.1 ANNEX I - Agenda

09:00 – 09:05	Welcome	Mr. Zainool Rahaman, Chairperson
09:05 – 09:25	Review of the HPMP Stage 1 Project – Achievements and challenges	Ms. Behonka Dey , National Ozone Officer, National Ozone Action Unit
09:25 – 09:55	Next Steps – HPMP stage 2 Project	Marco Pinzon , Programme Officer, United Nations Environment Programme (<i>via Skype</i>) Ms. Odessa Shako , National Ozone Manager, National Ozone Action Unit
09:55 – 10:15	Discussion	Audience
10:15 – 10:30	Break	
10:30 – 10:45	Remarks	Ms. Khadija Musa , United Nations (UN) Resident Coordinator and United Nations Development Programme (UNDP) Resident Representative
10:45 – 11:15	Address	Dr. Leslie Ramsammy , Minister of Agriculture
11:00 – 11:25	Presentation of Retrofitter License	Mr. Patrick Chinedu , Assistant Chief Education Officer - Technical
11:25 – 11:45	Presentation of equipment	Dr. Garvin Cummings , Chief Hydrometeorological Officer (ag) Ms. Khadija Musa , Country Representative, United Nations Development Programme and Ministry of Agriculture
11:45– 12:00	Closing Remarks	Dr. Garvin Cummings , Chief Hydrometeorological Officer (ag)
12:00	Snack	

7.2 ANNEX II - Attendance List

No.	Name	Position/Organisation	Contact Numbers	Email Address
1	Azad Sugrim	Administrator - UCITC, MoE	339-2210 / 339-2218	azadsugrim2857@yahoo.com
2	Archibald Clifton	Executive Member - G.A.P.E	218-1856	archibaldclifton@yahoo.com
3	Nazim Khan	Manager/Director - N.K Ref	626-2847	
4	Patrick Chesney	Programme Specialist - UNDP	226-4040	patrick.chesney@undp.org
5	Kent Phillips	Antarctic Maintenance & Repairs	603-6311	antarcticrepairs@yahoo.com
6	Deborah Johnson	STO (ag) - MCYS YEST	673-9905	
7	Sheik Ahmad	CEO - Service Guyana Inc.	227-0849	sheikh@serviceguyana.com
8	Everard Rampersad	Technical Engineer - GEA	225-8569 ext(238)	everardrampersad@gmail.com
9	Mark Adams	Guyana Technical Institute (GTI)	625-5582	markadams_78@yahoo.com
10	Patrick Chinedu	ACEO Technical - MoE	231-8815	aceo_tech@yahoo.com
11	P Alleyne	Environmental Protection Agency (EPA)	225-0506	kareuauansa@gmail.com
12	Devendra Singh	Guysuco Training Center (GTC)	336-6190/644-3459	ds2km3@yahoo.com
13	Brian King	Ministry of Culture Youth and Sports (MCYS)	225-9152	
14	David Hermonstine	Manager - GRA	623-4497	davastine07@hotmail.com

No.	Name	Position/Organisation	Contact Numbers	Email Address
15	Jerry Simpson	Council of TVET	227-8784(9)	council4tvvet@yahoo.com
16	Wendela Walton	Kuru Kuru Training Centre	665-7807	wendellawalton_@yahoo.com
17	Archibald Clifton	AC Contractor	226-1292/623-3710	
18	Colin Wills	Technical Engineer	626-2290	cwills@banksdih.com
19	Shereeda Yusuf	Technical Co-ordinator - OCC	223-0971	s.yusuf@lcds.gov.gy
20	Joseph Peters	Electrical Engineer - GEI	225-4669	geihggy@gmail.com
21	Krystle Corpuz	UNDP		iampkpmc@gmail.com
22	Khadija Musa	UN/UNDP		
23	Akua Carberry	UNDP	226-4040	akua.carberry@undp.org
24	Ramdayal	Guyana Information Agency (GINA)	625-4011	ramdayal_ace@yahoo.com
25	George Jarvis	PS - Ministry of Agriculture	227-5527	ps.moagy@gmail.com
26	Garvin Cummings	CHO (ag) - Hydromet Service	225-4247/225-9303	garvin.cummings@gmail.com
27	Odessa Shako	National Ozone Manager - NOAU	226-5403	odessas_shako@yahoo.com
28	Behonka Dey	National Ozone Officer - NOAU	225-9303	bdey.ozone@yahoo.com
29	Zainool Rahaman	Hydrometeorological Service	653-0332	zainoolm@yahoo.com

