



Group Seminar for Asian Countries on Fluorocarbons Life Cycle Management 2024

Co-organized by the Ministry of the Environment, Japan, the Asian Development Bank
and the Climate and Clean Air Coalition

August 27 and 28, 2024, Bangkok, Thailand

1. Background

The Initiative on Fluorocarbons Life cycle management (IFL) has been promoting relevant actions in developing countries to minimize emissions of hydrofluorocarbons (HFC) and Ozone Depleting Substances (ODS) from the cooling sector.

Since 2020, the Ministry of the Environment, Japan has conducted the Group Seminar on Fluorocarbons Life Cycle Management for Asian Countries, invited government officials and stakeholders through online platform. The Seminar programmes focused on science, policy and technology aspects, such as introduction to Japan's experiences with implementing the Act on Rational Use of Fluorocarbons, and related policy instruments, showcasing various technologies, to avoid leakage of, collect, recycle/reclamation and destroy used fluorocarbons. The Seminar also provided a space for participating countries to share and update their progress of policies and measures, and to discuss with other countries.

As one of the founding members of the IFL, the Asian Development Bank (ADB) has been implementing a Technical Assistance (TA) 6730 on Promoting Life Cycle Management of Fluorocarbons since 2021. Policy gap analysis, technology assessment as well as provision of technical training and policy development support have been conducted for Maldives, Mongolia, Philippines and Viet Nam. The TA has been looking into the potential of carbon market mechanisms for enhancing implementation of life cycle management. The Climate and Clean Air Coalition (CCAC), another founding member has contributed to mainstreaming the efforts of fluorocarbons life cycle management through the Cooling Hub, and has successfully advocated it at UNFCCC COP and the Montreal Protocol MOP and other key arena.

This year, the Group Seminar will be co-organized by the MOEJ, the ADB, and the CCAC shedding a light on recent updates of international discussion, such as MOP Decision XXXV/11 on life cycle refrigerant management (LRM) under the Montreal Protocol, as well as needs for updating Nationally Determined Contributions (NDC) and the Enhanced Transparency Framework (ETF) under the Paris Agreement, and corresponding discussion topics of accessibility of relevant technologies, effective domestic policy framework, and utilization of carbon market mechanisms.

2. Date & Venue

August 27 and 28, 2024, Bangkok, Thailand

The Sukosol Hotel, 477 Thanon Si Ayutthaya, Thanon Phaya Thai, Ratchathewi, Bangkok

3. Organizers

The Ministry of the Environment, Japan, the Asian Development Bank, and the Climate and Clean Air Coalition, and other organizations are welcome to participate as co-organizers

4. Invited Countries

Bangladesh, Brunei, Cambodia, India, Indonesia, Malaysia, Maldives, Mongolia, Philippines, Sri Lanka, Thailand, Viet Nam, Kazakhstan, Kyrgyzstan, Palau, Vanuatu, Dominican Republic, Japan

5. Agenda:

[Day1] Morning

	Time	Contents	Lead
1.	Opening		
	Moderated by Mr. Makoto Kato, IFL/OECC		
	9:00-9:03 (3mins)	Opening speech	- Dr. Hidetomo Miyake, Office of Fluorocarbons Control Policy, Ministry of the Environment, Japan (MOEJ)
	9:03-9:06 (3mins)	Opening speech	- Mr. Anouj Mehta, Country Director, ADB Thailand Resident Mission
	9:06-9:10 (4mins)	Opening speech	- Mr. Sivach Kaewcharoen, Director of the of Climate Change Mitigation Division, Department Climate Change and Environment (DCCE) , Ministry of Natural Resources and Environment(MNRE), Thailand
	9:10-9:20 (10mins)	Introduction to the Group Training 2024: Updating information regarding mainstreaming life cycle refrigerant management (LRM) into the international efforts under the Montreal Protocol and the Paris Agreement.	- Mr. Makoto Kato, Head./Ms. Sayuri Shichijo Initiative on Fluorocarbons Life Cycle Management (IFL) / Overseas Environmental Cooperation Center, Japan
	9:20-9:30	Coffee Break (15 mins) Photo Session	
2. Updating progress of Life Cycle Management of Fluorocarbons: Challenges and Opportunities and Ways Forward			
	Moderated by Makoto Kato, IFL/OECC		
	9:35-9:40 (5mins)	Framing of the session by facilitator	- Mr. Makoto Kato, IFL Secretariat/OECC
2.1	9:40-9:50 (10 mins)	Cambodia	- Mr. Yim Raksmeay, Ministry of Environment, Cambodia
2.2	9:50-10:00 (10 mins)	Malaysia	Ms. Wong, Amy Charlene, Ms. Siti Khairani Binti Abdullah, Department of Environment, Malaysia
2.3	10:00-10:10 (10 mins)	Palau	- Fleetwood, Alzena Ukeloi, Ozone Depleting Substances Coordinator, Palau Environmental Quality

	Time	Contents	Lead
			Protection Board, Palau
2.4	10:10-10:20 (10 mins)	Kazakhstan	- Mr. Nassirkhan, Rustam, Zhasyl Damu JSC, Department of Modeling, Analysis, Forecasting, Kazakhstan,
2.5	10:20-10:30 (10 mins)	Dominican Republic	- Mr. Alvarez, Julio Moises, National Coordinator for CCAC, Dominican Republic
	10:30-10:45 (15mins)	Questions and Answers	-
3. Sharing Progress of Life Cycle Management of Fluorocarbons under ADB project			
Moderated by TBD			
3.1	10:45-10:55 (10mins)	Overview of ADB's Carbon Market Program	- Mr. Virender Kumar Duggal, Principal Climate Change Specialist, ADB
3.2	10:55-11:05 (10 mins)	Introduction of ADB's Technical Assistance on Promoting Life Cycle Management of Fluorocarbons	- Mr. Tatsuya Yanase, Environment and Climate Change Specialist, ADB
3.3	11:05-11:15 (10 mins)	Maldives	- Ms. Miruza Mohamed, Ministry of Climate Change, Environment and Energy - Mr. Abdulla Firag, consultant to TA6730 for Maldives
3.4	11:15-11:25 (10 mins)	Mongolia	- Ms. Dulamsuren Dashdorj , National Ozone Authority - Mr. Zoljargal Jargalsaikhan (TBC), consultant to TA6730 for Mongolia
3.5	11:25-11:35 (10 mins)	Philippines	- Mr. Roland Omar Tamani, Philippine Ozone Desk - Ms. Ella Deocadiz, consultant to TA6730 for Philippines
3.6	11:35-11:45 (10 mins)	Viet Nam	- Dr. Nguyen Ba Chien, Hanoi University of Science and Technology, Viet Nam
	Q &A and Discussion (15min)		
	Lunch Break		

[Day1] Afternoon

4-1 Unpacking on the Report of the TEAP on MOP Decision XXXV/11 regarding the life cycle refrigerant management			
Moderated by Mr. Nathan Borgford-Parnell, CCAC			
4-1	13:30-14:00 (30mins)	TEAP Report I. Decision XXXV/11 II. Technologies for leakage prevention III. Technologies for recovery, recycling, reclamation, and destruction IV. Accessibility of LRM technologies in A5 Parties V. Overview of policies and programmes related to LRM VI. Obstacles and challenges associated with effective leakage prevention, recovery, recycling, reclamation, and destruction of refrigerants VII. Costs associated with LRM VIII. Climate and ozone benefits associated with LRM	- Ms. Hilde Dhont, Co-chair of TEAP task force on decision XXXV/11 (Life-cycle refrigerant management) and a Member of Refrigeration TOC
Q &A and Discussion (15min)			
4-2. Technologies applicable to LRM and promoting diffusion in Asian developing countries			
Moderated by Mr. Nathan Borgford-Parnell, CCAC			
4-2.1	14:15-14:30 (15 mins)	Leakage prevention	- Mr. Kozo Sakaguchi, E & E Solutions - Mr. Shunsuke Nanba, President, NANBA Co. Ltd.
4-2.2	14:30-14:45 (15 mins)	Technologies for reclamation of used refrigerant	- Mr. Akira Mizohara, and Mr. Hirotaka Hata, MZ Co. Ltd.
4-2.3	14:45-15:00 (15 mins)	Destruction technology, combined with hazardous waste	- Mr. Prin Hanthanon, DOWA Ecosystem, E&E Solutions, and Bampoo Environmental Complex (BPEC)
4-2.4	15:00-15:30 (30 mins)	Group Discussion and sharing of discussion results ● Guiding questions (TBC)	-
	15:30-15:45	Coffee Break	
4-3. Domestic policy framework and network of stakeholders to enable LRM			
Moderated by Makoto Kato, IFL/OECC			
4-3.1	15:45-16:10 (25 mins)	Legal framework provided by the Act on Rational Use of Fluorocarbons, Home Appliance	- Mr. Hidetomo Miyake, Deputy Director, Ministry of the Environment, Japan
4-3.2	16:10-16:30 (20 mins)	Tracking flow of transfer of refrigerant	- Mr. Busi Ashish, Founder Director, Genba Next - Mr. Makoto Kato, IFL/OECC- CCAC Cooling

			Hub Co-Lead
4-3.3	16:30-16:45 (15 mins)	Other policy framework/instruments	- TBC
4-3.5	16:45-17:15 (30 min)	General Discussion	-
	17:15-17:30	Wrap up of Day 1	-
	18:00	Reception Dinner	

[Day2] Morning

4.4. Promoting Life Cycle Management of Fluorocarbons by Utilizing Carbon Crediting Mechanism Moderated by TBD			
4-4.0	9:00-9:15 (15mins)	Introduction of Carbon Crediting Mechanism and its potential applicability to finance life cycle management of fluorocarbons	- Mr. Tatsuya Yanase (TBC), ADB
4-4.1	9:15-9:35 (20mins)	Methodologies on F-gas reclamation and destruction ensuring high integrity	- Ms. Sinead Crotty, Carbon Containment Lab
4-4.2	9:35-9:55 (20mins)	Cylinder Management and Cost structure of HFC recovery and destruction projects: Lessons learned from F-gas JCM project	- Ms. Miki Yamanaka, Mr. Fumiaki Yakushiji/ Daikin Industries.
4-4.3	9:55-10:10 (15mins)	JFJCM as a potential finance to promote life cycle management and energy efficiency	- Mr. Tatsuya Yanase, ADB
	10:10-10:25	Coffee Break (15 mins)	-
	10:25-11:15 (50 minutes)	Group Discussion and sharing of discussion results	- Mr. Akihiro Tamai, International expert for TA6730 /OECC
5. Closing			
	11:15-11:20 (5mins)	Closing remarks	- Mr. Nathan Borgford-Parnell, Scientific Advisory Panel and Science Affairs Coordinator, CCAC
	11:20-11:25 (5mins)	Announcement for the field trip	- IFL Secretariat
Lunch Break			

[Day2] Afternoon

	Time (in Thailand)	Contents	Lead
6. [Field Trip] Demonstration of Practice of Fluorocarbons Life Cycle Management, with application of relevant technologies (Participants are invited to take bus tour to the below site of technology.)			
	13:30	Departure from the Sukosol Hotel	- Bus arranged by the organizer
	14:30-15:30	Demonstration of technologies for refrigerant leakage detection at TESCO Lotus (supermarket)	- Demonstration by Nanba Co., Ltd. - Facility explanation by Mr. Kozo Sakaguchi, Senior Environmental Engineer, E&E Solutions Inc
	16:10	Departure from Lotus Bang Kapi	-
	17:00	Back to Sukosol Hotel	-
	Traveling from TESCO Lotus in Bang Kapi to the Sukosol Hotel (expected arrival around 17:00)		
Closure of the Seminar			