

CLIMATE AND CLEAN AIR COALITION (CCAC)

OUR WORK ON COOLING

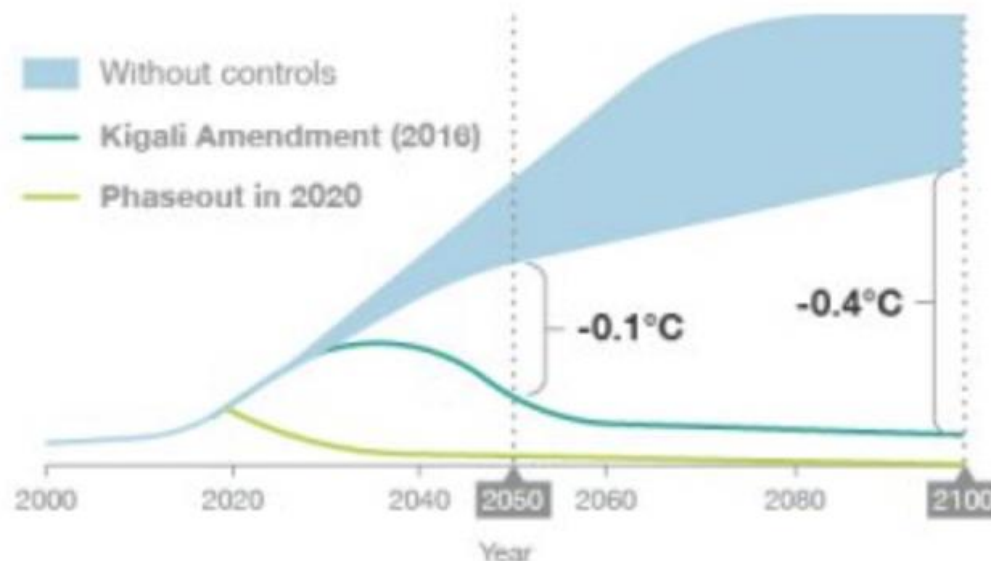
Denise San Valentin
Programme Management Officer
CCAC Secretariat, UNEP

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AVOIDING FUTURE EMISSIONS

HFC emissions will quickly grow without action. Under the Kigali Amendment, countries have committed to reduce the production and use of these gases **by 85% by 2050**.

This would avoid **up to 0.1°C** of warming by 2050 and **up to 0.4°C** by 2100.



ABOUT THE COALITION

- The Climate & Clean Air Coalition is a global, voluntary partnership, convened by UNEP, and dedicated to addressing short-lived climate pollutants
- Network of 400+ governments, IGOs, financial institutions & civil society organisations
 - 80 country partners
 - 81 non-state partners
 - 50% global SLCP mitigation potential within our partnership
 - 75 countries supported by CCAC funding




HOW WE RALLIED SUPPORT FOR THE KIGALI AMENDMENT ON HFCs

SUCCESS STORY

The Coalition has campaigned globally to reduce HFCs since its founding in 2012.

Coalition partners worked together to get an agreement to pass the Kigali Amendment and were among the first to ratify it.

THE CRITICAL ROLE WE PLAYED

- 2012  The Coalition launches HFC-alternative demonstration projects and funds the development of 14 HFC inventories
- 2015  At the Coalition's 7th High Level Assembly, Ministers affirm their support for an amendment of the Montreal Protocol through the Paris Communique
- 2016  Coalition Ministers convene a special session at a critical point in pre-negotiations to clear the way for the agreement in Kigali and call for an ambitious HFC phasedown amendment in the Vienna Communique
- 2016  **October**
The Kigali Amendment is agreed by nearly 200 countries



SUMMARY OF CCAC ENGAGEMENT ON COOLING

- CCAC Focus: early action on activities to support negotiations for an amendment to the Montreal Protocol to control HFCs
- The HFC Initiative (2012-2019) focused on activities to give confidence to decision-makers to support the Amendment: HFC inventories, tech demo projects, tech conferences and case studies, capacity building
- CCAC Efficient Cooling Initiative (2019-2021) supported the Biarritz Pledge for efficient cooling
- Initiative on Fluorocarbons Lifecycle (IFL) in collab with Japan (2021)
- 2021 New CCAC Cooling Strategy launched



COOLING ENGAGEMENT STRATEGY

The Cooling Engagement Strategy aims to maximize the environmental benefits of the HFC phase-down under Kigali Amendment by promoting early and complementary actions on HFCs, supporting strategic actions to minimize HFC emissions throughout the life-cycle of cooling equipment, and by reducing the energy demand associated with new and existing cooling equipment.

Goal 1: GLOBAL AWARENESS By 2025, the CCAC will have significantly raised global awareness of the cooling sector's ability to combat climate change, will have increased ambitious action, and will have mobilized political support for finance to assist developing countries transition towards climate-friendly cooling beyond that of the Multilateral Fund of The Montreal Protocol.

Goal 2: UNIVERSAL RATIFICATION OF KA By 2023, all CCAC partner countries have ratified the Kigali Amendment or have demonstrated intent to ratify and have started the ratification process.

Goal 3: EE AND LRM By 2030, the CCAC will have significantly enhanced the environmental benefits of the Kigali Amendment by reducing HFC and energy-related emissions in the cooling sector.

Goal 4: ACTIVE PRIVATE SECTOR By 2024, all CCAC cooling industry partners provide commitments on how they will support and facilitate a faster phase-down of HFCs and enhance energy efficiency in the sector.

CCAC COOLING HUB

- The Cooling Hub is a **community of practice**: it provides peer-to-peer exchange, allows for technical discussions on best practices, and promotes the latest science and analysis.
- As a unit, the Cooling Hub aims to **raise ambition**, strengthen political will, and inform Ministerial engagement.
- Membership: CCAC partners and non-partners welcome, co-led by countries

CCAC PROJECTS ON COOLING

Project	Status	Budget	Lead Implementer
MENA - Development of National Cooling Action Plans to accelerate climate friendly cooling and HFCs phase-down	Contracting	\$ 1,000,000	UNEP Cool Coalition
Dominican Republic - Promoting sustainable cooling	Implementation	\$ 50,000	UNEP United4Efficiency
Africa - Workshop - Dumping of New Inefficient Cooling Appliances	Complete	\$ 56,000	IGSD
Maldives - Developing a cooling demand assessment	Bidding	\$ 100,000	TBC
Rwanda - Strengthen capacity for sustainable cooling and refrigeration	Bidding	\$ 77,500	TBC
Vietnam – Develop an MRV framework to track Kigali Amendment Commitments	Contracting	\$ 300,000	Overseas Environmental Cooperation Center (OECC)

STOP DUMPING WORKSHOP

- 24-25 August 2023
- At the request of Zimbabwe and Ghana, CCAC supported a workshop on preventing the dumping of new, inefficient cooling appliances with obsolete refrigerants, for 8 African countries
- The aim was to reach a common understanding of the problem, identify data and policy gaps in countries and opportunities for strengthening action



TRANSFORMATIVE PROJECTS

MENA - Development of National Cooling Action Plans to accelerate climate friendly cooling and HFCs phase-down

BUDGET: US\$ 1 MILLION

IMPLEMENTING PARTNERS

- UNEP Cool Coalition
- Le Centre Régional pour les Énergies Renouvelables et l'Efficacité Énergétique

NCAP approach in two countries in the MENA region, & provide a regional methodology to encourage all countries in the region to develop similar plans.

At a minimum, this project will produce the following outcomes:

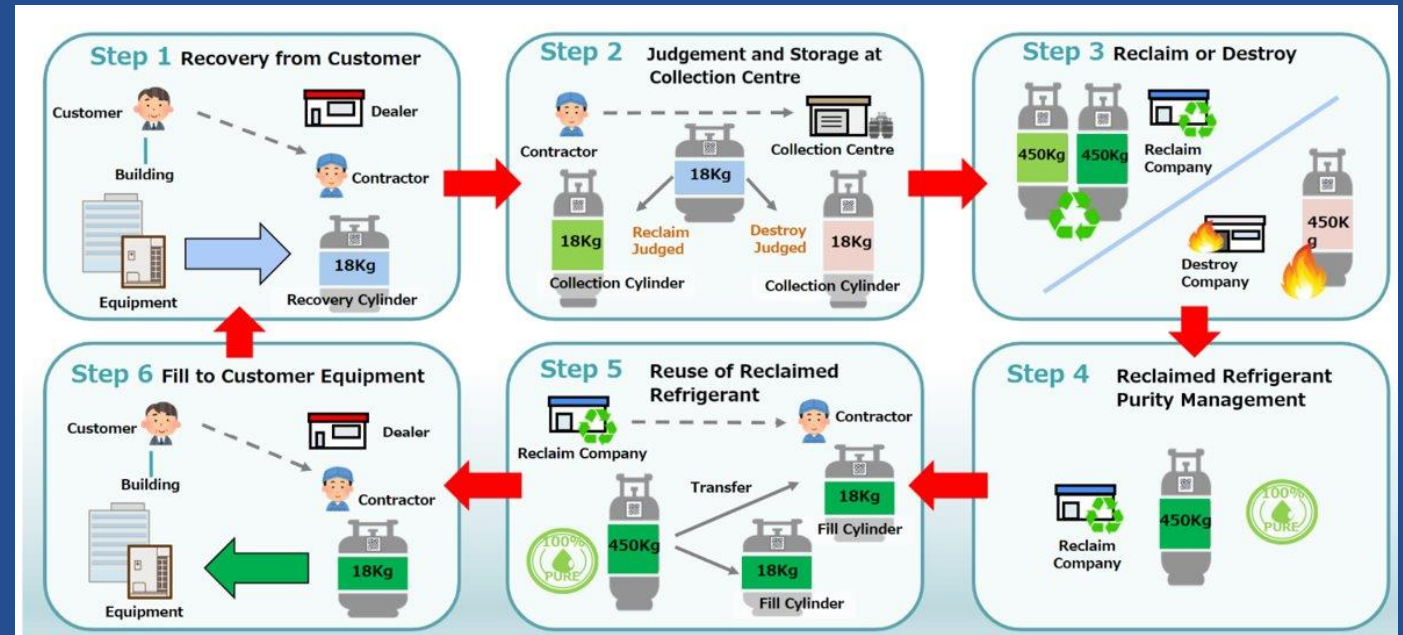
- Increased capacity of MENA countries to develop National Cooling Action Plans (NCAPs)
- Two countries in the MENA region develop and adopt National Cooling Action Plans
- Increased awareness and improved skills to implement NCAPs and develop policies to accelerate the shift to climate-friendly cooling and the phase-down of HFC emissions

VIETNAM - MRV FRAMEWORK AND REFRIGERANT TRACKING SYSTEM

Practitioners' guidelines for refrigerant management procedures, and introducing electronic tracking system

Outputs

- Development of Guidelines on MRV of HFC and HFC tracking
- Model HFC inventory through pilot activities
- Prototype electronic system of HFC tracking system

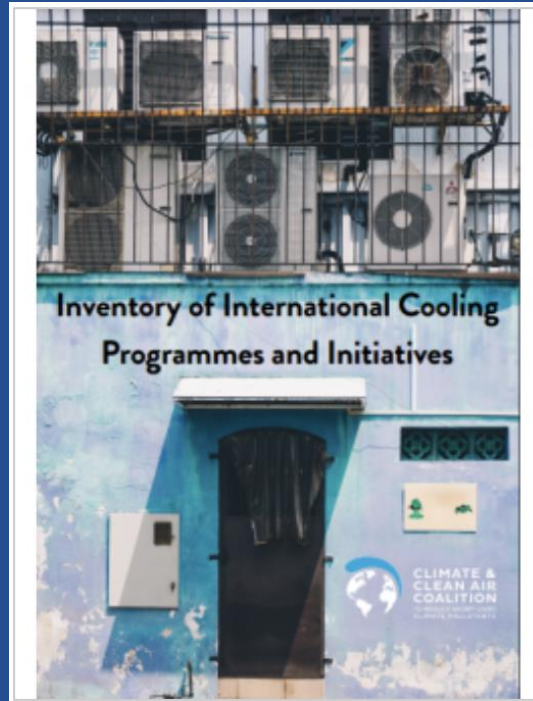
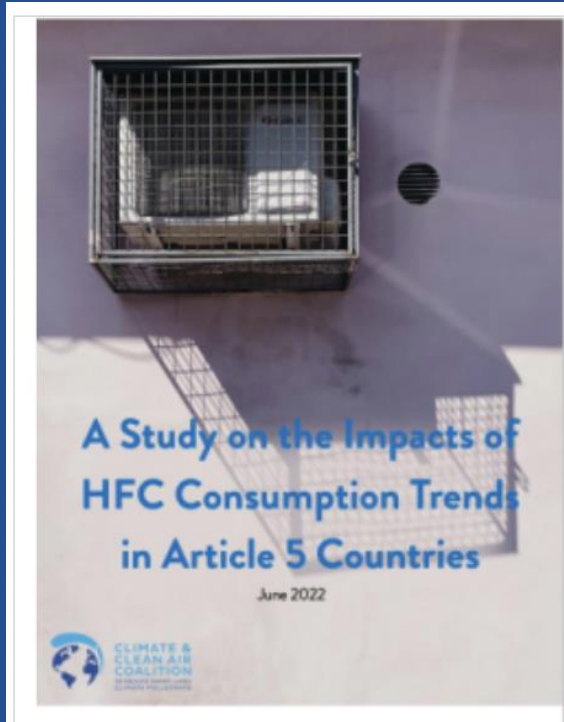


UPCOMING ACTIVITIES

- New transformative project to be announced in January 2024
- In person workshop in 2024 (details to be announced)
- Country-driven projects and activities

NOTE: At any time of the year CCAC country partners can request for short-term expert assistance to support activities on SLCP mitigation

OTHER RECENT COOLING HUB RESOURCES



THANK YOU

For more info and to join the
CCAC Cooling Hub:

secretariat@ccacoalition.org;
denise.sanvalentin@un.org



Jumbo Supermarket in 2017 – first of many to
install transcritical CO2 refrigeration system
through a CCAC tech demo project with UNDP