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COPA COMPENDIUM 2025

RESOURCES, TOOLS AND PUBLICATIONS

Solutions for Sustainable Refrigerant Management

Climate and Ozone Protection Alliance (COPA)

July 2025



Implemented by:



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"WITH CHALLENGING TIMES ALL AROUND THE WORLD, IT IS GREAT TO SEE PEOPLE FROM SO MANY COUNTRIES WORKING TOGETHER TO PROVIDE SOLUTIONS FOR URGENT CLIMATE CHANGE AND OZONE PROTECTION CHALLENGES."

Rachel Pekker, German Federal Ministry for Economic Affairs and Energy (BMWE), COPA Plenary, 2nd July 2025

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EDITORIAL

Demand for cooling and air conditioning units is consistently rising globally; the installed capacity of cooling equipment globally is forecasted to almost triple between now and 2050. It is a vicious cycle, feeding on global climate change. When cooling devices are not operated, maintained and disposed of in an environmentally friendly way, the **ozone-depleting** substances (ODS) and **climate-damaging** hydrofluorocarbons (HFCs) trapped in the systems are released freely into the atmosphere.

At the same time, cooling plays a vital role in safeguarding quality of life and play a key role in the health, production and education sectors. It is a necessity we cannot do without.

COPA, the **Climate and Ozone Protection Alliance**, was initiated by the German Federal Ministry of Economic Affairs and Climate Action in 2021, to pave the way for an enhanced environmental stewardship of ODS and HFCs. By bringing attention to the need of proper management and disposal of gases and foams in old cooling appliances, COPA pointed a light at the challenge from the start. Today, only four years later, COPA is a global member-driven coalition, enabling organisations and countries to work together to accelerate the needed shift to sustainable refrigerant management.


The COPA compendium 2025 is the results of the collective efforts of COPA members and experts during the first years of the alliance. **We invite you to embrace the knowledge, experiences, and tools developed.**


Let us know what you think. Better yet, share your own experiences and ideas with likeminded. Expand both your network and knowledge and contribute to a global shift to sustainable refrigerant management in the cooling sector.


HOW THIS DOCUMENT WORKS




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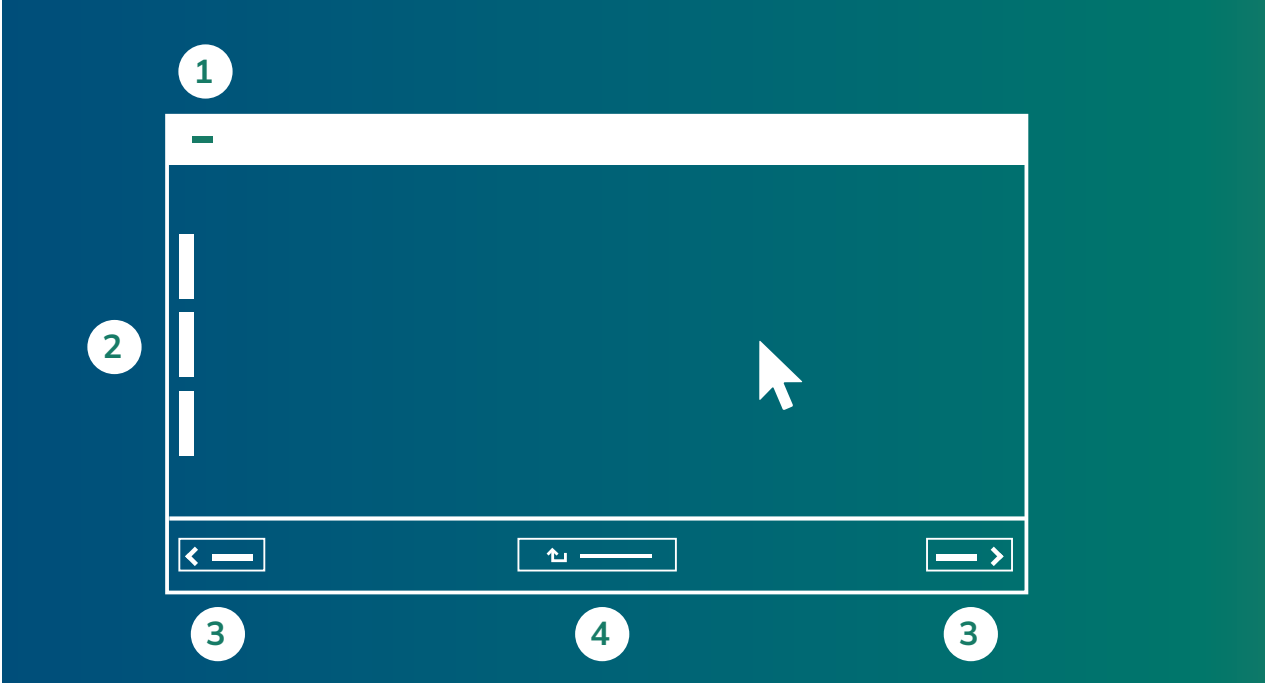
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1.) **CONTENT:** This link takes you to the table of content page that shows all modules and superordinate topics at a glance. You can jump directly to a module by clicking on it.

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PUTTING SPOTLIGHT ON SUSTAINABLE REFRIGERANT MANAGEMENT

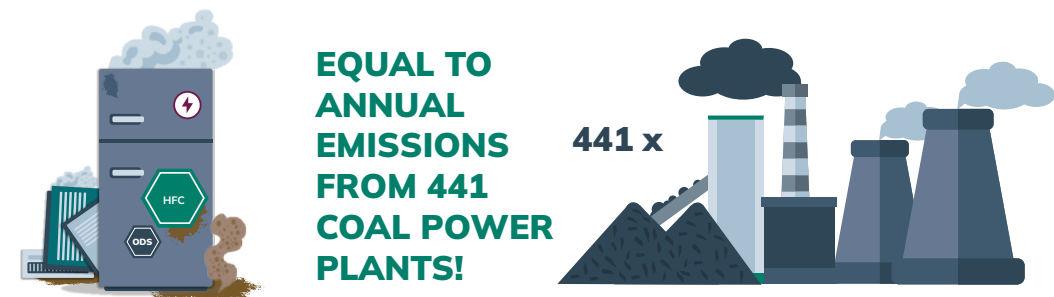


1.1. THE PROBLEM - ODS & HFC BANKS

Demand for cooling and air conditioning units is rising sharply. The excessive use of ozone-depleting substances (ODS) and climate-damaging hydrofluorocarbons (HFCs) has led to the accumulation of large ODS and HFC banks globally. When old cooling devices are not maintained and disposed of in an environmentally friendly way, the legacy ODS and HFC banks' release emissions freely into the atmosphere.

Each year, approximately 1.5 Gt CO₂-eq are released from improperly managed or disposed refrigerants. This corresponds to the annual greenhouse gas emissions of 441 coal-fired power plants. Consequently, the proper disposal of gases and foams in old cooling appliances offers enormous potential for climate action

[🌐 Click here for more information on the problem of ODS/ HFC banks and global emission](#)



1.2. THE SOLUTION – SUSTAINABLE REFRIGERANT MANAGEMENT

Climate-damaging emissions from ODS and HFC banks can be reduced through sustainable refrigerant management. This starts with the proper maintenance of cooling appliances in the first place to avoid leakages during operation. Refrigerants contained in end-of-life cooling appliances need to be properly **recovered**. Then they can either be **recycled**, **reclaimed** or **destroyed**, all practices require skilled workforce and special machinery.

However, often a lack of appropriate regulatory frameworks, financial means and infrastructure create challenges to implementing the required processes. A holistic approach considering all the challenges is needed.

In this context, COPA identified **four core processes** considered necessary to enable an efficient and sustainable ODS and HFC bank management:

COPAs four core processes for a sustainable ODS and HFC bank management include:

- Suitable **policy measures**
 - ⊕ [Click here for Potential Policy framework for the promotion of sustainable ODS/HFC banks management](#)
- A sustainable **financing mechanism**
 - ⊕ [Click here for COPA Financing and Fundraising Mechanism: A Review and Concept](#)
- An effective **collection mechanism**
 - ⊕ [Click here for Guideline to establish a collection system for equipment containing ODS](#)
- A functioning **reclamation and destruction infrastructure**
 - ⊕ [Click here for a review of ODS/HFC Reclamation and Destruction Technologies](#)

Important accompanying activities include:

- Compilation of an **ODS bank inventory**
 - ⊕ [Click here for Guideline to conduct an inventory of used or unwanted controlled substances: ODS and HFC banks \(2023\)](#)
- **Destruction of ODS/HFC in cement kilns**
 - ⊕ [Click here for a technical protocol and guidelines](#)
- **Capacity building of technicians**, e.g. for recovery and recycling purposes
 - ⊕ [Click here for a Report on Refrigerant Recycling in China's Automotive Maintenance Industry](#)

THE CLIMATE AND OZONE PROTECTION ALLIANCE



CHAPTER 1

CHAPTER 2

CHAPTER 3

2.1. ABOUT US

The **Climate and Ozone Protection Alliance (COPA)** aims to drive the holistic solutions needed to reduce ODS and HFC banks, and ultimately complete the shift in the cooling sector to sustainable refrigerant management. COPA was launched in 2021, initiated by the German Federal Ministry of Economic Affairs and Climate Action.

Today, 2025, COPA has grown into a member-driven coalition of organisations and countries representing both private and public sectors. Together, we are working to advance and share holistic solutions on how to sustainably manage and reduce ODS and HFC banks globally.

2.2 VISION & MISSION



OUR VISION

A global shift to sustainable refrigerant management
Closing the loop to a circular economy in the cooling sector



OUR MISSION

The Climate and Ozone Protection Alliance puts spotlight on a blind spot in the fight against climate change – super-pollutant refrigerant emissions from old and existing cooling equipment through their lifecycle.

Together with partner countries and diverse actors, the alliance accelerates the mitigation measures urgently needed to address banks of Ozone Depleting Substances and Hydrofluorocarbons.

It devises and carries out holistic solutions that combine financing, policy making and expertise in recovery, reclamation and destruction technologies with hands-on experience in the cooling sector.

2.3 HOW WE WORK

COPA works jointly with partner countries and diverse actors across private and public sectors to advance the holistic solutions needed to reduce ODS and HFC banks, and ultimately complete the shift in the cooling sector to sustainable refrigerant management. [Click here for more information on COPA](#)

WE RAISE GLOBAL AWARENESS

on the topic of ODS and HFC banks

LEARN MORE

WE BRING TOGETHER

all relevant actors – from private and public sectors

LEARN MORE



WE ADVANCE HOLISTIC SOLUTIONS

to reduce ODS and HFC banks

LEARN MORE

WE PROMOTE A GLOBAL SHIFT

to sustainable refrigerant management

LEARN MORE

With our work COPA contributes to the Sustainable Development Goals and to the Paris Agreement. Find more information by clicking on the logos



COPA ACTIVITIES

3



CHAPTER 1

CHAPTER 2

CHAPTER 3

To follow our vision and accelerate a global shift to sustainable refrigerant management and closing the loop to a circular economy in the cooling sector, COPA members engage in various activities.

- Brings together and networks all relevant actors – from both private and public sectors.
- Raises awareness on the topic of ODS and HFC banks through global dialogue and exchange.
- Prepares market studies and concepts for the pilot implementation of mitigation measures in diverse regions.
- Shares technical know-how and findings to promote mutual learning and progress in sustainable refrigerant management.
- Helps drive governmental policies and regulations for an effective management of ODS and HFC banks.
- Provides the responsible parties – both private and public – with tailored guidelines, tools, and mitigation solutions to reduce emissions from ODS and HFC banks.
- Gives partners access to the funding and support needed to enact mitigation measures, whether reuse, reclamation, or destruction mechanisms.

🌐 [Click here for more information on COPA Activities & Services](#)

3.1 FOCUS ON FOUR TOPICS



Policy Framework

[LEARN MORE](#)

Technology Solutions

[LEARN MORE](#)

Financing Mechanism

[LEARN MORE](#)

Implementation Models

[LEARN MORE](#)

Alliance members across private and public sectors come together in thematic working groups (TWG) to jointly work on holistic solutions needed to reduce ODS and HFC banks, but also to share knowledge and exchange with each other. COPA thematic working groups are dedicated to specific topics:

🌐 [Click here for more information on the TWGs](#)

🌐 [Click here for more information about the focus on four topics](#)

3.2. POLICY FRAMEWORK

While the international community has agreed to regulate the production and consumption of ODS by the Montreal Protocol (1987) and to phase-down HFCs with its Kigali Amendment (2016), no agreements have been made regarding the destruction of the ODS and HFCs already produced.

A comprehensive set of policies, both on international and national level, can promote sustainable ODS/HFC banks management and contribute to cutting emissions.

A clear policy framework can help overcome and remove barriers through concerted action, sets boundaries and provides a clear indication of preferred behaviour for stakeholders. COPA has been jointly working on identifying and developing policy interventions suitable for GHG mitigation measures in the ODS and HFC banks sector.

[!\[\]\(339a16584d5da0f0a3ca4e9ec17bf6a1_img.jpg\) Click here for more information on Policy Framework](#)



3.2.1 Our Policy Activities

COPA has been jointly working on identifying and developing policy interventions suitable for GHG mitigation measures in the ODS and HFC banks sector. Please look through the following exemplary activities – and get inspired for more.



Exchange: Thematic Working Group Policy Framework

The purpose of the TWG Policy is to bring together interested COPA Members, supported by invited external experts and consultants, to jointly work on identifying and developing policy interventions suitable for GHG mitigation measures in the ODS and HFC banks sector.

[READ MORE](#)


Breaking Barriers: Empowering Women in the Cooling Sector

Women are underrepresented in the refrigeration and air conditioning sector, with participation ranging from 8-30% in different regions. Being committed to promote gender equality in end-of-life-management of refrigerants, COPA organized two awareness raising workshops in August 2024 for its members.

[READ MORE](#)


Promoting Sustainable Practices in the RAC Sector through EPR in Pakistan

The workshop "Promoting Sustainable Management Practices in the Refrigeration and Air Conditioning (RAC) Sector through Extended Producer Responsibility (EPR)" aimed to promote sustainable waste management in the RAC sector by introducing EPR concepts and addressing key challenges in managing RAC waste, particularly refrigerants and hazardous materials.

[READ MORE](#)


Networking: Study Tour to EU

Networking, deepening the knowledge, and getting some practical insights – that's what the COPA study trip to the EU in November 2023 was about.

[READ MORE](#)



Awareness raising: Side events and workshops at high level conferences

COPA Members have been busy putting spotlight as speakers on sustainable refrigerant management at high level conferences, such as the 36th Meeting of the Parties to the Montreal Protocol (MOP36).

[READ MORE](#)


COPA Webinar on the potential policy framework for promoting sustainable ODS/HFC bank management

In a webinar COPA introduced the newly published study, "Potential Policy Framework for the Promotion of Sustainable ODS/HFC Banks Management". The speaker Irene Papst from HEAT GmbH explored the results of the study.

[READ MORE](#)


LRM Workshop supported by COPA

Expanded Lifecycle Refrigerant Management (LRM) is one of the focus areas of the CCAC Cooling Hub. In July 2025, the Climate and Clean Air Coalition (CCAC) continued to explore LRM in a workshop for Article 5 representants aligned to the OEWG-47, supported by COPA and others. To deepen understanding on the key elements of the national plans for management of ODS and HFCs, COPA provided presentations on global banks estimates, technologies for destruction and Public-Private-Partnership as financing mechanism for WEEE recycling facilities.

[READ MORE](#)


COPA Guidance on ODS and HFC bank inventories (LRM)

Expanded Lifecycle Refrigerant Management (LRM) is needed to minimize refrigerant leaks and maximize end-of-life recovery, reclamation, and destruction, as a crucial contribution to achieving net zero emission. In July 2024, the Climate and Clean Air Coalition (CCAC) with COPA as co-host, organised a LRM workshop on the margins of the OEWG-46. Focus was on practical guidance on how to conduct ODS and HFC bank inventories and action plans.

[READ MORE](#)

3.2.2 Our Results and Resources

COPA has produced various publications identifying and developing suitable policy frameworks for sustainable refrigerant management and GHG mitigation measures. This is your chance for a deep dive!



Potential Policy Framework for the Promotion of Sustainable ODS/HFC Banks Management

This study published by COPA and implemented by HEAT GmbH highlights the need for coordinated global action to address short-lived ozone-depleting substances (ODS) and hydrofluorocarbons (HFCs), estimating significant emissions from these substances, and emphasizes that strong national policy frameworks can help manage these emissions, contributing to climate targets and ozone layer recovery.

[READ MORE](#)
[WEBINAR](#)


Global Roadmap on ODS bank management. Management and destruction of existing ozone depleting substances banks

This global roadmap provides information on key processes in this sector and gives guidance to policy-makers, e.g. national ozone officers and policy-makers from the waste sector, on developing strategies for successful management of ozone depleting substances (ODS) banks.

[READ MORE](#)
[READ MORE \(ES\)](#)


Guideline on policy measures for the management and destruction of ozone depleting substances. Management and destruction of existing ozone depleting substances banks

This guideline presents a range of measures (regulatory, fiscal and non-regulatory measures) that can prevent the accumulation of and emissions from ODS banks. The guideline also shows a way to choose the appropriate option or a bundle of possible options tailored to conditions within the country and depending on the targeted sector or government objective.

[READ MORE](#)


Guideline for the transboundary movement of ODS waste. Management and destruction of existing ozone depleting substances banks

This guideline was developed for National Ozone Units (NOUs) considering the export of ODS for destruction as part of their ODS management. It links the topics of the Montreal Protocol on Substances that Deplete the Ozone Layer with the Basel Convention and provides practical information on how to conduct transboundary movements (TBMs) of ODS waste.

[READ MORE](#)

3.3 TECHNOLOGY SOLUTIONS

Sustainable refrigerant management starts with the proper maintenance of cooling appliances. By avoiding leakages while assuring efficiency during operation, the amounts of emissions from ODS and HFC banks can be considerable reduced or even avoided.

After the operational lifetime, the refrigerants contained in end-of-life cooling appliances need to be properly managed - not emitted. The substance can either be recycled, reclaimed or destroyed, and these practices require skilled workforce and special machinery.

[!\[\]\(0f848bbd71cef6b345273b16f905912a_img.jpg\) Click here for more information on Technology Solutions](#)

3.3.1 Our Technology Activities

COPA has jointly been working on giving guidance, strengthening capacity and promoting dialogue on technology solutions for ODS and HFC recovery, reclamation, and destruction. Please look through the following exemplary activities – and get inspired for more.



Thematic Working Group Technology Solutions

The thematic working group (TWG) on technology solutions is a platform for sector experts and various stakeholders to exchange on ODS and HFC recovery, reclamation and destruction technologies.

[READ MORE](#)



Refrigerant Recovery Trainings for Technicians

COPA conducted several trainings for refrigeration technicians on the recovery of refrigerants and environmental preservation through responsible practices, for example in

Sierra Leone [READ MORE](#)

Gambia [READ MORE](#)



First Meeting of Women in Refrigeration and Air Conditioning in Mexico

COPA held the first workshop for women in the refrigeration, air conditioning and heat pump (RACHP) sector in Mérida, Mexico. The workshop aimed to provide a space to promote the participation of women in the RACHP sector by developing role models of women leaders in the sector and encouraging the participants to promote the participation of other women.

[READ MORE](#)



Virtual Study Tour

Exploring global best practices: A virtual study tour took COPA members to facilities of companies from around the world, sharing their strategies for effectively managing of ODS and HFC banks.

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Regener Chile – Refrigerant Gas Regeneration

VIEW VIDEO ▶



Harson China – Recovering refrigerants in mobile air conditioning systems

VIEW VIDEO ▶



UNACEM Ecuador – Destruction of ODS in a cement kiln

VIEW VIDEO ▶



Aohong China – Refrigerant reclamation

VIEW VIDEO ▶



COPA Webinar on ODS/HFC Reclamation and destruction technologies

In the webinar “ODS/HFC Reclamation and destruction technologies and a review for Articles 5 countries” COPA introduced a new publication. The speaker Manuel Prieto Garcia from HEAT GmbH provided the participants with insights into the recently published COPA study.

[READ MORE](#)



Capacity Building: management of end-of-life refrigerants

In 2024, COPA conducted practical trainings for technical and environmental handling and end-of-life management of refrigerants in three African COPA member countries: Sierra Leone, Namibia, and Lesotho. The focus of these capacity building activities was the promotion and implementation of good refrigeration practices related to servicing, installation and disposal of refrigeration and air-conditioning equipment.

[READ MORE](#)



Study Tour on Lifecycle Refrigerant Management in Chile

Chile shared the national progress on reclamation of refrigerants and the preparation of greenhouse gas inventories and explained the relevant Chilean regulatory framework for effective refrigerant management. The Study Tour also included a visit to the professional training institute INACAP and a tour of Regener Chile's facilities, a plant dedicated to the reclamation of refrigerants known for its economic and operational sustainability. A video documenting the Tour is now available online.

[READ MORE](#)

3.3.2 Our Results and Resources

COPA has produced various publications identifying and developing technology solutions for sustainable refrigerant management and GHG mitigation measures. This is your chance for a deep dive!



Destruction of ODS/HFC in cement kilns

This guide provides the principal elements and considerations for implementing a Burning Protocol for the Destruction of ODS and HFC, starting from the identification of ODS Banks coming from obsolete or damaged refrigeration and air conditioning (RAC) equipment to the refrigerant gas collection, transporting, and safe destruction in cement kilns.

[READ MORE](#)
[READ MORE \(ES\)](#)


ODS/HFC Reclamation and Destruction Technologies

This report summarizes information on the conditions, challenges, available technologies, and current state of ODS/HFC reclamation and destruction practices in Article 5 countries.

[VIEW PRESENTATION](#)
[READ MORE](#)


Demonstration Report on Refrigerant Recycling in China's Automotive Maintenance Industry

In Guangzhou in southern China, the Climate and Ozone Protection Alliance (COPA) conducted a pilot activity to estimate the HFC emission reduction potential from standardized recycling processes in the automotive repair industry. This report presents the results and activities from this pilot.

[VIEW PRESENTATION](#)
[READ MORE](#)


Guideline to Conduct an Inventory of Use or Unwanted Controlled Substances: ODS and HFC Banks

This guideline is intended for inventory compilers involved in quantifying the amount of ODS and HFC banks in their country and, based on this, quantifying the mitigation potential. This guideline was updated to reflect all requirements stated by the decision of the Executive Committee to the Multilateral Fund 91/66 on the provision of a funding window for establishing an inventory of controlled substances and a plan for their treatment.

[READ MORE](#)

3.4 FINANCE MECHANISMS

The Climate and Ozone Protection Alliance has successfully put a spotlight on the global need for ODS and HFC bank management for a sustainable future. However, light alone is not enough to tackle this challenge, adequate financing must be secured, too.

COPA work has centred on accessing finance for cooling mitigation projects involving ODS and HFC emission reductions. Capacity enhancement and knowledge products tailored to these specific technical circumstances have been examined, discussed and shared with the members in online and in-person sessions and publications.

A common challenge for project developer in the climate finance sphere is that the business part of the concept is not mature enough to successfully apply for available financing. Simply put, the project or business ideas are not “ready for finance” and need development support to accessing available climate finance opportunities.

🌐 [Click here for more information on Financing Mechanisms](#)



3.4.1 Our Financing Activities

COPA has taken a closer look at the opportunities and barriers for accessing finance for cooling mitigation projects involving ODS and HFC emission reductions, with a special focus on financing streams available through carbon markets and participation in Paris agreement Article 6 activities. Please look through the following exemplary activities – and get inspired for more.



Thematic Working Group

The purpose of the Thematic Working Group for Financing Mechanisms (TWG FM) is to bring together interested COPA Members, supported by invited external experts and consultants, to jointly work on identifying and developing financial mechanisms suitable for GHG mitigation measures in the ODS and HFC banks sector.

[READ MORE](#)



OPA goes Carbon Markets - new article in Carbon Mechanism Review

Discover how COPA is paving the way for smoother entry into carbon markets while tackling obstacles head-on in our new article published in the Carbon Mechanism Review.

[READ MORE](#)



COPA 101 Series – Fundamentals of Financing Mechanisms

The COPA 101-Series explain the fundamentals of Financing Mechanisms and is hosted by the TWG Financing Mechanisms, moderated by TWG FM Chair Louis Potok.

[VIEW RECORDING](#)

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Get ready for finance - Financing for project development

Securing financing for implementing these ideas, e.g. from international donors or climate finance, is not easy. Why is that? In an online-session on 14th August 2024, Tobias Hunzai, senior sustainable finance expert, shared insights on what project developers can do to make their project and business ideas more “ready” to access financing.

[READ MORE](#)



Eligibility of ODS/HFC destruction or reclamation projects under Article 6 of the Paris Agreement

Thinking about participating in Article 6 with your project but don't know if you can? COPA got the answer. In an online session on 5th of September 2024, Ayse Frey & Jorge Lujan from Energy Changes presented the results from their study about the Eligibility of ODS/HFC destruction or reclamation projects under Article 6 of the Paris Agreement.

[READ MORE](#)


COPA Webinar on Financing Refrigerant Management – including Article 6 of the Paris Agreement

In the webinar “Financing Refrigerant Management – including Article 6 of the Paris Agreement” COPA introduced a new publication. The speakers Tilden Chao and Charlie Mayhew from Yale Carbon Containment Lab provided the participants with options to finance lifecycle refrigerant management.

[READ MORE](#)


Training for public-private partnership (PPP) for the RAC sector in Togo

COPA implemented a training workshop for the Ministry of Environment and the NOU in Togo on specific requirements for a public-private partnership (PPP) solution in the Refrigeration and Air Conditioning (RAC) sectors. The training successfully provided the participants with information and guidelines on how to initiate a PPP, detailing for example, what legal and financial information that is required in Togo for the management and disposal of electronic waste through WEEE recycling facilities in the context of the Froid Vert Togo (FVT) project.

[READ MORE](#)


TWG Session on Beyond Value Chain Mitigation (BVCM)

Within the COPA Thematic Working Group for Financing Mechanisms, the vice-chair Adrian Bukmanis organized a learning session and expert exchange on the concept of BVCM (beyond value chain mitigation). Download or view pdf-files of the presentations by Adrian and the invited expert here:

- 🌐 [Introduction and Fundamentals](#) by TWG FM Vice-chair Adrian Bukmanis
- 🌐 [Beyond Value Chain Mitigation](#) by Juliette de Granpré, New Climate Institute

[SESSION RECORDING](#)

3.4.2 Our Results and Resources

COPA has produced various publications identifying and developing financing mechanisms for sustainable refrigerant management and GHG mitigation measures. This is your chance for a deep dive!



Guide: Get ready with me (GRWM) for Paris Agreement Article 6 in 5 steps”

“Get ready with me (GRWM) for Paris Agreement Article 6 in 5 steps” is a guide especially for policymakers, e.g., such as National Ozon Offices (NOO) implementing the Montreal Protocol (MP) and detail the initial steps to take for becoming “ready for Article 6 “participation for non-CO₂ mitigation activities. The guide complements the COPA online course on Atingi (mentioned above), providing a practical step-by-step approach of activities to work through in daily work.

[READ MORE](#)



COPA Financing and Fundraising Mechanism: A Review and Concept

This study is a contribution to the development of a financing mechanism (FM) for the sustainable refrigerant management of ODS/HFC banks in current and future COPA partner countries which seeks to accelerate the mitigation measures needed to address these amounts.

[VIEW PRESENTATION](#)

[READ MORE](#)



Using carbon markets to reduce emissions from end-of-life refrigerants and foam blowing agents

This report was commissioned by UNDP's Montreal Protocol and Chemicals and Waste Unit, within the framework of the "UNDP participation as a partner in the GIZ led initiative "Climate and Ozon Protection Alliance for HFC and ODS Banks Managements (COPA)".

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COPA online course "Cool Carbon Solutions"

The free course is available on the Atingi Platform in English, French and Spanish. Developed by COPA member, Energy Changes, together with Kommunal Kredit Public Consulting, the course combines technical insights on Article 6 participation and voluntary carbon markets with practical tools for implementing refrigerant-related projects. Participants who complete the course will receive a certificate. Links to registration and the Atingi-instruction video is available on the COPA website.

[READ MORE](#)

3.5 IMPLEMENTATION MODELS

COPA has played a pivotal role in raising awareness of the global need to address the management of ODS and HFC banks. A sustainable future requires more than just attention – it demands action, coordination, and the right implementation models.

[!\[\]\(666e09182d4cd268646ea700ea60dcdf_img.jpg\) Click here for more information on Implementation Models](#)



3.5.1 Our Implementation Models Activities

COPA has been proactively advancing the development and implementation of innovative projects aimed at reducing ODS and HFC emissions through its Implementation Models framework. A cornerstone of this effort is the Call for Ideas, which invites COPA members to propose scalable, high-impact solutions that address the management of ODS and HFC banks. This initiative seeks to identify and support projects that combine environmental benefits with economic viability. Click through the following exemplary activities – and get inspired for more. [Click here for more information on Implementation Models](#)



Thematic Working Group

In this working group we want to put theory into practice and jointly demonstrate how sustainable refrigerant management can be implemented. We suggest focusing on specific mitigation measures planned or already in implementation and to exchange on experiences, challenges, and successes. The topics will be decided by the members of the TWG themselves

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ODS and HFC Incineration in Ghana

The rotary kiln installed and operated by COPA Member ZEAL environmental technologies (ZETL) in Ghana has been identified to be suitable for the destruction of ODS gases and disposal of hazardous e-waste fractions. COPA support the proper operation of the plant through training of the employees to prepare them for the pilot incineration. COPA further supported the identification and procurement process of required equipment, such as a dosing station for proper submission of gas into the incinerator and a monitoring system for process control and emission monitoring complying with national legislation and international standards.

[READ MORE](#)


Eligibility of ODS/HFC projects under Article 6 of the Paris Agreement.

The COPA Members Energy Changes presented their study about the Eligibility of ODS/HFC destruction or reclamation projects under Article 6 of the Paris Agreement. After providing a picture of where the world stands today about ODS/HFC gases management, including the technical challenges and the integrity of such projects, the presenters took a closer look at the potential of leveraging carbon finance to tackle ODS & HFC emissions, either through Article 6 of the Paris Agreement or through the voluntary carbon market. Both the session recording and presentation slides can be accessed through the COPA Website.

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IMPRINT

Published by

Deutsche Gesellschaft für
Internationale Zusammenarbeit (GIZ) GmbH

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Design

creative republic || Thomas Maxeiner Communications
Frankfurt a. M. / Germany

On behalf of

The German Federal Ministry for Economic Affairs
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July 2025



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