



MOP34

Shedding light on a blind spot through the Climate and Ozone Protection Alliance: leveraging the vast emissions reduction potential of correct disposal of ODS and HFC banks

2 November 2022, Montreal

AGENDA

Welcoming Remarks	Ajiniyaz Reimov, UNDP
The Climate and Ozone Protection Alliance	Ellen Michel, GIZ Proklima, Head of COPA Secretariat
COPA activities in Ghana and the general need for ODS and HFC banks management	Philipp Denzinger, GIZ Proklima
Solutions for ODS and HFC banks management	Maria José Gutierrez, Tradewater
Q&A	All
Conclusion and closing remarks	Ole Nielsen, UNIDO

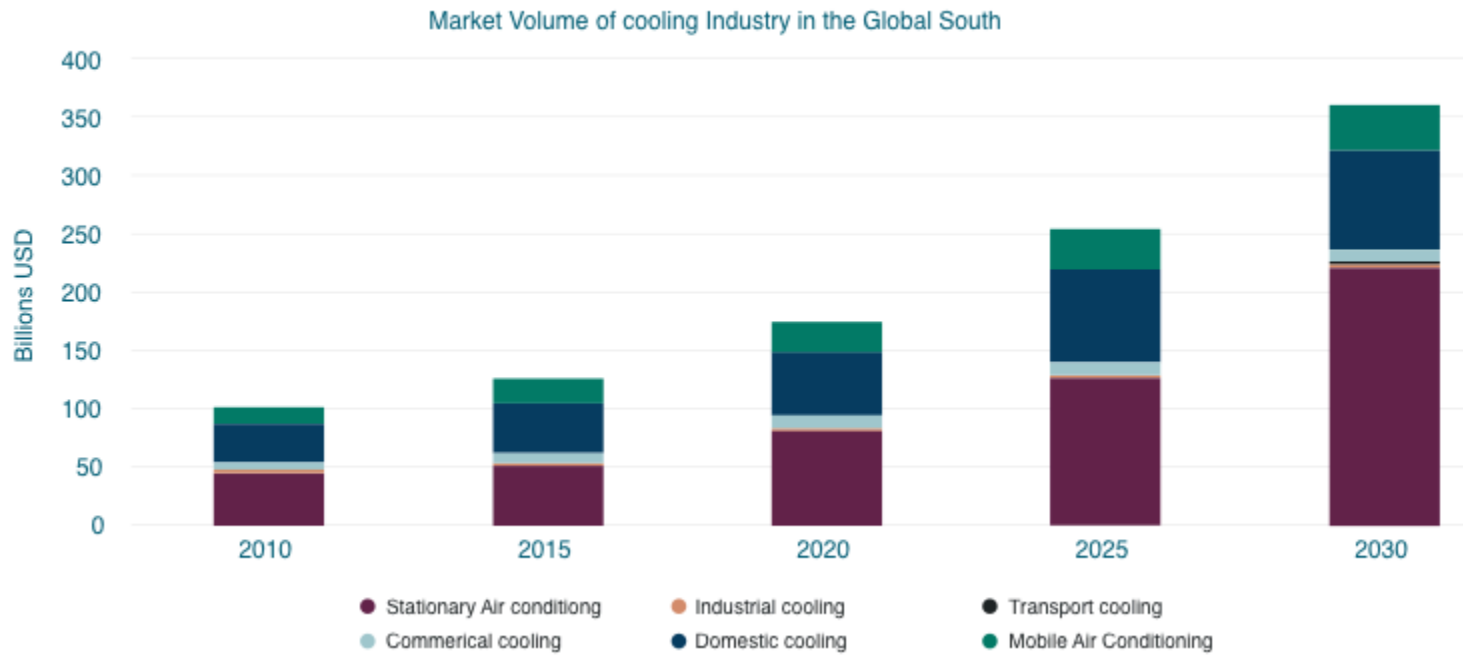


1. Welcome Remarks Ajiniyaz Reimov – UNDP



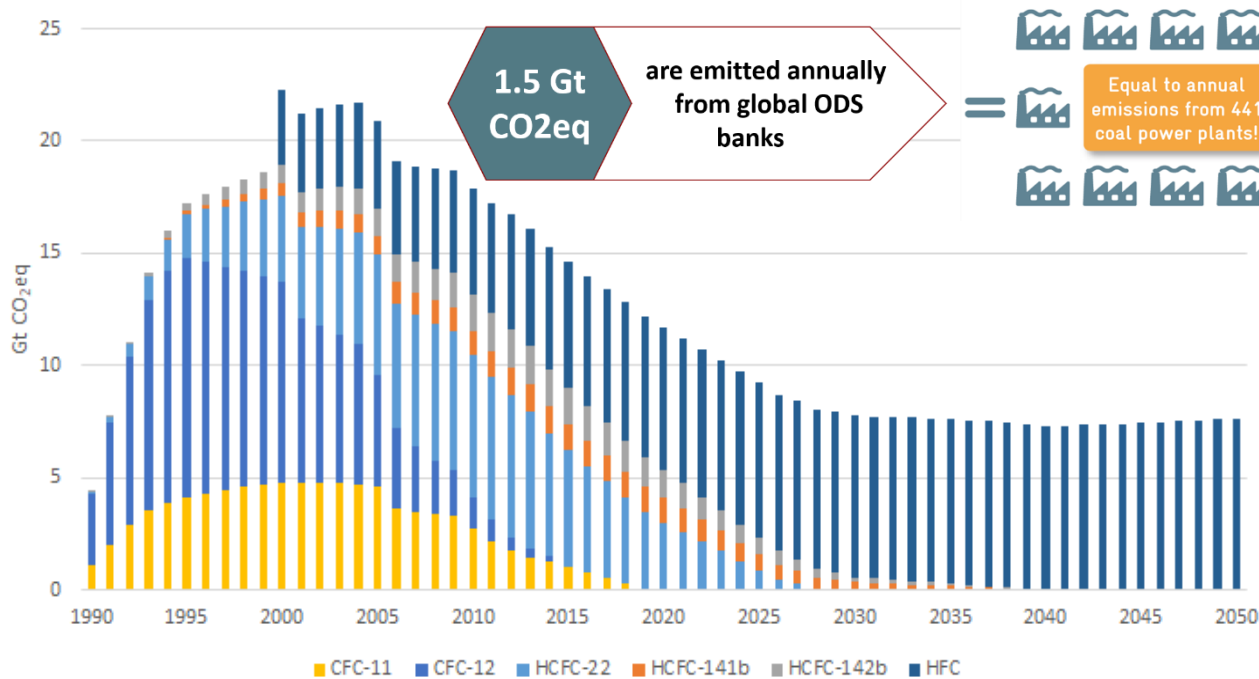
2. The Climate and Ozone Protection Alliance Ellen Michel, GIZ

THE CHALLENGE



Source: own research, HEAT GmbH

GHG EMISSIONS FROM GLOBAL ODS AND HFC BANKS



2016
8.2 Gt CO₂eq ODS
5.8 Gt CO₂eq HFC



2021
4.7 Gt CO₂eq ODS
6.5 Gt CO₂eq HFC

Source: GIZ – Global banks of ozone depleting substances (2018)

THE GAP



- Due to a general lack of appropriate political and regulatory frameworks as well as infrastructure, the collection, recycling and destruction of waste containing ODS and HFC presents a major challenge.
- Neither the Montreal Protocol nor any other international environmental convention regulates the management and destruction of existing ODS banks.

Policy
Framework

Financing
Mechanism

Collection
Infrastructure

Recycling
and
Destruction
Infrastructure

INTRODUCTION

Approach

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.

Implemented by:



In cooperation with:

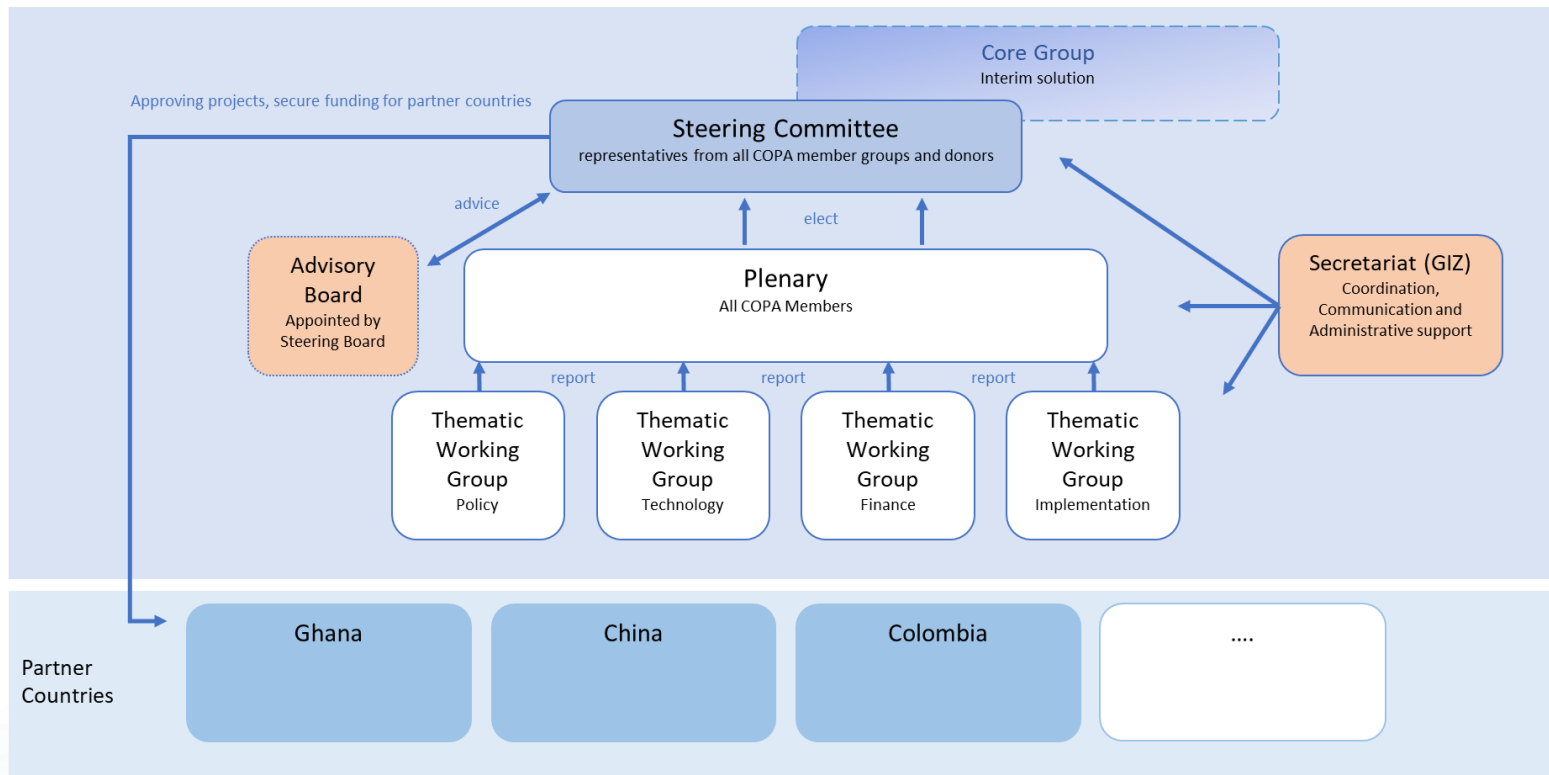


Supported by:



on the basis of a decision
by the German Bundestag

COPA GOVERNANCE STRUCTURE



IMPACT THROUGH ACTION

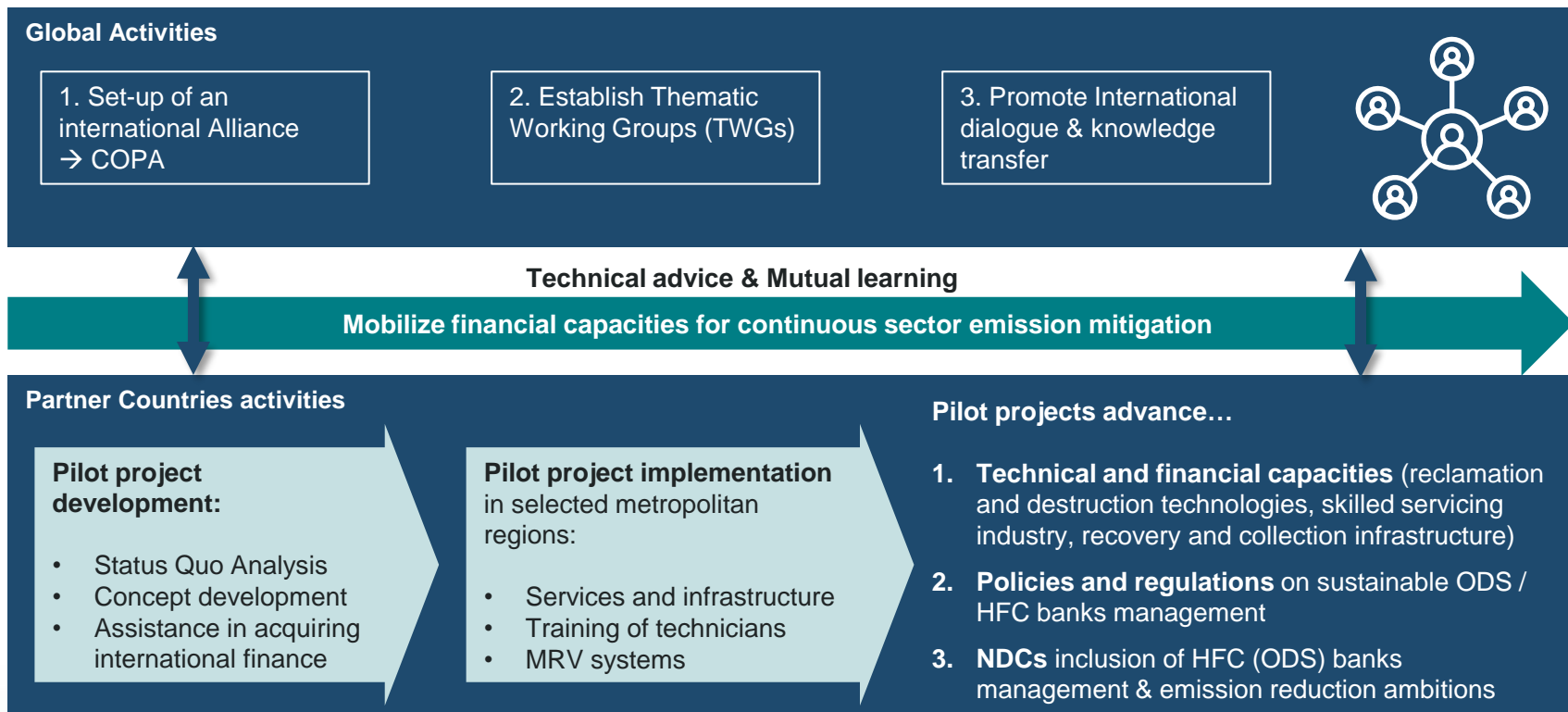
- Raise global awareness
- Bring actors together
- Advance holistic solutions
- Promote a global shift



Closing the loop to a circular economy in the cooling sector through sustainable refrigerant management



FIRST RESULTS & WORK IN PROGRESS



COPA SERVICES

COPA Services

Expertise

- Fostering expertise across all sectors
- Provide access to technical know-how and mutual learning
- Prepare market studies and concepts for the pilot implementation of mitigation measures in diverse regions.

Networking

- Create a platform to network with all relevant actors from private sector, public sector, civil society and academia
- Connect experts on sustainable refrigerant management
- Enable international positioning
- Setting the scene: achieve amplified reach and enhanced impact

Mitigation Action Support

For COPA partner countries ¹:

- Support in conceptualization of mitigation action
- Support in mobilizing finance
- Support in implementing action

COPA Tools

Working Groups

The core of **COPA's** work is driven by member-led working groups on:

- Policy measures
- Financing mechanisms
- Implementation models
- Recovery, reclamation and destruction technologies for the management of ODS and HFC banks

International Alliance

- Organisation of regular exchange and network meetings
- Participation in international events
- Organisation of Study Tours
- Raising awareness on the topic of ODS and HFC banks through global dialogue and exchange.

Technical Support

- Baseline Assessment
- Project conceptualization
- Implementation Support

Financing Mechanism

- Assistance in applying for international climate finance
- Access funding through COPA financing mechanism

¹ COPA partner countries must commit to meeting the minimum criteria of the Climate and Ozone Protection Alliance. For more information, see the section "Become a member"

THEMATIC WORKING GROUPS (TWG)

OUR WORKING GROUPS

Together with partners and stakeholders from academia, the private sector, civil society and policy makers, we are working on the following topics:



Policy Framework

For an effective management of refrigerants and foams at end-of-life, suitable policy measures are required like venting bans or mandatory recovery



Technology Solutions

Working towards the best technical solutions for ODS and HFC recovery, reclamation and destruction



Financing Mechanism

The infrastructure for and operation of a collection scheme and the destruction or reclamation of ODS and HFCs needs to be based on a sustainable financing mechanism.



Implementation Models

Putting theory into practice and demonstrating how sustainable refrigerant management can be implemented.

COPA PILOT ACTIVITIES IN



Ghana

First COPA
partner
country



China



Colombia

COPA MEMBERS



BECOME A MEMBER

Enjoy the following benefits

- Membership free of charge
- Many networking opportunities
- Shape the future of COPA
- Technology and solution exchange
- Early access to publications, newsletters, events
- Support in designing and implementing mitigation actions

COPA is open to all countries and organisations willing to support the global shift to sustainable refrigerant management and closing the loop to a circular economy in the cooling sector.

Find more Information on our Website:

<https://www.copalliance.org/>





3. COPA activities in Ghana and the general need for ODS and HFC banks management Philipp Denzinger, GIZ Proklima

GHANA AND COPA

- Ghana is the **first partner country of COPA** (signature of declaration of enrollment in June 2022)
- Working on ODS banks management together with GIZ since 2014
- Cooperation with BMZ funded e-waste projects (GIZ and Kfw)



PAST ACTIVITIES ON ODS BANKS MANAGEMENT IN GHANA

- 1) Compilation of ODS bank inventory
 - a. review of existing data and information
 - b. using data from the Green Cooling Initiative inventory (equipment data for conducting a detailed Tier 2 inventory approach) + from the e-waste inventory to determine ODS banks in Ghana
 - Close cooperation between different units required
- 2) Technology transfer: Detailed analysis of technical needs for foam/blowing agent destruction. Technical and financial assessment of local rotary kiln for foam destruction. Piloting of foam destruction containing ODS and HFC, with environmental lab analysis of residues.
- 3) Series of trainings for e-waste sector and other stakeholders on the proper dismantling of refrigerators, ODS bank inventories and sustainable alternatives.
- 4) Development of a Ghanaian roadmap on ODS Banks Management
 - Regional workshop on transboundary movement of ODS waste conducted

ACTIVITIES UNDER COPA IN GHANA

- Further evaluation of the piloted ODS destruction
- Development of financially and ecologically sustainable ODS waste stream
- Development and implementation of pilot activity regarding ODS destruction and HFC management in Ghana
- Support Ghana in implementing the ODS banks roadmap

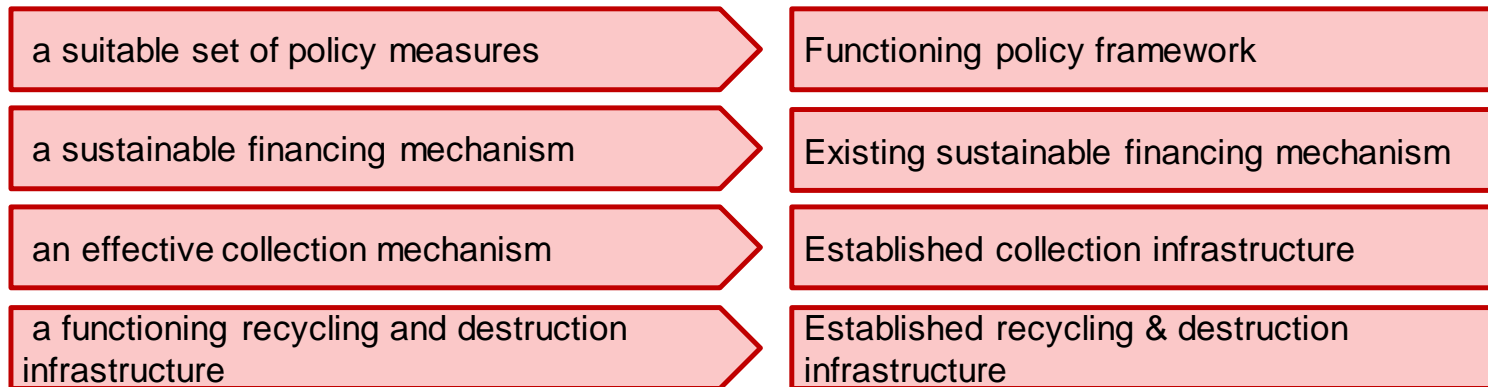


CORE PROCESSES OF ODS & HFC BANK MANAGEMENT

*Low emission development strategy (LEDS)

LEDS / climate, energy plans

For a successful ODS & HFC bank management, these core processes are to establish:



Inventory

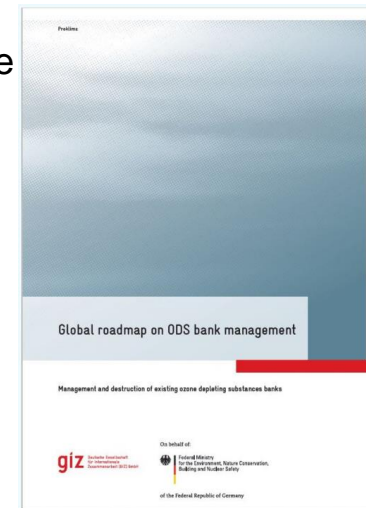
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Capacity building

These policy measures can be used to raise ambition of NDCs and integrate HFC banks management into NDCs

POLICY INSTRUMENTS TO ADDRESS REFRIGERANT MANAGEMENT

- Mandatory on-site recycling of refrigerants
- Regulation to ensure that refrigerant handling, installations, servicing, and leakage checks are carried out by certified technicians
- Operators' registry for larger systems, incl. regulation against end-of-life release
- Establishment of refrigerant & cooling appliances collection system incl. proper treatment for pilot regions (urban/ metropole areas)
- Collection points for refrigerants & cooling appliances and routines for proper treatment, including reverse logistics (take-back schemes for importing countries)
- Establishment of refrigerant reclaim facilities in combination with mandatory regulation to ensure proper handling
- Sufficient collection and recycling capacity, financed by EPR scheme



[More Information here](#)



4. Solutions for ODS and HFC banks management

Maria Gutierrez, Tradewater



Tradewater

Solutions for ODS banks management

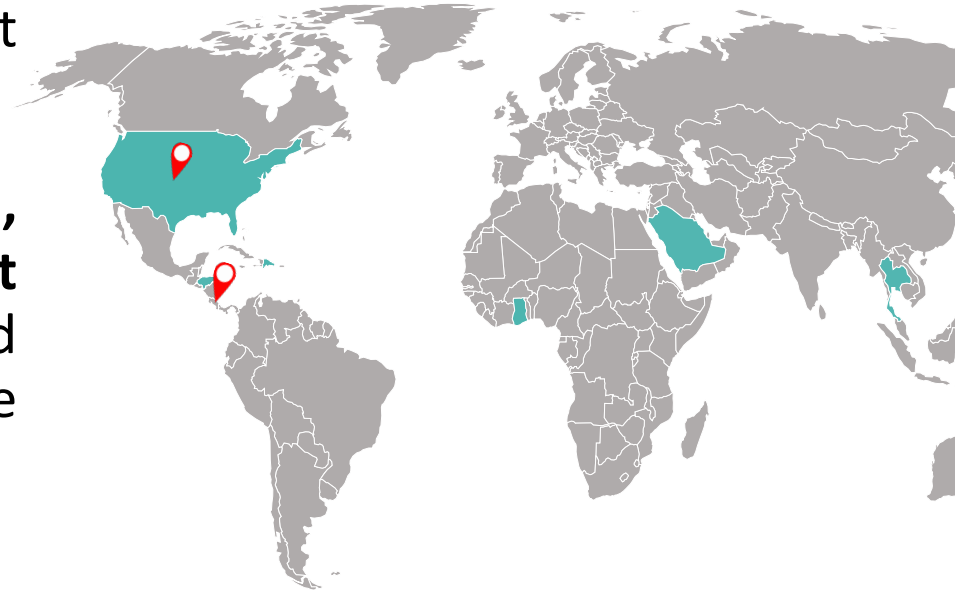
02 November, 2022



Tradewater

A climate solution that you can be a part of

- Tradewater is a **mission-based** environmental project development company
- Fighting climate change by **finding, collecting and destroying the most powerful greenhouse gases** in the world before they are released into the atmosphere.
- We leverage the market for **carbon offset credits** to make this work possible.



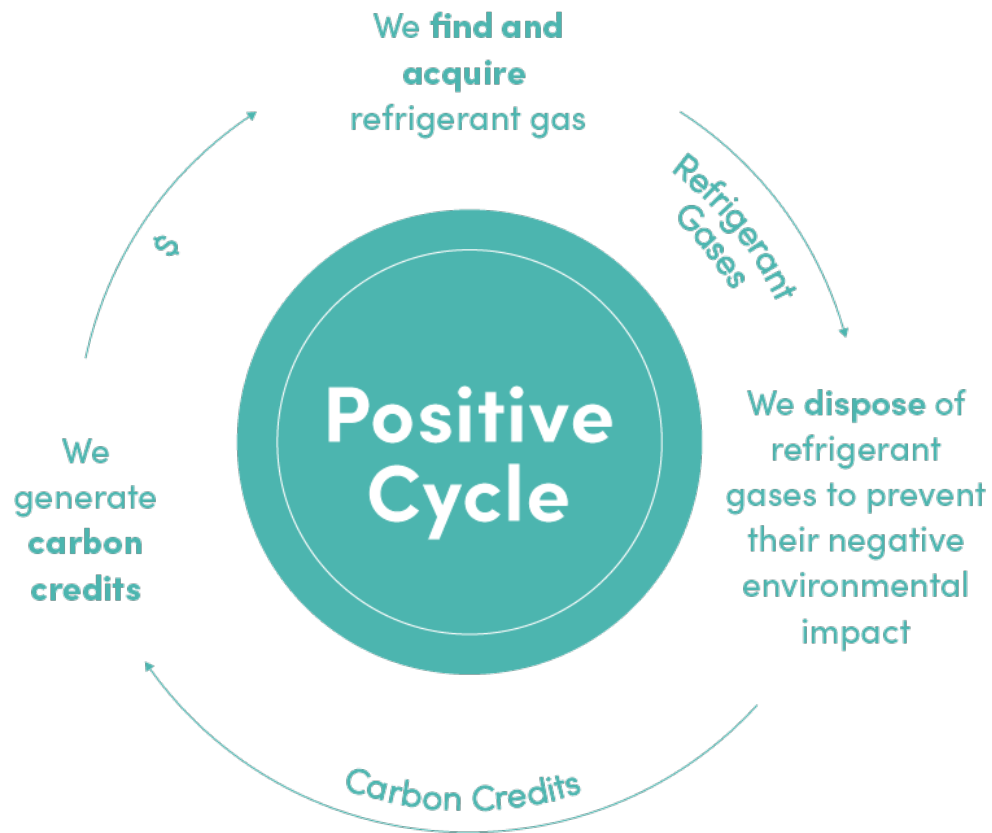
Findings we strive to solve





Findings we strive to solve

Enabling Disposal



We identify and collect refrigerant gases for their proper management.

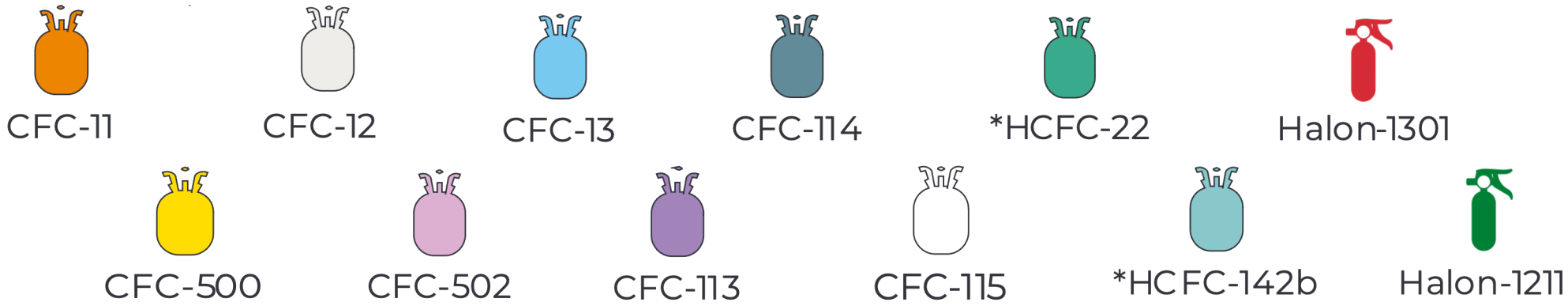


Once a sufficient amount has been accumulated through an authorized waste manager, the gases are destroyed or reclaimed locally or internationally, preventing a potential negative environmental impact.



Carbon credits are generated through recognized and verifiable international protocols, and their sale finances the search and management of more refrigerant.

Eligible Ozone Depleting Substances



*Certain limitations apply. Ask for details and about any other refrigerant you may have.



Tradewater's projects have destroyed more than 669,000 kilograms of CFCs representing over 5.7 million tons of CO₂e.

We have built networks for community engagement and project development on four continents.



International Trajectory



GHANA



DOMINICAN REPUBLIC



HONDURAS



THAILAND



SAUDI ARABIA



CHILE



... MORE TO COME...

Tradewater's Added Value



Strengthening the refrigerant value chain. We work directly with local stakeholders who are involved in the life cycle of refrigerant gases.



Subsidizing important environmental work. After we destroy refrigerant gases, we sell resulting carbon offset credits. This subsidizes the search for even more refrigerant gases and allows us to offer the service at no or low cost, depending on each case.



Ensuring high-quality, compliant work. Our carbon offset generation process is verified by 3rd parties, making certain that they comply with legislation and meet the highest standards applicable to the management and final disposal of refrigerant gases, including the Montreal Protocol.

Tradewater's Added Value



Creating environmental impact. Our efforts prevent refrigerant gases from leaking into the atmosphere, which helps reduce ozone depletion and fight climate change.



Comprehensive Support. We handle all the logistics needed to transport material for destruction, including export and Basel permitting, if needed.



Urgency. We work urgently and rapidly to protect the planet.



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5. Q&A
All participants



6. Conclusion and Closing remarks Ole Nielsen

Contact & events

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UPCOMING EVENTS

12 November side event at
COP27





THANK YOU FOR YOUR PARTICIPATION