



**COPA Session: 2 New COPA Carbon Markets Resources:  
Article 6 Guide + online course “Cooling Carbon Markets”**

8th May. 2025, Moderator: Malin Emmerich

## TECHNICAL INFO AND MEETING ETIQUETTE

- A recording of the session will be uploaded on COPAs website.
- *Turn on and then off your microphone to agree to the recording.* (If not, the presentation might not be visible.)
- Mute yourself after accepting the recording.
- Raise a digital hand to get the word or write your questions in the chat.
- Unmute and turn on your camera when you speak.
- Have fun!



## COPA - CLIMATE AND OZONE PROTECTION ALLIANCE

- **COPA works jointly with partner countries and members** 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.
- Currently **80 members** in total, of which **26 countries** (May 2025)
- **Membership is free of cost**; members are invited to **actively contribute through working groups**.
- **Website:** <https://www.copalliance.org>
- **COPA Secretariat Mail:** [contact@copalliance.org](mailto:contact@copalliance.org)

Implemented by:



In cooperation with:



Supported by:



on the basis of a decision  
by the German Bundestag

## MATERIALS ONLINE: [WWW.COPALLIANCE.ORG](http://WWW.COPALLIANCE.ORG)

- Today's session is recorded and will be uploaded on the COPAs website with the new publication.
- There are already cool and informative materials available on the COPA website. No need to be bored! For example:

### Webinar Sessions (video recording) e.g. from:

- Session on 6<sup>th</sup> of May for the New Publication - Global Banks of ODS and HFC banks update
- COPA studies and Reports, Guidelines – e.g. on ODS/HFC banks Inventory
- The Virtual Study Tour on Reclamation & Destruction Technology (live-session-series)



# AGENDA

1. Welcome & Agenda	Malin Emmerich (GIZ)
2. Relevance of Carbon Markets and the Paris Agreement Article 6 for COPA	<ul style="list-style-type: none"> <li>• Ellen Michel, head of COPA Secretariat (GIZ)</li> <li>• Mathatela Ntsatsi, National Ozon Officer Lesotho</li> <li>• Xin He (UNDP)</li> </ul>
3. Publication: Get ready with COPA for Article 6	Egbert Liese 
4. Cooling Carbon Markets and the Atingi Platform	Paola Bustillos (GIZ)
5. Online course: Leveraging carbon markets and Article 6 for refrigerant management	Jorge Lujan & Sylvie Rietmann 
6. Q&A, discussion and exchange	All
End of Session	



# Get Ready with COPA: A New 5-Step Guide for Engaging with Article 6

Egbert Liese, Walburg & Partners



## WHY THIS GUIDE?

**Key Message:** Climate finance is often seen as a separate domain, but Article 6 offers direct opportunities for National Ozone Units (NOUs).

- Montreal Protocol & Paris Agreement are increasingly overlapping
- Many NOUs overlook climate finance options for MP-related work
- This guide bridges the gap



**“A strong working relationship between the Ozone Office Unit and the Climate Change Unit is not just beneficial; it’s essential.”**

MATHATELA NTSATISI, NATIONAL OZONE OFFICER, LESOTHO

## WHAT'S NEW IN THIS GUIDE

- **Key Message:** Tailored for NOU officers, with actionable steps
- First COPA publication specifically helping NOUs access Article 6 carbon finance
- Builds real-world experience from NOUs (e.g. Lesotho)
- Offers a structured, stepwise roadmap (not just theory)

## STRUCTURE OF THE GUIDE

### Introduction

*Understanding the Paris Agreement & the Montreal Protocol*

- explains legal & policy context
- highlights opportunities for synergy
- frames the need for NOU engagement



### 5-Step Framework

*The Core of the Guide for NOUs*

- practical steps for readiness & alignment
- covers stakeholder coordination, inventories, project development & finance access
- action-oriented, building block approach



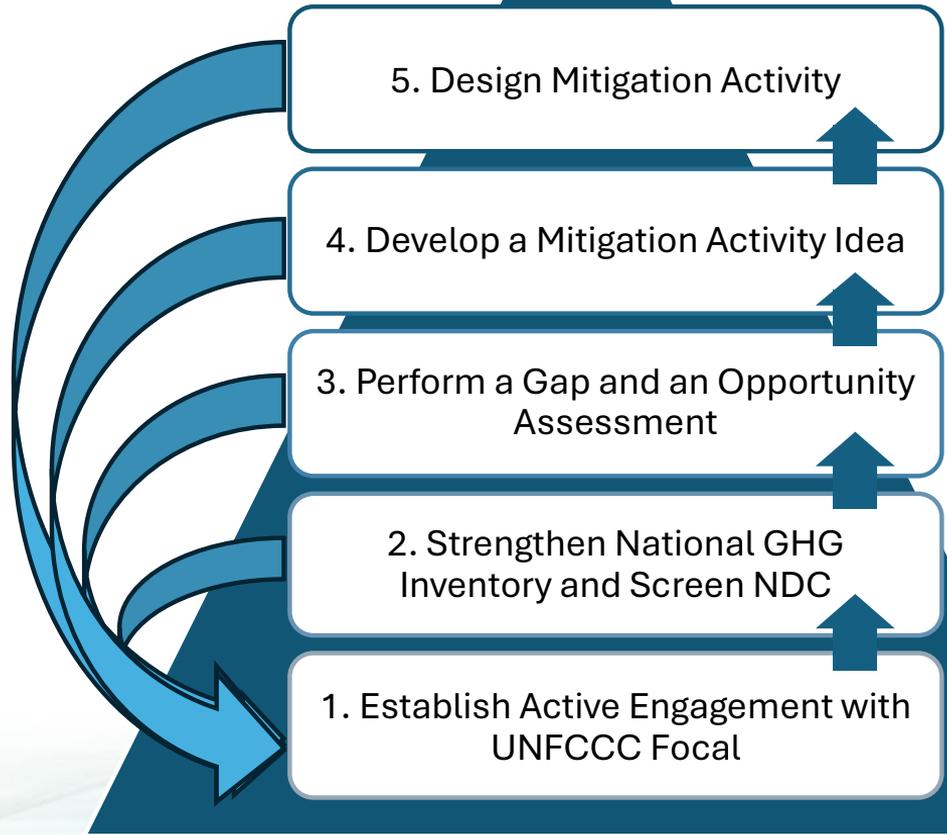
### Team & Implementation

*Building Your Support System*

- identifies key players in the process
- promotes internal collaboration
- encourages national coordination & learning

Art. 6

# THE 5-STEP FRAMEWORK



## WHAT THIS MEANS FOR NOUs

### Key Benefits:

- Concrete method to unlock new funding streams for HFC-related mitigation
- Aligns MP work with national climate targets
- Helps identify dual-purpose activities (climate + ozone)

### **Montreal Protocol**

Production and  
Consumption  
Controls

### **Paris Agreement**

Emission Reductions  
and Finance

**HFCs,  
Cooling Sector,  
Reporting Synergies,  
Finance Opportunities**

## ARTICLE 6 AND HFCS – A BIG OPPORTUNITY

**Key Message:** HFC mitigation can deliver major CO<sub>2</sub>-equivalent reductions

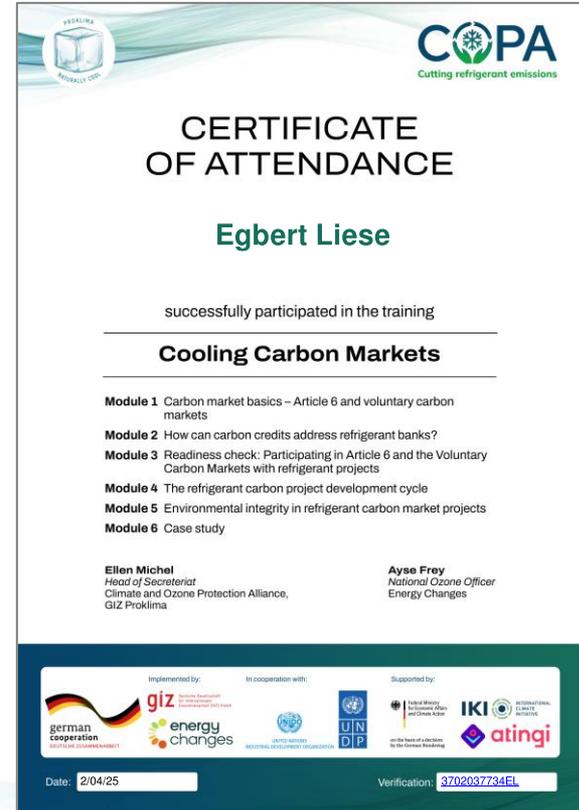
- HFCs have very high GWP (e.g., HFC-23 = 14,600 GWP)
- Activities like safe disposal, leak prevention, and transition to low-GWP refrigerants are eligible for carbon finance
- Cooling sector is now recognized in global pledges (e.g., Cooling Pledge at COP28)



# PRACTICAL TOOLS FOR NOUS

## Includes:

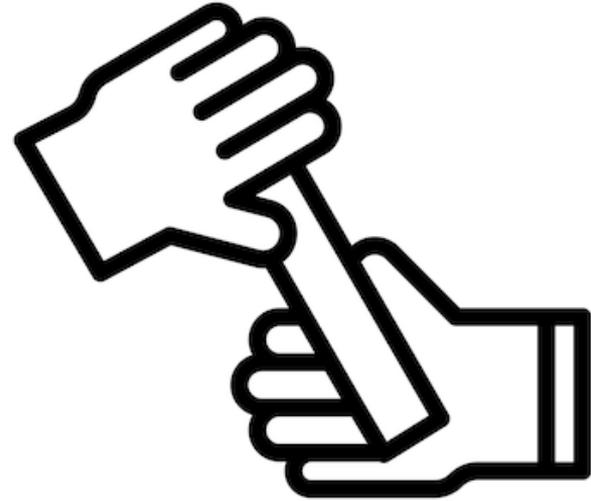
- Templates for MAIN and MADD
- Guidance on stakeholder mapping and eligibility screening
- Atingi course: *Cooling Carbon Markets* – 6 modules with certification



## WHAT YOU CAN DO NEXT

### Suggestions for Action:

- Initiate contact with your country's UNFCCC Focal Point & DNA
- Review your national GHG inventory and NDC with a "*MP lens*"
- Start identifying HFC mitigation activities that could qualify
- Engage with the industry to mobilize partners



## FINAL TAKEAWAY

**Message:** Article 6 is *not* just for climate teams; it's a chance for NOUs to lead

**“If you're not in the room when Article 6 projects are being decided, your sector won't be included.”**

MATHATELA NTSATSI

- **Call to Action:** Use this guide to build your country's next Article 6 project

Learn more about COPA & upcoming events by visiting our website:  
<https://www.copalliance.org>

**Contact COPA:**  
**COPA Secretariat**  
[contact@copalliance.org](mailto:contact@copalliance.org)

**Egbert Liese, Walburg & Partners**  
[Egbert@WalburgCapital.com](mailto:Egbert@WalburgCapital.com)

Implemented by:



In cooperation with:



Supported by:



on the basis of a decision  
by the German Bundestag



KOMMUNAL  
KREDIT  
PUBLIC CONSULTING

evoltas  
shaping  
the future

8<sup>th</sup> May 2025

# COPA new online course: Leveraging carbon markets and Article 6 for refrigerant management

---

**Jorge Lujan and Sylvie Rietmann**  
[Jorge.Lujan@energy-changes.com](mailto:Jorge.Lujan@energy-changes.com)  
[Sylvie.Rietmann@energy-changes.com](mailto:Sylvie.Rietmann@energy-changes.com)

Energy Changes is a **climate and sustainability** advisory and carbon project developer based in Vienna, Austria.



- Carbon project identification and development
- Carbon methodology development
- Carbon Capture and Storage, Utilization
- Refrigerant (ODS/HFC) management



- Corporate carbon footprints
- Corporate sustainability strategies
- CSRD
- CBAM



- Nationally Determined Contributions (NDCs)
- National Carbon Market Policy
- Carbon project identification and development
- Refrigerant (ODS/HFC) management

We **focus on technology-based** projects & project implementation studies, having developed **over 80+ carbon credit projects**

# A course for addressing refrigerant banks

## Course objective:

- Capacity building on carbon markets, Article 6, and how they can finance refrigerant emissions, and practical guidance on implementing refrigerant projects on the ground

## Target audience:

- **National Ozone Unit officials and government officials involved in refrigerant management** (primary focus)
  - o Existing knowledge of refrigerant gases (medium-high level), limited knowledge of carbon market mechanisms
- **Refrigerants stakeholders in COPA member countries and other Article 5 countries** (second primary focus)
  - o Existing knowledge of refrigerant gases (varying levels), limited knowledge of carbon market mechanisms
- **Other government officials** (additional audience, non-primary)
  - o Different levels of knowledge of both refrigerant gases and carbon market mechanisms

## COPA Carbon Markets and Refrigerants Course

# A course for addressing refrigerant banks



6 modules, with multiple parts, on the Atingi platform

The cover image for Module 1 features a central photograph of industrial refrigerant storage tanks and piping, set against a background of a blue sky with white clouds. The image is framed by a dark teal border with several light green and white diamond shapes. In the top right corner, the COPA logo is displayed with the tagline "Cutting refrigerant emissions" and a small icon of a refrigerant can. The COPA logo consists of a green circle with a white gear-like shape inside, and the letters "COPA" in a bold, sans-serif font.

**Module 1: Carbon market basics – Article 6 and voluntary carbon markets**

The cover image for Module 2 features a central photograph of industrial refrigerant storage tanks and piping, set against a background of a blue sky with white clouds. The image is framed by a dark teal border with several light green and white diamond shapes. In the top right corner, the COPA logo is displayed with the tagline "Cutting refrigerant emissions" and a small icon of a refrigerant can. The COPA logo consists of a green circle with a white gear-like shape inside, and the letters "COPA" in a bold, sans-serif font.

**Module 2: How can carbon credits address refrigerant banks?**

The cover image for Module 3 features a central photograph of industrial refrigerant storage tanks and piping, set against a background of a blue sky with white clouds. The image is framed by a dark teal border with several light green and white diamond shapes. In the top right corner, the COPA logo is displayed with the tagline "Cutting refrigerant emissions" and a small icon of a refrigerant can. The COPA logo consists of a green circle with a white gear-like shape inside, and the letters "COPA" in a bold, sans-serif font.

**Module 3: Readiness check: Participating in Article 6 and the Voluntary Carbon Markets with refrigerant projects**

The cover image for Module 4 features a central photograph of industrial refrigerant storage tanks and piping, set against a background of a blue sky with white clouds. The image is framed by a dark teal border with several light green and white diamond shapes. In the top right corner, the COPA logo is displayed with the tagline "Cutting refrigerant emissions" and a small icon of a refrigerant can. The COPA logo consists of a green circle with a white gear-like shape inside, and the letters "COPA" in a bold, sans-serif font.

**Module 4: The refrigerant carbon project development cycle**

The cover image for Module 5 features a central photograph of industrial refrigerant storage tanks and piping, set against a background of a blue sky with white clouds. The image is framed by a dark teal border with several light green and white diamond shapes. In the top right corner, the COPA logo is displayed with the tagline "Cutting refrigerant emissions" and a small icon of a refrigerant can. The COPA logo consists of a green circle with a white gear-like shape inside, and the letters "COPA" in a bold, sans-serif font.

**Module 5: Environmental integrity in refrigerant carbon market projects**

The cover image for Module 6 features a central photograph of industrial refrigerant storage tanks and piping, set against a background of a blue sky with white clouds. The image is framed by a dark teal border with several light green and white diamond shapes. In the top right corner, the COPA logo is displayed with the tagline "Cutting refrigerant emissions" and a small icon of a refrigerant can. The COPA logo consists of a green circle with a white gear-like shape inside, and the letters "COPA" in a bold, sans-serif font.

**Module 6: Refrigerant carbon project case study, CooPSA**

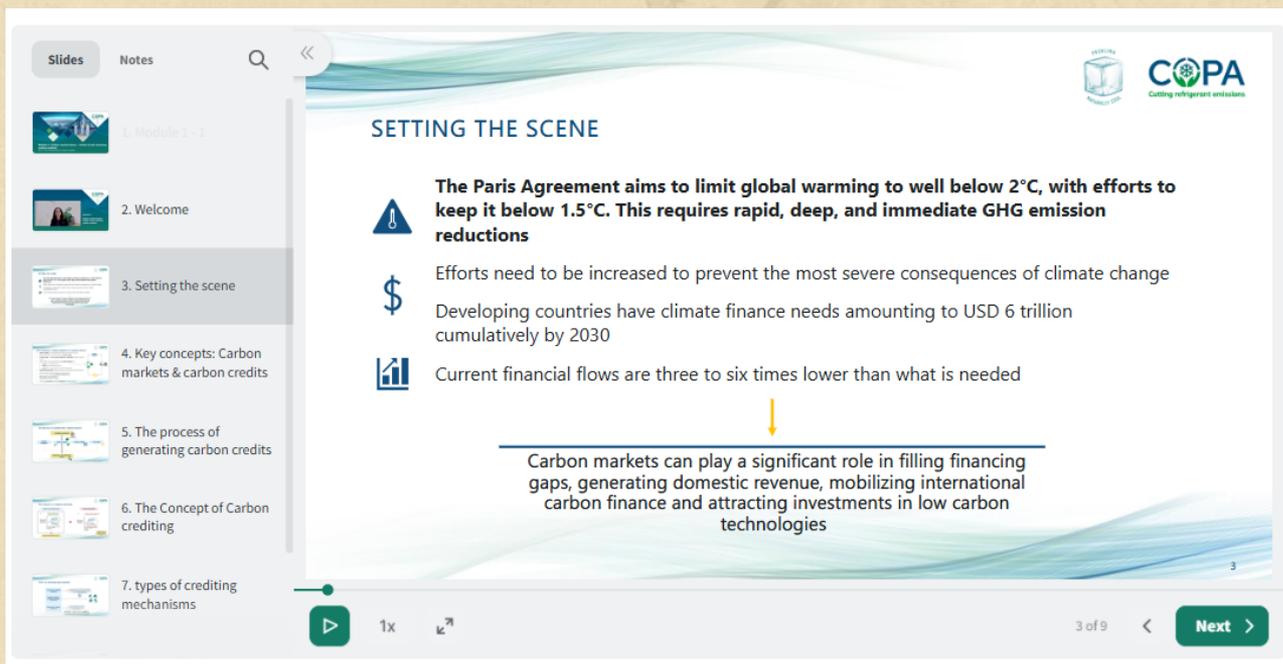
# Module content and structure



Module title	Short summary
Module 1: <b>Carbon market basics: Article 6 and voluntary carbon markets</b>	<ul style="list-style-type: none"> <li>- Basic introduction to carbon markets, general concept of crediting emissions reductions, and market functioning</li> <li>- Necessary definitions and introductions to concepts, e.g. methodologies, carbon standards</li> <li>- Article 6 introduction</li> <li>- VCM</li> </ul>
Module 2: <b>How can carbon credits address refrigerant banks?</b>	<ul style="list-style-type: none"> <li>- Exploring the supply chain of fluorocarbons/refrigerants and the different project types</li> <li>- Introductory module to the concepts of addressing refrigerant emissions through carbon finance</li> </ul>
Module 3: <b>Readiness check – participating in Article 6 and voluntary carbon markets?</b>	<ul style="list-style-type: none"> <li>- Exploring the participation requirements for Article 6, such as NDC and refrigerant/fluorocarbon inventory</li> <li>- Accounting of fluorocarbons under Article 6</li> </ul>
Module 4: <b>The refrigerant &amp; refrigerant carbon project development cycle</b>	<ul style="list-style-type: none"> <li>- Overview of the carbon project development cycle from the perspective of a refrigerant project</li> </ul>
Module 5: <b>Environmental integrity in refrigerant projects</b>	<ul style="list-style-type: none"> <li>- Discussion and details about the key points of environmental integrity in refrigerant projects, e.g. perverse incentives, permanence, conservative baselines, additionality</li> </ul>
Module 6: <b>Case studies and refrigerant project design</b>	<ul style="list-style-type: none"> <li>- Case study on CoopSA</li> </ul>

# A course for addressing refrigerant banks

## Narrated content with available transcription:



The screenshot shows a video player interface. On the left is a sidebar with a table of contents. The main area displays a slide titled "SETTING THE SCENE" with three bullet points. The first bullet point is highlighted with a blue triangle icon. Below the bullet points, a yellow arrow points down to a text box. The video player controls at the bottom include a play button, a 1x speed setting, a full screen icon, a "3 of 9" indicator, and a "Next" button.

Slides	Notes
	1. Module 1 - 1
	2. Welcome
	3. Setting the scene
	4. Key concepts: Carbon markets & carbon credits
	5. The process of generating carbon credits
	6. The Concept of Carbon crediting
	7. types of crediting mechanisms

### SETTING THE SCENE

-  **The Paris Agreement aims to limit global warming to well below 2°C, with efforts to keep it below 1.5°C. This requires rapid, deep, and immediate GHG emission reductions**
-  Efforts need to be increased to prevent the most severe consequences of climate change
-  Developing countries have climate finance needs amounting to USD 6 trillion cumulatively by 2030
-  Current financial flows are three to six times lower than what is needed

↓

Carbon markets can play a significant role in filling financing gaps, generating domestic revenue, mobilizing international carbon finance and attracting investments in low carbon technologies

3

1x  3 of 9  Next 

## COPA Carbon Markets and Refrigerants Course

# A course for addressing refrigerant banks

## Example content:

**INTRODUCTION**

In this module, we will learn about the prerequisites to engage in Article 6 of the Paris Agreement and the benefits and risks of doing so.

We will cover:

**Part 1: Getting Ready for Article 6 Participation**

- 1) Benefits, responsibilities, and risks towards participation in Article 6
- 2) Requirements for participation
- 3) Obligations for:
  - Authorizing
  - Tracking
  - Reporting

**Part 2: Article 6 in Practice for Refrigerant Projects**

- 1) Readiness check for hosting refrigerant projects



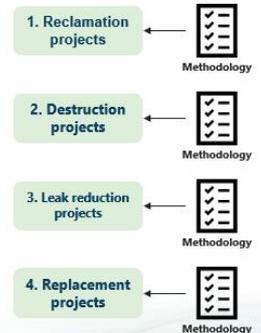
5

**CARBON MARKET METHODOLOGIES**

Methodologies are developed, updated, maintained, and approved by international carbon standards, such as:

- Gold Standard
- Verified Carbon Standard (A VERBA STANDARD)
- ACR (AMERICAN CARBON RESERVE)
- CLIMATE ACTION RESERVE
- CALIFORNIA AIR RESOURCES BOARD

In module activity: **Overview of all refrigerant carbon market project methodologies**



18

**STEP 1: FEASIBILITY ASSESSMENT**

In a first step, the project developer assesses the general feasibility of the project idea against a set of criteria to determine its viability and whether it could potentially qualify for carbon credits.

Evaluation criteria include:

- *Technical feasibility and project design*
- *Country and legal context*
- *Eligibility based on approved methodologies and rules of the standards*
- *Estimate of potential emission reductions or removals*
- *Financial viability*
- *Potential buyers*
- *Risks*



5

## COPA Carbon Markets and Refrigerants Course

# A course for addressing refrigerant banks

## Quizzes and visual/interactive activities:



The screenshot shows the 'atingi' quiz interface. At the top, there is a navigation bar with 'HOME', 'My Courses', 'Content Library', 'My Certificates', and 'FAQs'. The main header displays 'Quiz M01' and 'Cooling Carbon Markets / Module 01 / Quiz M01'. A secondary navigation bar includes 'Quiz', 'Settings', 'Questions', 'Results', 'Question bank', and 'More'. A 'BACK' button is visible on the left. The main content area contains two questions:

**Question 1**  
Not yet answered  
Marked out of 1.00

**What is the primary objective of the Paris Agreement?**

Select one:

- a. To limit global warming to well below 2°C, ideally 1.5°C above pre-industrial levels
- b. To set fixed global emission limits
- c. To eliminate fossil fuel use by 2050
- d. To create a universal carbon tax

**Question 2**  
Not yet answered  
Marked out of 1.00

**What is a carbon credit?**

Select one:

- a. A permit to emit greenhouse gases without limits
- b. A mandatory quota for companies
- c. A tax imposed on emissions
- d. A tradeable certificate representing one metric ton of avoided, reduced, or removed CO<sub>2</sub>

On the right side of the interface, there is a 'Quiz navigation' section with a grid of buttons numbered 1 through 10. Below the grid, there is a 'Finish attempt...' link and a 'START A NEW PREVIEW' button.

The screenshot shows the 'COPA' interactive activity interface. At the top right, the 'COPA' logo is displayed with the tagline 'Cutting refrigerant emissions'. The main content area is divided into six rectangular boxes, each containing a definition:

- Responsible for designing and implementing projects aimed at reducing or removing greenhouse gas emissions, following approved methodologies. Examples include renewable energy projects or forest conservation.**
- Standards or frameworks that define eligibility rules, methodologies for proving additional benefits, and methods for measuring and monitoring emission reductions.**
- Independent auditors who confirm that the project design meets required standards and assess the actual emission reductions achieved.**
- A specific activity designed to reduce or remove greenhouse gas emissions, using validated methodologies.**
- Governments, corporations, or individuals purchasing carbon credits to fulfill regulatory or voluntary climate goals.**
- Units issued by the crediting mechanism, representing one metric ton of reduced or removed CO<sub>2</sub>, available for purchase to meet climate commitments.**

At the bottom of the interface, there is a row of six buttons: 'Carbon project', 'Carbon Credits', 'Project Developer', 'End Buyer', 'Validation and Verification Bodies', and 'Crediting Mechanism'. A 'Check' button is located at the bottom left of the activity area.

**COPA Carbon Markets and Refrigerants Course**

A course for addressing  
refrigerant banks

**Technical developers:**



[energy-changes.com](https://energy-changes.com)



[publicconsulting.at](https://publicconsulting.at)



[evoltas.de](https://evoltas.de)



**Thank you**  
for your attention!

Contact Us

Energy Changes

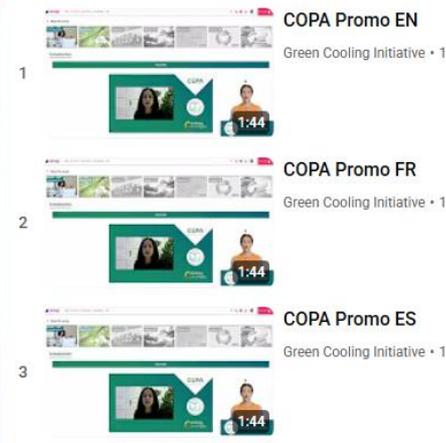
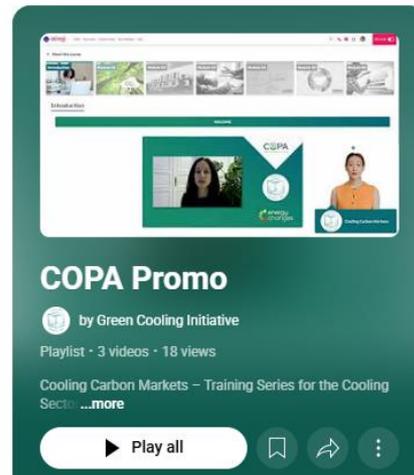
E: [Jorge.Lujan@energy-changes.com](mailto:Jorge.Lujan@energy-changes.com)

Main Office:

Boersegasse 10/5, 1010 Vienna, Austria

## ATINGI COURSE ONLINE

- ✓ English Version:  
<https://online.atingi.org/course/view.php?id=5358>
- ✓ Spanish Version:  
<https://online.atingi.org/course/view.php?id=5605>
- ✓ French Version:  
<https://online.atingi.org/course/view.php?id=5747>



Videos course introduction on Youtube:  
[https://www.youtube.com/playlist?list=PL\\_SVLx\\_7N83ovMuUhHfmdq\\_XiRI9cRh7P](https://www.youtube.com/playlist?list=PL_SVLx_7N83ovMuUhHfmdq_XiRI9cRh7P)

?

?

?

?

**ANY QUESTIONS?**

?

?

?

?



**THANK YOU FOR YOUR PARTICIPATION**