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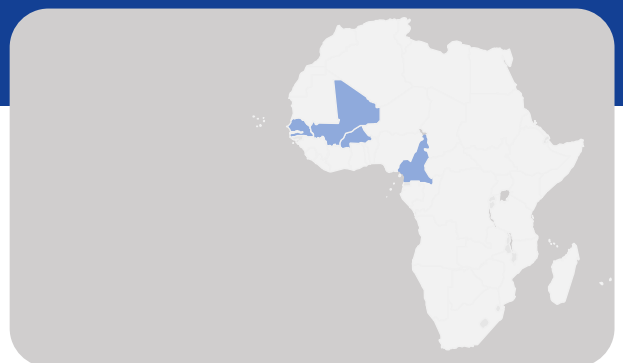
Ozone and Climate Friendly Cooling in West and Central Africa (ROCA)

Background

The use of refrigeration and air-conditioning (RAC) appliances is spreading rapidly across Africa. This will lead to a rise in energy demand and in the use of refrigerants, many of which are highly damaging to the ozone layer and contribute to climate change. To limit this dual impact on the atmosphere, solutions of low global warming potential (GWP) and zero ozone depletion potential (ODP) need to be promoted.

The approach

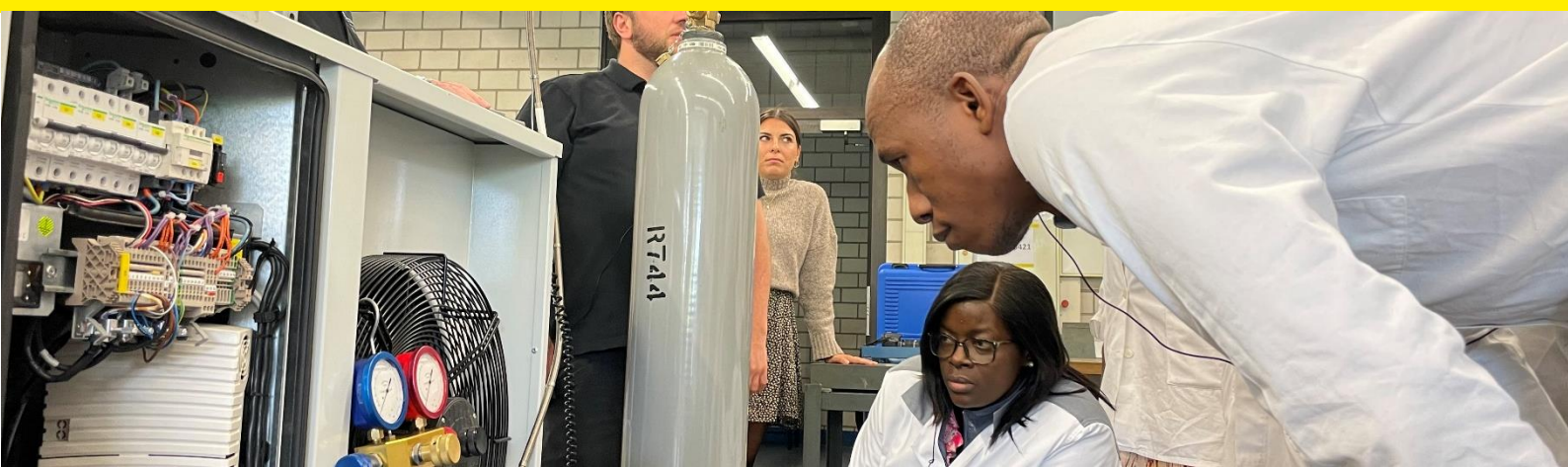
The ROCA project will contribute to increasing the use of Green Cooling technologies in Burkina Faso, Cameroon, Mali and Senegal by improving the policy and regulatory framework and building capacity in the use of these technologies. It cooperates with stakeholders from politics, civil society, education and the private sector. The objective? Reducing the impact of the RAC sector of the partner countries on the climate crisis while improving people's access to cooling.



Project name	Refroidissement respectueux de l'ozone et du climat en Afrique de l'Ouest et Centrale (ROCA) (Ozone and Climate Friendly Cooling in West and Central Africa)
Partner countries	Burkina Faso, Cameroon, Mali, Senegal
Volume	EUR 6.36 million (EUR 5.36 million from the European Union's Global Climate Change Alliance Plus (GCCA+); EUR 1 million from the German Federal Ministry for Economic Cooperation and Development (BMZ))
Term	April 2021 to March 2024
Executing agencies	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH; National Ozone Units, ministries and other public entities in Burkina Faso, Cameroon, Mali and Senegal

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1. Analysing cooling demand

The project has conducted baseline studies to analyse cooling demand, the technologies currently being used and the availability of alternatives. Workshops are being organised with stakeholders to discuss the results of these studies and to raise awareness about all aspects of sustainable cooling.

2. Policy advice

Based on the findings of the cooling demand analysis and the assessment of existing policies in the RAC sector, advisory services are being provided to the governments of the partner countries on adapting policy instruments that favour Green Cooling technologies. For example, national energy efficiency strategies have been developed in Mali and Senegal.

3. Trainings and awareness raising

Trainings of trainers are organised in Germany as well as in the partner countries to create a pool of technicians that are capable of maintaining appliances using natural refrigerant technologies. In addition, the project supports training centres with the purchase of didactic banks and other specialized training material. A special emphasis lies on the promotion of women's employment in technical jobs.

The project will advise partners to integrate a Qualification, Certification and Registration (QCR) scheme for RAC technicians. Awareness campaigns and workshops on the added value of Green Cooling technologies are organised for policy-makers, the general public and civil society.

4. Pilot projects

Pilot projects have been identified in close collaboration with the national partners. The goal is to introduce the technology and/or innovative business models and practices in RAC markets and to raise awareness about the technical and financial viability of these systems.

- **Climatisation:** installation of R290 (propane) ACs in public buildings.
- **Food Security:**
 - Cold rooms for agricultural cooperatives in Mali and Senegal.
 - A new ice machine for a fishermen's cooperative in Senegal.
 - A cold chain that connects the slaughterhouse with the market of Ouagadougou, Burkina Faso.
- **Good Health:**
 - Cooling of vaccines in Burkina Faso.
 - Cooling appliances for a hospital in Cameroon.

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Project Refroidissement respectueux de l'ozone et du climat
en Afrique de l'Ouest et Centrale (ROCA)

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GIZ is responsible for the content of this publication.

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