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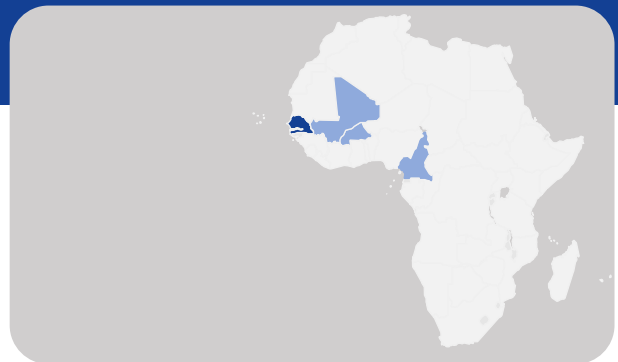
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Ozone and Climate Friendly Cooling in West and Central Africa (ROCA)

Background

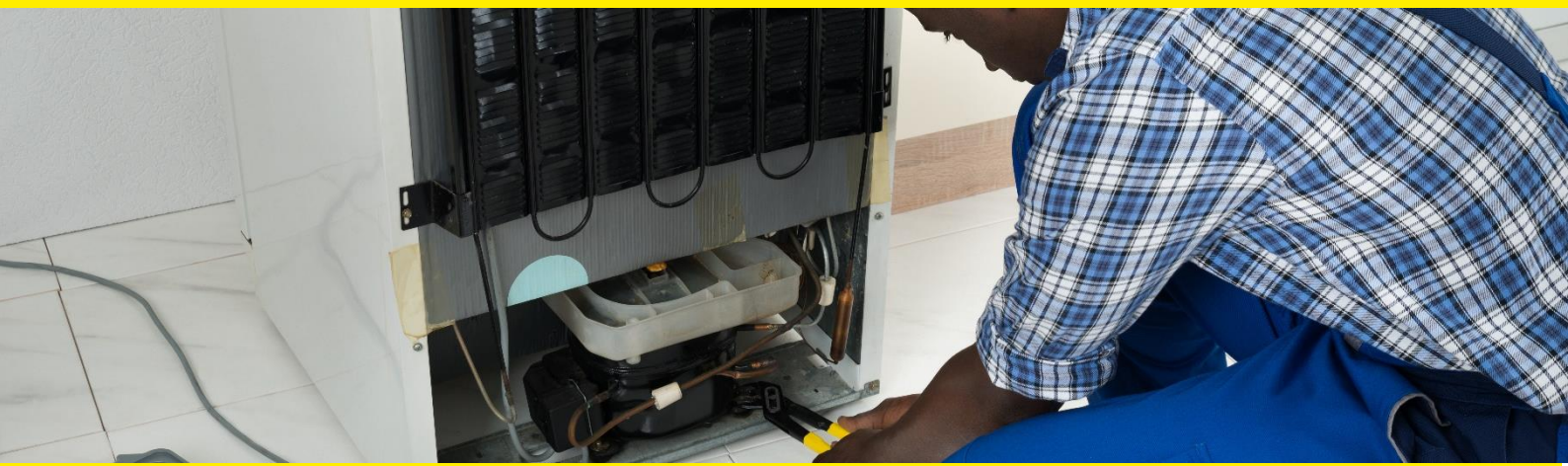
The use of refrigeration and air-conditioning (RAC) appliances is spreading rapidly across Africa, including in Senegal's towns and cities. There has been fast growth in consumer demand for cooling appliances in developing countries and in emerging economies as a result of expanding populations and economies. According to the United Nations Environment Programme (UNEP), the total global stock of air conditioners is expected to increase from 660 million units in 2017 to more than 1.5 billion units by 2030, while the stock of refrigerators will double to nearly 2 billion units by 2030. 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, a wide range of low global warming potential (GWP) and zero ozone depletion potential (ODP) solutions for Green Cooling need to be identified and sustainably produced.



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 in Senegal	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH; Senegal National Ozone Unit, Department of Environment and Listed Establishments (DEEC), Ministry of Environment and Sustainable Development

Implemented by





The approach

The ROCA project will contribute to increasing the use of Green Cooling technologies in Senegal by improving the policy and regulatory framework and building capacity in the use of these technologies.

1. Analysing cooling demand

The project will conduct baseline studies in Senegal to analyse current and future cooling demand, the technologies currently being used and the availability of alternatives on the market. Workshops will be 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 will be provided to the Government of Senegal on adapting policy instruments for the adoption of natural refrigerants by the market and the introduction of incentives and labelling schemes.

3. Themes and stakeholders

The project will address the technological, economic and financial barriers that currently hinder the widespread use of natural refrigerants in Senegal. Training of trainers will be organised to create a pool of technicians capable of maintaining appliances using natural refrigerant technologies. To promote women's employment in technical jobs, there will be a special emphasis on gender. 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 will be organised for policy-makers, the general public and civil society.

4. Pilot projects

Pilot projects will be identified and implemented in Senegal with the goals of introducing the technology and/or innovative business models and practices in RAC markets and also of raising awareness about the technical and financial viability of these systems. The pilot projects will be selected in close collaboration with Senegal's National Ozone Unit.

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Project 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)

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