

Case studies from other countries on energyefficient cooling products

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3 October 2023 National Capacity Building Workshop

Overview of case studies

- Development of regionally harmonized MEPS and labelling in air conditioners and refrigerators in the EAC and SADC regions
- National projects to transition to energy efficient refrigerators in the SADC region
- Transition to climate-friendly air conditioning in Nigeria
- Transition to sustainable cooling solutions in **Rwanda**
- Ecofridges initiative in **Ghana** and **Senegal** to unlock financing for energyefficient and climate friendly air conditioners and refrigerators







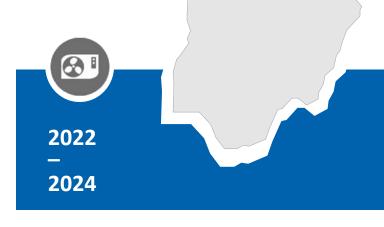
Insight on

Energy efficient and climate friendly cooling in Nigeria



Main components

- Conduct a Market Assessment on Air Conditioners (AC) and leverage existing data
- Update AC MEPS and Energy Labels to enhance energy efficiency and address refrigerant global warming potential (GWP)
- Recommend **monitoring**, verification and enforcement protocols
- Conduct an Awareness Campaign for vendors and consumers ۰
- Provide capacity building to strengthen compliance
- Train technicians on energy-efficient & climate-friendly room ACs ۰
- Recommend cooling targets in the Nationally Determined Contribution (NDC) to the **Paris Climate Agreement**



Recent achievements

- Market assessment, complementary report on energy efficiency regulation, compliance and enforcement • and communications strategy are completed
- Development of awareness campaign started ۲



Partners:





National Project – Rwanda



Main components (GCF Readiness)

- Recommendation and solution to address the implementation gaps, update the MEPS and Labels framework and to conduct series of trainings
- Market Surveillance Scheme to oversee products
- Innovative business model to unlock finance for energy-efficient and climatefriendly cold chain solutions at the Specialized Outreach and Knowledge Establishment (SPOKE)
- National communication campaign to inform end-users



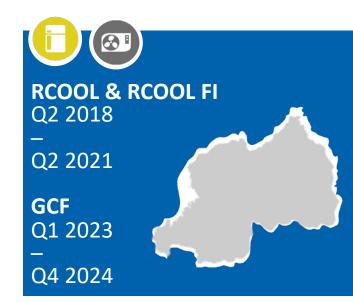
Latest achievements

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- National Cooling Strategy adopted by Cabinet implementation underway
- On-Wage Financial mechanism : launched in January 2022
- MEPS and Labels entered into force in 2021
- Sustainable cooling Campaign: developed and launched in May 2021
- On-wage communication campaign : developed and launched in January 2022]
- Capacity building in EAC toolkit : developed and launched in March 2022







GCF Readiness

- Kick-off mission in May 2023
- Experts on MEPS, MVE and PRS selected
- Update of PRS underway
- Technical Regulations Document being reviewed

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National Project – Africa Centre of Excellence for Sustainable Cooling and Cold-Chain (ACES)

Objective & Approach

- Accelerate uptake of sustainable cooling and cold-chain solutions in the agriculture and health sectors in Africa to improve livelihoods, health, food security and low-carbon development
- Established in 2020 by Govts of Rwanda and UK, UNEP U4E, Centre for Sustainable Cooling, and University of Rwanda
- Offer a permanent, comprehensive, one-stop shop for technical assistance and access to state of the art facilities
- Hub (HQ at Rubirizi campus in Kigali) to research, develop, and test technologies as well as training (for trainers); network of affiliated SPOKEs in rural communities throughout Africa to demonstrate and deploy solutions and train locals

2020

2025

• Foundational UK funding over first 5 years by UK Gov enables staffing, procurement of equipment, refurbishment of facilities; campus and land and new facility construction donated by Rwandan govt; equipment donations and other support by industry and academia



National Projects – Ghana and Senegal (ECOFRIDGES)

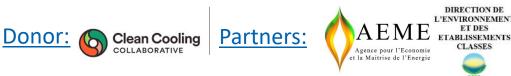


Main components

- Conduct National Market Assessments
- Develop Financial Mechanisms to promote efficient, lower-GWP cooling products
- Enforce eligibility criteria, collect and recycle / process old, operable products
- Conduct Communication Campaigns to raise awareness
- Capacity building for others in ECOWAS based on lessons learned

Achievements (project completed)

- All components were successfully completed
- Market Assessments completed and validated
- **5 Financial Institutions** formally joined
- Capacity building and communication campaign done
- On-wage financing scheme and on-bill financing scheme were developed
- 25 press articles showcasing the project

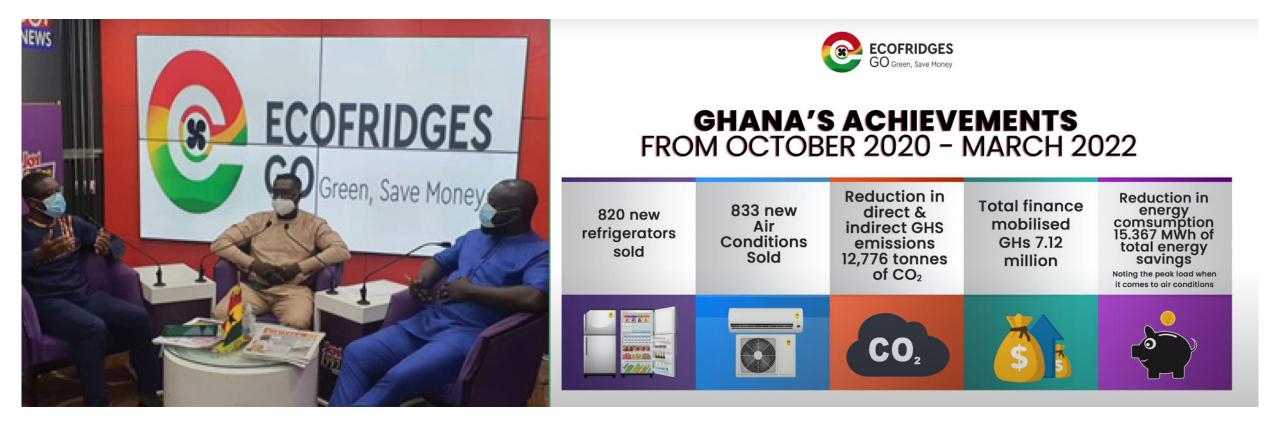








National Project – Ghana (ECOFRIDGES)



https://youtu.be/B8-Fo06RHaA





Contact TRANSFORMING MARKETS TO ENERGY-EFFICIENT PRODUCTS





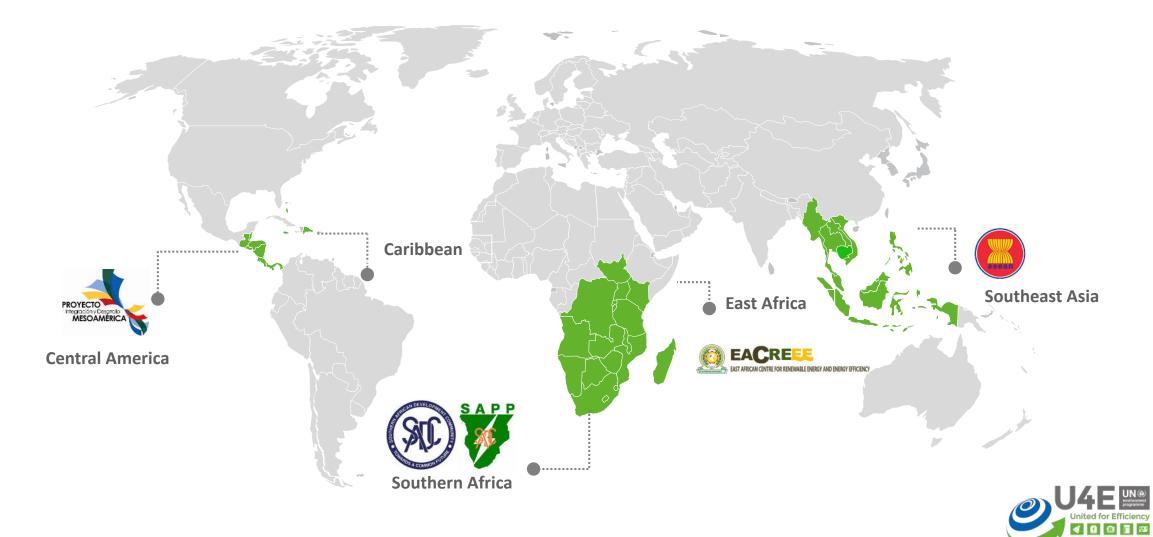
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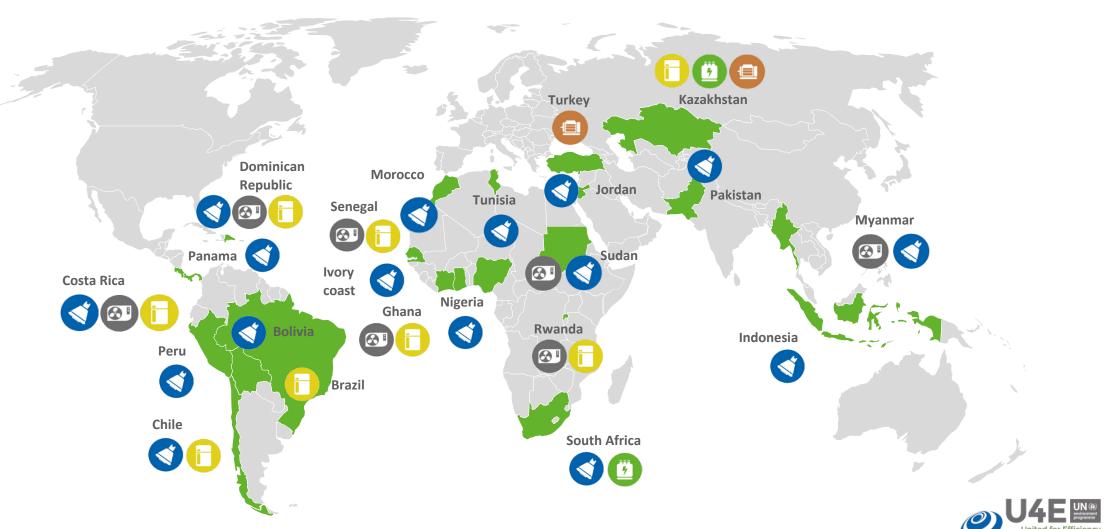


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Regional projects



National Projects



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