

Introduction into the UNEP-U4E Integrated Policy Approach & Savings possible through energy-efficient cooling

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- Introduction of UNEP-U4E
- Overview of UNEP-U4E tools and resources
- Savings that can be achieved with energy efficient cooling in The Gambia
- Overview of the project



United for Efficiency – Leapfrogging to Energy-Efficient Lighting, Appliances and Equipment

- Launched United for Efficiency (U4E) in 2014 at the UN Secretary General's Climate Summit.
- Initiative contributes to Sustainable Development Goal 7.3



7. Ensure access to affordable, reliable, sustainable and modern energy for all7.3 By 2030, double the global rate of improvement in energy efficiency





The Programme combines the forces of the private and public sectors on high impact opportunities – lighting, appliances and equipment



U4E Partner Organizations

Manufacturers & Industry Associations

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Technical Organizations & Initiatives

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SWEDISH INTERNATIONAL DEVELOPMENT

COOPERATION AGENCY

Funders & Financiers



Department for Environment Food & Rural Affairs



Tackle Products That Use >50% of Electricity



Sources: International Energy Agency; Lawrence Berkeley National Laboratory; UN Environment Method: Approximate savings in 2030 in emerging & developing economies if today's best available technologies are adopted *Electric motors systems use over half of global electricity, some of which is accounted for in ACs and Refrigerators



U4E Integrated Policy Approach



- Gather market data and stakeholder input to set standards specifying efficiency and other requirements for products
- Establish energy labels, raise awareness, and build capacity
- Support consumers to offset the higher purchase price of efficient products and send demand signal to vendors
- **Oversee** products sold in the market, **verify** compliance, \bullet enforce the requirements, report results
- Reduce adverse health and environmental impacts during manufacturing, operation, and end-of-life recycling / disposal



Role of MEPS & High-Performance Product Labels

Overview





MEPS should ban all used imports and inefficient / high-GWP new products



Overview of U4E Tools and Guidance





Which products are claimed to meet the Model Regulation Guidelines and where are they available?

Sustainable Cooling Products Database



Overview of U4E Tools and Guidance

Resource: https://united4efficiency.org/resources/accelerating-global-adoption-energy-efficient-climate-friendly-refrigerators/ https://united4efficiency.org/resources/accelerating-global-adoption-energy-efficient-air-conditioners/

How to monitor the market, enhance enforcement, and share information?

Product Registration System



How to address higher first costs, risk, access to capital, & other barriers?

Financial mechanisms







Saving Opportunities in The Gambia

*Minimum Ambition Scenario **High Ambition Scenario



Saving Opportunities in The Gambia for Room Air Conditioners, and Residential Refrigerators



*() indicates 2040 % demand is below the 2022 electricity consumption

Graph refers to the minimum and high ambition scenarios that had been assessed for the U4E Country Saving Assessments.

Project Overview

Readiness Project funded by the GCF; \$400,000.00 Budget; UNEP Delivery partner

Rationale:

- Absence of regulatory frameworks and energy standards for appliances has resulted in inefficient products
- Country has high electricity tariffs
- The demand for air conditioners and refrigerators in The Gambia is predicted to rise up to 44% by 2040.

Objectives

- Develop comprehensive legislative framework for energy-efficient air conditioners and refrigerators in The Gambia that will ultimately reduce GHG emissions
- Develop a National Cooling Action Plan (NCAP) based on a robust market assessment and a policy framework for MEPS and labelling scheme for air conditioners and refrigerators.
- Additionally, the proposal includes capacity building for the Ministry of Petroleum and Energy (MOE) and key stakeholders. In the long-term, the project will catalyse broader market transformation for energy efficiency in the Gambia.

Project Overview Cont.

Activities

- Capacity building on Energy Efficient Appliances
- Capacity Building through a study tour for the Ministry of Petroleum and Energy and key project stakeholders.
- National market assessment on refrigerators and air conditioners.
- Development of a National Cooling Action Plan to provide a framework for policy interventions in The Gambia for the cooling sector
- Establishment of a regulatory framework (for air conditioners and refrigerators) with subsequent implementation including both minimum energy performance standards (used for all products in the market) and high energy performance standards
- Development of a draft Project Concept Note in collaboration with relevant AE.
- Establishment of a PWG to ensure involvement of all necessary stakeholders.



Contact TRANSFORMING MARKETS TO ENERGY-EFFICIENT PRODUCTS





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