



PROJECT AT-A-GLANCE

Transforming Africa energy market to Higher Efficiency Lighting and Appliances with Strategic Integrated Energy Policy Approach at the Continental Level



For more information, please visit:
www.united4efficiency.org
<https://afrec.au.int>

GEOGRAPHICAL SCOPE

All 55 member state countries of the African Union

TARGETED PRODUCTS



Lighting



XFMRs



Motors



Refrigerators



ACs

STATUS **ACTIVE**

TEAM LEADER

IMPLEMENTING PARTNERS

STARTING DATE CLOSING DATE
OCTOBER MARCH
2019 2026

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**United Nations Environment Program's
 United for Efficiency (U4E)**
**and the African Union Commission's
 African Energy Commission (AFREC)**

TOTAL PROJECT*



\$ 1.1
 million

*per year



EXPECTED KEY ACHIEVEMENTS

From the experience of tackling current energy efficiency barriers and based on U4E Country Assessments, the reduction potential range in electricity consumption, monetary savings and GHG emissions mitigation in the five African Economic Regions due to a market transformation to energy efficient Lighting, Cooling appliances and Equipment – compared with current values, with a Best MEPS Scenario – is very significant and can by 2030:



Save all consumers in Africa a minimum of **\$ 12.35 Billion** per year



Avoid the need to construct more than **50 new power plants** and save more than



95 Million tonnes of greenhouse gas and air pollution emissions per year.



The electricity freed through more efficient lighting and appliances could supply more than **50 million new homes** in Africa.



THE CHALLENGE

Regional integration is a development priority for Africa. Trade and market integration is one of the key areas included in the Agenda 2063 – an agenda that sets the out the vision path of the continent for the next 50 years, and therefore its success will help transform economies and drive growth to more than 1.1 billion citizens and a growing young population, bringing future opportunities to a marketplace of 55 countries with a growing consumer purchasing power.

Energy Efficiency and Harmonization of Standards play a major role in achieving market integration for some of the most energy consuming products, such as Lighting, Cooling appliances and Electrical Equipment in a continent highly motivated to address rampant growth in energy access, electricity demand and greenhouse gas (GHG) emissions. It is therefore vitally important to put in place mechanisms that will provide support for Regional Cooperation and Policy Coordination to converge ultimately towards common, continent wide harmonized minimum energy performance standards (MEPS) and market monitoring, verification and enforcement (MVE) across the continent, it's regions and countries. The adoption of common robust policies within a trading region will foster compatibility between neighboring country markets, facilitating the supply chain and decreasing the cost of energy efficient products for all parties.

WHAT WE DO

AFREC and U4E will provide technical assistance to all African countries targeting one African Regional per year. The aim of the Program is to transform Africa towards a Harmonized Regional Market for energy efficient Lighting, Refrigerators, Room Air Conditioners, Motors and Power Distribution Transformers.

The Project will seek to achieve concrete objectives, such as:

- Development of Saving Assessment for the Region and its country members, to quantify electricity, climate and financial benefits from the switch to energy efficient lighting, appliances and equipment.
- Development of recommendations for supporting strategic policies and frameworks, such as MEPS, Labelling programs and MVE for energy-efficient lighting, cooling appliances and equipment, harmonized for each region with the appropriate international best practices.
- Support Testing Laboratories for the enforcement of MEPS and Labelling.
- Delivery of Capacity Building Workshops to relevant stakeholders on Product Registry Systems and Sustainable Public Procurement practices.
- Support the on-going national and regional efforts on Market Transformation through strategic 5-year policy programs and the development of specific tools/resources for its implementation.



AFREC'S ROLE

AFREC is a specialized agency of the African Union (AU), in charge of coordinating, harmonizing, protecting, conserving, rational exploitation, commercializing and integrating energy resources on the African continent.

Its mandated to, amongst others; develop policies, strategies, research and plans based on African Union Member State, sub regional, regional and continental energy database, and facilitate the rapid dissemination of information as well as provide technical support, mobilize finance and capacity building to all African Institutions in the Energy sector. AFREC mandate is implemented under five pillars which forms part of its strategy, namely: African Energy Information System (AEIS), Bioenergy Program, African energy efficiency program, Oil and Gas program and African energy Sector transition program.



UN ENVIRONMENT'S ROLE

United for Efficiency provides developing and emerging economies through their in-house experts and specialized partners with tailored technical support to transform their markets by accelerating the adoption of energy-efficient lighting, appliances, and equipment. Currently it is present in more than 30 countries worldwide. Based on each country's circumstances, United for Efficiency works with any of the following products: lighting, refrigerators, room air conditioners, motors and transformers - 5 products that together consume over half of the world's electricity.

By following United for Efficiency's Integrated Policy Approach and covering crucial elements from the transformational pathway, such as Standards and Regulations; Labelling and Communication strategies; Financial Mechanisms; Monitoring, Verification and Enforcement; and Environmental Sound Management, countries achieve a lasting market transformation, allowing monetary savings on their utility bills, helping businesses thrive through greater productivity, enabling utilities to meet growing demand for electricity, and assisting governments in reaching their economic and environmental ambitions.

