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INDUSTRIAL DEVELOPMENT ORGANIZATION



ENERGY EFFICIENCY
FOR SUSTAINABLE
LIVELIHOODS IN AFRICA



Energy Efficiency for Sustainable Livelihoods in Africa Program (EELA)



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Introduction to the scale-up EELA Program and support for labelling Mr. Ndivhuho Tshikovhi, UNIDO

Image above: EELA Stakeholder Forum 2023, Kenya

EELA Approach 2019-2024

EELA had a transformational approach towards developing East and Southern African markets by connecting quality energy efficient lighting and appliance providers with aware consumers while stimulating local manufacturing and private investments.

The EELA approach to change



Market development and business support for the private sector to deliver efficient and high quality energy services; higher climate resilience and creation of green jobs



Conducive policy environment through harmonised Minimum Energy Performance Standards (MEPS) for appliances, compliance frameworks, waste management, public procurement guidelines



Capacity building on policy and regulatory framework development, appliances testing and regulatory enforcement and on Energy Service Business Models



Awareness raising on the benefits of adopting efficient technologies across all stakeholders

EELA contributed to a low-carbon, climate-resilient and environmentally sustainable economy and responds to the priorities of the countries national NDCs and development goals.



A coordinated regional effort



Implemented by UNIDO with financial support from the government of Sweden



Budget: 6Mio EUR

Current phase: 2019-2024



Why is there a need for EELA?

- Reliable and affordable **access to sustainable energy** is still a big challenge in many countries in Sub-Saharan Africa
- In many parts of Africa, there is **limited access to modern energy-efficient technologies** due to a number of reasons including financial constraints, lack of awareness, and limited technical expertise.
- Growing populations, urbanization, Climate Change impacts and rising living standards **increase the demand for appliances**. Unregulated markets allow an influx of low quality and inefficient appliances.
- Without a transformational change of the market, the electricity **demand for cooling services is expected to more than double** in the next decades.
- Besides Household appliances, high performing, energy-efficient and affordable **Productive Use appliances** are important enablers for poverty reduction and sustainable economic development.
- Industries often operate on **outdated equipment at high energy costs**, leading to low productivity, frequent breakdowns, and inefficient resource use, which further hampers economic growth and competitiveness.



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Energy Efficiency for Sustainable Livelihoods in Africa - EELA

The **EELA program** seeks to promote inclusive and sustainable economic growth through integrated energy efficiency interventions.
It focuses on transforming markets:



Accelerating the uptake of high-performing affordable, and energy-efficient appliances,



Increasing energy efficiency investments in the industrial sector,

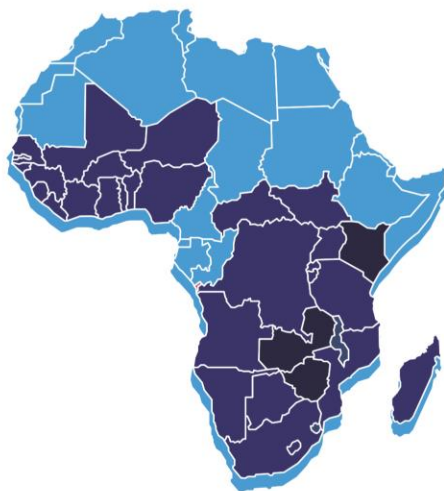


Promoting sustainable local value chains for energy-efficient products and services.

EELA contributes to a **low-carbon, climate-resilient and environmentally sustainable economy** and responds to the priorities of the countries NDCs and development goals.

Program Coverage

The program includes **regional interventions in the ECOWAS, EAC and SADC region** as well as multiple **EELA Country Windows (KENYA, ZAMBIA, ZIMBABWE)**.



Implemented by UNIDO with financial support from the government of Sweden:



Regional Partners:



The EELA Program in a Nutshell

Total Budget: 20 Million EUR

Donor:



Project Start / Duration:



Key National Counterparts:

- Ministries of Energy, Industry & Environment
- Utilities and Regulators
- Industry Associations
- Standard Bodies & Testing Laboratories

Implementing Agency



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Key implementing Partners:





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EELA Regional Window



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OBJECTIVES

**IMPROVED ACCESS
TO ENERGY EFFICIENT
TECHNOLOGIES AND SERVICES**

**MITIGATE NEGATIVE
EXTERNALITIES**
of the energy system



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WHAT



KNOWLEDGE EXCHANGE

among regional **key institutions and stakeholder group**

REGIONAL POLICY and **REGULATORY ENVIRONMENT** for EE



MEPS- Industry (E. Motors and industrial refrigeration)

PRIVATE SECTOR **DEVELOPMENT** support for **EE services and Technology Cooperation**



Financial Mechanisms
(Article 6, ESCOs)

NATIONAL SUPPORT for adoption and compliance of **EE standards**



Technical Assistance



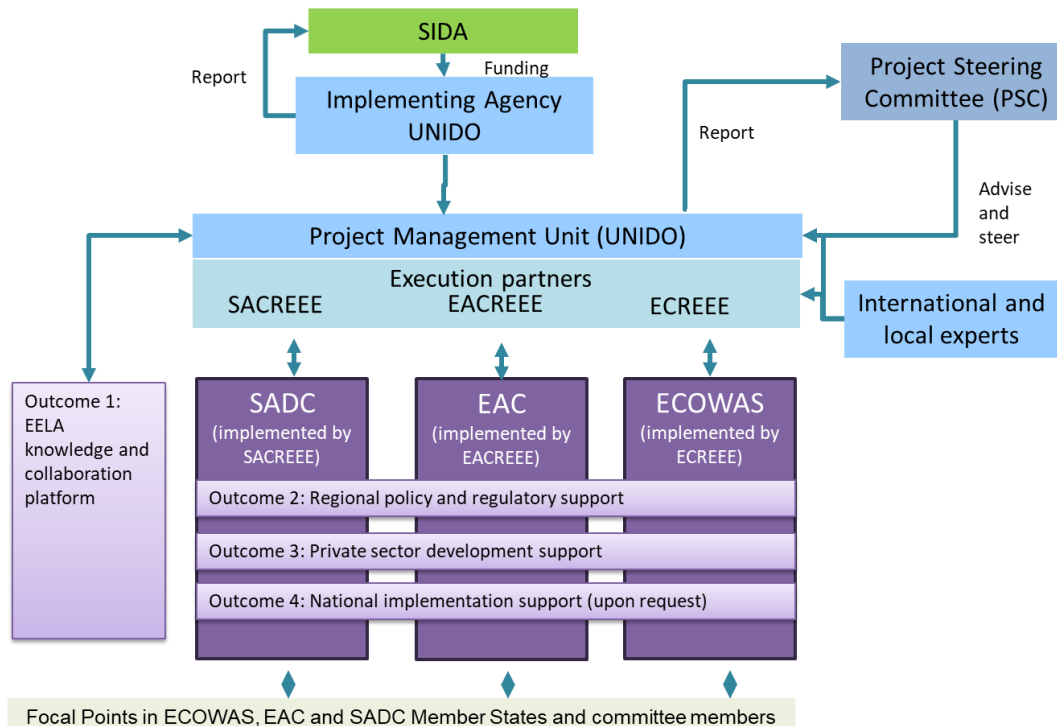
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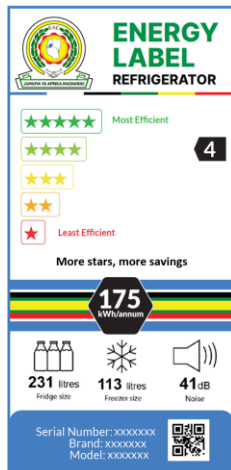
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Implementation Arrangements



Regional Support for Labeling in EAC, ECOWAS, SADC



Outcome 1: Regional key institutions and stakeholder groups supported and knowledge exchange between regions and member states facilitated

Output 1.1: Guidelines and expert support for MEPS, compliance, and labelling provided

1. Develop guidelines and best practice documents and analysis on regional labelling roadmap, MEPS and labelling implementation, monitoring, verification and enforcement to be used and adapted by the three regions

Outcome 2: Regional policy and regulatory environment for EE lighting, appliances and industrial equipment in the SADC, EAC, and ECOWAS regions is improved with a view of the climate change impact and gender responsiveness and capacity of key institutions

Output 2.2: Regional labelling programme implemented, and first product labels developed and adopted

1. Establish regional co-working groups to work on labelling
2. Implement regional labelling programme for each region.
3. Develop regional labels

Outcome 4: National support for adoption and compliance of EE standards provided (Upon request)

Output 4.1: MEPS. Labelling and MVE implemented in [6] countries

1. Adapt regional labelling process to national context and adopt first label





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EELA Country Window Vision



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EELA Kenya Country Window

Overall Objective: to stimulate inclusive sustainable economic growth through a National Energy Efficiency program targeting:

1

Energy Efficient On- and Off-grid Appliance activities linked to the regional EELA Project

2

A **Private Sector Industry Clean Tech Platform (ICTP)** to accelerate investments in the low-carbon transformation of the industrial sector piloted in the **tea industry**

3

Skills for repair, maintenance, and **end-of-life treatment of energy-efficient equipment** are enhanced in Kenya with a special focus **on off-grid equipment**.



Budget:

5,8 Mio EUR over 5 years (additional fund mobilisation ongoing)

Start date:

August 2024

Project Inception period:

6 months (August 2024 to February 2025)



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EELA Zambia Country Window

Overall Objective: to stimulate inclusive sustainable economic growth through a National Energy Efficiency program targeting:

1

Energy Efficient On-and Off-grid Appliance activities linked to the regional EELA Project

2

A **Private Sector Industry Clean Tech Platform (ICTP)** to accelerate investments in the low-carbon transformation of the industrial sector piloted in agro-industries.

3

Skills for repair, maintenance, and **end-of-life treatment of energy-efficient equipment** are enhanced in Zambia with a special focus **on off-grid equipment**.



Budget:

5,2 Mio EUR over 4 years (additional fund mobilisation ongoing)

Start date:

December 2024

Project Inception period:

6 months (December 2024 to May 2025)



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EELA Zimbabwe Country Window

Overall Objective: to stimulate inclusive sustainable economic growth through a National Energy Efficiency program targeting:

1

Energy Efficient On-and Off-grid Appliance activities linked to the regional EELA Project

2

A **Private Sector Industry Clean Tech Platform (ICTP)** to accelerate investments in the low-carbon transformation of the industrial sector.

3

Effective **e-waste management** promoted and institutional capacity to manage and regulate e-waste is enhanced.



Budget:

4 Mio EUR over 3 years (additional fund mobilisation ongoing)

Start date:

December 2024

Project Inception period:

6 months (December 2024 to May 2025)



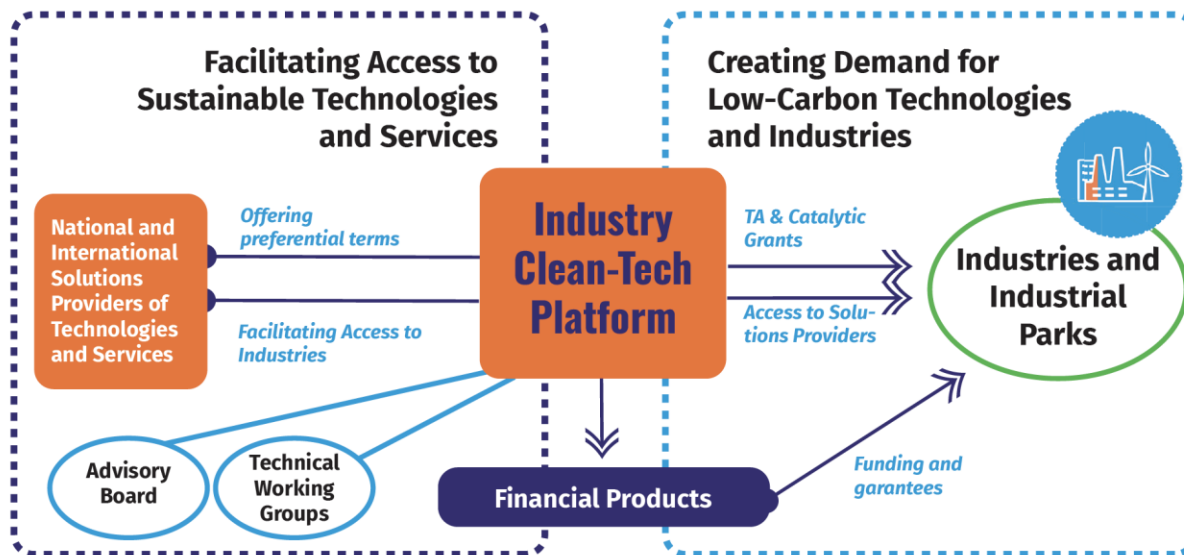
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Strengthening EE Investments in Industries and fostering technology cooperation for a Just Energy Transition





EELA Program Structure



Thank you!

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