



# ENERGY EFFICIENT LIGHTING AND APPLIANCES

*Southern and Eastern Africa*

The Energy Efficient Lighting and Appliances (EELA) project aims to support the development of vibrant markets for energy efficient lighting and appliances across East and Southern Africa.



Efficient electricity use in homes, businesses and public facilities in these growing regions is one of the fastest and cheapest ways of accelerating sustainable development.



# Switch it ON

The power of energy efficient lights and appliances can accelerate sustainable development in East and Southern Africa

EELA's MISSION is to support the development of vibrant markets where suppliers are delivering high-quality services and products for energy efficient lighting and appliances to increasingly aware households, businesses and public facilities across East and Southern Africa.

## The challenge

To create vibrant markets for energy efficient lighting and appliances consumer choice, policies and regulations, as well as private sector engagement are some of the key factors that require addressing.

In markets awash with outdated and inefficient products that use a lot of costly energy, consumers need more choice. Stronger policies and regulations are also urgently needed to cover a range of issues, for example, protecting local markets from becoming dumping grounds for technologies that are banned in other countries. Meanwhile, incentives are needed to encourage the private sector to offer energy efficient products and services.

## Private sector support

**Strong private sector involvement is needed to achieve a market of high-quality energy efficient services and products.** New business opportunities are coming up with a growing market for local companies. The EELA project provides support for innovative delivery models for energy efficient services and products such as those provided by Energy Service Companies (ESCOs) and other Public-Private Partnerships or private initiatives.

## THERE ARE MANY BENEFITS FOR PEOPLE, ECONOMIES AND THE PLANET



Because energy efficient lights and appliances cost less to run and last longer, the **USER SAVES MONEY**

Energy efficient light bulbs use **25%-80% LESS ENERGY\***



**= x3**



and last 2-3 times longer than **traditional incandescent bulbs**

**CO<sub>2</sub>**

More efficient appliances and lights use less electricity, **REDUCING CO<sub>2</sub> EMISSIONS** for a safer climate



As efficient lights and appliances use less energy, electricity is freed up, enabling more people and businesses to **ACCESS RELIABLE POWER**



With **LOWER RUNNING COSTS** for their lights and appliances, **businesses become more competitive**

## The opportunity

Addressing these issues will help create vibrant markets supported by enabling policies and regulations, where suppliers offer quality products and services, and governments have the capacity to enforce standards, while consumers are aware of and are demanding quality energy efficient options.

There are many flow-on benefits from this. The burden on national grids drops, giving more people reliable electricity, while businesses become more competitive, households save, and CO<sub>2</sub> emissions fall.

Energy efficient lights and appliances also offer cheap and reliable options for communities managing decentralized renewable energy systems. As the cost of these systems drop, they are growing in popularity and could be a real solution for the many people currently not connected to national grids.

All of this contributes to faster, cleaner economic and human development across East and Southern Africa.

### Access to energy

Most Sub-Saharan African Countries have some of the world's lowest access rates to clean, affordable and secure energy. Consumers connected to overburdened national grids experience frequent blackouts and brownouts, hampering economic activities and social service delivery.

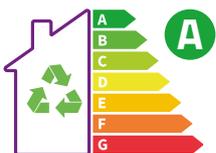
\* [www.energy.gov/energysaver/save-electricity-and-fuel/lighting-choices-save-you-money/how-energy-efficient-light](http://www.energy.gov/energysaver/save-electricity-and-fuel/lighting-choices-save-you-money/how-energy-efficient-light)

## The EELA approach to change

Over five years (2019 – 2024), the EELA project will implement a broad range of activities on energy efficient lighting and appliances in four key areas across the 21 Member countries of the Southern African Development Community (SADC) and the East African Community (EAC).<sup>1</sup>



**MARKET INCENTIVES** will be put in place to stimulate the uptake of energy efficient lighting and appliances. The project will offer supply chain actors technical assistance and financial incentives to deliver efficient and high quality energy services.



**POLICIES AND REGULATIONS** for energy efficient lighting and appliances will be improved through the project, with an eye on making them gender and climate responsive. This will involve developing a regional framework for lighting and harmonised **Minimum Energy Performance Standards (MEPS)** for various product groups. It will also involve addressing environmental issues such as the safe 'end of life' disposal of lighting and appliances, including disassembly and recycling.



**BUILDING THE CAPACITY OF GOVERNMENTS** standards setting and accreditation bodies, as well as testing facilities and the private sector will also be an important part of the programme through workshops, webinars and other events. A network for sharing knowledge within the regions will be established. In particular, the project will offer testing centres support with equipment and capacity building.



**RAISING AWARENESS** about the benefits of efficient technologies amongst market players, policy makers and consumers will be critical. Through the project, public information campaigns using TV, radio, social channels and outreach events will promote the multiple benefits of switching towards energy efficient lights and appliances, addressing women and men equally.

<sup>1</sup> Southern African Development Community (SADC) includes: Angola, Botswana, Democratic Republic of Congo, Lesotho, Malawi, Mozambique, Namibia, South Africa, Eswatini, United Republic of Tanzania, Zambia, and Zimbabwe, being mainland states while Madagascar, Comoros, Mauritius and Seychelles are island states. Meanwhile, the East African Community includes: Burundi, Kenya, Rwanda, South Sudan, the United Republic of Tanzania, and Uganda.

**Minimum energy performance standards (MEPS)** are used by regulators to make sure that products meet certain specified criteria related to energy performance, quality of service and longevity.

They are considered an effective way of encouraging manufacturers and distributors to develop and deliver quality energy efficient products.

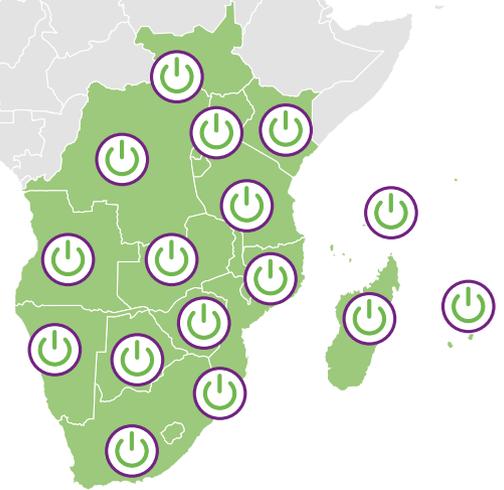
A key element of the EELA project will involve developing and implementing MEPS that are agreed at the regional level.

As lighting products and appliances are traded goods, and as regional energy markets become more integrated, it is critical that countries in East and Southern Africa adopt complimentary standards, regulations and policies such as MEPS.

## The EELA project will be delivered through the Regional Platforms.

The key executing partners are the East African Centre of Excellence for Renewable Energy and Efficiency (EACREEE) and the Southern African Development Community Centre for Renewable Energy and Energy Efficiency (SACREEE). These Platforms will also convene different stakeholders, provide a growing knowledge hub and proactively share information with the private sector and all stakeholders.

Through guidelines, workshops, best practice documentation and other activities, the Platforms will also support national governments and stakeholders to take action in their countries.



## A focus on gender

Women and men are both users and buyers of lighting and appliances. Women are important decision-makers when it comes to household products, and they are also strongly affected by low-quality and inefficient products, which can, for example, impact their health. The energy efficient lighting and appliances market also offers opportunities for women entrepreneurs. To capitalize on this, capacity building and awareness raising activities under EELA will address both women and men equally.

# The multiple benefits of Energy Efficient Lighting and Appliances

Efficient electricity use promotes energy security, which lies at the heart of achieving the regions' economic and human development goals as well as many of the globally agreed Sustainable Development Goals (SDGs). The EELA programme is directly supporting this on many fronts.

## SUSTAINABLE DEVELOPMENT GOALS

### PRIVATE SECTOR SUPPORT

To help ensure better access to energy services across East and Southern Africa, EELA is forging partnerships with key stakeholders and will particularly engage with the private sector to inject new investment and build the capacity of governments and public officials to expand energy services.



### CLIMATE ACTION

EELA contributes to a climate action in many ways such as reducing emission through the widespread use of more energy efficient products, while also limiting the use of substances in inefficient cooling products.



### RESPONSIBLE PRODUCTION AND CONSUMPTION

Through its focus on safe environmental management of products, development of MEPS and promotion of energy management systems by large power users, EELA also supports responsible production and consumption.



### SUSTAINABLE CITIES

By promoting energy efficient street lighting, alongside the use of less electricity to run appliances, EELA supports sustainable cities and communities.





## About us

The EELA project is implemented by the United Nations Industrial Development Organization (UNIDO) and executed with support from the East African Centre of Excellence for Renewable Energy and Efficiency (EACREEE) and the Southern African Development Community Centre for Renewable Energy and Energy Efficiency (SACREEE). Technical support is provided by the Swedish Energy Agency (SEA) and CLASP. The project is funded by the Swedish International Development Corporation (Sida).

### Key stakeholders in the project are:

SADC and EAC and their subsidiary bodies

National Ministries of Energy/ Environment/ Trade and others

Power Pools and Regulatory Associations

Private Sector Associations

Producers and distributors of household and industrial appliances

Private companies offering EE services (i.e. ESCOS)

National Standards Bodies and regional coordination mechanisms

National Accreditation Bodies

National Testing Facilities



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## JOIN US and HELP SWITCH ON THE POWER of

Energy Efficient Lighting and Appliances  
across East and Southern Africa

**#efficiencyswitch**

For further information, visit:

[www.eacreee.org](http://www.eacreee.org) | [www.sacreee.org](http://www.sacreee.org) | [www.unido.org](http://www.unido.org)

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