



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION
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ENERGY EFFICIENCY FOR SUSTAINABLE LIVELIHOODS IN AFRICA (EELA)

Zambia Country Window

BRIEF DESCRIPTION

The EELA Zambia Country Window is part of the overall Program entitled “Energy Efficiency for Sustainable Livelihoods in Africa” – EELA Program in short. The EELA Program seeks to promote inclusive and sustainable economic growth in Africa through integrated energy efficiency interventions. It focuses on transforming markets towards high-performing, affordable, and energy-efficient appliances, increasing energy efficiency investments in the industrial sector and promotes sustainable local value chains for energy-efficient products and services. It supports the set-up of a One-stop-shop Industry Clean Tech Platform linked with de-risking instruments at the national Industry Associations and promotes cooperation with high quality international tech providers. The program includes regional interventions in the ECOWAS, EAC and SADC regions through the EELA Regional project as well as multiple EELA Country Windows such as the

EELA KENYA Country Window, the EELA ZAMBIA Country Window and the EELA ZIMBABWE Country Window.

The EELA Zambia Country Window aims to stimulate inclusive and sustainable economic growth in the country through an integrated Energy Efficiency (EE) project targeting the accelerated uptake of EE lighting and appliances, linked to the Energy Efficiency for Sustainable Livelihoods in Africa (EELA), as well as targeting investment in the low-carbon transformation of the industrial sector and in local value chains, e-waste management and related capacity building and awareness raising. As Zambia pursues universal access to affordable, reliable and modern energy services by 2030, incorporating EE initiatives is critical to achieving this goal. EE emerges as a cost-effective solution to curbing demand growth, improving electricity access rates and enhancing affordability, particularly in the industrial and residential sectors, which account for the largest portion of energy usage in Zambia. The project addresses challenges related to increasing



electricity demand, appliance life cycles, local value chains and environmental degradation caused by inefficient energy practices. The EELA Zambia project is part of a programmatic approach including the regional EELA project and multiple country windows, with EELA Zambia as a “country window”, following the example of the EELA country projects in Kenya and Zimbabwe.

The development impact of the EELA Program is to contribute to **poverty reduction** through improved access to sustainable energy for women and men, girls and boys, and to mitigate negative externalities of the energy system. EELA interventions aim to result in accelerating the demand and uptake of **high-quality energy-efficient products, services and industrial equipment**. This will result in a reduction of household expenditures and energy costs for businesses, enhancing the competitiveness of industries while reducing their carbon footprint. The program targets the **enhanced uptake of productive use equipment to improve livelihoods and reduce post-harvest losses** through high performing and energy efficient on and off-grid cooling and agro-processing equipment. Particular focus is placed on the implementation of various **innovative business models, offering cooling, lighting and broader energy as a service**. This is premised on the assumption that energy efficiency is one of the quickest and cheapest ways to accelerate sustainable development in these growing regions.

KEY EXPECTED OUTCOMES FROM THE PROJECT

OUTCOME 1 - THE UPTAKE OF EE APPLIANCES IN ZAMBIA HAS INCREASED THROUGH NATIONAL POLICY AND CAPACITY BUILDING INTERVENTIONS AS WELL AS PRIVATE SECTOR DEVELOPMENT, LINKED TO THE REGIONAL EELA PROJECT

The project will leverage the groundwork laid by the regional Sida-funded EELA project with the aim to significantly increase the adoption of EE appliances in Zambia, thereby reducing poverty and mitigating adverse environmental impacts associated with inefficient appliances. Support will be provided to improve the policy and regulatory framework through the adoption and enforcement of Minimum Energy Performance Standards (MEPS), to strengthen the capacity of key market actors, and to enhance private sector investments with a particular focus on the development of the ESCO market in the country.

Further, the project will focus on enhancing awareness and facilitating communication regarding EE initiatives in Zambia. With a gender-responsive approach, a comprehensive strategy outlining various outreach approaches, communication methods and campaign themes will be developed and implemented. Through activities such as social media presence, media templates and roundtable meetings with stakeholders, the project will engage diverse audiences to understand the benefits of EE, MEPS, labels, and Productive Use of Energy (PUE) appliances. Additionally, annual EE conferences



will be organized to promote networking and match-making among stakeholders from the energy supply, industry demand and financial sectors.

OUTCOME 2 - A PRIVATE SECTOR INDUSTRY CLEAN TECH PLATFORM (ICTP) IS SET UP TO ACCELERATE INVESTMENTS IN THE LOW-CARBON TRANSFORMATION OF THE INDUSTRIAL SECTOR

The replicable and scalable ICTP will serve as a platform for identifying and promoting clean technology solutions within the industrial sector, focusing on high impact industries such as agro-industry, mining, manufacturing, energy and water. This will be achieved by supporting industries in the introduction of energy management systems, identifying their investment needs and facilitating access to suitable technology and service providers. The ICTP aims to provide a one-stop shop for industrial enterprises to access key sectorial information, datasets, technology suppliers, financing opportunities, and other support services, including training. Its goal is to stimulate economic growth, job creation, and environmental sustainability while reducing the overall impact on the surrounding environment.

OUTCOME 3 – SKILLS FOR REPAIR, MAINTENANCE AND END-OF-LIFE TREATMENT OF ENERGY-EFFICIENT EQUIPMENT ARE ENHANCED IN ZAMBIA WITH A SPECIAL FOCUS ON E-WASTE MANAGEMENT

EELA ZAMBIA also addresses waste management aspects of energy equipment and aims to enhance access to

services for the repair and maintenance of energy-efficient equipment. Particularly in rural areas, where access to services for maintenance and repair is limited, the project will enhance the skills of local entrepreneurs who offer services to households and businesses by providing training in collaboration with local TVET institutions. A pilot for the introduction of digital solutions such as Virtual Reality applications will be implemented to enable a widespread offer of these training programs through a blended approach. By empowering communities with the skills to effectively manage off-grid equipment effectively and establish mechanisms for proper end-of-life disposal of appliances, the project seeks to extend equipment lifespan, reduce waste generation, and promote resource conservation and environmental responsibility.

THE PROJECT GENERAL INFORMATION

BUDGET: 5.299 Million EUR

PROJECT DURATION: 4 years

IMPLEMENTING AGENCY: UNIDO

KEY NATIONAL COUNTERPARTS:

Ministry of Energy (MOE), Ministry Commerce, Trade and Industry (MCTI), Zambia Bureau of Standards (ZABS), Zambia Association of Manufacturers (ZAM)

IMPLEMENTING PARTNERS:

GloFin Advisory AB, Swedish Energy Agency, SACREEE, CLASP, ZAM





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