

EACREEE'S ON-GOING AND PROPOSED PROGRAMMES IN CLOSING REGIONAL ENERGY ISSUES

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Introduction

The East African Centre of Excellence for Renewable Energy and Energy Efficiency (EACREEE) is an EAC regional platform for collaboration on RE&EE initiatives.

It is mandated by the EAC Council of Ministers to coordinate development of renewable energy and energy efficiency at regional level through policies, capacity building, research and development and investment promotions.

It reports to the EAC Sectoral Council on Energy (energy ministers) through the Steering Committee comprising of energy PSs.

SITUATION IN EAC REGION

Some of key success indicators

- a) **Increasing understanding of the importance of using and developing environmentally-friendly products**
- b) **Technological advancement in RE&EE has come with a lot of benefits**
 - i. **Functional,**
 - ii. **energy saving,**
 - iii. **environmental.**

Some of existing Challenges

- a) **Lack of awareness and information regarding equipment performance and operating costs among players and users**
- b) **Limited capacity in implementation of RE&EE projects**
- c) **Inability to check the entrance of low-quality products by authority**
- d) **Lack of appropriate Energy Efficiency incentives and regulations**



Key areas of intervention

The region has recorded a number of achievements although some challenges are still to be addressed.

- a) Capacity building to technicians, consumers, resellers and even regulators**
- b) Policy and regulations to properly address RE&EE and gender integration in RE&EE**
- c) Acceleration of governments and non-state actors to do more to reach the SDGs and Paris Agreement**

EACREEE's Programmes

- a) **EACREEE in collaboration with ADA and UNECA are prepared to roll out an initiative to develop a regional Energy Efficiency strategy.**

This will involve the review of existing energy efficiency strategies in the region and identify the best practices and gaps and development of a coherent EAC Energy Efficiency Strategy based on best practices identified from within and outside the region.

- a) **With Support from SIDA, EACREEE and SACREEE are rolling out a project on EELA across the two regions.**

The project aims at market transformation for energy efficient lighting and appliances including the support of national Code of Conduct Programs and the exchange among the Member States. One of the critical outputs of the EELA program is the development of regionally harmonized Minimum Energy Performance Standards (MEPS) for lighting and appliances for both SADC and EAC.

EACREEE's Programmes (2)

c) Capacity Building on Design, Installation, Operation and Maintenance of Small Hydro Power (SHP) in East Africa

This is in line with the recommendations of the Advanced Scoping for Technical Capacity Building on Small Hydropower in East Africa, which was released in July 2015.

The main objective of this project is to provide competence in specialized aspect of resource assessment, plant installation, operation and maintenance of small hydropower stations/plants in efforts increase their life and performance efficiency.

d) Establishment of a Net-Zero And Ultra-Low Energy Centre of Excellence Building for the East Africa Centre for Renewable Energy and Energy Efficiency (EACREEE)

This project is aimed at supporting EACREEE's mission to promote access to affordable, reliable, and sustainable energy for the development of sustainable economies, as it advances and strengthens productive capacities that promote socio-economic development in an environmentally sound manner.

The main objective of this project is to develop a Net-zero and Ultra-Low Energy Building Centre of Excellence for EACREEE to contribute to increased awareness, build capacity and adoption of modern energy buildings that generates most of its energy from renewable energy created on the site and contribute less overall greenhouse gas emission to the atmosphere.



EACREEE's Programmes (3)

e) EAC Renewable Energy and Energy Efficiency Observatory

This project aims at harnessing the spatial data collection, analysis and visualization capabilities by building a geo-visualization platform for renewable energy projects and research in the region.

f) Establishment of East African Solar PV Academy and Certification System

The objective is to increase uptake of solar PV systems as a means toward achievement of sustainable energy for all. The project aims at creating a critical mass of certified experts in design, installation and maintenance of solar PV systems.

EACREEE's Programmes (4)

7. Developing Sustainable Energy Systems in East African Cities

The main objective of this programme is to support the East African Cities to achieve universal access to sustainable energy through building capacity for sustainable energy planning, optimizing energy consumption and exploiting available renewable energy sources within the cities in order to increase access to clean energy while minimizing greenhouse gas emissions in cities.

- The programme is expected to;
 - i. support East African Cities in development and are implementation of Sustainable Energy Action Plans,
 - ii. promote energy efficiency and conservation in the built environments,
 - iii. promote incorporation of self-sustainable energy generation in the design and construction buildings and other facilities in EAC cities,
 - iv. encourage generating energy (electricity, biogas, etc) from municipal wastes, and,
 - v. support development of a facility for green financing for project development and risk mitigation.

EACREEE's Programmes (5)

h) Accelerating Industrial Energy Efficiency in the EAC Partner States

Energy efficiency improvements in the manufacturing industries can be achieved through improved equipment and process design and the adoption of energy management systems and practices. The objective of this project is to enhance competitiveness of manufacturing industries in the East African Community (EAC) Partner States while reducing GHG emissions by improving and harmonizing national policies and regulatory frameworks and institutional capacity building for industrial energy efficiency and the implementation of energy management system.

This proposed project seeks to

- i. support harmonization of national policies and regulatory frameworks, incentive schemes, support programmes,
- ii. develop regional industrial energy management standards, and,
- iii. encourage manufacturing industries in the EAC region to implement innovative energy efficiency measures, including Cogeneration and employment of competent energy managers.

The project will also target to train critical mass of energy management professionals, to increase the awareness among company's managers on importance of proper energy management, establish certification systems for energy managers, and develop a framework and guidelines for employment of qualified energy managers by large energy consumers.

Thank You

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