



CTCN
CLIMATE TECHNOLOGY
CENTRE & NETWORK

CTCN Regional Forum for Africa

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Years



**BOTSWANA, LESOTHO, MALAWI, MOZAMBIQUE,
NAMIBIA, SOUTH AFRICA, SWAZILAND, TANZANIA,
ZAMBIA, ZIMBABWE**

**Developing a regional efficient appliance and
equipment strategy in Southern Africa**



REGIONAL APPROACH

About the Project

Phase 1 – Market Research

Key Focus:

- Lighting
- Refrigerators
- Air-conditioning
- Motors
- Transformers

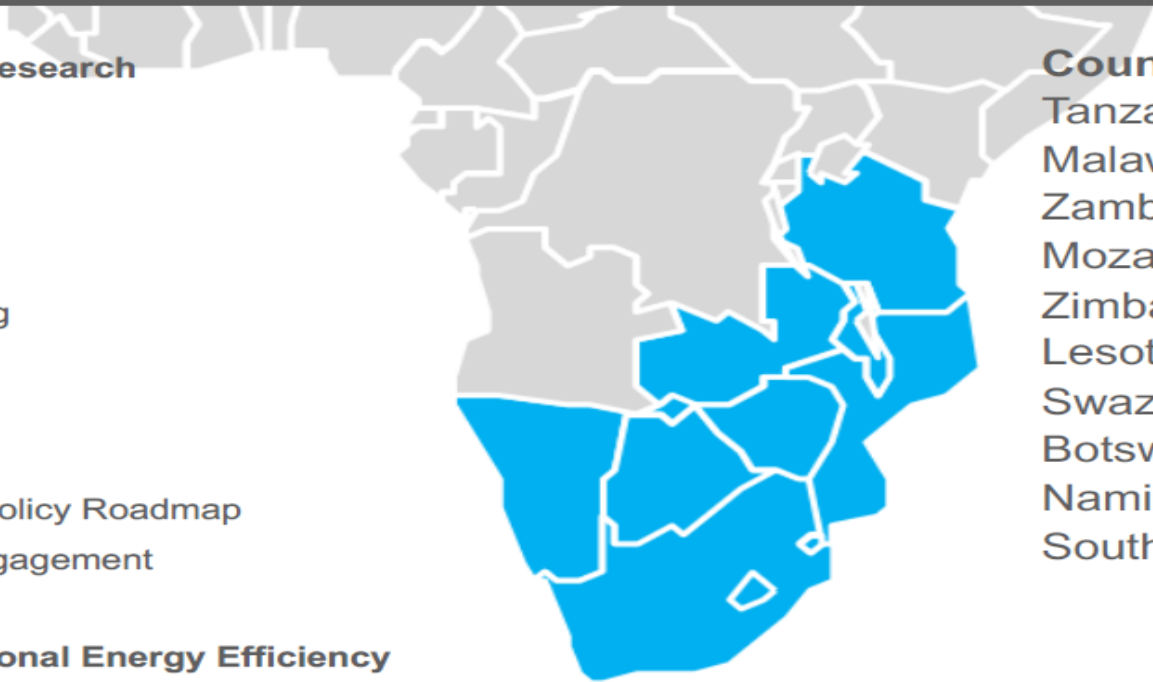
Phase 2: Regional Policy Roadmap

Phase 3: Funder Engagement

Ultimate goal: Regional Energy Efficiency

Countries

Tanzania
Malawi
Zambia
Mozambique
Zimbabwe
Lesotho
Swaziland
Botswana
Namibia
South Africa



Partners:



Projected Regional Savings by 2025

Appliance/Equipment	MEPS	BAT
Lighting	12690 GWh	22373 GWh
ACs	285 GWh	551 GWh
Refrigerators	1539 GWh	2188 GWh
Motors	1353 GWh	1964 GWh
Transformers	3331 GWh	5515 GWh

CTCN and GCF – Multi country Request

Six countries from Southern Africa already confirmed.

Target Appliance : ACs and Distribution Transformers

- Namibia
- Zimbabwe
- Zambia
- Tanzania
- Eswatini
- Lesotho

Terms of Reference

1. Detailed market assessment
2. Analysis of different testing standards and protocol which exists – advantage and disadvantage from the country context
3. Analysis of the MEPS in the region (linkages with market assessment)
4. Network of testing labs ; Identification of labs (linkage with 1) ; Model call for registration of testing labs by the local government
 1. Proposal for capacity augmentation of any local standard body or lab; feasibility assessment of business model.
5. Capacity building of Custom Officials – Design of declaration template in line of import declaration
 1. Design of registry system of appliances imported which are MEPS complaint
6. Development of fiscal incentives and policies –
 1. Model notification for public procurement of MEPS cleared equipment.
7. Outline of proposal of model recycling center and its business plan for bringing in Circularity.

Geo Thermal – Direct Use Application

Countries

- Ethiopia
- Rwanda
- Uganda
- Djibouti
- Tanzania

Probable Activities:

- Review of the existing direct uses for geothermal energy and Preliminary assessment on the scope for direct use potential
- Identification of different applicant opportunities given economic development plans in the locality; agriculture, fish drying etc.
- Market potential
- Non traditional uses

Future 1 : Framework of Industrial Energy Efficiency Regulations (IEER)

KENYA has already submitted

Objectives:

- To develop a harmonized framework of regulations leading to continual adoption and reporting thereof on implementation of energy efficient technologies and practices in industrial sectors of the economy.
- To suggest institutional set up under the regulatory framework to monitor and report on the activities towards the compliance of the regulations under the proposed framework.

- Review existing data on sector wise energy consumption in industries of each SADC countries. Identify any existing regulations or policies promoting industrial growth regulating energy use in these sectors by respective countries.
- Develop a methodology to identify and classify the industrial sectors and specific industries to come under the purview of the framework of the IEER. (Designated Industries)
- Develop the framework of IEER which broadly would encompass the following:
 - Appointment of Energy Manager in the Designated Industries.
 - Manner and Interval of Time for Conduct of Energy Audit in Designated Industries, including templates for reporting data, energy audit reports and compliance reports.
 - Minimum Qualification for Energy Auditor and Manager including necessary experience in the field.

ToR continued.....

- Certification Procedures for Energy Auditors and Energy Managers through conduct of assessments examination, syllabus, registration etc.
- Development of training modules, model question banks and training of the trainer programme.
- Qualifications, Criteria and Conditions Subject to Which A Person May be Accredited as An Energy Auditor and The Procedure for Such Accreditation and Maintenance of their List.
- Form and Manner and Time for Furnishing Information regarding Energy Consumed and Action Taken on Recommendations of Accredited Energy Auditor.
- Proposed Institutional structure and its role and responsibilities to coordinate and implement the activities under the IEER framework.

Future 2 : PV Module standards and Lab testing Facilities

- Reliability and quality key for growth of renewable energy
 - Plenty of case studies where poor quality products handed off to the developing world have led to failures, discouraging growth of new PV renewable energy technologies

Proposed Activities

- Development of standards
- Assessment of National Lab
- Development of a gap-based implementation plan
- Testing and certification lab setup assistance
- Development of work procedures for standard test
- Advising pre-standard tests and special tests for the Algeria environment
- Practically-oriented training of national staff at model labs.
- Technical training and pilot run of tests at with model lab staff



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ED IL TUTELA DEL TERRITORIO E DEL MARE



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on the basis of a decision
by the German Bundestag