Climate Technology Centre and Network of the UNFCCC -

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To promote the accelerated development and transfer of climate technologies at the request of developing countries for energy-efficient, low-carbon and climate-resilient development
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

<table>
<thead>
<tr>
<th>Appliance/Equipment</th>
<th>MEPS</th>
<th>BAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lighting</td>
<td>12690 GWh</td>
<td>22373 GWh</td>
</tr>
<tr>
<td>ACs</td>
<td>285 GWh</td>
<td>551 GWh</td>
</tr>
<tr>
<td>Refrigerators</td>
<td>1539 GWh</td>
<td>2188 GWh</td>
</tr>
<tr>
<td>Motors</td>
<td>1353 GWh</td>
<td>1964 GWh</td>
</tr>
<tr>
<td>Transformers</td>
<td>3331 GWh</td>
<td>5515 GWh</td>
</tr>
</tbody>
</table>
Results: Regional Context

Projected energy savings in TWh

Projected savings as percentage of current regional electricity consumption

Electricity Consumption
Global – 24,000 TWh per annum
10 Countries – 260 TWh per annum combined (0.1% of global consumption)

<table>
<thead>
<tr>
<th></th>
<th>GWh Savings: 2025</th>
<th>GWh Savings: 2030</th>
</tr>
</thead>
<tbody>
<tr>
<td>DNVGL MEPS</td>
<td>19198</td>
<td>24536</td>
</tr>
<tr>
<td>DNVGL BAT</td>
<td>32592</td>
<td>45347</td>
</tr>
<tr>
<td>U4E Target</td>
<td>23068</td>
<td>34024</td>
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</tbody>
</table>
Cooperation between the Financial (GCF) and Technology (CTCN) Mechanisms of the UNFCCC

COP
Mechanisms: Established in 2010 Operational in 2014
Mandated to collaborate to support Means of Implementation

NDA
Invited to use GCF funds for TNAs and TAPs
Encouraged to collaborate with NDE

Countries
Invited to base GCF proposals on TNA and CTCN TA
Invited to use GCF readiness and PPF for CTCN TA implementation
Framework of Industrial Energy Efficiency Regulations (IEER) in SADC region

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.
Terms of Reference/ Activities

• 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.
  • Certification Procedures for Energy Auditors and Energy Managers through conduct of assessments examination, syllabus, registration etc.
  • 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.
Thank you