The African Development Bank (AfDB)

IN COLLABORATION WITH
The ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE)
The SADC Centre for Renewable Energy and Energy Efficiency (SACREEE)
The East African Centre of Excellence for Renewable Energy and Efficiency (EACREEE)
and
United for Efficiency (U4E)
The Association of Power Utilities of Africa (APUA)

Energy Efficiency Appliances & On-Bill Financing Virtual Workshop

Interactive Webinar, Date: 29th July 2021

Link to register and connect:
https://afdb.zoom.us/meeting/register/tJwtdO2vqj0iHtXJfTalS-3nU1AYcdpYILMj
Background

Energy efficiency (EE) as a least-cost energy resource is crucial for the creation of resilient and affordable energy systems in Sub-Saharan Africa, where electricity demand is expected to more than triple by 2040. Integrating EE into power sector planning brings multiple benefits including improved climate change resilience, industrial productivity, reduced fuel import bills, increased energy security, delaying or deferring costly system upgrades, and various other macroeconomic benefits. Despite these benefits, the level of “readiness” for EE interventions is low in most regional member countries (RMCs). The limited uptake of EE opportunities in the RMCs is due to many barriers, one of which is the insufficient attention given to EE investments opportunities by stakeholders in both the private and public sectors. As part of their efforts to address the barriers, most RMCs have created specialized entities responsible for developing the EE sector in their country.

However, the RMCs are not making the same progress in the EE field, as revealed by the RISE 2020 EE Index.¹ For instance, countries such as Kenya, Tunisia, and South Africa have the highest scores of Africa and are in the green zone, while 17 out of 35 Sub-Saharan African countries, covered under the RISE 2020 index, are in the red zone.

Sustainable market transformation for high energy efficient appliances and equipment across the different economic sectors is a key area of improvement for most economies in Africa. Most of the existing stock of appliances and equipment (lighting, cooling appliances, electric motors, fans, TVs, electric water heaters, cook stoves, etc.) are old and inefficient and significantly contribute to national energy consumption and electricity peak demand and hence need to be replaced with high energy efficient units. Moreover, it is expected that the demand for these appliances and equipment will continue to increase in the residential and public sectors as well as in the other sectors of the economy, as the population and economy continue to grow at a fast pace in those countries.

As part of its efforts to support its regional member countries (RMCs) in improving EE across their economic sectors, the AfDB, in collaboration with the regional sustainable energy centers², the Association of Power Utilities of Africa (APUA) and United for Efficiency (U4E) is organizing a series of three workshops to be held in July and August 2021. This concept note is related to the second workshop which discusses energy efficient appliances and equipment as well as good practice tools, especially on-bill financing (OBF) and Minimum Energy Performance Standards (MEPS) and energy labelling, to accelerate their market penetration. The first workshop of the series was held on July 13th, 2021 and discussed eco-efficient power distribution transformers in Africa. The third workshop³ will focus on energy service companies (ESCOs) and the Super ESCO concept as an innovative and sustainable tool to scale up investments in energy efficiency projects in the public and private sectors.

¹ The Regulatory Indicators for Sustainable Energy (RISE) classifies countries into a green zone of strong performers in the top third, a yellow zone of middling performers, and a red zone of weak performers in the bottom third.
² They are the: (i) East African Centre for Renewable Energy and Energy Efficiency (EACREEE); (ii) ECOWAS Center for Renewable Energy and Energy Efficiency (ECREEE), (iii) SADC Centre for Renewable Energy and Energy Efficiency (SACREEE)
³ The date is to be determined.
Objective of this second Workshop

The objective of this workshop is to: (i) facilitate sharing of experience and successful stories on development and implementation of sustainable and innovative mechanisms to accelerate market transformation, and (ii) provide regional and national entity representatives with information on different venues to seek means and support for market transformation programs and projects, to help African countries leapfrog to super energy efficient appliances and equipment. The Specific objectives of the workshop are described hereafter:

- Learn about current financial and policy incentives as well as implementation arrangements to support adoption of high energy efficient appliances and equipment.
- Provide a discussion platform that allows interaction among participants and exchange of experience not only on tools and best practice, especially OBF, for energy efficient appliance and equipment dissemination, but also on how these tools and best practices can be adapted and/or replicated in the participants’ countries,
- Allow participants to discuss successful EE market transformation programmes in Africa and elsewhere and to learn from the experience of decision makers and EE Agencies in implementing these programmes,
- Understand the development and utilization of good-practice Model Regulation Guidelines developed by the U4E to help accelerate market transformation of energy-efficient and climate friendly EE technologies in developing countries. These regulations cover measures for Minimum Energy Performance Standards (MEPS) and Labels, monitoring, verification, and enforcement (MVE) international best practices (monitoring, verification, and enforcement) and financial mechanisms.
- Discuss the opportunities and means for a long-term national/regional programme in the African regions on the market transformation for appliances and equipment.
- Discuss and prepare for the design and future implementation of a national/regional market transformation programmes for high energy efficient appliances and equipment in the African regions.

Participation

The workshop sessions are designed for the following sector participants:

- Ministries of Energy,
- National EE Agencies and utility companies,
- African Association of EE Agencies (AFRENER4 in French) Standards Organisation bodies,
- The regional economic communities (ECOWAS, SADEC, ECCAS, EAC, etc.),
- Regional Electricity Regulatory Authorities (ERERA, RERA, etc.),
- Regional Power Pools (EAPP, SAPP, WAPP, etc.)

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4 AFRENER : Association Africaine des Institutions en charge de la Maîtrise de l’Energie
**Workshop Agenda**

The workshop has been designed to meet the objectives mentioned above and will last three hours. The agenda of the workshop is shown in the table below.

<table>
<thead>
<tr>
<th>Slot #</th>
<th>Starting time</th>
<th>Topic</th>
<th>Speakers</th>
<th>Duration (including Q&amp;A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10:00</td>
<td>Welcome to event. Introduction of the agenda and participants.</td>
<td>AfDB</td>
<td>10 min</td>
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<tr>
<td>2</td>
<td>10:10</td>
<td>Presentation of regional programs and policies for dissemination of energy efficient appliances and equipment (MEPS and energy labelling, market potential, Impact…)</td>
<td>ECREEE, SACREEE/EACREEE</td>
<td>20 min</td>
</tr>
<tr>
<td>3</td>
<td>10:30</td>
<td>The Energy Efficient Lighting and Appliances in East and Southern Africa (EELA) Project</td>
<td>SACREEE</td>
<td>15 min</td>
</tr>
<tr>
<td>4</td>
<td>10:45</td>
<td>Model regulation guidelines to accelerate dissemination of energy efficient and climate friendly appliances and equipment</td>
<td>U4E</td>
<td>15 min</td>
</tr>
<tr>
<td>5</td>
<td>11:15</td>
<td>Implementation of Solar Water Heater program through on-bill financing</td>
<td>ANME - Tunisia</td>
<td>15 min</td>
</tr>
<tr>
<td>6</td>
<td>11:30</td>
<td>Implementation of efficient refrigerator program through on-bill financing</td>
<td>AEME - Senegal</td>
<td>15 min</td>
</tr>
<tr>
<td>7</td>
<td>11:45</td>
<td>Implementation of efficient refrigerator program through on-wage financing</td>
<td>Energy Commission, Ghana</td>
<td>15 min</td>
</tr>
<tr>
<td>8</td>
<td>12:00</td>
<td>Implementation of efficient appliances program through on-bill financing</td>
<td>SANEDI - South Africa</td>
<td>15 min</td>
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<tr>
<td>9</td>
<td>12:15</td>
<td>Rwanda on-bill financing experience</td>
<td>U4E – Rwanda</td>
<td>15 min</td>
</tr>
<tr>
<td>10</td>
<td>12:30</td>
<td>Q&amp;A session</td>
<td></td>
<td>30 min</td>
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<tr>
<td>11</td>
<td>13:00</td>
<td>RMCs specific request for EE appliances programs support</td>
<td></td>
<td>10 min</td>
</tr>
<tr>
<td>12</td>
<td>13:10</td>
<td>Closure Workshop: final recommendations and conclusions.</td>
<td>AFREC/AfDB/U4E/A PUE/ECREEE/SAC REEE/EACREEE</td>
<td>5 min</td>
</tr>
</tbody>
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Total | 190 min |