

1st AFREC Energy Efficiency Seminar (EES)

THEME: "Energy Efficiency, Implementation tool for SDG7"

1-2 October 2018

Convention Center - Kigali, RWANDA



REPORT OF THE SEMINAR

Of the 1st AFREC Seminar on Energy Efficiency (SEE)

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INTRODUCTION

The African Energy Commission (AFREC) in collaboration with the International Energy Agency (IEA) and the Ministry of Energy and Water of the Republic of RWANDA, organized its 1st Seminar on Energy Efficiency, with as a THEME: "Energy Efficiency, **SDG7** implementation tool".

The Seminar was held on October 1 and 2, 2018 at the Radisson Blu Hotel Convention Center in Kigali.

The African Energy Commission (AFREC) is an organ of the African Union charged with ensuring, coordinating and harmonizing the protection, conservation, development, rational exploitation, commercialization and integration of energy resources in Africa. AFREC was created in July 2001 in Lusaka by the Honorable African Presidents and hosted by the People's Democratic Republic of Algeria and was officially launched on February 17, 2008 in Algiers, after a conference of African Ministers of Energy.

AFREC is mandated by its convention to "Design, create and set up a continental energy database and facilitate the rapid dissemination and exchange of information between Member States and among the regional economic communities (RECs).

THE IMPORTANCE AND THE ROLE OF ENERGY EFFICIENCY

Energy efficiency is the key to ensuring a safe, reliable, affordable and sustainable energy system for the future. It is the least expensive means to solve energy security, environmental and economic problems.

While energy efficiency policies are becoming a key element of the global energy market, there remains a vast untapped potential and AFREC in close collaboration with the IEA are working to implement efficiency measures.

Given that 560 million people in sub-Saharan Africa do not have access to modern energy, African countries need to expand electricity production and access if they want to reduce poverty. The trick is that they will have to do it in a climate-smart way and that's where energy efficiency is important.

The World Bank's Diagnostic Infrastructure Study for Africa found that Africa's food problems and the implementation of regional trade will require \$ 41 billion a year, but also noted that Electricity service reform to reduce inefficiencies could save US \$ 3.3 billion a year. There is a lot of money to save because of energy efficiency.

THE SEMINAR

The Seminar brought together 34 participants and 04 officials of AFREC (organizers of the seminar):

- (10) - AFREC's Partner Organizations,
 - o (WAPP, PEAC, EACREEE, NEPAD, ECAAS, RECREEE, EAPP, ECREEE, AfDB, SAPP,)
- (01) -The representative of the IEA,
- (01) -The AFREC Consultant,
- (01) -The Representative of the African Union Commission/ Department of Energy
- (01) -The President of AFSEC,
- (15) - The National Focal Points of AFREC "Energy Efficiency",
- (04) - The staff of AFREC "organizer of the Seminar":
 - Marzouk Atef, Interim Executive Director,
 - Abdoulaye Oueddo, Consultant in Energy Information System,
 - Nicaise Nna Ndong Olui, Financial / Director,
 - Baya Souki-Kieffer, Secretary to the Executive Director.

SEMINAR OBJECTIVE

The seminar aims at:

1. Sensitizing Policy Makers and African Engineers on the opportunities and benefits of Energy Efficiency to understand and learn about smart grid technologies and what they can offer.
2. Promoting the role of Energy Efficiency in Energy Economies and how to achieve the goal of increasing access to energy and reducing energy poverty.
3. Improving the understanding of the Senior Officials of African Member States of the importance of Energy Efficiency and its impact on the socio-economic development of their country.
3. Providing a general idea of the current situation of African Energy Efficiency.
4. Facilitating access to energy data at National Focal Points, appointed by their Ministries in Charge of Energy.

OUTCOME

The seminar provides recommendations for concrete proposals to strengthen synergies between National, Regional and Continental actors and cooperation with international partners for the effective application of smart grid technologies for electrification and economic development in Africa.

SEMINAR'S RECOMMENDATIONS

- **R¹** It is recommended to involve countries in Energy Efficiency to develop and implement projects and programs in Energy Efficiency and Renewable Energy.
- **R²** It is recommended to support Governments to help them develop and improve their Energy Programs. It is necessary to target capacity building to enable trained people to develop and implement the right activities and programs that will meet the expectations.
- **R³** It is recommended to impact energy projects and submit them to decision makers with the right arguments. The evaluation and the monitoring of energy efficiency projects are important in measuring project performance and providing the necessary actions to improve performance.
- **R⁴** It is recommended to promote the experiences of successful projects, challenges and good practices in the development and implementation of Energy Efficiency projects.
- **R⁵** It is recommended that AFREC develops a strategy to further improve the capacities of African Experts to enable them to be more effective in data analysis and project development.
- **R⁶** It is recommended to avoid the unavailability of information in some Sectors / Countries. The level of detail and the accuracy of the information are very important for setting up targeted activities and programs.
- **R⁷** It is important to know that energy efficiency expectations can only be possible through the implementation of formalization and standardization programs, which is very important for the realization of energy efficiency in AFRICA.
- **R⁸** It is recommended to reduce losses to acceptable levels. Each economic region must make its master plan and set targets at that level and must find the optimal connection and detect the line of losses in transmission.
- **R⁹** It is recommended to pay particular attention to the standards of the equipment used by different distribution companies and for energy efficiency and losses that depend on the type of equipment used should be avoided at all costs. The used equipment must be certified before use. Technology faces this problem of energy losses by focusing on the benefits offered by smart grids.

- **R¹⁰** It is recommended to create the energy market in order to make current available at an affordable price. It is also necessary to have delegates within each Center, to establish a long-term plan of action and to adopt the energy sectors through which data must be provided with clear definitions for their accuracy. AFRICA needs a Clean Energy Policy, so it is necessary to set up clean energy centers. For this purpose, it would be necessary to work on sustainable energy policies with knowledge management and promotion to obtain funding.
- **R¹¹** It is recommended to work on the standards for Energy Efficiency and to integrate building guidelines and building codes at the country level to meet the required standards and that countries use the Certification at ISO 5001 in order to achieve expected targets, by 2030.
- **R¹²** It is recommended that AFREC, AfDB and National Focal Points encourage Ministries to set up the Energy Information System and the database and allocate a budget line.
- **R¹³** It is recommended that National Focal Points always seek to persevere further to fulfill their role in collecting data effectively in order to present clear / accurate and timely data to AFREC.
- **R¹⁴** It is recommended that countries have similar terms and meanings in use, since when there is a lack of harmonization in the definitions, the risk of combining and comparing dissimilar data would lead to errors and to misinformation. This leads to the planning and implementation of energy efficiency interventions. It is therefore very necessary to have clear and harmonized definitions for indicators facilitating assimilation.
- **R¹⁵** It is recommended that AFREC establish a guideline for some member countries, depending on the countries experienced in energy efficiency indicators for each sector. It should be noted that AFREC has created a valuable educational tool for existing data.
- **R¹⁶** It is recommended that the highest authorities of Member States make decisions to enable their National Focal Points to fulfill their missions by providing them with an easy access to information in their data collection.
- **R¹⁷** It is recommended that AFREC creates the Energy Efficiency Database of the industrial sector in the year 2019.

