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**Regional Training Workshop  
on  
Energy Statistics and Residential Sector Energy Efficiency Data  
Collection and Creation of African:  
Industrial Sector Energy Efficiency Database**

**CONCEPT NOTE**

**Algiers, January 2018**

## INTRODUCTION

In order to tackle challenges, AFREC was mandated by the African Union to create and manage a continental energy database and facilitate rapid dissemination of information and exchange of information among Member States as well as among the Regional Economic Communities (RECs).

To create such a comprehensive system AFREC planned to build it through creation of a series of energy databases of which the “African Energy Statistics Database” (AESD) has already developed, published and disseminated since 2012. Annual and updated editions were published for 2012, to 2017 while the preparation of 2018 edition is underway. With such a success, AFREC decided to move forwards and create additional energy databases which will summarize the energy data for most energy sectors and resources in the continent.

AFREC created in 2017 the second database in this series for Energy Efficiency Indicators Database for Africa focus in Residential sector and the others will follow. In doing so, the African Ministers of Energy appointed energy statisticians in their ministries to fill the role of National Focal Points for data collection and submission to AFREC. In return, AFREC and its partners provided them training and capacity building to improve their capacities in collecting reliable and good data in residential sector with the new questionnaire of Energy Efficiency (Residential sector).

AFREC is planning in 2018 to do the following:

- To create African Industrial Sector Energy Efficiency Database
- To continue collecting residential sector energy efficiency database
- Publish 1<sup>st</sup> Version of African Residential Sector Energy Efficiency Database
- Provide Energy Efficiency Data Collection Training for the Residential sector
- Provide training and capacity building on collecting Energy Statistics database focusing on CO2 emission calculation

## OBJECTIVE

**AFREC is planning in 2018 to organize Four (4) regional training workshops that will focus on the below objectives:**

- The course on Energy Statistic will offer hands-on training in the AFREC methodology and tools for collecting and organizing national-level energy data by different fuels and sectors of the economy. It focuses on creating complete and accurate energy balances and CO2 emission calculation through the use of consistent definitions and units, in order to inform national energy policy and enable consistent international reporting.
- The course on Energy Efficiency will cover all energy end-use in residential sector. It's to provide training and guidance to the AFREC's National Focal Points on how to

collect, validate and transmit the collected indicators data in a way compatible with international common practices in residential sector.

- To Identify the Energy Efficiency Indicators to build the Industry Sector questionnaire.

## **TARGET GROUPS**

The participants will be:

- The AFREC's Focal Points on Energy Statistics (Energy Balance) and Focal Points on Energy Efficiency that was nominated by the African Ministries in-charge of Energy,
- Central, East, North, South and West Africa Power Pool (RPPS),
- Central, East, North, South and West Africa Community Economics Region (RECs).
- East, North, Southern, and West Centers on Renewable Energy and Energy Efficiency

## **TRAINING REQUIREMENTS**

All AFREC's Focal Points are expected to collect data (On Energy Balance and Energy Efficiency in residential sector) of their countries of the last 4 years (2014-2017) using the interactive questionnaire of AFREC. This requirement is mandatory for participation as the data will be used during the training and for setting up the annually Energy statistics and database.

In addition to the data collection, participants are encouraged to collect and submit the following:

- General summary description of the current situation of the energy database in the country including fresh and up-dated information about the situation of each energy sub-sector (biomass, hydrocarbons, electricity, Oil, etc.)
- Any publications, reports, papers, magazines photos of the energy sector. This is required to support the AFREC's office library in which each African country will be having a private section.

## **OUTCOME**

The expected outcome of the workshops would include:

- In-depth training in energy statistics based on exercises on fuel types and construction of national energy balances;
- Calculation of the CO2 Emission;
- Enhance the capacity of the African National Focal Points in Energy Efficiency and indicators data collection in Residential Sector;
- Establishment of the Energy Efficiency Questionnaire in the industrial sector;
- Comprehensive understanding of the present situation of Energy Information System in the Africa and the need for coordination and harmonization of activities of different Institutions;

- Enable participants to comprehend the questionnaire for that data collection and improve their competencies on how to use it;
- Improve the understanding of the higher decision makers in African Member States about the importance of energy efficiency and its impact in the socio-economic development of their countries.

### PROGRAM LANGUAGES

Presentations during the Workshop will be in English or French depending on the Regions. Simultaneous interpretation will be provided in English or French.

### ACCOMMODATION AND LOGISTICS

AFREC will support the participation of the focal points of the AU Member States by covering the participation cost (air tickets and DSA)

### PROVISION PROGRAM

<b>Training and Capacity Building for the Development of African Energy Statistics and Efficiency Database implemented.</b>	<b>Number of Day</b>	<b>Topic</b>	<b>Venue and Date</b>
<b>Regional Training in Energy Statistics and Energy Efficiency</b> <i>West African Region and North Africa(Francophone):</i>	<b>3</b>	<b>ES :</b> Exercise and Presentation on All Energy Source and Construction of Energy Balance and CO2 emission calculation  <b>EE :</b> -Exercise and Presentation on EE focus in residential sector. -Establish the questionnaire of the Industrial sector	27-29 March 2018 in Algiers, Algeria
<b>Regional Training in Energy Statistics and Energy Efficiency</b> <i>East African Region and North Africa (Anglophone):</i>			24-26 April 2018 in Cairo, Egypt
<b>Regional Training in Energy Statistics and Energy Efficiency</b> <i>Central African Region :</i>			Libreville - Gabon 2-4 Oct 2018
<b>Regional Training in Energy Statistics and Energy Efficiency</b> <i>Southern African Region:</i>			Johannesburg South Africa 06-08 Nov 2018