



## Training Workshop Summary

### **2<sup>nd</sup> Regional Training Workshop in Energy Statistics, Energy Data Collection and Construction of Energy Balances for National Focal Points of the Southern African Region and Indian Ocean Community Johannesburg, South Africa: 07-10 October 2013**

#### **Introduction:**

The African Energy Commission (AFREC) in association with the Ministry of Energy of South Africa and the International Energy Agency (IEA) organized training workshop on energy statistics, energy databases and energy balances for the benefit of the AFREC's National Focal Points in Johannesburg, South Africa, on 07-10 October 2013. It took place at the Indaba Hotel in the Sandton area of Johannesburg.

The regional workshop was the second in a series which was preceded by a workshop for Central African Region held in Brazzaville, Congo, on 09-12 September 2013 and will be followed by a workshop for the West African Region to be held in Accra, Ghana, during the first week of November 2013 and another workshop for the Eastern African Region and Northern African Region to be held by the begin of December in Kampala, Uganda.

#### **Objectives:**

The main objectives of the workshop were as follows:

- Provide training to the National Focal Points in energy statistic, data collection, energy balances and improve their capacities in validating the collected data;
- Investigate the features of the new AFREC's Questionnaire for Energy Data Collection in Africa and building competencies of the National Focal Points in its use and management; and
- Capitalize on the knowledge base acquired by the IEA and other regional institutions in energy statistics, energy data collection and analysis including formation of energy balances, validation techniques of the collected data and structures and layouts of energy databases.

#### **Participants:**

The training was organized under the framework of the Creation of the African Energy Information System and Database (AEIS) and was devoted to the AFREC's National Focal Points in the member countries of the Southern African Region and Indian Ocean Community.

National Focal Points from South Africa, Angola, Comoros, Mauritius, Madagascar, Mozambique, Namibia, Seychelles and Swaziland attended while the Focal Point of the Botswana, Malawi, Lesotho, Zambia and Zimbabwe did not.



### **Training Staff:**

The training was led by two experts from the IEA: Ms. Agnes SIN and Mr. Emmanouil CHRISTINAKIS assisted by two Consultants from AFREC: Mr. Abdoulaye OUEDDO and NZOBADILA Gilbert. The whole program was supervised by Ms BAYA KEIFFER, Assistant of the Executive Director of AFREC.

### **The Opening Ceremony:**

The opening ceremony was addressed by Mr. Helton Xavier, Focal point of Mozambique, on behalf of the Executive Director of AFREC, during which he thanked Mr. Bongani MOTSA from the Department of Energy, Energy Planning Division, as a representative of the Minister of Energy, South Africa. He was followed by Ms. Agnes SIN of the IEA who stressed on the strong interest of the IEA and support to create a successful and viable energy database and African Information System. She pledged the continued support of his agency in this regard.

The last item on the agenda was a group photo.

### **The Workshop:**

After the opening ceremony, the workshop started by Session 1 in which Mr. Abdoulaye OUEDDO Consultant of AFREC, presented activities undertaken in 2012 and Summary of Activities in 2013/2014.

The next session overviewed the State of Energy Data Collection in each country in the region presented by the National Focal Points with objective to evaluate the current situation of the collection of the data.

The training provided by IEA started in the afternoon of the first day and continued to the first session of the third day and covered the following topics:

- Introduction to National and International Energy Statistics.
- Oil Statistics through the Revised AFREC Questionnaire: Oil Analysis.
- Coal Statistics through the study of the revised AFREC coal questionnaire
- Natural Gas and Statistics of Coal through the Revised AFREC Questionnaire.
- Statistics of Renewable Energy through the Analysis through the Revised AFREC Questionnaire;
- Statistics of Electricity through the Revised AFREC Questionnaire on electricity.
- Preparation of Energy Balances: Why Establish an Energy Balance?



The rest of the sessions in the third day presented by Mr. Abdoulaye OUEDDO, covered the:

- AFREC Database.
- The AFREC web Portal.

### **The Outcome:**

The training workshop was successful in the sense that it improved the competence of the National Focal Points in the region to collect energy data of their respective countries in a good and sustained manner and will also help them to expand their understanding of energy statistics, databases and energy balances. The training revolved between presentations and exercises in building energy balances for oil, gas, electricity, coal and biomass.

**List of Participants at the AFREC 2<sup>nd</sup> Regional Training & Capacity Building Workshop on Energy Statistics, Databases and National Energy Balances for the National Focal Points of the Southern African Region and Indian Ocean Community.**

**Hotel INDABA, Johannesburg, South Africa 07-10 October 2013**

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**Work Program of the 2<sup>nd</sup> Regional Training Workshop in Energy Statistics, Data Collection and Construction of National Energy Balances for the AFREC National Focal Points in the Southern African Region**

**Johannesburg, South Africa  
07 - 10 October, 2013**

Schedule	Activities														
<b>1<sup>st</sup> Day: Monday 07 October</b>															
08:00-09:00	<b>REGISTRATION</b>														
09:00-09:30	<p><b>Opening Remarks:</b></p> <ul style="list-style-type: none"> <li>• Representative of AFREC</li> <li>• Representative of the IEA</li> <li>• Representative of the Minister of Energy of South Africa</li> <li>• Group Photo</li> </ul>														
09:30-11:00	<p><b>Session 1: Overview of the Activities Undertaken in 2012 (Objective: Update Presentation of Activities in 2012/2013)</b></p> <ul style="list-style-type: none"> <li>• Presentation of achievements that followed the Regional Training Workshops in 2012 and Summary of Activities in 2013/2014: Mr. Abdoulaye Oueddo</li> <li>• Discussion</li> </ul>														
11:00-11:15	<b>COFFEE BREAK</b>														
11:15-13:00	<p><b>Session 2: Overview of the State of Energy Data Collection: Country Presentations (Objective: Evaluation of the current situation of the collection of the data by the national focal points)</b> (5 minutes each)</p> <ul style="list-style-type: none"> <li>• <b>Introduction and summary:</b> Mr. NZOBADILA Gilbert, AFREC</li> </ul> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>1. Angola</td> <td>8. Malawi</td> </tr> <tr> <td>2. Comoros</td> <td>9. Botswana</td> </tr> <tr> <td>3. Madagascar</td> <td>10. Namibia</td> </tr> <tr> <td>4. Mauritius</td> <td>11. Lesotho</td> </tr> <tr> <td>5. Mozambique</td> <td>12. Zambia</td> </tr> <tr> <td>6. South Africa</td> <td>13. Zimbabwe</td> </tr> <tr> <td>7. Seychelles</td> <td>14. Swaziland</td> </tr> </tbody> </table> <ul style="list-style-type: none"> <li>• Discussion</li> </ul>	1. Angola	8. Malawi	2. Comoros	9. Botswana	3. Madagascar	10. Namibia	4. Mauritius	11. Lesotho	5. Mozambique	12. Zambia	6. South Africa	13. Zimbabwe	7. Seychelles	14. Swaziland
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13:00-14:00	<b>LUNCH</b>														
14:00-14:30	<p><b>Session 3: Training</b></p> <p><b>Course I: Introduction to National and International Energy Statistics (IEA)</b> (Objective: understand the importance of energy statistics, why and how collecting energy statistics. Main statistics principles)</p> <ul style="list-style-type: none"> <li>• Presentation and practical exercises</li> </ul>														
14:30-15:30	<p><b>Course II: Oil Statistics through the analysis of the revised AFREC oil questionnaire (IEA)</b> (Objective: understand the structure, flows and products covered by the questionnaire)</p> <ul style="list-style-type: none"> <li>• Presentation and practical exercises</li> </ul>														
15:30-15:45	<b>COFFEE BREAK</b>														

Schedule	Activities
15:45-17:00	<p><b>Session 4: Training (Continued)</b>  <b>Course III: Continued Oil Statistics through the study of the revised AFREC oil questionnaire (IEA)</b> (Objective: understanding the structure, flow and products covered by the questionnaire)</p> <ul style="list-style-type: none"> <li>• Presentation and practical exercises</li> </ul>
<b>2nd Day : Tuesday 08 October</b>	
09:00-10:45	<p><b>Session 5: Training (Continued)</b>  <b>Course IV: Coal Statistics through the study of the revised AFREC coal questionnaire (IEA)</b> (Objective: understanding the structure, flow and products covered by the questionnaire)</p> <ul style="list-style-type: none"> <li>• Presentation and practical exercises</li> </ul>
10:45-11:00	<b>COFFEE BREAK</b>
11:00-11:30	<p><b>Session 6: Training (Continued)</b>  <b>Course V: Natural Gas and coal statistics through the study of the revised AFREC natural gas and coal questionnaire (IEA)</b> (Objective: understand the structure, flow and products covered by the questionnaires)</p> <ul style="list-style-type: none"> <li>• Presentation and practical exercises</li> </ul>
13:00-14:00	<b>LUNCH</b>
14:00-15:30	<p><b>Session 7: Training (Continued)</b>  <b>Course VI: Renewables statistics through the analysis of the revised AFREC renewables questionnaire (IEA)</b> (Objective: understand the structure, flow and products covered by the questionnaire)</p> <ul style="list-style-type: none"> <li>• Presentation and practical exercises with an emphasis on biomass</li> </ul>
15:30-15:45	<b>COFFEE BREAK</b>
15:45-17:00	<p><b>Session 8: Training (Continued)</b>  <b>Course VII: Electricity Statistics through the analysis of the revised AFREC electricity questionnaire (IEA)</b> (Objective: understand the structure, flow and products covered by the questionnaire)</p> <ul style="list-style-type: none"> <li>• Presentation and practical exercises</li> </ul>
<b>3rd Day : Wednesday 09 October</b>	
09:00-11:00	<p><b>Session 9: Training (Continued)</b>  <b>Course VIII: Building energy balances: Why needs for energy balance? (IEA).</b> Main principles used to develop an energy balance. How to develop the energy balance from fuel questionnaires. (Objective: understand the importance of energy balance and develop an energy balance.)</p> <ul style="list-style-type: none"> <li>• Presentation and practical exercises</li> </ul>
11:00-11:15	<b>COFFEE BREAK</b>
11:15-13:00	<p><b>Session 10: AFREC Databases</b>  <b>(Objective: Presentation of data entry forms through the website)</b></p> <ul style="list-style-type: none"> <li>• Presentation Mr. Abdoulaye OUEDDO</li> </ul>

Schedule	Activities
13:00-14:00	LUNCH
14:00-15:30	<b>Session 11: AFREC Web portal</b> (Objective: Learn to manipulate data and graphics of the Web Portal) • Presentation: Mr. Abdoulaye OUEDDO
15:30-15:45	COFFEE BREAK
15:45-17:00	<b>Session 12: Closing</b> • Presentation of the Summary Report of the Training • Distribution of Training Certificates • Closing Remarks
19:00-22:00	<b>Evening</b> Outside Dinner
<b>4<sup>th</sup> Day: Thursday 10 September</b>	
09:00-12:00	<b>Training of Trainers</b>
<b>Friday: 11 October</b> <b>Free Day, Departure</b>	



## IEA-AFREC Session of Training of Trainers Johannesburg, South Africa 07 au 10 October 2013

### Agenda

10 October 2013		
09:00 – 09:10	<b>Overview of train the trainer approach</b>	Ms. Agnes SIN (IEA)
09:10 – 09:30	<b>Introduction to national and international energy statistics</b> - With coaching from IEA staff	Nominated Focal Point
09:30 – 10:00	<b>Oil Statistics (AFREC questionnaire)</b> - Presentation and practical exercises - With coaching from IEA staff	Nominated Focal Point
<b>10:15 – 10:30 Coffee break</b>		
10:15 – 11:00	<b>Coal and Gas Statistics (AFREC questionnaire)</b> - Presentation and practical exercises - With coaching from IEA staff	Nominated Focal Point
11:00 – 11:30	<b>Renewables (e.g. biomass) statistics (AFREC questionnaire)</b> - Presentation and practical exercises - With coaching from IEA staff	Nominated Focal Point
11:30 – 12:00	<b>Electricity statistics (AFREC questionnaire)</b> - Presentation and practical exercises - With coaching from IEA staff	Nominated Focal Point
12:00 – 12:30	<b>Building energy balances (AFREC questionnaire)</b> - Presentation and practical exercises - With coaching from IEA staff	Nominated Focal Point
12:30 – 12:40	<b>Closing</b>	(AFREC & IEA)

Photos of the Johannesburg Training Workshop

