

## SUCCEED Network – East African Higher Education Network on Sustainable and Energy Efficient Campus Development

### Workshop on Energy Efficiency Audits

Venue: Makerere University (Kampala, Uganda) 10<sup>th</sup> to 12<sup>th</sup> March, 2015

#### **Main objective of this project meeting:**

This project meeting comprises a workshop and a project coordination meeting. The main objective is as follows:

#### **Act. 1.3. Energy Efficiency Audits Workshop (10<sup>th</sup> & 11<sup>th</sup> March 2015)**

With a duration of 2 days the main objective will be to present the following:

- key aspects relevant to EE Audits
- existing methodologies and tools for implementing EE Audits in a university
- type of energies and sections that can be audited in a university premises
- how to use the reports with the EE Audits
- how to find/create savings from EE Audits

The workshop will be accompanied by a **Coordination Meeting (Act. 5.2.)** of a one day duration with the main objective of revising the progress of the partners on the Creation of the Energy Efficiency Units (Act. 1.4.) and revise the list of e-courses (Act. 2.3.) that will be integrated in the e-platform created on the framework of the Succeed Network project (Act. 5.3.). The Good Practices (Act. 1.6.) collected by the partners will also be presented and future project activities will be discussed.

#### **Methodology:**

This training workshop will be supported by the Ministry of Energy and Mineral Development of Uganda (MEMD) who will conduct the module on a ppt basis being the main blocks:

- **Energy Audit Methodologies:** this will include presentations on structure and methodology of energy auditing in universities, includes instruments used in Energy auditing
- **Energy Management**
- **Key Energy systems in Universities:** specifically Lighting, Electrical systems, Air conditioning and Diesel generators

The training will also have **two practical audit exercises** in the following buildings of Makerere University:

- the main library
- the Computer Science Block B Building.

#### **Expected Results:**

- Participants will get specific knowledge on EE Audits and will be prepared to conduct audits in their universities
- Participants will identify what is the relevant equipment that can be purchased by the university in order to conduct the EE Audits.
- The University of Alicante together with the project partners will conduct a review of the work done on both Creation of their EE Units and development of e-courses for the project e-platform

#### **This project meeting will be conducted by the following team:**

- Maclian Senyonga, James Baanabe and Simon Kalanzi/David Birimumaso from MEDM
- Alex Komakech from AOT Consultanting Ltd.
- Allan Musinguzi from Energy Monitoring Limited
- Dr. Bakabulindi Godfrey (PhD)
- Godfrey SSali, from MUK/Elite Consults
- Cristina Beans, as Project Manager of SUCCEED Network

10/03/2015 (TUESDAY)			Venue: Makerere University Main Library, Power Point Room
From	To	Duration	Important: Meet at the Hotel lobby and transfer to the meeting venue Time: 08.45
09.30	09.45	15'	Welcome remarks by Deputy Vice Chancellor Finance and Admin of Makerere University
09.45	10.00	15'	Opening remarks by Commissioner ERD, MEMD James Baanabe
10.00	10.15	15'	Presentation of the agenda and workshop's objectives by Maclian Senyonga (MEMD)
10.15	11.00	45'	Energy Audit Methodologies Structure by James Baanabe (MEMD)
11.00	11.30	30'	Coffee Break & Official Group Picture
11.30	12.00	30'	Energy Audit Instruments by Usama Kaggwa (MEMD)
12.00	12.30	30'	Energy Management by Alex Komakech (AOT Consultating Ltd.)
12.30	13.00	30'	Energy Monitoring By Allan Musinguzi (Energy Monitoring Limited)
13.00	14.00	60'	Lunch Break
14.00	14.30	30'	Key Energy Consuming Sections in Universities 1 – Lighting by Alex Komakech (AOT Consultating Ltd.)
14.30	15.00	30'	Key Energy Consuming Sections in Universities 2 – Electrical Systems and drives by Dr.Bakabulindi Godfrey (PhD)
15.00	15.30	30'	Key Energy Consuming Sections in Universities 3 – Air Conditioning in Buildings by Godfrey SSali (MUK/Elite Consults)
15.30	16.00	30'	Key Energy Consuming Sections in Universities 4 – Diesel Generators by Maclian Senyonga (MEMD)
16.00	16.30	30'	First Day Wrap up by Maclian Senyonga (MEMD) supported by Cristina Beans (UA)
19.00			Official Dinner offered by SUCCEED Network Project

11/03/2015 (WEDNESDAY)			Venue: Makerere University Main Library, Power Point Room
From	To	Duration	Important: Meet at the Hotel lobby and transfer to the meeting venue Time: 08.45
09.00	09.10	10'	Brief from the Makerere University Librarian
09.10	10.30	80'	Energy Audit 1: Main Library Building (Walk through) by all facilitators lead by Maclian Senyonga
10.30	11.00	30'	Coffee Break
11.00	13.00	120'	Energy Audit 2: Computer Science Block B Building (Walk through) by all facilitators lead by Maclian Senyonga
13.00	14.00	60'	Lunch Break

14.00	15.30	90'	<b>Discussion Review of the walk through Energy Audits</b>
15.30	16.00	30'	<b>Group Discussion</b>
16.00	16.15	150	<b>EE Audits Training Workshop Final Wrap up</b> by Maclian Senyonga (MEMD) supported by Cristina Beans (UA)

12/03/2015 (THURSDAY)			Venue: Makerere University Main Library, Power Point Room
From	To	Duration	Important: Meet at the Hotel lobby and transfer to the meeting venue Time: 08.30
09.00	09.45	45'	Act. 1.6 Identification and Sharing of <b>Good Practices</b> via the SUCCEED Platform: Presentation of Results by all SUCCEED Network partners & Next Steps by Fred Nuwagaba, Makerere University + partners from Moi University, Mzumbe University, University of Burundi, University of Rwanda
09.45	10.45	60'	Act. 2.3 Creation of <b>Online Courses and Training Materials</b> : Results and Next Steps by Anne Nangulu, Moi University
10.45	11.15	30'	<b>Coffee Break</b>
11.15	13.15	120'	Act. 1.4 Set up of <b>Energy Efficiency Units</b> & operation: Working Session by Faustin Kamuzora, Mzumbe University
13.15	14.15	60'	<b>Lunch Break</b>
14.15	14.45	30'	Act. 1.5 & 3.1 <b>Roundtables</b> with Internal Campus Stakeholders and with Local Stakeholders by Cristina Beans, University of Alicante
14.45	15.15	30'	Planning the <b>next steps</b> in Project SUCCEED Network by Cristina Beans, University of Alicante
15.15	16.15	60'	<b>General Project Discussion</b> by all SUCCEED Network partners
<b>END OF THE AGENDA</b>			