

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



Analysing data from a preliminary Energy Audit walkthrough at Makerere University.

PROJECT IMPLEMENTATION PERIOD
October 2013 – April 2017

CONSORTIUM

- University of Alicante (UA), Spain
- Université du Burundi (UB), Burundi
- Moi University (MOI), Kenya
- University of Rwanda (UR), Rwanda
- Mzumbe University (MZU), Tanzania
- Makerere University (MAK), Uganda

Associated partners:

- Inter-University Council for East Africa (IUCEA)

PROJECT CONTACT

University of Alicante
International Project Management Office
Tel: +34 965 909718
E-mail: project.management@ua.es
Website: www.ua.es , www.ogpi.ua.es

PROJECT WEBSITE

<http://www.project-succeed.eu>

SUMMARY OF RESULTS

10 new online courses have increased the academic offer available in energy-related courses. The creation of 5 Energy Efficiency Units, organisation of over 40 internal, local and national round tables and the formation of the 'East African Higher Education Network on Sustainable and Energy Efficient Campus Development' (EA-SUCCEED Network) has resulted in increased awareness amongst university staff and students and has created opportunities for co-operation with stakeholders involved in the energy sector.

BACKGROUND

The East African Region experiences serious energy deficits and high-energy costs. On average only 27% of the region's population have access to electricity. This leaves the region with a high dependence on biomass or fossil fuels, energy insecurity and high-carbon emissions. These unsustainable practices hinder progress in socio-economic development.

Common factors throughout the region include:

- Lack of national and regional policies in energy efficiency and renewable energy.
- Poor infrastructure to produce, store and distribute energy.
- Lack of professionals with expertise in energy efficiency and renewable energy.

Universities, as providers of research and education should be central to providing expertise and solutions to these challenges. The SUCCEED Network has therefore targeted east African universities as 'living laboratories' as key actors in promoting energy sustainability and efficiency.

METHODOLOGY

Institutional building activities

Establishing new energy units to target top level management and inform application campus policy with regard to energy efficiency.

Academic capacity building

Targeted students and lecturers and facilitated the capacity of the academic staff to modernise their educational programmes and increase the course offer in renewable energy.

Co-operation building

Promoted co-operation activities in energy efficiency and renewable energy with relevant stakeholders in the energy sector.

Networking

Supported strategic alliances between east African Higher Education Institutions (HEIs) and created the East African Higher Education Network on Sustainable and Energy Efficient Campus Development.

Online platform

Sharing of good practices (policies, processes, technologies and tools) and facilitation of collaborative e-learning scheme for lecturers (creation of courses) and students (online courses), as well as promotion of dialogue and interaction with local and national stakeholders.



RESULTS

→ Outputs

Capacity building

- 71 research and teaching staff trained in renewable energy, energy efficiency (Campus Policies and Processes, Technologies and Tools, Audits), fundraising for energy projects, and methodology and online courses design.
- 10 online courses on Energy (pending accreditation)
- 5 Energy Efficiency Units created and equipped

Documents

- 17 energy audits on campus buildings
- 3 good practice reports published on sus-

tainable campuses, presenting 28 good practices in total.

Publications

- Beans C. and Driha O., 2015. Revision of Campus Sustainability and Energy Efficiency Policies and Processes in European Union Universities.
- Beans C., 2016. Guidelines for Sustainability and Energy Efficiency in Higher Education Institutions.
- Universidad de Alicante, 2017. Blueprint for Cooperation in Energy Access and Efficiency in East Africa.

Networking

- 47 round tables with stakeholders.
- East African Higher Education Network on Sustainable and Energy Efficient Campus Development.

Visibility

- International Conference 'Fostering Cooperation in Energy Efficiency and Accessibility in East Africa' with over 60 participants from 12 countries.

Databases/websites

- Online platform hosting training courses.
- Website.

↑ Outcomes

- Awareness raised on energy sustainability and efficiency potential on university campuses in East Africa.
- Energy Efficiency Units in partner institutions responsible for raising energy awareness and implementing energy audits.
- Increased dialogue and cooperation between East African universities and with stakeholders.

🎯 Impacts

Usage

- The expanded offer on energy courses brings energy related issues to a wider group of students than the traditional engineering and physics students.
- Students have benefited directly from being involved in the energy audits. They gained valuable hands-on experience during their undertaking as well as during the preparation and presentation of reports.

Policy implications

- Partners are developing energy efficiency policies for their institutions:
 - University of Rwanda has approved an energy efficiency policy developed by their Energy Efficiency Unit.
 - Makerere University has issued instructions for energy saving measures to be implemented and new energy guidelines for student residences as a result of the energy audits.

Sustainability

- The EA-SUCCEED Network will provide a framework for future initiatives and co-operation with stakeholders.
- Support from higher management ensures the continuation of the courses and further development of the network.

TESTIMONIAL



Prof. Aurelia Ngirwa Kamuzora, Mzumbe University, Tanzania

“The project has raised awareness and strengthened capacities in energy efficiency and renewable energy for students and staff. Previously we had no contact with the Tanzania Industrial Research and Development Organisation (TIRDO), a public research and development organisation. Thanks to this project, we are opening up to the private sector. This will help us better understand the requirements for skilled workers and to prepare our students with relevant qualifications.”



Discussing energy issues with internal campus stakeholders at Mzumbe University.