STRENGTHENING CO-OPERATION LINKS IN THE EAST AFRICAN ENERGY SECTOR: THE ENRICH PROJECT

International Conference:

Fostering Cooperation in Energy Efficiency and Accessibility in East Africa 13-14 March, 2017. Zanzibar, Tanzania



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KEY PROJECT DATA

TITLE: "Enhancing Energy Accessibility & Efficiency Through Establishing Sustainable STI Support National Networks with a Regional Dimension in East Africa" (ENRICH)

DURATION: 39 M (01/02/2014 – 30/04/2017)

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CONSORTIUM







AFRICAN VIRTUAL UNIVERSITY UNIVERSITE VIRTUELLE AFRICAINE UNIVERSIDADE VIRTUAL AFRICANA.









UNIVERSITY OF ALICANTE (SPAIN)

GLASGOW CALEDONIAN UNIVERSITY (UK)

AFRICAN VIRTUAL UNIVERSITY (KENYA)

MOI UNIVERSITY (KENYA)

MZUMBE UNIVERSITY (TANZANIA)

MAKERERE UNIVERSITY (UGANDA)

INTER UNIVERSITY COUNCIL FOR EAST AFRICA

DIRECTORATE OF RESEARCH MANAGEMENT & DEVELOPMENT (KENYA)

TANZANIAN COMMISSION FOR S&T

UGANDA NATIONAL COUNCIL FOR S&T

















BACKGROUND

RATIONALE:	concern	over	energy	deficit	&	poverty,	price	volatility	and
energy security in Eastern Africa.									

- ☐ Restricted access to energy resources hampers sustainable development in EA.
- ☐ Research institutes & academia **support inadequate** to address this "energy emergency".
- □ Various countries at the policy level stress importance of energy access and quality research and innovations, but **policies**, **political decisions and societal needs are miss-matched**.

















OVERALL AND SPECIFIC OBJECTIVES

Overall objective: To strengthen Science, Technology and Innovation (STI) co-operation in East Africa (EA) countries by promoting operational and effective management of research and innovation activities with a special focus on energy access and efficiency.

Specific Objectives:

- 1) To promote a **STI support culture** within 3 EA countries by improving the quality of STI support services and its co-ordination with relevant stakeholders.
- 2) To create **3 STI support national networks** with a specific focus on energy access and efficiency







TARGET GROUPS & FINAL BENEFICIARIES



HEI staff trained, benefit from STI support provided by National Networks and EAENet



Graduate & PhD
Students benefit from
internship and mobility
opportunities developed
by EAENet

Beneficiaries



HEIs benefit from enhanced STI support networks and increased communication with industry and policy makers



Higher Education and Science & Technology authorities benefit from increased dialogue with HEI and industry



Businesses, professionals and NGOs in the Energy Sector benefit from increased access and dialogue with HEIs and policy makers

















RESULTS

- 300 managers & researchers trained in Research & Innovation Management (policies & processes, KT, fundraising, proposal drafting, project and IP management).
- 3 STI Support National Networks (Kenya, Tanzania & Uganda)
- 1 regional network with on-line platform & database of experts: East Africa Energy Access & Efifciency Network (EAEnet)
- 2 International Conferences on energy accessibility and efficiency
- 6 National Round Tables with energy stakeholders from Academia, Government, Industry and Society.
- 9 National Workshops organised on fundraising, Project and IP Management and proposal drafting.







TRAINING WORKSHOPS



Research Support Offices and Policies & Procedures, Makerere University, Kampala, Uganda, February 2015.



Fundraising & Grant writing, MOI University, Nairobi, Kenya, May 2015.

Project & Intellectual Property Management, Mzumbe, Dar es Salam, Tanzania, 6 & 7 October 2015





NEEDS ANALYSIS OF STI ACTIVITIES IN THE TARGETED EA COUNTRIES: COUNTRY REPORTS & CONSOLIDATED REPORT





Enhanoing Energy Accessibility & Efficiency through establishing sustainable STI Support National Networks with a regional dimension in East Africa

ENRICH

BENCHMARKING QUESTIONNAIRES – CONSOLIDATED REPORT FOR EAST AFRICA ACT 1.1

2016







DEVELOPMENT EAST AFRICA ENERGY ACCESS AND EFFICIENCY NETWORK (EAENET)

Vision: To be the network of excellence for knowledge generation, exchange and dissemination on energy access and efficiency in East Africa and beyond.

Mission: To provide an open access interactive platform for research and training in Science, Technology & Innovation, to enhance access and optimize use of energy resources.

- 1 manager and 1 researcher appointed at each National Network: EAENet Kenya, EAENet Tanzania & EAENet Uganda
- Memorandum of Understanding (MoU)
- Statutes, Membership Structure, Regulations and Activities
- Sustainability plan for the 3 Networks





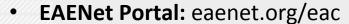


East Africa Energy Access and Efficiency Network

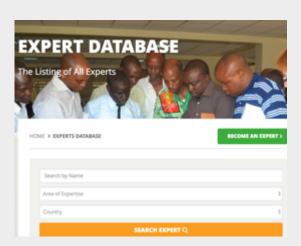


EAENET PORTAL & NATIONAL WEBSITES

- Experts in the energy field and environment sectors. Experts from other field are not restricted: 65 experts already in the portal. Areas of expertise:
 - Energy Access
 - Energy Efficiency and sustainability
 - Knowledge Transfer
 - General IP Management
- Regional and national policies
- Case studies



- EAENet Kenya: eaenet.org/ke
- EAENet Tanzania: eaenet.org/tz
- EAENet Uganda: eaenet.org/ug











1ST ENRICH INTERNATIONAL CONFERENCE

"Energy accessibility & efficiency: the importance of Science, Technology and Innovation support services"

MZUMBE University in Dar es Salaam, Tanzania, 8th October 2015





One of the key players of a workshop on the "Project and Intellectual Property Management", Prof Joseph Kuzilwa, speaks in Dar es Salaam yesterday. Patenting of energy Innovations was discussed at the event that drew participants from East Africa and Europe, PHODO INCOMESPONDERS.

Academic roots for reliable, affordable energy for progress

Dar es Salaam. Without reliable energy, developing countries will not realise their development objectives. Mzumbe University's immediate former vice chancellor, Prof Joseph Kuzilwa, said.

He told journalists yesterday here that African governments need to work with other partners to ensure that there are reliable, affordable and sustainable sources of energy to fuel development. "There is no short out for this. We need energy for

development."
Prof Kuzilwa is one of the key players in the "Project and Intellectual Property Management" workshop that started yesterday at Mizumbe University, Dar es Salaam campus. The two-day event

is taking place under the Enhancing Energy Accessibility and Efficiency through establishing sustainable Science. Technology and Innovation Support National Networks with a regional dimension in East Africa society.

The project is co-financed by the European Commission on the framework of the ACP-EU Co-operation programme in science and technology. (The Critizen Correspondent)

African nations challenged to come up with more energy sources

By Guardian Reporter

AFRICAN governments were on Juesday challenged to collaborate with other partners to ensure that there are reliable, affordable and sustainable lourses of energy to fuel development.

developing countries will not realise their development objectives and dreams," said Prof Joseph Kuzilwa, one of the key players in the 'Project and Intellectual Property Management' workshop that started yesterday at Mzumbe University, Dar es Salaam campus.

taking place under the Enhancing taking place under the Enhancing tenergy, the Energy Accessibility and the Efficiency through establishing development assemble Science, Technology

and Innovation (STI) Support National Networks with a regional dimension in East African projects.

The project is co-financed by the European Commission on the framework of the ACP-EU Cooperation programme in science and technology.

Kuzilva, who is the immediate former Vice Chancellor, Mzumbe University, said Africa was lagging behind in reliable energy

provision, something he said derails development endeavours.

He said the project in short called ENRICH, seeks to promote regional cooperation in the energy and environment sectors in East African countries by establishing three national networks to support STI and a regional portal with an experts data base.

He said quality STI support services will be promoted in

Tanzania, Kenya and Uganda and that cooperation links will be strengthened in the energy sector among academia, researchers, industrialists and policy makers.

The project is run with experts from University of Alicante in Spain, Glasgow Caledonian University, African Virtual University and Moi University in Kenya, Mzumbe University and Uganda's Makerere University.

Also involved Inter Utilivetsity

Council for East Africa and science commissions from East African countries.

Noelia Lopez from Alicante University said the workshop wants to introduce successful projects management and provide an introduction to intellectual property rights. It targets managers and researchers, particularly in the energy field from EA partner states.

"Participants will be involved

in the establishment of STI support national network," she

For her part, Prof Anne Nangulu from Moi University said through innovation, Africa can solve the challenges of energy and realise progress.

"We are trying to think of the best ways science, technology and innovation can help and how these innovations can be patented," she said.

2ND ENRICH INTERNATIONAL CONFERENCE

"Promoting partnerships between Government, Industry and Higher Education Institutions in energy access and efficiency within East Africa"

Kampala, Uganda 8th September, 2016









ENRICH & SUCCEED NETWORK NATIONAL ROUND TABLES

- 1st RT & 2nd RT on "Energy accessibility & efficiency in Kenya", MOI University, Nairobi, Kenya, 3rd May 2016 & 9 March 2017
- 1st RT & 2nd RT on "Energy accessibility & efficiency in Uganda", Makere University, Kampala, Uganda, 30th June 2016 & 6 March 2017
- 1st RT "Energy accessibility & efficiency in Tanzania", Mzumbe University, Morogoro, Tanzania, 2nd August 2016





IMPACT OF PROJECT OUTCOMES IN THE STATE OF PLAY OF STI & RESEARCH EA

- Increased capacities in STI support services
- Improved quality of STI support services
- Increased dialogue and cooperation links in the Energy Sector at national and regional level among academia, researchers, industries and policy makers.
- Enhancement of regional cooperation in STI in energy in East Africa.









CONCLUSION

The way forward......

- More collaboration on energy access and efficiency in EA through EAENet, a new channel for STI
- Strengthening the STI framework in EA to enable knowledge generation, exchange and dissemination
- Develop institutional capacity in the area of internationalisation of STI
- **Joint innovative research** among HEIs, Research Centres and industry at national, regional and international level.









MORE INFO:

ENRICH WEBSITE



WWW.ENRICH-PROJECT.EU



FACTSHEET



ACP SCIENCE & TECHNOLOGY

ENRICH - Enhancing energy accessibility & efficiency through establishing sustainable STI support national networks with a regional dimension in East Africa

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Enrich

Energy deficit and energy presents have became a major electable to growth and development in Eastern Africa. One of the major energy loosur in the context of the EU partnership with Africa is price relatility and energy security. Eastern Africa soften trees

high prices in the enemy markers and shrelding natsure energy resources. In Tanzania, for instance, 80% of domastic energy consumption is biomass, which is used for cooking threewood and charocal; and approximately 90% of shrivestation is size to the collection-offerwood and production of charocal.

Restricted access to energy resources in homogening the Stat Allocar region from sustainable development. Despite the energy energies cylindra supplice, support from research institutes and activities in suitalequate to address this advantum from activities in suitalequate to address other strongers, and activities in an activities suitaless controlled in the suitale suitale public placed suitaless controlled in the suitale suitale suitale suitaless controlled in activities of the important suitaless controlled in activities and suitaless suitaless and suitaless suitaless and public of decisions and societal neath.

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The project will promote quality science, technology and innovation (STE support services in Kerya, Tanzanis and ligands, and stronghen-to-operation into in the energy sector at nutlenal and regional level among academia, nesearches, industries and policy makers.

By strengthening STI cooperation in the energy sector in Nerga, Tanzania and Viganda, solutions and innovations



will be stimulated that will eventually allestate energy poverty through enhanced energy accessibility and eldency. The current time energy access rate and urgent need for alternative energy resources in partially due to a than tage of molt trained personnel and weak national and regional cooperation.

The project will enhance expertise and invasivity or meanth and invasivation management by generalizing operational and official in management of research and invasivation activities, in personal by improving the qualtity of research and invasivation support sension and their conditionation with invitrate statisticates in the energy sension, such as policy makes, research centers, non-giveent meants of experisions.

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An in-depth analysis of the situation with the innovation econymism is faring. Income and riggereds will be certain our liquisities in research and innovation, mesself and innovation policies, research and innovation support is view as environment for innovational particular, if this will be followed by introduced analysis of innovation and researchosts (gestrolately in the energy field) in the particularity integral (gestrolately in the energy field) in the particularity into (gestrolately in the energy field) in the particularity into the particular integral to the particular terms of the



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MORE INFO:

ENRICH POSTERS & LEAFLET









Enhancing energy accessibility & efficiency through establishing sustainable STI support national networks with a regional dimension in East Africa



DURATION

The project will promote quality science, technology and innovation (57) support services in Kenya, Tanzania and Uganda, and strengthen cooperation links in the energy sector at national and regional level among academia, researchers, industries and policy makers













ENRICH promotes regional cooperation in the Energy sector in East Africa by establishing three National STI Networks to support Science, Technology and Innovation, as well as the creation of an online regional portal with a database of experts in the field of Energy.

380 managers & researchers trained in Research & Innovation Increased capacities in STI support Management (policies & processes, knowledge transfer, fundraising, services, proposal drafting, project and IP management).

- 3 STI Support National Networks (Kenya, Tanzania & Uganda). I regional network with online platform and database of experts: East Africa Energy Access and Efficiency Network
- 2 International Conferences on Energy Accessibility & Efficiency.
- 6 National Round Tables with Energy stakeholders from Academia, Government, Industry and Society.

Improved quality of STI support

Increased dialogue and cooperation links in the Energy Sector at national and regional level among academia, researchers, industries and policy makers.

Enhancement of Regional Cooperation in STI in Energy in East Africa.

Beneficiaries









Contribution to the ACP S&T objectives

Energy Access and Efficiency

Vetwork (EAENet)





Capacities built for improving quality of STI support services

Cooperation and networking on energy access and efficiency among key stakeholders

The way forward...

More collaboration on energy access and efficiency in East Africa through EAFNet, a new channel for STI Strengthening the STI framework in East Africa to enable knowledge generation, exchange and dissensitation Develop institutional capacity in the area of Internationalisation of STI Joint Innovative research among HEIs, Research Centres and Industry at national, regional and international level

www.enrich-project.eu www.eaenet.org





District is so-financed by the ACP-EU Cooperator Programme in Science and Technology (ACP SAT II), a programme of the ACP Group of Seam with the















3 years, from Fishmany 2014 to January 2017

ACP-EU-Co-operation Programme in Science and Technology (S&T II)

Enhancing Energy Accessibility & Efficiency through establishing sustainable STI Support National Networks with a regional dimension in East Africa











NEWSLETTERS

ENRICH newsletter: 288 subscribers.

Newsletter

ENRICH - NEWSLETTER MARCH 2017



INTERNATIONAL CONFERENCE FOSTERING COOPERATION IN ENERGY EFFICIENCY AND ACCESSIBILITY IN EAST AFRICA

13 - 14 March, 2017 Zanzibar, Tanzania























Thank you! VISIT US ON

www.enrich-project.eu www.eaenet.org

Any Questions???
Thanks for you attention!!!

noelia.lopez@ua.es







