

ROUND TABLE 2: THE ROLE OF HEIs IN ADDRESSING THE ENERGY CHALLENGES IN EAST AFRICA – PRESENTATION/OVERVIEW

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NATIONAL FRAMEWORK

Include information on:

- Legal framework/regulations on energy
- Key stakeholders in the energy sector
- STI support services on energy access

HEIs & STAKEHOLDERS

HEIs & Stakeholders

- **What includes HEIs?** Operationalize HEIs – Tertiary; Universities; Research institutions/Training
- **Stakeholders?** HEIs; Government; Industry; Private Sector; Non Governmental Organizations (NGOs); Community Base Organizations (CBOs); Development Partners; Users & Consumers & Society etc

Perspective by Dr. Moekesti Mploho National University of Lesotho

- Address: **“Social Engineering”** as one of the challenges that HEIs should address
- Being the act of working in cooperation with the society
- To address the challenges of the society as opposed to improving technological solutions

OPPORTUNITIES & CHALLENGES ON ENERGY ACCESS AND EFFICIENCY

Role of HEIs in Addressing Energy Challenges in East Africa

Through: Education as opportunity to address energy and challenges

- Developing Curriculum & Curricula; Courses and Units - for teaching, training & research (including Short Courses) – for teaching, training & research (degree based – knowledge, skills & competence oriented; knowledge enhancing; for Professions; awareness creation among the populace – to tackle energy challenges
- Viability of some sources of energy in East Africa & beyond: **e.g. Nuclear Energy**
- Disciplinary; multi-disciplinary; inter-disciplinary & **trans-disciplinary approach**
- Link, network and collaboration among HEIs with government, industry, employers; entrepreneurs (Informal & **informal sector**); investors in the energy sector

AWARENESS OF THE REAL NEEDS & OPPORTUNITIES OF SCIENCE, TECHNOLOGY AND INNOVATION

HEIs & Stakeholders – Real Needs & Opportunities

- Exploring indigenous knowledge in energy utilization & saving mechanism – innovations to improve on the same – as part of cultural and social processes in addressing energy
- Gender & cultural perspectives
- Value chain & entrepreneur initiatives spinoffs; commercialization; knowledge transfer; and intellectual property rights
- Consult & involve users/consumers in knowledge creation; innovations; and in application of science & technology
- Policies & data mining as opportunity – to utilize the available & unutilized research findings & Information

Decision making & communication – among policy makers; researchers; academic; industry, stakeholders & society

ROLE OF HIGHER EDUCATION INSTITUTIONS: PERSPECTIVES

Perspectives & Challenges

- Financing & investing in energy for low, middle and high income earners & industry – rural, urban, peri-urban & industry
- Outreach activities – including demonstrations & applicability of sources of energy
- Corruption & fraud in the energy sector
- “Marginalization & Discrimination” – who to access energy
- Accessing energy as apolitical agenda
- Challenges of distributing energy
- Environment & climate change
- Needs + SWOT analysis – for countries; stakeholders, users & consumers
- Embracing good & best practices; worst practices & wastage – benchmark for continual improvement, efficiency & sustainability

CONCLUSIONS AND RECOMMENDATIONS

Include:

- Recommendations on how to facilitate and encourage regional STI cooperation
- Recommendations on how to increase the interaction between the higher education system, the private sector and the government.

**THANK YOU
ASANTE SANA**

