



# **MEMORANDUM OF UNDERSTANDING**

**BETWEEN**

**COLORADO STATE UNIVERSITY  
COLLEGE OF ENGINEERING AND ENERGY INSTITUTE  
COLORADO  
USA**

**AND THE**

**UNIVERSITY OF RWANDA  
COLLEGE OF SCIENCE AND TECHNOLOGY (UR-CST)  
African Center of Excellence in Energy for Sustainable  
Development  
REPUBLIC OF RWANDA**

*Handwritten signatures in blue ink:*  
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## **Preamble**

**WHEREAS** the Colorado State University (CSU), Colorado, USA through its Energy Institute (EI) and College of Engineering (CE) and the University of Rwanda through its College of Science and Technology (UR-CST) (hereinafter “the parties” / “institutions ”), motivated by the extensive opportunities-offered by international co-operation, recognise the need to develop and nurture new partnerships and to share human and material resources, with the aim of promoting international understanding, contribute to the growth of global knowledge and advance the development of our respective countries and world;

**AND WHEREAS** in the spirit of this challenge and responsibility, the parties acknowledge the similarities in the scholarly pursuits of the institutions and desire to promote inter-institutional co-operation, scientific and cultural exchange, and mutual understanding and respect between the citizens of the United States of America and Rwanda;

**AND WHEREAS** the parties therefore join in the following International Memorandum of Understanding (IMOU):

## **Article 1**

### **1. Objectives**

- 1.1. **Overall Objective:** The overall objective of the MOU is to provide a framework within which UR/CST and CSU/CE/EI can collaborate in energy research and capacity building to advance the objectives of Vision 2050 and the World Bank sponsored Africa Center of Excellence in Energy for Sustainable Development (ACEESD).
- 1.2. **Specific Objectives:** The two Institutions seek to establish and encourage mutually beneficial scientific, technological, educational and other relations which could include the following activities:
  - 1.2.1. Collaboration in the research, design, construction, testing and use of the following laboratories in direct support of ACEESD:
    - 1.2.1.1. Minigrid Laboratory,
      - 1.2.1.1.1. Design completed during January 2017
      - 1.2.1.1.2. Commissioning by November 2017
      - 1.2.1.1.3. Development of plans to collaborate with industry and to generate income from the laboratory.
    - 1.2.1.2. Photovoltaics Integration Laboratory



- 1.2.1.2.1. Implemented by June 2018
- 1.2.1.3. Micro-hydro Power Laboratory
  - 1.2.1.3.1. Implemented by June 2018
- 1.2.1.4. Small Engine Generation Laboratory
  - 1.2.1.4.1. Implemented by June 2018
- 1.2.1.5. Other laboratories to be implemented on the basis on need and availability of funds.
- 1.2.2. Collaborative research and development to advance the minigrid technology in support of rural development for Rwanda and the rest of Sub-Saharan Africa.
- 1.2.3. Curriculum and course development with particular emphasis on developing intensive concentrated courses taught over a short period of time.
- 1.2.4. Development and teaching of Masters in science programs for Energy Policy and Systems Engineering, and co-supervising thesis development and research.
- 1.2.5. Development and teaching in a joint PhD program and co-supervising dissertation development and research.
- 1.2.6. Exchange of academic staff members for the purpose of collaborative research, teaching and the presentation of specific topics in their fields of specialisation.
- 1.2.7. Establishment of joint research programmes with opportunities for UR academic staff and postgraduate students to collaborate with CSU academic staff and researchers, and publish in appropriate peer reviewed journals.
- 1.2.8. Exchange of students (undergraduate, postgraduate, and postdoctoral fellows) in respect of specific research projects or courses of interest and importance.
- 1.2.9. Organisation of workshops, conferences, seminars and symposia of mutual interest to the institutions.
- 1.2.10. Preparation and implementation of short-term training programs for industry to include 1-3 day workshops.
- 1.2.11. Assistance in international accreditation initiatives.

## **Article 2**

- 2.1 Areas of common interest include, energy, electrical and mechanical engineering, grid design and management, integrating into the national grid and managing clean energy generation, designing smart grids, technology development, project management, trans-disciplinary research in support of optimizing energy for rural development,

  
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methane/CNG/LPG research and development in support of national development and environmental remediation, developing R + D relationships with commercial organizations and other general areas related to energy and engineering that directly support the goals of Vision 2050.

### **Article 3**

- 3.1 In each case, the theme for a joint activity, the conditions for the ownership of any Intellectual Property, arrangements for a visit, exchange and other forms of co-operation shall be determined collaboratively by the management and scholars of the institutions and will be the subject of a separate, signed agreement that is in compliance with the laws of Rwanda, the State of Colorado and the United States of America.
- 3.2 The number of members of staff to participate in a visit or exchange programme, their sojourn and conditions of service shall be negotiated in each case, with due consideration to the capabilities and needs of the individuals and the institutions concerned.
- 3.3 The exchange of students must be outlined in a separate agreement signed by both parties.

### **Article 4**

- 4.1 Both parties accept that in case of joint projects, which require additional funding not included as part of this IMOU, financial arrangements shall be negotiated in each case and continuation of said projects shall be dependent on the availability of funds.

### **Article 5**

- 5.1 This Memorandum of Understanding supersedes all prior agreements whether written or oral between the parties with respect to the subject matter.
- 5.2 The parties, or their authorised substitutes, shall evaluate this MOU regularly to decide on changes or additions thereto, which will not be of any force or effect unless in writing and signed by the representatives of both parties.

### **Article 6**

- 6.1 This agreement takes effect when signed by authorized representatives of the participating organizations. The agreement will continue in force and effect for a period of five (5) years from that date. Renewal of the agreement may be initiated at the end of each such five-year period, and will require signatures by authorized officials of the participating organizations.



This agreement may be terminated at the request of either party by giving advance written notice of sixty (60) days.

### Article 7

7.1 The parties choose for purposes of this MOU as their *domicilium citandi et executandi*, the following addresses:

Colorado State University 1024 Campus Delivery Fort Collins, CO 80523-1024 USA	University of Rwanda KK737st Gikondo, Kigali RWANDA
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7.2 A party may at any time change its *domicilium* by giving notice in writing, provided that the new *domicilium* consists of, or includes a physical address at which process can be served.

7.3 The signatories appoint the College of Engineering and Energy Institute (Colorado State University) and the Directorate of Research, Innovation and Postgraduate Studies (University of Rwanda-College of Science and Technology), as co-coordinators for the purpose of this MOU.

Signed at Fort Collins, Co

On this 18<sup>th</sup> day of JAN 2017



**Alan Rudolph**

**Vice President for Research**

**COLORADO STATE UNIVERSITY**

*Patsy Harlan*  
*Patsy L Harlan 1/18/17*

PATSY L HARLAN  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID 20084040546  
MY COMMISSION EXPIRES DEC 5, 2020

Signed at Kigali

On this 4 day of Jan 2017




**Prof. Philip COTTON**

**Vice Chancellor**

**UNIVERSITY OF RWANDA**





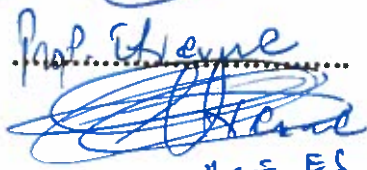
Acknowledgements:

  
.....  
**Prof Bryan Willson** 4-JAN-2017  
**Director, Energy Institute**  
**COLORADO STATE UNIVERSITY**

Witnesses:

- 1. ....
- 2. ....

Witnesses:  DANIEL ZIMMERLE  
1.  .....

2.  Prof. Etienne  
.....  
ACE-ES.

