

CURRICULUM VITAE

Name: Mr. Emmanuel Yeri Kombe

Address: Department of Energy Technology,
Kenyatta University
P.O BOX 43844-00100 Nairobi,
Kenya.

Telephone: +254702012470

Date of Birth 10/11/1987
Nationality Kenyan
National ID 27778715
Passport No. AK0400928
E-mail: Private: yeriko332@gmail.com
School: kombe.emmanuel@ku.ac.ke



ACADEMIC QUALIFICATIONS

2017- Present: **Candidate, Doctor of Philosophy (Ph.D.)**
Kenyatta University (Kenya), Department of Energy Technology

Subject: Renewable Energy Technologies
Research Title: Thermodynamic Modelling and Optimization of Gasification System for Fischer-Tropsch Synthesis

2015-2016 **Master of Science (MSc.), with merit**
University of Glasgow (United Kingdom)

Subject: Sustainable Energy
Dissertation Title: Quantitative Analysis of tar produced from Gasification of Miscanthus by Fluorescence Spectroscopy

2010-2014 **Bachelor of Science (BSc.), with First Class Honors**
Masinde Muliro University of Science and Technology (Kenya)

Subject: Physics (Renewable Energy Option)
Project: Optimization of Biogas production from Kitchen Waste

PROFESSIONAL COURSES

September 2-7, 2018 Scientific Communication and Publication: Training course organised by German Academic Exchange Service (DAAD) at Emory Hotel, Nairobi Kenya.

- January – May 2014 Incoming Exchange student, Technology, Communication and Transport;
Helsinki Metropolia University of Applied sciences, Helsinki, Finland.
- August 5-16, 2013 Short intensive course on innovative projects in Renewable Energy for sustainable development: Training course organised by Helsinki Metropolia University of Applied Science and at Masinde Muliro University of Science and Technology, Kakamega, Kenya.

WORKING EXPERIENCE

- March 2020-Date Tutorial Fellow, Energy Technology Department, Kenyatta University, Nairobi, Kenya.
- 2017 - 2019 Part-Time Lecturer, Mechanical and Industrial Engineering Department, Masinde Muliro University of Science and Technology, Kakamega, Kenya.
- January-August, 2015 Physics and Mathematics teacher, Chakama Secondary School
- October-December, 2014 Physics and Mathematics teacher, Adu Secondary School

TEACHING EXPERIENCE

1. I have taught and examined undergraduate students in the following courses (2016-Date):
 - Solar Photovoltaics and Ocean Technology systems, Thermodynamics I, Thermodynamic II, Geothermal Energy, Energy Storage Technologies, Research Methods, Renewable Energy Resources, Fluid Mechanics, Hydroelectric and Tidal Energy and Introduction to Renewable Energy Technologies.
2. I have taught and examined diploma students in the following courses (2016-2017):
 - Physic I, Physics II, Calculus I, Calculus II, Principle of Marketing and Economics.

RESEARCH PUBLICATIONS

A. Referred Scientific journal papers

1. **Kombe EY**, Muguthu J. Geothermal Energy Development in East Africa: Barriers and Strategies. Journal of Energy Research and Reviews. 2018.2(1):1-6.
2. **Kombe EY**. Effect of furnace temperature on the distribution of tar during gasification of

Miscanthus. Journal of Energy Research and Reviews. 2018. 2(1):1-7.

3. **Kombe EY**, Muguthu J. Assessment of Wind Energy Potential in Great Cumbrae Island using Weibull Distribution. Journal of Energy Research and Reviews. 2019. 2(2): 1-8.
4. Musanga LM, Barasa WH, Maxwell M, **Kombe EY**. The Impact of air mass on the performance of a Monocrystalline Solar Module in Kakamega. Physical Science International Journal. 2019. 21(2). 1-9.

B. Conference proceedings

1. Kombe EY. Optimization of biomass gasification system for Fischer-Tropsch synthesis. In: Newton Fund Researcher Links Workshop: *How Resilient Manufacturing can solve the unemployment problem in Kenya*, 18-21 September 2018, Nairobi, Kenya; p.37.

RESEARCH INTERESTS

Bioenergy, Energy modelling, Energy planning and Policy, and Energy auditing.

REFEREES

1. Mr. Elias Ako
Chairman, department of Energy Technology,
Kenyatta University.
Cell: +254722863848
Email: ako.elias@ku.ac.ke

2. Dr. Maxwell J. Mageto
Senior Lecturer, department of Physics,
Masinde Muliro University of Science and Technology.
Cell: +254711448025
Email: mmageto@mmust.ac.ke