



Name: **Esther Phiri**

Current employer & Appointment/title: **Malawi University of Business and Applied Sciences;  
Lecturer**

Mentor or mentee: N/A

E-mail: [ephiri@mubas.ac.mw](mailto:ephiri@mubas.ac.mw); [ephiri@poly.ac.mw](mailto:ephiri@poly.ac.mw)

Country: **Malawi**

***Area of Research/Teaching:***

***Teaching:*** *Electrical Power and Machines, Electrical Circuits, Electrical Technology, Electrical Science, Workshop Practice*

***Research:*** *Renewable Energy, Energy Access, Solar water pumping, Energy Management*

***PhD Thesis:*** *Evaluating opportunities for sustainable rural water provision using solar PV in Sub-Saharan Africa: A case study of Malawi*

***Biography***

***Dr. Esther Phiri is a University of Malawi Lecturer in the Electrical Engineering Department. She has experience in teaching, curriculum development, research and consultancy. She teaches Electrical Science and circuits, Electrical Power Systems and Machines, and Workshop Technology and Practice. Esther obtained her PhD in Renewable Energy from Loughborough University (2017) on the***

*Commonwealth Scholarship; MSc degree in Energy Studies (2009) from the University of Otago in New Zealand on the NZAID- Commonwealth Scholarship Commission Scholarship; and BSc degree in Electrical Engineering (2002) from the University of Malawi, in Malawi.*

*Her research field is renewable energy, and she is particularly passionate about the role it can play in providing practical developmental solutions for people living in the rural areas of developing countries. She uses interdisciplinary approaches which include: technical design and installation, life-cycle analysis, quantitative and qualitative methods, and end-user engagement. Her current research focuses on provision of potable water for drinking and water for irrigation using solar photovoltaics water pumping systems. Provision of water has the potential to improve health, education, gender equality, food security and poverty reduction.*

**Name:** *Esther Phiri*

**Current Appointment:** *Lecturer*

**Institution:** *Malawi University of Business and Applied Sciences*

**Country:** *Malawi*

**Education**

*PhD, Loughborough University, United Kingdom*

*MSc (Energy Studies), University of Otago, New Zealand*

*BSc (Electrical Engineering), University of Malawi, Malawi*



**Clockwise : 1. Queuing for Water-1<sup>st</sup> Prize Graduate  
Research for Impact Photo Competition**

**2. Biogas Plant**

**3. Water storage Tanks-pumping using wind generators**