

## QUALIFICATIONS:

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*PhD scholarship in Geothermal Energy-GHG emissions in Geothermal Power Plant, Jomo Kenyatta University of Agriculture and Technology (2023)*

*Master's Degree in Energy Engineering Renewables, Pan African University Institute of Water and Energy Sciences (2016)*

*Bachelor's Degree in Bio Mechanical and Processing Engineering, JKUAT (2012)*

*Summer school, Institute for Technology and Resources Management in the Tropics and Subtropics. Cologne, Germany (2016)*

*Introduction to Micro-Grid Development and Integration, Institute of Energy Studies and Research (2018)*

*T3 T2 and T1 Solar PV energy training course, Strathmore Energy Research Centre (2018)*

## PUBLICATIONS:

- Geothermal electricity compared to other electricity sources in Kenya, LCOE and Resource Analysis (Germany, Published in March 2017)

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## PROFESSIONAL EXPERIENCE:

### April 2021-To date:

Organization: **Kenyatta University, Kenya**

Title: Tutorial Fellow- Energy Department

- Teaching and examining, undergraduate students in the following courses/units:
- Developing curriculum for courses/units in the area of energy technology, and research methods during the initiation and review of the B.Sc. (Energy Engineering), and the M.Sc. (Renewable Energy) programs.
- Examination/Evaluation of Postgraduate theses as Internal Examiner (Non-Supervisor) as well as supervisor
- Advice to individual students (both undergraduate and postgraduate) in the department, who consult on academic matters, as Academic Advisor for First- and Third-year Undergraduates, and Postgraduate students.
- Conducting research in the areas of energy conversion technologies with emphasis on rural development, Renewable Energy (Principally Bioenergy Technology – Biochemical and Thermochemical Conversion Processes and Technologies), energy conservation, and environmental pollution mitigation.
- Member of “Departmental ISO Committee”
- In charge departmental timetable, academic field trips and student external attachment

### April 2019-2021:

Organization: **GIZ, Kenya**

Title: **Project Officer-Energy, RBF Mini-grids, EnDeV Productive Use and vRE Projects**

### Responsibilities:

- Structured the energy transition activities for GIZ energy cluster in Kenya as well as developing appropriate methodologies and approaches
- Conducted quarterly M&E, both quantitative and qualitative analysis to show the impact of the project and ensuring the validity of data from clusters
- Competently build, direct and refine complex models of the power sector and energy economics, identifying analytical gaps, limitations and opportunities
- Synthesized analytical data and insights to bring clarity within the GIZ support clusters to show the level of impacts created by the projects
- Provided technical support for implementation of, and coordinated with, partners existing GIZ energy initiatives
- Supported development and strengthens institutional linkages with actors in the energy sphere to leverage on the added value of these partners focusing on cookstoves and solar energy

- Supported development and implementation of energy and climate change advocacy strategies, including engagement with governmental and private sector institutions
- Participated in meetings and seminars relevant to climate change and Energy to share lessons learnt, collect new ideas and further documented lesson learnt shared by other GIZ staff in other countries
- Coordinated and followed up with government counterparts and consultants, each time provide high-quality research and analytical support, including drafting policy notes related to energy
- Contributed to policy dialogue on energy issues and interactions with the client and partners, and alert management to issues requiring attention
- Project management for the RBF mini-grids and Endev SHS project; planning and executing programs in remote locations to time and budget.

### January 2017 – April 2019

Organization: **SolarGen Technologies Ltd, Kenya**

Title: **Project Coordinator, Mini-grid Energy Projects**

#### **Responsibilities:**

- Lead delivery of the project team while keeping KPIs on tracks for mini-grids and off- grids.
- Performed technical and economic analyses; data collection; spreadsheet creation and management for upcoming mini-grids and off-grids.
- Tracked and monitored applicable performance metrics for each mini-grids and off- grids project.
- Implemented energy efficiency measures and recommendations as needed.
- Assisted with external and internal reports such as performance reporting and budgeting.
- Monitored program progress toward financial and performance goals.
- Maintained project schedules in Microsoft Project at determined intervals to ensure jobs are being completed on time and within budget.
- Prepared status reports to track the successful completion projects.
- Strategic communications to stakeholders and engagement of project team.
- Oversaw productivity streams for ongoing and special projects.
- Kept projects on schedule by managing deadlines and adjusting work flows as needed.
- Coordinated and executed all elements of stakeholder events including logistics, budgets, venue selection, activity planning, transportation and entertainment.

### September 2016- January 2017

Organization: **Strathmore Energy Research Centre, Kenya**

Title: **Programme officer/Energy Engineer, Volunteer**

#### **Responsibilities:**

- Strategic communications and membership engagement with various partners.
- Product tests and research on Pico Solar PV system products to ascertain their suitability in Kenyan Market: Products tested include Panels, batteries and luminaires.
- Solar PV off grid project development including design, financial aspects and implementation.
- Conducting risks assessments on renewable energy projects, and performance-based assessments.
- Strategic support for regional coordination and member activities.
- Oversaw teams planning, implementing and realigning field and base operational strategies.
- Managed quality assurance program including on site evaluations, internal audits and customer surveys.

### April 2016 – July 2016

Organization: **United Nation University-GTP, Reykjavik, Iceland**

Title: **Energy Research Fellow**

#### **Responsibilities:**

- Energy data research and analysis (Production and consumption trends and patterns)
- Developed spreadsheet for performing analytical analysis on energy usage Prepared contract documentation based on data from analysis

- Supported engineers conducting audits and performing analysis Analyzed test data for final load qualification of participating facilities
- Performed various administrative functions, including filing paperwork, delivering mail, sorting mail, office cleaning and bookkeeping.
- Devoted special emphasis to punctuality and worked to maintain outstanding attendance record, consistently arriving to work ready to start immediately.
- Prepared relevant SRM documents in conformance with Safety Management System (SMS) order.
- Energy data research and analysis (Production and consumption trends and patterns)
- **Researched and authored a dissertation on comparison of electricity generation cost in Kenya**

### June 2013 – Nov 2014

Organization: **Cooperative Bank of Kenya, Kenya**

**Title: Graduate Clark, Credit operations**

#### **Responsibilities:**

- Conducted financial review of customer lines of credit by assessing company financials and initiating credit application reviews.
- Reviewed customer files on regular basis to make sure receivables were in sound condition.
- Complied with internal controls and government regulations.
- Made decisions and recommendations about extending lines of credit.
- Controlled credit exposure by providing financial order management support to minimize risk and obtain timely payment.
- Conducted presentations to upper management and executive teams for loan recommendations.
- Contacted customers and requested financial documentation.
- Created presentation formats for monthly/quarterly reviews of expense charge-outs.

#### **Trainings and conferences:**

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26<sup>th</sup> May 2016: Participated in International Conference on Environment and Renewable Energy, Munich, Germany

18<sup>th</sup> October 2015: Participated in the workshop, Development of Research Agenda, Algeria

19<sup>th</sup> October 2015: Participated and emerged winner in a science slam with a presentation on Analogy between a biogas plant and human beings

25<sup>th</sup> June 2015: Participated in the workshop, Employability, first step into professional life, Algeria

8<sup>th</sup> May 2015: Participated in a workshop, State of the Art Challenges and Trends in Energy and Water sectors in Africa

29<sup>th</sup> May 2014: Training on Anger Management essentials: managing and Controlling Anger, Coop Bank Kenya

8<sup>th</sup> August 2013: Employee relations, Compliance and Personal Financial management, Coop Bank Kenya

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#### **References**

**On Request**