

# Curriculum Vitae

**Full Name:** Teketay Mulu Beza, Ph.D.

**Academic Rank:** Assistant Professor

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**Office:** GOffice, 208

**Nationality:** Ethiopian

**Specialization:** Power and Energy, Electrical Engineering

**Education:**

**National Taiwan University of Science and Technology (NTUST), Taipei, Taiwan,** Ph.D. in Electrical Engineering (Power and Energy), January 21, 2022.

*Dissertation: Optimal Sizing and Techno-Economic Analysis of Hybrid Renewable Energy Systems for Off-Grid System.*

**Bahir Dar University (BDU), Bahir Dar, Ethiopia,** M.Sc. in Electrical and Computer Engineering (Power Systems Engineering), September 13, 2011.

*Thesis title: Efficiency Improvement of Loaded Feeders of Bahir Dar Town Distribution Network Using Shunt Capacitor.*

**Arba Minch University (AMU), Arba Minch, Ethiopia,** B.Sc in Electrical Engineering, July 21, 2007.

*B.Sc. Project: Wireless DC Motor Control*

**Academic Experience:**

**Bahir Dar Institute of Technology, Bahir Dar University, Bahir Dar, Ethiopia**

Assistant professor and researcher, February 11, 2022- to date

Lecturer, June 2012 - February 10, 2022

**Debre Markos University (DMU), Debre Markos, Ethiopia**

Lecturer, October 2011 - June 2012

**Woldia Vocational Training College**

Graduate Assistant I, September 2008 - October 2009



**Leadership Experience:**

- Faculty Dean, Faculty of Electrical and Computer Engineering (January 18, 2023 - to date)
- Solar Energy Research Group Leader and Researcher at Bahir Dar Energy Center (September 05, 2022 to January 18, 2023)
- Academic Program Officer, Faculty of Electrical and Computer Engineering, BiT-BDU (February 16, 2016 to September 05, 2018)

**Committee Work:**

- IEEE COINS 2023 (PC member of SMART ENERGY)
- Technical Program Committee for ICAST-2023 member
- BiT Research and Publication Committee member
- BiT Academic Standard and Curriculum Review Committee
- Faculty Graduate Committee Chairperson
- Faculty Promotion Committee Chairperson

**Project and Short-Term Training**

- Expert on Efficient Lighting and Renewable Energy Project done in collaboration with Aalto University - Finland, Bahir Dar University – Ethiopia, and Kathmandu University - Nepal from April, 2013 – March, 2015 with a total budget of 398,394 EUR.
- Staff and Student Exchange coordinator on BDU side (NSS project between BDU of Ethiopia and Aalto University of Finland from June /2014–December /2015)
- Smart Grid Laboratory equipment training which was held from 30<sup>th</sup> January 2017 to 3<sup>rd</sup> February 2017 by De Lorenzo SPA-Italy and Synergy PLC at Bahir Dar University.
- IEEE PES & IAS Power Africa Conference Travel Awards, 2022
- Completed “Seminar on Electrification Mode based on Clean Energy for Belt and Road Countries” Sponsored by the Ministry of Commerce (MOFCOM) and organized by National Research Institute for Rural Electrification, Ministry of Water Resources, P. R. China from 16 March to 29 March 2023.
- Member in Micro Hydro Power Potential Assessment project in West Gojjam Zone, Ethiopia.
- Participated in “Electrification of Tana Monasteries using Solar PV” Project.

- One-week training on Small Scale Renewable Energy Systems presented by Prof. David Wood (Renewable Energy Researcher at the University of Calgary, Canada), from July 19 - 24, 2013
- Participated in theoretical & practical Solar PV training given by Prof. Peter Adelman, June 30-July 1, 2015.
- Participated in installing Solar PV for Ebinat Elementary school, Gondar in 2013/1014

**Publication/ Presentation:**

1. **Beza, T.M;** Wu, C.-H.; Kuo, C.-C. Optimal Sizing and Techno-Economic Analysis of Mini-grid Hybrid Renewable Energy System for Tourist Destination Islands of Lake Tana, Ethiopia. *Appl. Sci.* 2021, 11, 7085. <https://doi.org/10.3390/app11157085>
2. **Beza, T.M;** Huang, Y.-C.; Kuo, C.-C. A Hybrid Optimization Approach for Power Loss Reduction and DG Penetration Level Increment in Electrical Distribution Network. *Energies* 2020, 13, 6008; doi:10.3390/en13226008
3. C-T. Tsai, E.M. Ocampo, **T.M. Beza**, and C-C. Kuo, Techno-economic and Sizing Analysis of Battery Energy Storage system for Behind-the-Meter Application. Digital Object Identifier 10.1109/ACCESS.2020.3036660
4. C-T. Tsai, **T.M. Beza**, E.M. Molla, and C-C. Kuo, Analysis and Sizing of Mini-Grid Hybrid Renewable Energy System for Islands. Digital Object Identifier 10.1109/ACCESS.2020.2983172
5. Tsai, C.-T.; **Beza, T.M;** Wu, W.-B.; Kuo, C.-C. Optimal Configuration with Capacity Analysis of a Hybrid Renewable Energy and Storage System for an Island Application. *Energies* 2020, 13, 8; doi:10.3390/en13010008
6. Tegegn, E. A; **Beza, T.M.** Optimal Sizing and Feasibility Study of Hybrid Micro-Grid System for Rural Area in Gashamo Village, Somali Region of Ethiopia. <https://icast-conf.eai-conferences.org/2023/accepted-papers/>
7. Fenitaw, M. A; **Beza, T.M.** Design and Simulation of SCADA System to Improve Reliability of a Distribution Feeder (Case Study on Bahir Dar, Feeder R6-G2. <https://icast-conf.eai-conferences.org/2023/accepted-papers/>

**Co-Editor/Volume Editor:**

1. Artificial Intelligence and Digitalization for Sustainable Development, International Conference, ICAST 2022 Bahir Dar, Ethiopia, November 4–6, 2022 Proceedings

**Honors/Awards/Recognitions:**

- Recognition for the outstanding contributions through leading and coordinating various activities while accrediting Electrical Engineering program by the Accreditation Board of Engineering and Technology (ABET) in the 2022/2023 review cycle.
- Recognition of Main Organizing Committee for the 10<sup>th</sup> EAI International Conference on the Advancement of Science and Technology (ICAST-2022)
- Recognition by Bahir Dar University President for a community service project “Deq Community Port Design at Bahir Dar” as an Electrical Designer.
- Recognition for valuable contribution in installing Solar PV System at Wargaja kebele, Ebinat as part of the project” Promoting resilience of rural communities in Ethiopia through climate change science and technology” by College of Agriculture and Environmental Science, Bahir Dar University.
- Recognition for valuable contribution as “Staff and Student Exchange Coordinator on NSS Project” by FECE.
- Recognition of great accomplishment from Faculty of Electrical and Computer Engineering (FECE) in 2017 by BiT-BDU.
- Recognition for valuable contribution in “Efficient Lighting and Renewable Energy Project” by FECE.
- Recognition for the volunteer contribution on “Electrical Installation and Maintenance Work” for Tana Haik General and Secondary school

**References:**

1. **Prof. Cheng-Chien Kuo:** Professor and Chairman of Department of Electrical Engineering, NTUST, Taipei, Taiwan.  
Address: +886920881490, [cckuo@mail.ntust.edu.tw](mailto:cckuo@mail.ntust.edu.tw)
2. **Dr. Fikreselam Gared Mengistu:** Associate professor and Researcher of Communication Engineering, Bahir Dar University, Faculty of Electrical and Computer Engineering, Bair Dar, Ethiopia

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- 3. Dr. Tassew Tadiwose:** Assistant professor and Researcher of Power System Engineering, Bahir Dar University, Faculty of Electrical and Computer Engineering, Bair Dar, Ethiopia

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- 4. Dr-Ing. Belachew Bantyriga:** Associate professor and Researcher of Power System Engineering, Bahir Dar University, Faculty of Electrical and Computer Engineering, Bair Dar, Ethiopia

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