

Dr. Mintesnot Gizaw Terefe

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PROFILE

Senior renewable energy and climate professional with 12+ years of experience across consulting, academia, and university leadership in Ethiopia's energy sector. PhD in Energy and Climate (University of Padova & Addis Ababa University). Practical experience delivering feasibility studies, grid-integration assessments, and solar PV system design for productive applications, plus strong capacity-building and stakeholder convening skills. Led PURE training and advisory support for 600+ entrepreneurs, technicians, and TVET instructors.

PURE / HORTI-LIFE RELEVANCE

- PURE technical focus: solar PV for productive use, solar pumping/irrigation energy needs, cold-chain & agro-processing loads; familiarity with biogas/biodigester solutions
- Market systems & partnerships: work with academia, private sector, and public stakeholders; ecosystem mapping and barrier analysis for technology adoption
- End-user financing: contributed to discussions on ownership models and end-user financing mechanisms for energy access solutions
- Project delivery: results-oriented implementation, documentation, facilitation, and reporting; experience supporting sector roadmaps and policy discussions
- Tools: PVsyst, WindPRO, HOMER Pro, MATLAB, GIS; STATA/SPSS

PROFESSIONAL EXPERIENCE

Freelance Senior Consultant (EIA, Renewable Energy & Climate) | Power Ethiopia — Addis Ababa, Ethiopia (Jan 2022–Present)

- Conduct feasibility studies, grid-integration assessments, and policy analysis for renewable energy and climate-related assignments
- Provide consulting services for solar PV system design and installation in off-grid and on-grid settings, supporting productive applications
- Lead Instructor/Advisor for Productive Use of Renewable Energy (PURE) program (Jan 2024–Present); designed and delivered training on solar PV systems
- Trained 600+ young entrepreneurs; delivered training for local technicians and TVET instructors on system maintenance

Assistant Professor of Energy Technology | Addis Ababa Science and Technology University (AASTU) — Environmental Engineering Department (Oct 2023–Present)

- Teach renewable energy technologies (wind, solar, hydropower, geothermal) and micro-grid system design/optimization; supervise applied research

Lecturer | AASTU — School of Energy Resources and Environmental Engineering (Jan 2014–Oct 2023)

- Delivered courses on environmental policy, climate change, environmental impact assessment (EIA), and sustainable energy technologies

University leadership roles | AASTU (Jun 2014–Feb 2016; Feb 2016–Nov 2018)

- Associate Dean (School of Energy Resources & Environmental Engineering): managed teaching-learning and research processes; supported strategic planning, budgets, and curriculum review
- Directorate Director (Continuing & Distance Education): coordinated and managed multiple satellite campuses and supported program quality

SELECTED PROJECTS & CONTRIBUTIONS

- Ethiopian National Energy Technology Roadmap (2015–2025): contributed through academic engagement and sector expertise
- IOM Market Dialogue on Energy Mesh Networks: contributed to discussions on technical solutions, ownership models, and end-user financing mechanisms
- Research and design studies on hybrid renewable systems and storage options (wind, solar, pumped-hydro/sea-water pumped storage) for isolated communities in Ethiopia

EDUCATION & CERTIFICATIONS

- PhD, Energy and Climate — University of Padova (Italy) & Addis Ababa University (Oct 2024)
- MBA, Industrial Management — Addis Ababa Science and Technology University (Nov 2017)
- MSc, Energy Technology (Engineering Physics) — (HU) (Jul 2012)
- BSc, Applied Physics — Arbaminch University (Jul 2008)
- Certified Senior Consultant, Environmental Impact Assessment (Environmental Pollution & Climate Change Analyst) — Ministry of Environment and Forest, Ethiopia (Jan 2022–Present)

TRAINING (SELECTED)

- International workshop on Solar Energy and Energy Storage Technologies (ICTP), Oct 2018
- University of Padova summer schools on energy outlook and renewable energy exploitation in rural Ethiopia, Sep 2015
- UNIDO workshop on low-carbon clean energy technology transfer, Jan 2015

PUBLICATIONS & LINKS (SELECTED)

- Investigation of Sustainable Technology Options: Wind, Pumped-Hydro Storage and Solar Potential to Electrify Isolated Ziway Islanders in Ethiopia
- Design of a solar island with a water-battery storage system for Lake Ziway islanders in Ethiopia
- Design of an eco-friendly hybrid energy supply system for non-electrified Lake Ziway island in Ethiopia
- Study of the Potential of Sea-Water Pumped Storage for Power Generation in Ethiopia
- Empowering displaced communities through energy mesh networks
- Analysis of wind power potential for Jijiga area
- ORCID: 0000-0003-3647-0699 | ResearchGate: www.researchgate.net/profile/Mintesnot-Gizaw-2

LANGUAGES

- Amharic (native), English (professional), Oromic (working)



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Power Ethiopia

Ref.no. P.E.T.G 187
Date: May 7, 2025

To Whom It May Concern,

This letter certifies that Dr. Mintesnot Gizaw has served as a Lead Instructor and Advisor for the Productive Use of Renewable Energy (PURE) program at Power Ethiopia Solar Technology Institute since January 2024.

During his engagement, Dr. Mintesnot made significant contributions towards our mission of expanding affordable, reliable, and sustainable energy access across Ethiopia. His work was characterized by deep technical expertise, strategic insight, and a strong commitment to impactful renewable energy solutions. He developed and delivered training programs for local technicians, TVET instructors, and entrepreneurs, covering system maintenance, operational best practices, and the long-term sustainability of renewable energy solutions.

Dr. Mintesnot's work has been instrumental in driving innovation, efficiency, and scalability within Ethiopia's renewable energy sector. His technical proficiency, leadership, and dedication make him a valuable asset to any organization.

We **highly recommend** Dr. Mintesnot for future engagements and are confident that he will continue to make exceptional contributions to sustainable energy initiatives globally.

Should you require further information, please do not hesitate to contact the undersigned.

Sincerely,

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Henok Temesgen

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General Manager

Sincerely,

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