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## Curriculum Vitae: Samuel Gyamfi

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**Prof. Samuel Gyamfi**  
**(PhD, MSc, BE, MGhiE, MIEAust)**

Born on 10.07.1975 in Kumasi, Ghana

School of Energy, University of Energy and Natural Resources

P. O. Box 214, Sunyani, Ghana

**Phone:** (+233) 50 643 8028; **E-mail:** [samuel.gyamfi@uenr.edu.gh](mailto:samuel.gyamfi@uenr.edu.gh)

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Samuel Gyamfi is a Professor in the Department of Renewable Energy Engineering at the University of Energy and Natural Resources, Sunyani, Ghana, and a Certified Sustainable Energy Management Professional. He is currently the Director of the Regional Center for Energy and Environmental Sustainability. Samuel held the Dean of Students Affairs position from August 2017 to August 2019. He was the Acting Head of the Mechanical and Manufacturing Engineering Department from August 2015 to August 2017. He served as the deputy director for the Regional Centre for Energy and Environmental Sustainability from 2019 – 2025.

Samuel was appointed a Senior Adjunct Lecturer at the School of Engineering and Information Technology of Murdoch University, Western Australia from August 2014 to July 2017. He held Lecturer Position in the same school from 2011 to 2014. He held Research Associate and Teaching Assistant positions at the Advanced Energy and Materials Systems Laboratory (AEMSLab) at the University of Canterbury, New Zealand, from 2010 to 2011. In 2007- 2008 he was appointed a Visiting Research Scientist at the Juelich

Research Centre in Germany where he was involved in energy demand side management and demand response modeling.

Samuel led the implementation of a five-million-dollar China South-South Cooperation project between the Ghana government and the government of the People's Republic of China. He played a key role in writing of the proposal that won and established the Regional Center for Energy and Environmental Sustainability (RCEES), one of the World Bank Centers of Excellence at UENR. Samuel has led and participated in several nationally and internationally funded research and consultancy projects commissioned by organizations including the European Commission, UK Research and Innovation (UKRI), German Academic Exchange Service (DAAD), Millennium Development Authority (MiDA), and industry partners. He has published widely in reputable peer-reviewed journals and continues to supervise postgraduate research while contributing to curriculum development and capacity building in renewable and sustainable energy systems.

Samuel received his Ph.D. in Mechanical Engineering (specializing in residential electricity demand response assessment and modeling) from the University of Canterbury, New Zealand in 2010 and his MSc in Energy Systems from the Aachen University of Applied Sciences in Germany in 2004. He obtained his Bachelor's degree in Geodetic Engineering from KNUST in 2001. His main research interest is in smart distributed energy systems, sustainable energy for rural and island communities, utility demand side management, and how human factors can be used to develop technology and communication systems to improve energy efficiency behavior.

## 1. PERSONAL INFORMATION

<b>Name</b>	Prof. Samuel Gyamfi
<b>Date of Birth</b>	10 <sup>th</sup> July, 1975
<b>Country of Citizenship/Residence</b>	German National  Resident in Ghana, Permanent Returning Resident in New Zealand.

## 2. EDUCATION

<b>Institution and Date (from / to)</b>	<b>Degree(s) or Diploma(s) obtained</b>
University of Canterbury, New Zealand, 17/04/2006 – 25/03/2010	<b>Doctor of Philosophy (Ph.D.)</b> , Mechanical Engineering. <b>Thesis Title:</b> Demand Response Assessment and Modelling of Peak Electricity Demand in the Residential Sector: Information and Communication Requirements.
University of Applied Sciences, Aachen, Germany, 07/10/2002 – 17/09/2004	<b>Master of Science (MSc)</b> , Energy Systems

	<b>Thesis Title:</b> Life Cycle Assessment (LCA) Energy Studies: The European Situation.
Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, 20/10/1997 – 14/09/2001	<b>Bachelor of Science (BSc) Honours, Geodetic Engineering</b>
Kumasi High School, Kumasi, 17/10/1994 – 20/09/1996	General Certificate of Education (GCE) 'Advance' Level
Toase Secondary School	School Certificate and General Certificate of Education (SC/GCE) 'Ordinary' Level

### 3. COUNTRIES WITH PROFESSIONAL EXPERIENCE

<b>Resident:</b>	New Zealand (4 years) Australia (4 years) Germany (6 years) Ghana (7 years)
<b>Non-Resident</b>	Niger, Algeria, and South Africa

### 4. LANGUAGE SKILLS

Language	Skill level
English	Speak; Read; Write
German	Speak; Read; Write
Twi	Speak; Read; Write

## 5. SOFTWARE SKILLS

Sl. No.	Skill Title	Skill Level (Basic/Intermediate/Proficient)	Total Experience (years)	Last used (Year)
1	CLEWS	Proficient	2	2024
2	HOMER	Proficient	10	2025
3	RESCREEN	Proficient	10	2024
4	PVSYST	Proficient	10	2024

## 6. CURRENT AND PREVIOUS POSITIONS:

### Employment Records & Positions Held/Hold (with dates):

Period	Employing organization; title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
<b>21/03/2025- Present</b>	<b>Employer:</b> School of Energy, University of Energy and Natural Resources Sunyani, Ghana. <b>Position:</b> Full Professor in the Department of Renewable Energy Engineering.	<b>Ghana</b>	<ul style="list-style-type: none"> <li>• Lecture Engineering Students</li> <li>• Supervise M.Sc. and PhD candidates</li> <li>• Conducting Research</li> <li>• Undertaking Outreach Activities.</li> </ul>
<b>24/08/2021 -20/03/2025</b>	<b>Employer:</b> School of Engineering, University of Energy and Natural Resources Sunyani, Ghana. <b>Position:</b> Associate Professor in the Department of Renewable Energy Engineering.	<b>Ghana</b>	<ul style="list-style-type: none"> <li>• Lecture Engineering Students</li> <li>• Supervise M.Sc. and PhD candidates</li> <li>• Conducting Research</li> <li>• Undertaking Outreach Activities.</li> </ul>
<b>23/08/2021 -05/08/2014</b>	<b>Employer:</b> School of Engineering, University of Energy and Natural Resources Sunyani, Ghana. <b>Position:</b> Senior Lecturer in the Department of Renewable Energy Engineering.	<b>Ghana</b>	<ul style="list-style-type: none"> <li>• Lecture Engineering Students</li> <li>• Supervise M.Sc. and PhD candidates</li> <li>• Conducting Research</li> <li>• Undertaking Outreach Activities.</li> </ul>
<b>11/04/2011 - 04/08/2014</b>	<b>Employer:</b> School of Engineering and Information Technology Murdoch University, Western Australia.	<b>Australia</b>	<ul style="list-style-type: none"> <li>• Lecture Engineering Students</li> <li>• Supervise M.Sc. and PhD candidates</li> </ul>

	<b>Position;</b> Lecturer in Energy Studies and Renewable Energy Engineering		
19/10/2006 – 11/09/2008	<b>Employer:</b> Mechanical Engineering Department, University of Canterbury. <b>Position;</b> Teaching Assistant <b>Reference:</b> Prof. Susan Krumdieck Tel: +64 364 2987 ext. 7249 <b>Email:</b> S.Krumdieck@hw.ac.uk	<b>New Zealand</b>	<b>Courses Taught</b> (Under the supervision of Prof. Susan Krumdieck): <ul style="list-style-type: none"> <li>• Energy Engineering</li> <li>• Thermodynamics</li> </ul>

## 7. TEACHING AND SUPERVISION

- i. Thesis Supervision - 10 Ph.D., Over 40 MSc/MPhil
- ii. Solar Thermal Systems and Applications, Energy Management, Renewable Energy Engineering Projects, Energy Systems, Energy in Society, Renewable Energy Devices

## 8. RESEARCH GRANT OBTAINED

Title	Role	Project Amount /Funder	Status (As of 31 Feb 2025)
<p><b>GreenTech Mobility: Advancing sustainable technologies through academic collaboration in Africa</b></p> <p>Africa stands at a critical juncture in its pursuit of sustainable technologies, with its rich natural resources and youthful population offering immense potential to address global challenges such as climate change, energy access, and economic growth. However, progress is hindered by a lack of skilled professionals, insufficient collaboration between academia and industry, and outdated higher education systems. These gaps demand urgent action to build the human and institutional capacities necessary for sustainable development and economic transformation. The GreenTech Mobility project titled “Advancing</p>	Project lead (Ghana)	€3,000,000/European Commission	Ongoing, 2025-present

<p>Sustainable Technologies through Academic Collaboration in Africa" intends to equip 26 Master's students, 9 Ph.D. candidates, 12 trainees, and 9 academic staff with technical and professional skills for emerging green industries, modernize curricula to align with Africa's development priorities, and strengthen African higher education institutions to deliver quality education and foster global collaboration. Inclusivity and gender equity are central to the project's mission, with targeted scholarships (50%) for women and marginalized groups, mentorship programs in STEM fields, and institutional policies addressing structural inequities. This will foster a more inclusive academic and professional environment, and empowers women and marginalized groups to take on leadership roles in the green technology sector.</p>			
<p><b>Hosting of Sustainable Energy Service Centres (SESCs)</b>  Regional Centre for Energy and Environmental Sustainability (RCEES) in Consortium with Sunyani Technical University, Kumasi Technical University and the Energy Foundation was selected to host one of the three Sustainable Energy Service Centres (SESC) in Ghana established by the Millennium Development Authority (MiDA) under the Millennium Challenge Compact (MCC). The SESC are to provide tertiary education services including training and certification of energy auditors and sustainable energy (SE) services for promoting SE market under the Energy Efficiency and Demand Side Management</p>	<p>Lead Investigator (Center Director)</p>	<p>Millennium Development Authority (MiDA)</p>	<p>Ongoing, 2020-2030</p>

<p>(EEDSM) component of the Compact Program. RCEES is the leader of this consortium.</p>			
<p><b>Professional Education for Renewable Energy in Ghana (ProREG)</b></p> <p>In the ProREG project, the Technische Universität Berlin is working with the universities Kwame Nkrumah University of Science and Technology (KNUST) and the University for Energy and Natural Resources (UENR) as well as six corporate partners to address the lack of labour market relevance of education in the field of renewable energy in Ghana.</p>	<p>Principal Investigator</p>	<p>€ 615,151 German Federal Ministry for Economic Cooperation and Development (BMZ) through TU Berlin/DAAD</p>	<p>2022-2025</p>
<p><b>Erasmus+ Project no. 586416: Enhancing Entrepreneurship, Innovation, and Sustainability in Higher Education in Africa (EEISHEA)</b></p> <p>The project is under the Erasmus+ Capacity Building in Higher Education programme. It involves 5 African and 5 European universities.</p> <p>The project aims:</p> <ul style="list-style-type: none"> <li>• To initiate sustained educational change in Higher Education study programmes, to ensure curricula that are highly relevant to the contemporary economic and social needs of Africa.</li> <li>• To equip graduates with skills and competences for employability and self-employment.</li> </ul>	<p>Local Project Coordinator</p>	<p>€999,849.00 EU Commission</p>	<p>October 2018 – October 2021</p>

<p>To foster trans-African and trans-continental cooperation between HE institutions in East and West Africa and in the EU, as well as local cooperation with external stakeholders.</p>			
<p><b>China South-South Cooperation on Climate Change</b>  The Climate Change South-South Cooperation Project is an initiative launched by the National Development and Reform Commission (NDRC) of the People's Republic of China to help developing countries address the adverse effect of climate change through the provision of renewable energy goods and energy-efficient appliances. The University of Energy and Natural Resources (UENR) through the then Ministry of Energy and Petroleum (MoEP) was selected to benefit from the project with 500 Solar Street Lights, 1000 Inverter Air-Conditioning Units, and 2000 Solar Home Systems to enhance its domestic capacity in combating climate change. UENR and the Ministry of Energy (MoE) are the main distributors and implementors of the project to Off-Grid communities in the northern belt and southern belt of the country respectively.</p>	<p>Principal Investigator</p>	<p>5.0 million Dollars   China Government  China Government through the National Development and Reform Commission of the People's Republic of China</p>	<p>2015 - 2020</p>
<p><b>World Bank Centre of Excellence for Development Impact: Regional Center for Energy and Environmental Sustainability</b>   This was in response to the World Bank's call for proposals for African Centres of Excellence (ACE), the University of Energy and Natural Resources proposed the establishment of the Regional</p>	<p>Deputy Project Leader</p>	<p>\$ 6.4 million US Dollars   World Bank  World Bank</p>	<p>2019– 2025</p>

Centre for Energy and Environmental Sustainability (RCEES). The proposal was accepted. The Centre currently serves as an energy and environmental sustainability hub and consulting facility in the Africa Sub-Region for knowledge generation in sustainable energy technologies.

The main objectives of the ACE Project are to;

- Provide international quality post-graduate education to regional and national students focused on a specific regional development challenge.
- Enhance the impact of the ACE on development through private and public sector partnerships. This will also include short term training to professionals already working, internship for students, contract research, data collection, policy advice and research
- Deliver research in response to development challenges, including through partnerships with private and public partners.
- Improve Governance and management of the ACE to become an institution of excellence.
- Strengthen regional and international academic partnerships to raise the quality of education at partner institutions and network partners and to raise the ACE's capacity to manage these partnerships. Results will be achieved

through regional students and revenue generated.			
<p><b>Moving IMPACT: Integrated Means to Power Agriculture, Cooking and Transportation.</b> This project will explore how mini-grids with EV charging infrastructure for small vehicles can be integrated into agricultural areas and support various community needs. It will develop geographical models to identify optimal locations for these mini-grids and evaluate how different technologies and applications can be combined.</p>	Project co-lead (international)	UKRI – UK Research and Innovation Grant amount of £3,556,573	Ongoing, 2025 - 2027
<p><b>Gendered Design in STEAM (GDS) in Lower and Middle-income Countries (LMIC)</b></p> <p>A sub-award from Carleton University, Canada on Gendered Design in STEAM (GDS) in Lower and Middle-income Countries (LMIC). The overall objective of the GDS program is to build capacity for research, design, and dissemination of gendered innovations in Science, Technology, Engineering, the Arts, and Mathematics (STEAM), addressing challenges predominantly faced by women in LMICs. RCEES Work Package under the program is to develop an Energy access strategy for disadvantaged communities in Ghana” period starting from September 1, 2020, and ending on April 30, 2022. The project has offered two scholarships; one to a PhD student and another to an MSc Student.</p>	Principal Investigator	<p>Carleton University, Carleton International 511 Tory Building 1125 Colonel by Drive Ottawa, ON, K1S 5B6 Canada.</p> <p>Grant Amount: 15,000 Dollars.</p>	Sept. 2020 - April, 2022
<p><b>Market Entry into Renewable Energy (RE) and Energy Efficiency (EE) for the Productive Sector:</b></p> <p>A partnership between The Energy Service Centre of the Association of Ghana Industries (AGI-ESC) and RCEES-UENR to provide hands-on-</p>	Project Leader at UENR	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)	Sept 2020 to April 2022

training to commercial and industrial electricity consumers and service providers in renewable energy (RE) and energy efficiency (EE) under the auspices of the GIZ Market Entry into Renewable Energy (RE) and Energy Efficiency (EE) for the Productive Sector in Ghana project. The duration of this partnership shall be 14 months.			
<p><b>Technical Training on Design, Installation, and Maintenance of Off-grid and Grid Connected Solar PV Systems.</b></p> <p>A contract by the Ghana Energy Commission to train PV installers on the design and installation of photovoltaic (PV) systems, with a focus on both grid and off-grid solar electric systems. This training also provided effective use of energy modelling softwares such as HOMER and RETScreen for easy technical design and financial engineering of renewable energy technologies. The goal of this training is to create unique and specialized practical concepts needed to work on all PV systems, including system components, system sizing, site analysis, PV module criteria, mounting solutions, over-current protection, grounding, safety, and commissioning</p>	Project Leader	Ghana Energy Commission.  73,200.00 GHS.	5 <sup>th</sup> February to 2 <sup>nd</sup> March, 2028
<p><b>ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE) Certification for UENR to participate in the Regional Certification Programme for Solar PV Installers</b></p>	Project Leader at UENR	ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE)	28 <sup>th</sup> November 2017 to Date

## 9. SELECTED SERVICE TO THE INTERNATIONAL COMMUNITY

- i. Director, Regional Center for Energy and Environmental Sustainability, UENR, Ghana – 2025 - Present
- ii. Head, Renewable Energy Engineering Department, University of Energy and Natural Resources (UENR), Ghana 2024 - Present

- iii. Dean, School of Energy, University of Energy and Natural Resources, (UENR), Ghana 2022 - 2024
- iv. Deputy Director, Regional Center for Energy and Environmental Sustainability, UENR, Ghana – 2019 - 2025
- v. Dean of Students Affairs, University of Energy and Natural Resources (UENR) 2017 –2019
- vi. Acting Head, Mechanical and Manufacturing Engineering Department, University of Energy and Natural Resources (UENR) 2015–2017
- vii. External Examiner: Pan African University Institute of Water and Energy. Master of Science in Energy Engineering/Energy Policy, 2018
- viii. Guest Lecturer: Université Abdou Moumouni, Niger. WASCAL Master Research Program-Climate Change and Energy, 2017
- ix. Invited Seminar on Demand Response at the University of South Africa (UNISA), 2011
- x. Examiner of MSc Renewable Energy Thesis, Murdoch University since September, 2011
- xi. External Examiner of the Mtech degree in Mechanical Engineering at the University of South Africa (UNISA)
- xii. Examiner of PhD thesis in Mechanical Engineering, Kwame Nkrumah University of Science and Technology (KNUST), Ghana.

#### 10. NOMINATIONS AND AWARDS

- i. Ghana Energy Awards (2025) – Lead RCEES to win the **Energy Institution of the Year (RCEES) Award**.
- ii. Ghana Energy Awards (2025) – Nominated for the **Energy Signature Award**
- iii. Ghana Energy Awards (2025) – Nominated for **the Chief Green Trailblazer Award**

#### 11. LIST OF PUBLICATIONS

1. **Gyamfi, S.**, Sekyere, C., Quansah, D. A., & Romero, O. R. (2026). Analysing the Renewable Energy. Empowering Ghana's Engineering Future: A Model for Professional Education in Renewable Energy—and beyond, 26.
2. Longmuss, J., Akowuah, J. O., & **Gyamfi, S.** (2026). The Process of Creating. Empowering Ghana's Engineering Future: A Model for Professional Education in Renewable Energy—and beyond, 66.
3. Oduro, W., Wolf, S., **Gyamfi, S.**, Akowuah, J., & Longmuss, J. (Eds.). (2026). Empowering Ghana's Engineering Future: A Model for Professional Education in Renewable Energy—and beyond. Berlin Universities Publishing.

4. Longmuss, J., Akowuah, J. O., & **Gyamfi, S.** (2026). The Process of Creating New, Practice-Relevant Study Modules. EMPOWERINGGHANA'SENGINEERINGFUTURE, 66.
5. A Comparative Analysis of Selected Improved Biomass Cookstoves' Temperature Profiles Using the Testo 310 Flue Gas Analyzer New Energy Exploitation and Application 2025-07-30, DOI: [10.54963/need.v4i2.1233](https://doi.org/10.54963/need.v4i2.1233)
6. Nyasapoh, M., **Gyamfi, S.**, Debrah, S. K., Gabbar, H., Derkyi, N., Nassar, Y., ... & El-Khozondar, H. (2025). Navigating renewable energy transition challenges for a sustainable energy future in Ghana. *Solar energy and sustainable development Journal*, 14(1), 237-257.
7. **Gyamfi, S.**, Peprah, F., Kwame, A., & Aboagye, B. (2025). Electricity prosumption adoption: what to know and what you can do. In *The Intersection of Blockchain and Energy Trading* (pp. 193-220). Elsevier. <https://doi.org/10.1016/B978-0-443-23627-3.00009-0>
8. Effah E., **Gyamfi S.**, Anabadongo M. A., Diawuo F. A (2025) Post technical assessment and field manual for solar home systems in island communities: The case of Ghana. *Solar Compass* 14 (2025) 100107. <https://doi.org/10.1016/j.solcom.2025.100107>
9. **Gyamfi, S.**, Peprah, F., Kwame, A., & Aboagye, B. (2025). Electricity prosumption adoption: what to know and what you can do. In *The Intersection of Blockchain and Energy Trading* (pp. 193-220). Elsevier. <https://doi.org/10.1016/B978-0-443-23627-3.00009-0>
10. Amoah Nyasapoh, M., **Gyamfi, S.**, Debrah, S. K., Gabbar, H. A., & Agyemang Derkyi, N. S. (2024). Ghana's Path to a Sustainable Energy Future: Assessing Renewable (Solar and Wind) Energy Penetration in the Generation Mix. Samuel and Debrah, Seth Kofi and Gabbar, Hossam A. and Agyemang Derkyi, Nana Sarfo, Ghana's Path to a Sustainable Energy Future: Assessing Renewable (Solar and Wind) Energy Penetration in the Generation Mix.
11. Iweh C.D., **Gyamfi S.**, Effah-Donyina E., Tanyi E., (2024) Analysis of contingency scenarios towards a suitable transmission pathway in the southern interconnected grid (SIG) of Cameroon. *e-Prime - Advances in Electrical Engineering, Electronics and Energy* 7 (2024) 100486. <https://doi.org/10.1016/j.prime.2024.100486>
12. Asante K., **Gyamfi S.**, Amo-Boateng M., Peprah F., (2023) Techno-economic analysis of solar PV electricity generation at the University of Environment and Sustainable Development in Ghana. *Energy Reports* 11(2024) 659 – 673 June 2024, Pages 659-673. <https://doi.org/10.1016/j.egy.2023.12.028>
13. Nyasapoh M. A, **Gyamfi S.**, Debrah S. K., Gaber A. H., Derkyi N. A. A (2023) Evaluating the Effectiveness of Clean Energy Technologies (Renewables

and Nuclear) and External Support for Climate Change Mitigation in Ghana2023 IEEE the 11th International Conference on Smart Energy Grid Engineering

14. Ahialey K. E., Kabo–Bah, T. A., **Gyamfi S.** (2023) Impacts of LULC and climate changes on hydropower generation and development: A systematic review. *Heliyon* 9 (2023) e21247. <https://doi.org/10.1016/j.heliyon.2023.e21247>
15. Abdulai D., **Gyamfi S.**, Diawuo F. A., Acheampong P. (2023) Data analytics for prediction of solar PV power generation and system performance: A real case of Bui Solar Generating Station, Ghana *Scientific African*. <https://doi.org/10.1016/j.sciaf.2023.e01894>
16. Ajiboye O. K., Ochiegbu C. V. Ofosu, A. E., **Gyamfi, S.** (2023) A review of hybrid renewable energies optimization: design, methodologies, and criteria. *International Journal of Sustainable Energy* 2023, VOL. 42, NO. 1, 648–684. <https://doi.org/10.1080/14786451.2023.2227294>
17. Akpoti, K., Obahoundje, S., Mortey, E. M., Diawuo, F. A., Antwi, E. O., **Gyamfi, S.**, ... & Kabo-bah, A. T. (2023). Technological advances in prospecting sites for pumped hydro energy storage. *Pumped Hydro Energy Storage for Hybrid Systems*, 105-118. <https://doi.org/10.1016/B978-0-12-818853-8.00009-1>
18. **Gyamfi, S.**, Asuamah, E. Y., & Gyabaah, J. A. (2023). Techno-economic challenges of pumped hydro energy storage. In *Pumped Hydro Energy Storage for Hybrid Systems* (pp. 119-135). Academic Press. <https://doi.org/10.1016/B978-0-12-818853-8.00011-X>Get rights and content
19. Ajiboye O. K., Ofosu, A. E., **Gyamfi, S.** Oki O. (2023) Hybrid Renewable Energy System Optimization via Slime Mould Algorithm. *International Journal of Engineering Trends and Technology*. Vol. 71 Issue 6, 83-95, June 2023 <https://doi.org/10.14445/22315381/IJETT-V71I6P210>
20. **Gyamfi S.**, Aboagye B., Peprah F., Obeng M. (2023) Degradation analysis of polycrystalline silicon modules from different manufacturers under the same climatic conditions. *Energy Conversion and Management: X* 20 (2023) 100403 <https://doi.org/10.1016/j.ecmx.2023.100403>
21. Ayuketah I, **Gyamfi S.**, Diawuo F. A, Dagoumas A.S. (2023) Assessment of low-carbon energy transitions policies for the energy demand sector of Cameroon. *Energy for Sustainable Development* 72(2023) 252-264. <https://doi.org/10.1016/j.esd.2022.12.014>
22. Iweh C.D., **Gyamfi S.**, Tanyi E., Effah-Donyina E. (2023) Economic viability and environmental sustainability of a grid-connected solar PV plant in Yaounde – Cameroon using RETScreen expert. *Cogent Engineering*, 10:1, 2185946. <https://doi.org/10.1080/23311916.2023.2185946>
23. Peprah F., Aboagye B., Amo-Boateng M., **Gyamfi S.** Effah-Donyina E. (2023) Economic evaluation of solar PV electricity prosumption in Ghana. *Solar Compass* 5 (2023) 100035. <https://doi.org/10.1016/j.solcom.2023.100035>

24. Iweh C.D., **Gyamfi S.**, Tanyi E., Effah-Donyina E. (2023) Assessment of the optimum location and hosting capacity of distributed solar PV in the southern interconnected grid (SIG) of Cameroon. *International Journal of Sustainable Energy*. <https://doi.org/10.1080/14786451.2023.2168002>
25. Lahai U. M., Ofosu, E. A., **Gyamfi S.**, Diawuo, F. A., Kallon H. A. P., (2022) Technical Considerations for the Design and Selection of Improved Cookstoves: A Review. *International Journal of Engineering Trends and Technology* Volume 70 Issue 12, 439-449 <https://doi.org/10.14445/22315381/IJETT-V70I12P242>
26. Ayuketah Y., **Gyamfi S.**, Diawuo F. A., Dagoumas A. S. (2022) Power generation expansion pathways: A policy analysis of the Cameroon power system *Energy Strategy Reviews* 44 (2022), 101004 <https://doi.org/10.1016/j.esr.2022.101004>
27. Peprah F., **Gyamfi S.**, Amo-Boateng M., Buadi E., Obeng M., (2022) Design and construction of smart solar-powered egg incubator based on GSM/IoT. *Scientific African* Volume 17. <https://doi.org/10.1016/j.sciaf.2022.e01326>
28. Avordeh T. K, **Gyamfi S**, Opoku A. A. (2022) Estimating Residential Electricity Consumption for Appliance Use: A Statistical Model Approach **IEEE Xplore**. 10.1109/ICECET52533.2021.9698647
29. **Gyamfi, S.**, Diawuo, F. A., Asuamah, E. Y., & Effah, E. (2022). The role of demand-side management in sustainable energy sector development. In *Renewable Energy and Sustainability* (pp. 325-346). Elsevier. <https://doi.org/10.1016/B978-0-323-88668-0.00010-3>
30. Asamoah S. S., **Gyamfi S.**, Uba F., Mensah S. G., (2022) Comparative assessment of a stand-alone and a grid-connected hybrid system for a community water supply system: A case study of Nankese community in the eastern region of Ghana. *Scientific African* 17 (2022) <https://doi.org/10.1016/j.sciaf.2022.e01331>
31. Nyasapoh M. A., Debrah S., K, Twerefou D. K, **Gyamfi S.**, Kholi, F. K (2022) An Overview of Energy Resource and Future Concerns for Ghana's Electricity Generation. *Journal of Energy* Volume 2022. <https://doi.org/10.1155/2022/1031044>
32. Peprah F., **Gyamfi S.**, Amo-Boateng M., Effah-Donyina E. Impact assessment of grid tied rooftop PV systems on LV distribution network (2022). *Scientific African* 16 (2022) <https://doi.org/10.1016/j.sciaf.2022.e01172>
33. Ochiegbu C. V., **Gyamfi S**, Ofosu E. (2022) Modeling, Simulation and Design of Hydro-Solar Isolated Micro-grid without a Battery Storage System: A Case Study for Aba Business Cluster, Nigeria. *International Journal of Engineering Trends and Technology* Volume 70 Issue 2, 125-136, February, 2022 <https://ijettjournal.org/archive/ijett-v70i2p215>
34. **Gyamfi, S.**, Diawuo, F. A., Asuamah, E. Y., & Effah, E. (2022). The role of demand-side management in sustainable energy sector development. In *Renewable Energy and Sustainability* (pp. 325-346). Elsevier. <https://doi.org/10.1016/B978-0-323-88668-0.00010-3>

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## 12. MEMBERSHIP OF PROFESSIONAL BODIES

Member: Engineers Australia  
 Member: Ghana Science Association  
 Member: Ghana Institution of Engineering

## 13. REFERENCES

**Prof. Susan Krumdieck (Formerly at the University of Canterbury)**

Professor,  
Heriot-Watt University, Scotland, United Kingdom  
Edinburgh, Scotland  
UK EH14 4AS

Tel.: +44 131 449 5111  
s.krumdieck@hw.ac.uk

**Prof. Francis Attiogbe**

Head of Department, School of Engineering  
University of Energy and Natural Resources  
Box 214  
Sunyani

Tel: + 233 244 252615  
Email: [francis.attiogbe@uenr.edu.gh](mailto:francis.attiogbe@uenr.edu.gh)

**Prof. Tania Urmee**

School of Engineering and Information Technology  
Murdoch University  
Perth, Western Australia

Email: [T.Urmee@murdoch.edu.au](mailto:T.Urmee@murdoch.edu.au)