

KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI  
COLLEGE OF ENGINEERING

# Curriculum Vitae

FRANCIS KEMAUSUOR, PhD

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## 1. Personal details

**Family name:** Kemausuor

**First name:** Francis

**Date of birth:** 22 March 1981

**Nationality:** Ghanaian

**Civil status:** Married

## 2. Education

Institution (Date from - Date to)	Degree(s) or Diploma(s) obtained:
Technical University of Denmark (Denmark) / Kwame Nkrumah University of Science and Technology (Ghana) (2012 – 2015)	PhD Bioengineering
University of Cambridge (2005 – 2006)	MPhil Engineering for Sustainable Development
Kwame Nkrumah University of Science and Technology, Ghana (2000 – 2004)	BSc. Agricultural Engineering

## 3. Current and previous positions

November 2023 – date      **Dean**, Faculty of Mechanical and Chemical Engineering, College of Engineering, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi

November 2022 – October 2023      **Head**, Department of Agricultural and Biosystems Engineering, College of Engineering, KNUST, Kumasi

August 2019 – October 2022      **Director**, The Brew-Hammond Energy Centre, College of Engineering, KNUST, Kumasi

November 2021 – date                      **Energy Thematic Lead**, Responsible Artificial Intelligence Lab (RAIL), College of Engineering, KNUST, Kumasi

August 2019 – date                      **Renewable Energy Research Theme Lead**, KNUST Engineering Education Project (KEEP), College of Engineering, KNUST, Kumasi

**4. Membership of professional bodies**

Ghana Institution of Engineering (GhIE)

**5. Selected professional renewable energy related assignments (as short-term expert)**

<b>Date from - Date to</b>	<b>Location</b>	<b>Institution</b>	<b>Description</b>
January – December 2023	Ghana	GIZ	Preparation of the Ghana Energy Efficiency Strategy and Action Plan (NEESAP)
November 2022 – June 2023	Ghana	World Bank	Impact Assessment of the Ghana Energy Transition Plan
December 2021 – June 2022	Ghana	Energy Commission, Ghana	Development of Licencing Scheme for Solar Pumps Service Providers
May 2021 – December 2021	Ghana	UNIDO	Ghana Industrial Energy Efficiency Readiness Project: Development of the industrial energy efficiency policy framework for Ghana
October 2022 – May 2023	Ghana	Energy Commission, Ghana	Establishment of Energy-Academy for Energy Commission, Ghana
April 2020 – December 2021	Ghana	GFA Consulting Group GmbH	Market Entry into Renewable Energies and Energy Efficiency for the Productive Sector
March – April 2020	Ghana	UNDP	Gender Audit of the Draft National Energy Policy of Ghana
July 2019 – February 2020	Ghana	Practical Action Consulting	Preparation of National Action Plan for mainstreaming gender into energy access in Ghana
June 2019 – March 2020	Ghana	Copenhagen Consensus Centre	Ghana Priorities Project – undertake cost-benefit analyses of 3 interventions addressing rural electrification in the context of Ghana

December 2018 to January 2019	Ghana	Netherland Development Organisation (SNV)	Viability analysis of mini-grid based electrification in Ghana
December 2017 to February 2018	Ghana	MWH SA/NV, Belgium	Energy Sector Scoping Mission for EU Funding for Investments
August to October 2017	Ghana	SNV	Analysis of policies and regulatory frameworks governing the deployment of off-grid based mini-grid electrification systems in Ghana
March 2016 – July 2017	Ghana	Energy Commission, Ghana	Facilitator to the Ghana Renewable Energy Masterplan (REMP) Development Taskforce
May – July 2016	Ghana	MWH SA/NV, Belgium	DFID – Technical Assistance to develop the Energy Africa Plan of Action for Ghana
February – March 2016	Ghana	MWH SA/NV, Belgium	Technical Assistance Mission of the Technical Assistance Facility of EU (TAF) for Ghana for Sector analysis, formulation of activities in support to the energy intensification of the irrigation sector in Northern Ghana
September to December 2015	Ghana	UNDP	Identification of Barriers to Renewable Energy Technology Transfer to Ghana
January to December 2015	Ghana	UNEP	GE-TOP Ghana Strategy Proposal: Realizing solar PV projects in a cross-border power supply context
July to December 2015	Ghana	MWH SA/NV, Belgium	World Bank Readiness for Investment in Sustainable Energy (RISE): Country-level data collection
November to December 2014	Ghana	Energy Commission, Ghana	Development of GIS maps, alternative business development scenarios, and toolkits for energy planning and policy - phase 2. This work produced a web-accessible GIS toolkit for energy planning and policy in Ghana
August 2014	Ghana	Trama Tecnoambiental, S.L., Spain	EU SE4ALL Technical Assistance Facility – Mission to Ghana - Energy Sector. Support the scaling up of reliable, efficient and clean energy services for the benefit of the population and of the country economic growth in Ghana.
March 2014 – February 2016	West Africa	EU-ACP, with ECOWAS Renewable Energy Centre (ECREEE) as implementing agency	Develop a platform through the use of geospatial technology to support policy makers, investors and other stakeholders with tailored information on the energy sector in West Africa
October – December, 2012	Ghana	UNEP	Perform an analysis of energy demand in 2600 un-electrified Ghanaian communities in Ghana using the Network Planner tool, and determine cost-optimised electrification options/technologies capable of satisfying the estimated demand
April to October, 2010	Ghana	Energy Commission, Ghana	Development of GIS Maps, Alternative Business Development Scenarios, and Toolkits for Renewable Energy Planning and Policy.

June – August 2020	West Africa	University of Surrey	Feasibility study of the use of biomass-derived liquefied petroleum gas (bioLPG) for cooking in Africa
October 2019 – September 2021	Ghana	AIGUASOL, Spain	Bioenergy for Sustainable Local Energy Services and Energy Access in Africa
September 2016 – February 2017	Ghana	UNIDO	Biogas Resource Assessment for Ghana

## 6. Publications

Google Scholar Page: <https://scholar.google.com/citations?user=NXssq-UAAAAJ&hl=en>

### *Peer reviewed Journals*

1. Adu-Poku, A., Koku Aidam, G. S., Jackson, G. A., N'tsoukpoe, K. E., Kponyo, J. J., Messan, A., Ikonne, O., Kwarteng, W., & Kemausuor, F. (2023). Performance assessment and resilience of solar mini-grids for sustainable energy access in Ghana. *Energy*, 285, 129431. <https://doi.org/10.1016/j.energy.2023.129431>
2. N'tsoukpoe, K. E., Lekombo, S. C., Kemausuor, F., Ko, G. K., & Diaw, E. H. B. (2023). Overview of solar thermal technology development and applications in West Africa: Focus on hot water and its applications. *Scientific African*, 21, e01752. <https://doi.org/10.1016/j.sciaf.2023.e01752>
3. Ossei-Bremang, R. N., Akyereko Adjei, E., & Kemausuor, F. (2023). A novel framework for the simultaneous assessment and uptake of clean cooking technologies by food processing enterprises. *Cleaner and Responsible Consumption*, 11, 100141. <https://doi.org/10.1016/j.clrc.2023.100141>
4. Akolgo, G. A., Uba, F., Awafo, E. A., Asosega, K. A., Kemausuor, F., Kumi, F., & Adu-Poku, K. A. (2023). Energy analysis for efficient mechanisation of palm oil extraction in Ghana: Targeting circular economy. *Energy Reports*, 10, 4800–4807. <https://doi.org/10.1016/j.egyr.2023.11.018>
5. Ossei-Bremang, R. N., Adjei, E. A., Kemausuor, F., & Gyenin, E. K. (2023). Promoting industrial symbiosis and circularisation by optimising waste-based briquette shelf life. *Discover Energy*, 3(1), 7. <https://doi.org/10.1007/s43937-023-00020-6>
6. Osei, I., Addo, A., & Kemausuor, F. (2023). Optimal evaluation of crop residues for

- gasification in Ghana using integrated multi-criterial decision making techniques. *Heliyon*, 9(10), e20553. <https://doi.org/10.1016/j.heliyon.2023.e20553>
7. Osei, I., Addo, A., Kemausuor, F., & Abunde, F. (2023). Optimal Design of Gasifier Reactor for Crop Residues Gasification Using Integrated MCDM Techniques/QFD Approach. *Ghana Mining Journal*, 23(1), Article 1.
  8. Osei, I., Addo, A., Kemausuor, F., & Abunde, F. (2023). Development of Integrated QFD/MCDM Framework for Optimal Selection of Gasifier Reactor for Crop Residue Gasification in Ghana. *Ghana Mining Journal*, 23(1), Article 1.
  9. Ossei-Bremang, R. N., Adjei, E. A., & Kemausuor, F. (2023). Multivariate decisions: Modelling waste-based charcoal briquette formulation process. *Bioresource Technology Reports*, 22, 101483. <https://doi.org/10.1016/j.biteb.2023.101483>
  10. Ossei-Bremang, R. N., Adjei, E. A., Mockenhaupt, T., Bar-Nosber, T., & Kemausuor, F. (2023). Optimisation of Physio-chemical Properties of Blended Palm Kernel Shell and Decanter Cake Briquettes. *Materials Circular Economy*, 5(1), 9. <https://doi.org/10.1007/s42824-023-00079-5>
  11. Seglah, P. A., Neglo, K. A. W., Wang, H., Cudjoe, D., Kemausuor, F., Gao, C., Bi, Y., & Wang, Y. (2023). Electricity generation in Ghana: Evaluation of crop residues and the associated greenhouse gas mitigation potential. *Journal of Cleaner Production*, 395, 136340.
  12. Selormey, G. K., Barnes, B., Awafo, E. A., Kemausuor, F., & Darkwah, L. (2022). Development of mathematical model for predicting methane-to-carbon dioxide proportion in anaerobic biodegradability of cattle blood and rumen content. *Energy Conversion and Management: X*, 16, 100250.
  13. Gavaldà, O., González, A., Raya, M., Owen, M., Kemausuor, F., & Arranz-Piera, P. (2022). Life Cycle Cost analysis for industrial bioenergy projects: Development of a simulation tool and application to three demand sectors in Africa. *Energy Reports*, 8, 2908–2923. <https://doi.org/10.1016/j.egy.2022.02.016>
  14. Ezealigo, U. S., Ezealigo, B. N., Plaza, M. G., Dim, E. N., Kemausuor, F., Achenie, L. E. K., & Onwualu, A. P. (2022). Preliminary characterisation and valorisation of *Ficus benjamina* fruits for biofuel application. *Biomass Conversion and Biorefinery*. <https://doi.org/10.1007/s13399-021-02230-1>
  15. Mulugetta, Y., Sokona, Y., Trotter, P. A., Fankhauser, S., Omukuti, J., Somavilla Croxatto, L., Steffen, B., Tesfamichael, M., Abraham, E., Kemausuor, F. & Adam, J.-P. (2022). Africa needs context-relevant evidence to shape its clean energy future. *Nature Energy*, 1–8.
  16. Trotter, P. A., Mannan, I., Brophy, A., Sedzro, D., Yussuff, A., Kemausuor, F., & Mulugetta, Y. (2022). How climate policies can translate to tangible change: Evidence from eleven low-and lower-middle income countries. *Journal of Cleaner Production*, 346, 131014.
  17. Odoi-Yorke, F., Abofra, N., & Kemausuor, F. (2022). Decision-Making approach for evaluating suitable hybrid renewable energy system for SMEs in Ghana. *International Journal of Ambient Energy*, 0(0), 1–18. <https://doi.org/10.1080/01430750.2022.2068068>

18. Bukari, D., Quansah, D. A., Kemausuor, F., & Adaramola, M. S. (2022). Ex-post design, operations and financial cost-benefit analysis of mini-grids in Ghana: What can we learn? *Energy for Sustainable Development*, 68, 390–409. <https://doi.org/10.1016/j.esd.2022.04.009>
19. Bukari D, Kemausuor F, Quansah DA, Adaramola MS (2021). Towards accelerating the deployment of decentralised renewable energy mini-grids in Ghana: Review and analysis of barriers. *Renewable and Sustainable Energy Reviews*. 2021 Jan 1;135:110408.
20. Ezealigo, U. S., Ezealigo, B. N., Kemausuor, F., Achenie, L. E. K., & Onwualu, A. P. (2021). Biomass Valorization to Bioenergy: Assessment of Biomass Residue and Availability and Bioenergy Potential in Nigeria. *Sustainability*, 13(24), 13806. <https://doi.org/10.3390/su132413806>
21. Selormey, G. K., Barnes, B., Kemausuor, F., & Darkwah, L. (2021). A review of anaerobic digestion of slaughterhouse waste: Effect of selected operational and environmental parameters on anaerobic biodegradability. *Reviews in Environmental Science and Bio/Technology*. <https://doi.org/10.1007/s11157-021-09596-8>
22. Offei, F., Koranteng, L. D., & Kemausuor, F. (2021). Integrated bioethanol and briquette recovery from rice husk: A biorefinery analysis. *Biomass Conversion and Biorefinery*. <https://doi.org/10.1007/s13399-021-01731-3>
23. Black, M. J., Roy, A., Twinomunuji, E., Kemausuor, F., Oduro, R., Leach, M., Sadhukhan, J., & Murphy, R. (2021). Bottled Biogas—An Opportunity for Clean Cooking in Ghana and Uganda. *Energies*, 14(13), 3856. <https://doi.org/10.3390/en14133856>
24. Chen, K. C., Leach, M., Black, M. J., Tesfamichael, M., Kemausuor, F., Littlewood, P., Marker, T., Mwabonje, O., Mulugetta, Y., Murphy, R. J., Diaz-Chavez, R., Hauge, J., Saleeby, D., Evans, A. W., & Puzzolo, E. (2021). BioLPG for Clean Cooking in Sub-Saharan Africa: Present and Future Feasibility of Technologies, Feedstocks, Enabling Conditions and Financing. *Energies*, 14(13), 3916. <https://doi.org/10.3390/en14133916>
25. Ossei-Bremang, R. N., & Kemausuor, F. (2021). A decision support system for the selection of sustainable biomass resources for bioenergy production. *Environment Systems and Decisions*. <https://doi.org/10.1007/s10669-021-09810-6>
26. Osei, I., Addo, A., & Kemausuor, F. (2021). Crop Residues Utilisation for Renewable Energy Generation in Ghana: Review of Feedstocks Assessment Approach, Conversion Technologies and Challenges. *Ghana Journal of Technology*, 5(2), 29–42.
27. Azaare, L., Commeh, M. K., Smith, A. M., & Kemausuor, F. (2021). Co-hydrothermal carbonization of pineapple and watermelon peels: Effects of process parameters on hydrochar yield and energy content. *Bioresource Technology Reports*, 15, 100720. <https://doi.org/10.1016/j.biteb.2021.100720>
28. Boafo-Mensah, G., Neba, F. A., Tornyeviadi, H. M., Seidu, R., Darkwa, K. M., & Kemausuor, F. (2021). Modelling the performance potential of forced and natural-draft biomass cookstoves using a hybrid Entropy-TOPSIS approach. *Biomass and Bioenergy*, 150, 106106. <https://doi.org/10.1016/j.biombioe.2021.106106>
29. Nelson N, Darkwa J, Calautit J, Worall M, Mokaya R, Adjei E, Kemausuor F., Ahiekpor J. (2021). Potential of Bioenergy in Rural Ghana. *Sustainability* 2021, 13, 381.

<https://doi.org/10.3390/su13010381>

30. Azasi VD, Offei F, Kemausuor F, Akpalu L. Bioenergy from crop residues: A regional analysis for heat and electricity applications in Ghana. *Biomass and Bioenergy*. (2020) Sep 1;140:105640.
31. Osei I, Kemausuor F, Commeh MK, Akowuah JO, Owusu-Takyi L. (2020) Design, Fabrication and Evaluation of Non-Continuous Inverted Downdraft Gasifier Stove Utilizing Rice husk as feedstock. *Scientific African*. Jul 1;8:e00414.
32. Akolgo, G.A., Kemausuor, F., Awafo, E.A., Amankwah, E., Atta-Darkwa, T., Essandoh, E.O., Bart-Plange, A. and de Freitas Maia, C.M.B. (2020). Biochar as a Soil Amendment Tool: Effects on Soil Properties and Yield of Maize and Cabbage in Brong-Ahafo Region, Ghana. *Open Journal of Soil Science*, 10, 91-108.
33. Issah, A.-A., Kabera, T., Kemausuor, F. (2020). Biogas optimisation processes and effluent quality: A review. *Biomass and Bioenergy* 133, 105449. <https://doi.org/10.1016/j.biombioe.2019.105449>
34. Offei, F., Mensah, M., Kemausuor, F. (2019). Cellulase and acid-catalysed hydrolysis of *Ulva fasciata*, *Hydropuntia dentata* and *Sargassum vulgare* for bioethanol production. *SN Appl. Sci.* 1, 1469. <https://doi.org/10.1007/s42452-019-1501-5>
35. Offei, F., Mensah, M., Kemausuor, F., Thygesen, A. (2019). A biorefinery approach to bioethanol and bioelectricity co-production from tropical seaweeds. *J Appl Phycol* 31, 3899–3913.
36. Commeh, M.K., Kemausuor, F., Badger, E.N., Osei, I. (2019). Experimental study of ferrocement downdraft gasifier engine system using different biomass feedstocks in Ghana. *Sustainable Energy Technologies and Assessments* 31, 124–131.
37. Offei, F., Mensah, M., Thygesen, A., Kemausuor, F. (2018). Seaweed Bioethanol Production: A Process Selection Review on Hydrolysis and Fermentation. *Fermentation* 2018, 4(4), 99. <https://doi.org/10.3390/fermentation4040099>
38. Kemausuor, F., Adaramola, S. M., Morken, J. (2018). A Review of Commercial Biogas Systems and Lessons for Africa. *Energies* 11. <https://doi.org/10.3390/en11112984>
39. Kemausuor, F., Sedzro, M.D. and Osei, I. (2018). Decentralised Energy Systems in Africa: Coordination and Integration of Off-Grid and Grid Power Systems-Review of Planning Tools to Identify Renewable Energy Deployment Options for Rural Electrification in Africa. *Curr Sustainable Renewable Energy Rep*, 5, 214–223.
40. Singh, R., Kemausuor, F., Wooldridge, M. (2018). Locational analysis of cellulosic ethanol production and distribution infrastructure for the transportation sector in Ghana. *Renewable and Sustainable Energy Reviews*, 98, 393-406.
41. Selorm Y. Dorvlo, Ahmad Addo, Francis Kemausuor, Stephen Abenney-Mickson, Jesper Ahrenfeldt, and Ulrik Henriksen (2018). Evaluating the Effect of Two Chimney Configurations on the Overall Airflow and Heat Transfer of a Biomass Cook Stove. *Journal of Clean Energy Technologies* 6(5), 353-356.
42. Arranz-Piera, P., Kemausuor, F., Darkwah, L., Edjekumhene, I., Cortés, J., & Velo, E. (2018). Mini-grid electricity service based on local agricultural residues: Feasibility study



- in rural Ghana. *Energy* 153, 443-454
43. Mensah, L. D., Buertey, K. L., Kemausuor, F. (2017). Experimental analysis of three common tree species in Ghana. *International Journal of Engineering Sciences & Research Technology* 6(6), 133-141.
  44. Arranz-Piera, P., Kemausuor, F., Addo, A., Velo, E. (2017). Electricity generation prospects from clustered smallholder and irrigated rice farms in Ghana. *Energy* 121, 246-255.
  45. Osei, I., Akowuah J.O., Kemausuor, F. (2016). Techno-Economic Models for Optimised Utilisation of *Jatropha curcas* Linnaeus under an Out-Grower Farming Scheme in Ghana. *Resources* 2016, 5, 38; doi:10.3390/resources5040038
  46. Kemausuor, F., and Ackom, E. (2016). Towards universal electrification in Ghana. *WIREs Energy and Environment*; doi: 10.1002/wene.225
  47. Arranz-Piera, P., Bellot, O., Gavaldà, O., Kemausuor, F., and Velo, E. (2016). Trigeneration Based on Biomass - Specific Field Case: Agricultural Residues from Smallholder Farms in Ghana. *Energy Procedia*, 93, 146-153.
  48. Kemausuor, F., Bolwig, S. and Miller, S. (2016). Modelling the socio-economic impacts of modern bioenergy in rural communities in Ghana. *Sustainable Technologies and Assessments* 14,9-20
  49. Kemausuor, F., Addo, A. and Darkwah, L. (2015). Technical and Socioeconomic Potential of Biogas from Cassava Waste in Ghana. *Biotechnology Research International*, Volume 2015 (1-10), Article ID 828576, <http://dx.doi.org/10.1155/2015/828576>
  50. Kemausuor, F., Nygaard, I., and Mackenzie, G. (2015). Prospects for bioenergy use in Ghana using Long Range Energy Alternative Planning model. *Energy* 93, 672-682
  51. Bensah E.C., Kemausuor, F., Mieza, K., Kádárd, Z. and Mensah, M. (2015). African perspective on cellulosic ethanol production. *Renewable and Sustainable Energy Reviews* 49, 1-11.
  52. Ayamga, E. A., Kemausuor, F. and Addo, A. (2015). Technical analysis of crop residue biomass energy in an agricultural region of Ghana. *Resources, Recycling and Conservation* 96, 51-60.
  53. Kemausuor, F., Kamp, A., Thomsen, S. T., Bensah, E. C. and Østergård, H. (2014). Assessment of biomass residue availability and bioenergy yields in Ghana. *Resources, Recycling and Conservation* 86: 28–37
  54. Kemausuor, F., Adkins, E., Adu-Poku, I., Brew-Hammond, A. and Modi, V. (2014). Electrification planning using Network Planner tool: The case of Ghana. *Energy for Sustainable Development* 19: 92–101
  55. Mensah, G. S., Kemausuor, F., and Brew-Hammond, A. (2014). Energy Access Indicators and Trends in Ghana. *Renewable and Sustainable Energy Reviews* 30: 317-323
  56. Kemausuor, F., J. Akowuah and E. Ofori (2013). Assessment of Feedstock Options for Biofuels Production in Ghana. *Journal of Sustainable Bioenergy Systems* 3(2):119-128.
  57. Rockson, G. N.K., Kemausuor, F., Seasey, R. and Yanful E. (2013). Activities of scavengers and itinerant buyers in Greater Accra, Ghana. *Habitat International* 39:148–155

58. Akowuah, J. O., Kemausuor, F. and Mitchual S. J. (2012). Physico-Chemical Characteristics and Market Potential of Sawdust Charcoal Briquette. *International Journal of Energy and Environmental Engineering* 3:20 doi:10.1186/2251-6832-3-20
59. Kemausuor, F., Dwamena, A. and Appiah, D. O. (2012). Assessment of Farmers' Adaptation to Climate Change in Ghana: The Case of Ejura-Sekyeredumase District. *CASS Journal of Humanities*, 2(1):1-31
60. Kemausuor, F., Obeng, G. Y., Brew-Hammond, A. and Duker, A. (2011). A Review of Trends, Policies and Plans for Increasing Energy Access in Ghana. *Renewable and Sustainable Energy Reviews* 15: 5143– 5154
61. Kemausuor, F., Dwamena, E., Bart-Plange, A. and Kyei-Baffour, N. (2011). Farmers' Perception of Climate Change in the Ejura-Sekyedumase District of Ghana. *Journal of Agricultural and Biological Sciences* 6(10): 26-37
62. Dwamena, E. Banaynal, R. and Kemausuor F. (2011). Participatory Three Dimensional Model Mapping (P3DM): Expanding Rural Horizons and Decision Making for Food Security Planning, Climate Change Adaptation and Flood Risk Reduction in Ghana. *Research Journal of Agricultural Science* 43 (4):186-195
63. Brew-Hammond, A. and Kemausuor, F. (2009). Energy for All in Africa – To be or not to be?! *Current Opinion in Environmental Sustainability* 1:83–88
64. Arumugam, S., Cheah, K. Y., Fornasiero, P., Kemausuor, F., Zinoviev S. and Miertus S. (2009). Catalytic Applications in the Production of Biodiesel from Vegetable Oils. *ChemSusChem* 2:278 – 300
65. Bart-Plange A., Addo A. and Kemausuor F. (2005). Effect of harvesting times on the milling characteristics of newly improved local variety of rice (WITA-9) in Ghana. *Proceedings of the 2nd West Africa Society of Agricultural Engineering*, held on 20-24 September, 2004 in Kumasi, Ghana

### ***Books and Book Chapters***

66. Oduro MA, Gyamfi S, Sarkodie SA, Kemausuor F. Evaluating the Success of Renewable Energy and Energy Efficiency Policies; in Ghana: Matching the Policy Objectives against Policy Instruments and Outcomes. *Renewable Energy - Resources, Challenges and Applications*. DOI: 10.5772/intechopen.88278
67. Schertzer L, JP Painuly, JI Hansen, E Ackom, F Kemausuor (2020). High-impact opportunities for energy efficiency: a case study of improved cookstoves in Ghana, pp 148-162. In: *Energy Efficiency in Developing Countries: Policies and Programmes*, 1st Edition. Eds: Suzana Tavares da Silva, Gabriela Prata Dias. Routledge, Taylor and Francis Group. ISBN: 978-0-367-36197-6
68. Kemausuor, F., Yakah, E. and Kamp, A. (2014). Regional assessment of agricultural residue for bioenergy production in Ghana, 147-174. In: Roscoe, C. (ed), *Ghana: Social, Economic and Political Issues*, Nova Science Publishers Inc.
69. Appiah D. O. and Kemausuor F. (2012). Energy, Environment and Socio-Economic Development: Africa's Triple Challenge and Options. In: Tortora M. (Editor) *Sustainable*

Systems and Energy Management at the Regional Level: Comparative Approaches. IGI Global Publishers, 166-182, ISBN 978-1-61350-346-1

70. Brew-Hammond A. and Kemausuor F. (2010). Biofuels in Africa – Why Not Us?! In Neighbour Africa: Dimensions of a Continent. Edited by Lennkh G and Freudenschuss-Reich I, Passagen Verlag Ges. m. b. H., Wien, ISBN 987-3-85165-929-0 (Book in German), pp. 245-261
71. Brew-Hammond A. and Kemausuor F., ed. (2008). Renewable Energy in Africa: The Enterprise Development Approach. University Press, Kumasi, ISBN 9988-8377-3-9
72. Brew-Hammond A. and Kemausuor F., ed. (2007). Energy Crisis in Ghana: Drought, Technology or Policy? University Press, Kumasi, ISBN 9988-8377-2