

HELEN HOKA OSILO

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Nationality: Kenyan

Languages: English (Proficient), Swahili, (Proficient), French (Basic)

1. Education:

- PhD in Economics, University of Nairobi (2011-2015). Thesis: Indoor Air Pollution from Household Energy Use in Kenya: Analysis of Health and Abatement Efforts.
- Masters of Arts in Economics, University of Malawi (2006-2008).
- Bachelor of Arts, University of Nairobi (2002-2005)
- Computer General Equilibrium Model, University of Laval, 2019
- Evaluations of Public Policies, University of Laval, 2019
- Measuring and Alleviating Poverty and Inequality, 2019
- Computer General Equilibrium Modelling using General Algebraic Modeling System, Institute for Development Studies, 2019.
- Randomized Control Trials with J-PAL (A Refresher course, 2022)

2. Work experience/ Positions:

- 2023 -Present: Research Associate, Sustainable Transitions: Energy Environment and Resilience Centre (STEER), Loughborough University.
- 2018 -Present: Researcher/Lecturer, Strathmore University, Nairobi
- 2021 -2023 Jan: Policy Engagement Officer, Inclusive Green Growth in Practice for Senior Civil Servants and Policy makers Programme – Swedish International Development Cooperation Agency (SIDA).
- 2017 -Present: Research Fellow, Environment for Development, Kenya
- 2010 -2018: Senior Policy Analyst, Kenya Institute for Public Policy Research Analysis
- 2008 -2010: National Economist, Ministry of Planning, Kenya
- 2006: Research Consultant, UNHABITAT
- 2006: Infrastructure Assistant, Kenya Association of Manufacturers

3. RELEVANT PRESTIGIOUS APPOINTMENTS AND AWARDS:

- International Advisory Board Member, Energy Policy Journal.
- External Research Grant Reviewer and Evaluator on GCRF – FDCO funding, International Development Research Consortium, and the National Science Centre in Poland.
- Associate Editor, Energy for Sustainable Development Journal, Elsevier Sciences Amsterdam
- Lead Reviewer, Climate Change with International Development Research Centre, Canada
- Awarded a Certificate of Outstanding Contribution in Reviewing with the Editors of Energy for Sustainable Development in 2018, Elsevier, Amsterdam
- Awarded Early Career Researcher of the Year 2019, Awarded by Strathmore University

4. Thematic expertise & research interests: *(related to the call for proposal)*

- Clean Energy and Gender
- Climate Change and Sustainable Development
- Inclusive Green Growth
- 2019: Generating Energy Access by Istituto Affari Internazionali (IAI) and OCP Policy Centre.

5. Selected grants by donor/client: *(recent & most relevant to the call for proposal)*

- 2022: Future of Rural Africa – Focus on intensification and conservation discusses in the fields of agriculture, energy or tourism funded by German Research Council (DFG).
- 2022 – 2022: Evaluating the perceived benefits and determinants of pay as you go LPG use for cooking in Nairobi, Kenya, SETI Funding.
- 2019 -2020: Domestic financing for Decentralized Renewable Energy RE in Kenya Project with funding from HIVOS
- 2019: Project study on the benefits and cost of scaling up high speed train network in Africa
- 2018 -2019: Renewable Electricity Generation Implications of Cost, Returns and Investments to African Economies, with funding from AERC.
- 2018: Public Expenditure for Transport and Infrastructure sectors, for World Bank
- 2015 – 2017: Green Growth Diagnostic for Africa- Examining key areas of policy interventions to remove obstacles to investment in renewable technologies in Kenya and Ghana, a GCRF grant - ESPR.
- 2016 – 2018: Governing Inclusive Green Growth in Africa - Focused on the foundation for a robust assessment and understanding of the dynamics of green growth governance in Africa and the implications for sustainable economic transformation in the continent. Key countries; Nigeria, Kenya, South Africa, Ethiopia, and Rwanda. An a GCRF grant – EPSRC.

6. Selected recent publications: *(journal articles, papers, book chapters etc. related to the call for proposal)*

1. Mulugetta, Y., Sokona, Y., Trotter, P.A., **Osiolo**, H. H., et al. (2022) . Africa needs context-relevant evidence to shape its clean energy future. *Nat Energy* . <https://doi.org/10.1038/s41560-022-01152-0>.
2. **Osiolo**, H. H. (2021). Impact of cost returns and investments: Towards renewable energy generation in Sub-Saharan Africa. *Renewable Energy*. Volume 180, December 2021, Pages 756-772.
3. **Osiolo**, H. H. (2021) Cook Stove Technology Adoption: Evidence from Kenya. *Energy for Sustainable Development Journal*, Volume 63, August 2021, Pages 133-144.
4. Mavuti, K. W., **Osiolo**, H. H., and Kariuki, C. W., (2021). Public Wealth Management and Distribution in Kenya's Extractive Sector. In J. W. Moses, R. Penser, and G. Pereira. (Eds.) *Sovereign Wealth Funds, Local Content Policies and CSR* (pp. 55-71). Springer International Publishing.
5. Waithaka, I, Njogu, H., **Osiolo**, H., Mbaka, C, Gachanja, J. (2020). Prerequisites for Enhancing Local Content in the Energy Sector in Kenya. Kenya Institute for Public Policy Research and Analysis (KIPPRA) Discussion Paper No. 242
6. **Osiolo**, H., Sartori, N., and Colanton, L. (2019). Generating Energy Access. In L. Colantoni, G. Montesano, and N. Sartori (Eds.) *Empowering Africa: Access to Power in the African Continent* (pp 51-79). International Academic Publishers, Oxford, UK: Peter Lang.
7. Willenbockel, **Osiolo**, H., and D., Bawakyillenuo, S. (2017). Exploring the Macroeconomic Impacts of Low Carbon Energy Transitions: A Simulation Analysis for Kenya and Ghana. *IDS Bulletin*, Vol. 48, No. 5- 6: 49-78.
8. **Osiolo**, H., Pueyo, A. Gachanja, J. (2017). The Political Economy of Investment in Renewable Electricity in Kenya. *IDS Bulletin*, Vol 48, No. 5- 6: 119-140
9. **Osiolo**, H and Kimuyu, P. (2017). Demand for Indoor Air Pollution and Abatement Interventions. *BioPhysical Economics and Resource Quality Journal* 2:12
10. **Osiolo**, H. (2017). Willingness to pay for improved Energy in Kenya. *Journal, Renewable Energy* 112: 104-112
11. Spratt, S., Pueyo, A., **Osiolo**, H., and Bawakyillenuo, S. (2017). Green Investment Diagnostics for Africa: What are the Binding Constraints to Investment in Renewables in Kenya and Ghana? *IDS Research Report* 83.
12. Willenbockel, D., **Osiolo**, H. H., and Bawakyillenuo, S. (2017). Macroeconomic Effects of a Low Carbon Electricity Transition in Kenya and Ghana: An Exploratory Dynamic General Equilibrium Analysis, Brighton: IDS.
13. **Osiolo**, H. H. (2016). Green Energy Benefits: Policy Options for Kenya. UNU-INRA Policy Brief No. 13, United Nations University Institute for Natural Resources in Africa.

14. **Osiolo**, H. H. (2016). Green Energy and Its Impact on Employment and Economic Growth. UNUINRA Working Paper, 19: VII – 36. United Nations University Institute for Natural Resources in Africa.
15. Pueyo, A., **Osiolo**, H., and Bawakyillenuo, S. (2016). Cost and Returns of Renewable Energy in Sub-Saharan Africa: A Comparison of Kenya and Ghana. IDS Evidence Report No. 190.
16. Spratt, S., Pueyo, A., **Osiolo**, H., and Bawakyillenuo, S. (2016). From Growth to Green Growth Investments Diagnostics. IDS Evidence Report No. 472.
17. **Osiolo**, H. H. (2016). Intergovernmental Fiscal Transfers and Fiscal Capacity. International Journal of Public Administration, ISSN: 0190-0692.
18. Mutua, J., Ngui, **Osiolo**, H., D., Gachanja, J., Aligula, E. (2012). Consumer Satisfaction in the Energy Sector. Energy Policy, 48: 702-710 .
19. Ngui, D., **Osiolo**, H., Mutua, J., Aligula, E. (2011). Household Price and Fuel Expenditure Elasticities in Kenya: A Linear Approximate Almost Ideal Demand System (LA-AIDS) Approach. Energy Policy, 39 (11), 7084-7094.
20. **Osiolo**, H. (2009). Enhancing Household Fuel Choice and Substitution in Kenya. KIPPRA Discussion Paper No. 102.

7. MENTORSHIP (Students)

I have been involved in the supervision of PhD, master's and undergraduate students and examinations, as follows:

Doctoral Students Advised and graduated

PhD graduate:

1. Beatrice Wekhe Misorialigayo - Thesis title: A Multi-Criteria Model for Environmental Credit Risk Management-Case Kenyan Banking Sector. Ongoing, successful proposal defend at Strathmore University. Co-supervised with Prof. Edward Ochieng.

Masters Students Advised and graduated

1. Trushit Shah, Master of Science in Development Finance. Thesis title: The Effects of Electricity Cost on the Overall Production Cost: The Case of Manufacturing Companies in Nairobi (Graduated 2019).
2. Ngige Isabel, Master of Science in Statistical Sciences. Thesis title: Forecasting Kenyas GDP using a Hybrid Neural Network and ARIMA Model. (Graduated 2020).
3. Winnie Njeri Karanja, Master of Science in Development Finance. Thesis title: Influence of Firm-Level Characteristics on Credit Extension by Microfinance Institutions: A Case of Kenyan Licensed Microfinance Banks (Graduated 2021)
4. Eunice Mueni Stephen, Master of Science in Development Finance. Thesis title: Effectiveness of Blended Financing on Project Investments in the Water and Sanitation Sector in Kenya: Case of Wash Projects. (Graduated 2021).
5. Joseph Mwaura, Master of Science in Development Finance. Thesis title: An Analysis of Factors for the Continued use of Project Finance to Develop Renewable Energy Projects in Kenya. (Awaiting, Graduation September 202).

Masters Students On-going supervision

1. Henry Kisenga, Master of Science in Development Finance. Thesis title: The Impact of Rural Electrification Scheme on The Welfare of Rural Households in Makueni County. (Proposal defended).
2. Wilfred Reinhard O. Oginga, Master of Science in Development Finance. Thesis title: Factors Affecting Road Infrastructure Financing by Commercial Banks in Kenya. (Proposal defended).
3. Teresa kiso, Master of Science in Development Finance. Thesis title: Effects of Entrepreneurial Literacy on Poverty Reduction in Marginalized Rural Kenya: A Case of Mt. Elgon Subcounty in Bungoma County. (Proposal defended).

Undergraduate Students Advised and graduated

1. Junereen Baraka, Bachelor of Business Science in Financial Economics. Thesis title: Effects of Wind Energy on Electricity prices in Kenya. (Graduated 2020).
2. Lindsay Jungun, Bachelor of Business Science in Financial Economics. Thesis title: The Effect of Public Spending Shocks on Budget Deficits and Trade Balances: A Case Study of South Africa, Kenya and Uganda. (Graduated 2020).
3. Kimberly Kamau, Bachelor of Business Science in Financial Economics. Thesis title: Sectoral Impact of Oil Price Shocks. (Graduated 2020).
4. Nalukenge Mugabi Patsy, Bachelor of Business Science in Financial Economics. Thesis title: Comparative Evaluation of Bus Rapid Transport Systems. (Graduated 2020).

5. Harine Ariyatilaka, Bachelor of Business Science in Financial Economics. Thesis title: The Effect of Climate Change on The WEF Nexus Using an Input-Output Analysis and Econometric Modelling Framework: A Case Study of South Africa (Graduated 2020).
6. Jesica Wainana, Bachelor of Business Science in Financial Economics. Thesis title: Estimating the Effects Hydroclimatic Variability and Its Extreme Events Have on Economic Growth of Kenya. (Graduated 2021).
7. Arthur Boera Kaburi, Bachelor of Business Science in Financial Economics. Thesis title: Education Advantages in Health: Exploring the Factors Influencing Better Health for The Educated In East Africa. (Graduated 2021).
8. Melisa Ogwayo , Bachelor of Business Science in Financial Economics. Thesis title: An Econometric Analysis of Factors That Influence the Performance of Green Bonds in Emerging Markets (Graduated 2021).
9. Macharia Sherlyn Nyambura, Bachelor of Business Science in Financial Economics. Thesis title: Informal Employment in Poverty Reduction in Kenya (Graduated 2021).
10. Nyabwengi Gilbert, Bachelor of Business Science in Financial Economics. Thesis title: Analysis of Kenya's debt in comparison to manufacturing output, industrial output and growth in power demand. (Completed, Awaiting graduation 2021).
11. Awuor Jane Mich, Bachelor of Business Science in Financial Engineering. Thesis title: Effect of the Introduction of Green Bonds into the African Market. (Completed, Awaiting graduation September 2022).
12. Kibogy Brian Kibet, Bachelor of Business Science in Financial Economics. Thesis title: Effect of Privatization on The Performance of State-Owned Entities. (Completed, Awaiting September 2022).
13. Omar Firdowsa Ali, Bachelor of Business Science in Financial Economics. Thesis title: The Effects of The Covid-19 Crisis on Islamic and Conventional Banks in Kenya: A Comparative Study. (Completed, Awaiting graduation, September 2022).
14. Mary Ndinda Kithinzi, Bachelor of Business Science in Financial Economics. Thesis title: Nile perch fillets demand in EU markets. (Completed, Awaiting graduation, September 2022).
15. Myles Mulusa Kiganane, Bachelor of Business Science in Financial Economics. Thesis title: Factors Influencing Adoption of Electric vehicles Among Young Adults in Nairobi. (Completed, Awaiting graduation, September 2022).
16. Tracy Nkirote Mwenda, Bachelor of Business Science in Financial Economics. Thesis title: An Analysis on The Effect Public Transportation Safety and Modal Shifts on Public Transport Usage and Congestion Alleviation: A Case Study of Nairobi. (Completed, Awaiting graduation, September 2022).

8. MY PROFILE (MY GOOGLE SCHOLAR PROFILE)

- <https://scholar.google.com/citations?user=W2IpQQ4AAAAJ&hl=en>