African Sociology Review

Waste-to-Energy Solutions in Ghanaian Cities: Innovations for Sustainable Waste Management in Seychelles Context

Felix Masinoich[1], **Georgina Raffia**[1,2], **Amos Nguini**[3,4], **Ryan Jones**[4]

[1] Seychelles Institute for Governance Studies

[2] Seychelles Council for Higher Education Research

[3] Seychelles Environmental Research Centre

[4] Seychelles Institute of Advanced Studies

Published: 19 November 2006 | **Received:** 23 June 2006 | **Accepted:** 04 October 2006

Correspondence: fmasinoich@outlook.com

DOI: 10.5281/zenodo.18833555

Author notes

Felix Masinoich is affiliated with Seychelles Institute for Governance Studies and focuses on African Studies research in Africa.

Georgina Raffia is affiliated with Seychelles Council for Higher Education Research and focuses on African Studies research in Africa.

Amos Nguini is affiliated with Seychelles Environmental Research Centre and focuses on African Studies research in Africa.

Ryan Jones is affiliated with Seychelles Institute of Advanced Studies and focuses on African Studies research in Africa.

Abstract

Waste-to-energy solutions are increasingly seen as a sustainable approach to managing urban waste in Ghanaian cities, reflecting broader trends towards circular economy practices. The study employs a mixed-methods approach, combining qualitative interviews with quantitative data analysis on existing waste-to-energy projects across Ghanaian cities. Case studies from Seychelles will also be reviewed to contextualize findings. Waste-to-energy technologies have shown significant potential in reducing landfill usage and generating clean energy, indicating that these solutions can substantially reduce environmental pollution while creating new job opportunities. The integration of waste-to-energy systems into urban waste management strategies offers a promising pathway towards sustainable development, particularly for cities facing growing waste challenges. Governments should prioritise the adoption and scaling-up of proven waste-to-energy technologies in Ghanaian cities to achieve environmental sustainability. Public-private partnerships are recommended to facilitate implementation.

Keywords: *Ghana, Circular Economy, Waste Management, Sustainability, Innovations, Renewable Energy, Biomass Conversion*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ REQUEST FULL PAPER

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa

Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge