



# Eco-Friendly Aquaculture Waste Management Systems for Urban Fish Processing Centers in Lagos, Nigeria: Reducing Pollution and Sustainable Water Use Over Two Years

Chibuzo Ifokwea<sup>1</sup>

<sup>1</sup> American University of Nigeria (AUN)

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**Correspondence:** [cifokwea@aol.com](mailto:cifokwea@aol.com)

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## Author notes

*Chibuzo Ifokwea is affiliated with American University of Nigeria (AUN) and focuses on Agriculture research in Africa.*

## Abstract

Urban fish processing centers in Lagos, Nigeria are major sources of aquatic waste, contributing to water pollution and resource depletion. Field studies and stakeholder consultations were conducted to design and implement the waste management systems. The implementation of the new systems resulted in a reduction of 20% in organic matter discharge into local waters, indicating their effectiveness in pollution control. Eco-friendly waste management systems have successfully reduced water pollution by 20%, demonstrating sustainable water use over two years. Further implementation and monitoring are recommended to ensure the long-term success of these systems. The empirical specification follows  $Y = \beta_{0+\beta} X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *African, Aquaponics, Biogas, Integrated Pest Management, Renewable Energy Systems, Sustainable Landscaping, Waste-to-Water Technology*

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