



# Zero Waste Food Processing in Northern Nigeria: Policy Analysis of Pilot Projects and Economic Feasibility Studies

Enoch Emenogu<sup>1</sup>, Chinedu Okechukwu<sup>2</sup>, Osita Anyaoha<sup>1</sup>

<sup>1</sup> University of Maiduguri

<sup>2</sup> Bayero University Kano

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**Correspondence:** [eeemenogu@gmail.com](mailto:eeemenogu@gmail.com)

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## Author notes

*Enoch Emenogu is affiliated with University of Maiduguri and focuses on Energy research in Africa.  
Chinedu Okechukwu is affiliated with Bayero University Kano and focuses on Energy research in Africa.  
Osita Anyaoha is affiliated with University of Maiduguri and focuses on Energy research in Africa.*

## Abstract

Northern Nigeria faces significant challenges in post-harvest food losses due to inadequate infrastructure for waste management and processing. The study employed a mixed-methods approach combining qualitative interviews with quantitative analysis of project data. Pilot projects showed an average reduction in post-harvest losses of 30% through improved processing techniques. Zero waste food processing is economically viable and can significantly reduce agricultural waste, providing a model for sustainable development. Government incentives should be provided to encourage the establishment of more zero waste plants, particularly in rural areas. The empirical specification follows  $Y = \beta_{0+\beta} p X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** Nigerian, Geographical, Zero Waste, Circular Economy, Sustainability, Feasibility Studies, Post-Harvest Loss Reduction

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