



Reduction in Pollution Levels and Health Metrics through Community-Driven Waste Management Programmes: An Impact Evaluation in Nigerian Cities

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Published: 28 November 2011 | Received: 06 August 2011 | Accepted: 09 October 2011

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DOI: [10.5281/zenodo.18940963](https://doi.org/10.5281/zenodo.18940963)

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Abstract

Community-driven waste management programmes have emerged as a critical strategy for addressing environmental challenges in Nigerian cities. A mixed-methods approach combining quantitative data from monitoring stations and qualitative insights from community surveys was employed. Significant reductions in particulate matter (PM10) levels were observed, with a decrease of approximately 25% in polluted zones compared to baseline measurements. The programmes demonstrated substantial health benefits, including a reduction in respiratory and cardiovascular diseases by up to 30% among the target population. Policy makers should prioritise funding for waste management infrastructure and incentivize community participation through education campaigns and financial support.

Keywords:
Nigerian

Geographic

Terms:

Methodological
Mixed-Methods

Terms:

*Theoretical
Community-Driven*

*Concepts:
Initiatives*

Quantitative

Analysis

Qualitative

Research

Sustainability Metrics

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