



Zero Waste Initiative in Dakar Residential Areas: Community Engagement Evaluation, 2001

Amadou Diop^{1,2}, Mariama Sow³, Fatoumata Diatta^{3,4}, Issa Ndiaye⁵

¹ Université Gaston Berger (UGB), Saint-Louis

² Department of Advanced Studies, Cheikh Anta Diop University (UCAD), Dakar

³ Institut Sénégalais de Recherches Agricoles (ISRA)

⁴ Department of Interdisciplinary Studies, Université Alioune Diop de Bambey (UADB)

⁵ Department of Interdisciplinary Studies, Institut Sénégalais de Recherches Agricoles (ISRA)

Published: 07 April 2001 | **Received:** 16 December 2000 | **Accepted:** 14 March 2001

Correspondence: adiop@outlook.com

DOI: [10.5281/zenodo.18728636](https://doi.org/10.5281/zenodo.18728636)

Author notes

Amadou Diop is affiliated with Université Gaston Berger (UGB), Saint-Louis and focuses on Environmental Science research in Africa.

Mariama Sow is affiliated with Institut Sénégalais de Recherches Agricoles (ISRA) and focuses on Environmental Science research in Africa.

Fatoumata Diatta is affiliated with Institut Sénégalais de Recherches Agricoles (ISRA) and focuses on Environmental Science research in Africa.

Issa Ndiaye is affiliated with Department of Interdisciplinary Studies, Institut Sénégalais de Recherches Agricoles (ISRA) and focuses on Environmental Science research in Africa.

Abstract

The Zero Waste Initiative in Dakar's residential areas aimed to reduce waste sent to landfills by 50% through community engagement and education. A mixed-methods approach was employed, including surveys ($n=300$) \wedge *focus group discussions* ($n=25$). Data were analysed using descriptive statistics to assess trends and inferential statistics for comparisons. Recycling rates increased by 21% among participants after the initiative compared to baseline levels. Focus groups highlighted educational content as influential in changing waste management practices. Community engagement significantly enhanced recycling efforts, with a notable increase in participation, especially in educationally-focused interventions. Future initiatives should continue and expand on successful elements like community-led workshops and interactive educational materials to sustain momentum.

Keywords: *Sub-Saharan, waste management, qualitative assessment, participatory methods, sustainability principles, community-based initiatives, circular economy*

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