



Waste-to-Energy Systems Adoption by Small Businesses in Lagos, Nigeria: Economic Growth and Sustainability

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Abstract

Waste-to-energy systems (WTEs) have gained interest as a sustainable solution for managing urban waste in Lagos, Nigeria's economic hub. A qualitative study employing semi-structured interviews to understand the perspectives of business owners and waste management experts. Small businesses in Lagos showed a preference for anaerobic digestion over incineration, with 70% indicating improved profitability and environmental benefits as key motivations. WTE systems present viable alternatives for small businesses to reduce operational costs while enhancing their sustainability profile. Policy makers should incentivize WTE system adoption through grants and tax breaks to encourage wider implementation.

Keywords: *Africanization, Community Development, Ethnography, Small Scale Enterprises, Sustainable Urbanism, Waste Management Strategies, Participatory Action Research*

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