



Waste-to-Energy Technologies Adoption and Economic Viability Among Small Enterprises in Kenyan Cities

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Abstract

Waste-to-energy technologies have gained traction in addressing urban waste management challenges in Kenya's cities, particularly among small enterprises. The study employed qualitative research methods to explore perceptions and experiences related to technology adoption, focusing on interviews with key stakeholders and document analysis. A notable theme emerged regarding the challenges faced by small enterprises in securing funding for waste-to-energy projects, with over 60% of respondents indicating financial constraints as a significant barrier. Despite these challenges, there is potential for increased adoption if supportive policies and financing mechanisms are developed. Policy makers should consider implementing subsidies or grants to facilitate the uptake of waste-to-energy technologies by small enterprises in Kenyan cities.

Keywords: Kenya, Small Enterprises, Qualitative Research, Waste-to-Energy, Economic Viability, Sustainability, Case Studies

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