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# Analysis of Waste-to-Energy Technologies and Solid Waste Management in South Africa in South Africa: An African Perspective

**D, r, E, l, l, i, o, t, O, ', B, r, i, e, n**

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# Abstract

This study addresses a current research gap in Engineering concerning Waste-to-Energy Technologies and Solid Waste Management in South Africa in South Africa. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A qualitative approach was used, drawing on recent literature and policy sources to frame the analysis. The analysis indicates persistent structural constraints alongside emerging local innovations; however, evidence remains uneven across contexts and sectors. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. Waste-to-Energy Technologies and Solid Waste Management in South Africa, South Africa, Africa, Engineering, data descriptor This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.