Chapter 7 Effective Solid Waste Management Strategies for Rural Communities

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ABSTRACT

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Rural communities face particular difficulties in managing solid waste because of inadequate infrastructure, tight budgets, and poor public awareness. Open dumping, burning, composting, recycling, and feeding animals are common practices. Open burning and dumping are economical but have serious health and environmental risks. Vermicomposting and composting provide environmentally friendly ways to dispose of organic waste, but they also need for community support and careful management. Reuse and recycling lessen the load on landfills, however they have challenges because of inadequate infrastructure. A multifaceted strategy is required to address these issues, including adopting cuttingedge technologies, regulatory reforms, infrastructural investment, and community education to promote sustainable waste management practices in rural areas.

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INTRODUCTION

Waste is any object, substance or by-product that disposed of or left no longer useful end unwanted. This large group includes household, industrial and agricultural wastes; as well intangibles such as wasted time or effort. Waste is often divided into categories based on what it is, or where its from. For example: (Bundhoo, 2018, Amasuomo & Baird, 2016)





Solid Waste Management

Solid waste management is everything that has to undertake with managing solid waste, whether it be dealing with or forbidding from happening in the first place. The core purpose of solid waste management is to minimize the undesirable influences derived from junk on environment, health and economy. It involves different techniques and ways for managing garbage in a way that is supportive of sustainability, reduces pollution saves resources, protect public health. (Rosli et al., 2023, Tchobanoglous, 2009)

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