

Title : Solid Waste Management and Its Effect on Carbon Footprint in an Industrial Paper Packaging Organization

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ABSTRACT

Inefficient waste management is a significant contributor to greenhouse gas (GHG) emissions. The case study was conducted on the industrial paper packaging producer that faces the challenge of reducing the organizational carbon footprint. To achieve this, the company has set a target of reducing total GHG emissions by 54.6% by 2030, using 2017 emission data (7,965 TonCO₂e, as calculated using the Japanese parent company's emission factors) as a baseline. Waste management has the potential to contribute to the organization's reduction of greenhouse gas emissions to some extent. This research examines the impact of optimized waste management strategies for GHG emissions mitigation within the organization by analyzing solid waste generation particularly waste streams that end up in landfills, and comparing GHG emissions before and after implementation of interventions. The results indicate that the new waste management approaches have effectively reduced landfill waste and associated emissions, demonstrating further potential for optimization within climate action initiatives.

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