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Energy recovery potential and life cycle impact assessment of municipal solid waste management technologies in Asian countries using ELP model

Andante Hadi PandyaSwargo*, Hiroshi Onoda and Katsuya Nagata

Abstract

Natural resource scarcity and the effects of environmental destruction have pushed societies to use and reuse resources more efficiently. Waste should no longer be seen as a burden but rather as another source of material such as energy fuel. This study analyzes the potential of three waste management scenarios that include the combination of four waste management technologies - incineration with energy recovery, composting, anaerobic digestion, and sanitary landfill gas collection - as ways to recover energy and material from municipal solid waste. The study applies the environmental load point (ELP) method and utilizes municipal waste characteristics and composition from India, Indonesia, and China as case studies. The ELP methodology employs integrated weighting in the quantification process to get a one-unit result. This study particularly uses analytic hierarchical process questionnaires to get the weighting value of the nine impact categories: energy depletion, global warming, ozone depletion, resource consumption, ecosystem influence, water pollution, waste disposal, air pollution, and acid rain. The results show that the scenario which includes composting organic waste and sanitary landfill with gas collection for energy recovery has medium environmental impact and the highest practicability. The optimum material and energy potential is from the Chinese case study in which 254 tonnes of compost fertilizer and 60 MWh of electricity is the estimated output for every 1,000 tonnes of waste treated.

Keywords: Life cycle assessment, Environmental load point, Waste management, Analytic hierarchical process, Energy recovery, Asian developing countries

Background

Developing countries in Asia have a number of similarities in terms of their waste composition and characteristics. High moisture content due to the high percentage of organic waste composition results in low calorific value. This makes it is less suitable for thermal treatments and more suitable for biological treatments, such as composting and anaerobic digestion. The organic fraction of municipal waste equates to 62% in Indonesia, 63.4% in China, and 41.8% in India [1]. Waste volume in this region increases with the growth of population, urbanization, industrialization, and economic development. Indonesia, with a population of 232.7 million, generates 38.5 million tonnes of municipal waste annually. China, with a population of 1.3 billion, generates 1.8 billion tonnes. India, with a population of 1.2 billion, generates 66.69 million tonnes

[1]. Another important waste characteristic is the generation rate per capita per day, which is 0.75 kg in Indonesia, 1.54 kg in China, and 0.2 to 0.5 kg in India, depending on the size of the city. Figures 1 and 2 summarize the waste characteristics in the three countries.

The current common practice of municipal waste treatment in these countries is the use of landfill. Almost 68.86% of waste generated in Indonesia is landfilled, and only 10% of the available landfills meet the requirements for a sanitary landfill. China deposits 56.6% of its municipal waste in landfills. India has a very limited number of sanitary landfills, and thus, open dumping is common and widespread. Incineration is not applied on a large scale in Indonesia, whereas 1.9% of China's municipal waste is incinerated. India initiated several projects to incinerate its waste, such as the 300 t/day capacity incineration plant in Timarpur. However, such projects proved to be unsuccessful [2]. Two pilot projects on incineration plants are ongoing in Delhi, with 1,950 and 1,300 t/day capacities [1]. In Indonesia, composting of

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The collection transportation and subsequent processing of waste materials is a vast field of study which incorporates technical social legal economic environmental and regulatory issues Common waste management practices include landfilling biological treatment incineration and recycling all boasting advantages and disadvantages Waste management has changed significantly over the past ten years with an increased focus on integrated waste management and life cycle assessment LCA with the aim of reducing the reliance on landfill with its obvious environmental concerns in favour of greener solutions With contributions from more than seventy internationally known experts presented in two volumes and backed by the International Waste Working Group and the International Solid Waste Association detailed chapters cover Waste Generation and Characterization Life Cycle Assessment of Waste Management Systems Waste Minimization Material Recycling Waste Collection Mechanical Treatment and Separation Thermal Treatment Biological Treatment Landfilling Special and Hazardous Waste Solid Waste Technology Management is a balanced and detailed account of all aspects of municipal solid waste management treatment and disposal covering both engineering and management aspects with an overarching emphasis on the life cycle approach **Assessment Activities** United States. Congress. Office of Technology Assessment, 1989 *Facing America's Trash* United States. Congress. Office of Technology Assessment, 1989 **Technology Assessment -- 1970** United States. Congress. House. Committee on Science and Astronautics, 1970 Review of the Office of Technology Assessment and Its Organic Act United States. Congress. House. Committee on Science and Technology. Subcommittee on Science, Research, and Technology, 1978

Appendices p 119 211 include analysis of responses to subcom staff survey on congressional use of OTA technology

assessments p 121 176 and selected bibliography p 188 204 Symbiosis in Industrial and Municipal Resource Management United States. Department of Commerce. Office of Environmental Affairs,1979 Data Summary of Municipal Solid Waste Management Alternatives: Alphabetically indexed bibliography ,1992 *Handbook of Technology Assessment* Armin Grunwald,2024-10-03 This Handbook provides a comprehensive overview of technology assessment TA practices theories methods and cultures across the globe Highlighting the significant influence of rapidly changing technology on human life and development it examines diverse perspectives on how TA can be developed to better meet the challenges of the future This title contains one or more Open Access chapters

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Table of Contents Solid Waste Management Technology Assessment

1. Understanding the eBook Solid Waste Management Technology Assessment
 - The Rise of Digital Reading Solid Waste Management Technology Assessment
 - Advantages of eBooks Over Traditional Books
2. Identifying Solid Waste Management Technology Assessment
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solid Waste Management Technology Assessment
 - User-Friendly Interface

4. Exploring eBook Recommendations from Solid Waste Management Technology Assessment
 - Personalized Recommendations
 - Solid Waste Management Technology Assessment User Reviews and Ratings
 - Solid Waste Management Technology Assessment and Bestseller Lists
5. Accessing Solid Waste Management Technology Assessment Free and Paid eBooks
 - Solid Waste Management Technology Assessment Public Domain eBooks
 - Solid Waste Management Technology Assessment eBook Subscription Services
 - Solid Waste Management Technology Assessment Budget-Friendly Options
6. Navigating Solid Waste Management Technology Assessment eBook Formats
 - ePub, PDF, MOBI, and More
 - Solid Waste Management Technology Assessment Compatibility with Devices
 - Solid Waste Management Technology Assessment Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solid Waste Management Technology Assessment
 - Highlighting and Note-Taking Solid Waste Management Technology Assessment
 - Interactive Elements Solid Waste Management Technology Assessment
8. Staying Engaged with Solid Waste Management Technology Assessment
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solid Waste Management Technology Assessment
9. Balancing eBooks and Physical Books Solid Waste Management Technology Assessment
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solid Waste Management Technology Assessment
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solid Waste Management Technology Assessment
 - Setting Reading Goals Solid Waste Management Technology Assessment
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Solid Waste Management Technology Assessment
 - Fact-Checking eBook Content of Solid Waste Management Technology Assessment
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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