

# Exploring the Resource Recovery Potentials of Municipal Solid Waste: A review of solid wastes composting in Developing Countries

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## Abstract:

Population explosion, high urbanization and improved living standards have induced rapid changes in quantities and material compositions of solid waste generation globally. Until recently solid waste disposal in landfills and open dump sites was considered more economical and it is the most widely used methods in developing countries. Hence the potentials in the other alternative methods such as the resource recovery and recycling and their integration into waste management have been scarcely assessed. However, the ever growing challenges posed by the rapidly increasing quantities and compositions of solid wastes in developing countries led to the searching for alternative waste disposal methods. In this regard the paper presented an assessment of the resource potentials of municipal solid waste materials arising from cities in developing countries as a strategy for sustainable solid waste management. Using published data on solid waste composition the paper has identified that there is high potentials of composting in the solid waste stream from cities in developing countries. In conclusion, it recommended the recovery of organic waste material and papers for composting and the recycling of plastic, metals, textiles and others to explore their resource recovery potentials. This will largely reduce the ultimate quantities of solid waste for disposal and lower the operating costs. This strategy will achieve sustainable waste management in developing countries. It is hoped that the paper has provided a useful guide for wastes management policy decisions in developing countries.

**Keywords:** Resource potentials, Organic waste composting, Municipal solid waste composition, Sustainable waste management, Developing countries

## Background

Rapidity of population, urbanisation and economic growths has increased solid waste generation rates and material composition (Guerrero, Maas & Hogland, 2013 in Harir, Kasim & Ishiyaku, 2014). Finding sustainable option of solid waste disposal remains a major challenge to waste management industry (Farrell & Jones, 2009). Thus, in most developing countries public authorities face the challenges to determine the appropriate option among alternative policies for sustainable solid waste management in cities. Gomez et al., (2011) observed that composition analysis is very essential to determine appropriate policy option for solid waste management in any city. Similarly, Dangi et al., (2011) emphasised that solid waste management policy should relate directly to waste composition. Thus, composition analysis should guide the choice of appropriate policy for solid waste management in developing countries.

# Resource Recovery From Solid Wastes

**United States. Office of Solid Waste**



## **Resource Recovery From Solid Wastes:**

**Waste Management and Resource Recovery** Charles R. Rhyner, Leander J. Schwartz, Robert B. Wenger, Mary G. Kohrell, 1995-08-31 This book provides a basic understanding of waste management problems and issues faced by modern society. Scientific, technical, and environmental principles are emphasized to illustrate the processes of municipal and industrial solid wastes and liquid wastes and the nature of impacts resulting from waste dispersal and disposal in the environment. Economic, social, legal, and political aspects of waste management are also addressed. Environmental issues and concerns receive thorough coverage in discussing waste reduction, resource recovery, and efficient and practical waste disposal systems. Other specific topics include recycling, physical and chemical processing, the biological treatment of waste, solids incineration, pyrolysis, and energy recovery from hazardous wastes and landfill management. The role of government and other institutions in waste management and resource recovery matters is also detailed. Discussion questions, worked examples, and end of chapter problems reinforce important concepts. **Waste Management and Resource Recovery** is particularly suitable as a text in waste management courses in environmental science or engineering programs. It also works well as a reference for practitioners in the waste management field.

**Solid Waste Management and Resource Recovery** United States. Congress. House. Committee on Government Operations. Conservation, Energy, and Natural Resources Subcommittee, 1976

**Resource Recovery to Approach Zero Municipal Waste** Mohammad J. Taherzadeh, Tobias Richards, 2018-10-08 Current development results in a linear flow from raw material to waste which cannot be sustainable in the long term. Plus a global population of 7 billion people means that there are 7 billion waste producers in the world. At present, dumping and landfilling are the primary practices for getting rid of municipal solid waste (MSW). However, this waste contains resources that we've yet to utilize. To create sustainable societies, we need to approach zero waste by recovering these resources. There are cities and countries where zero waste is close to becoming a reality. Landfilling of organic waste is forbidden in Europe and countries such as Sweden, Germany, Belgium, and Switzerland have developed a variety of technologies to recover resources from MSW. **Resource Recovery to Approach Zero Municipal Waste** explores the solid waste management laws and regulations of different countries, comparing the latest resource recovery technologies and offering future perspectives. The book tackles the many technical, social, ecological, economical, and managerial aspects of this complex subject while promoting the development of sustainable societies to achieve a greener global environment.

**Resource Recovery and Waste Reduction** United States. Office of Solid Waste Management Programs, 1976

**Resource recovery and waste reduction** United States. Office of Solid Waste, 1976      **Recycling and Resource Recovery Engineering** Richard I. Stessel, 2012-12-06 Solid waste is one of the newest fields to achieve recognition as a sub discipline in environmental engineering. As such, one is hard pressed to find thorough coverage of related topics in academic

curricula Many graduate programs in environmental engineering have one introductory course in waste control A handful of texts some excellent exist to serve this need Recent purported crises in solid waste management have forced the understanding that something beyond the traditional control methods may be appropriate Resource recovery is the correct nomenclature for the longest standing alternative approach seeking to extract materials from the waste stream for eventual re use in one or another beneficial fashion Several books have evolved covering various approaches Design approaches therein have borrowed heavily from other disciplines ceasing where solid waste differs from the feeds to be processed These books were oriented towards knowledgeable practitioners This work attempts to present waste processing as a study in unit operations appropriate to university study at the graduate level The study of unit operations is typical in environmental engineering These unit operations are different A variety of student backgrounds are suitable However a familiarity with the basics of waste control such as would be gained from one of the introductory courses mentioned above is assumed as is a sound quantitative background It is hoped that this work fills an empty niche Contents 1 Waste as a Resource 1

**Pollution Control and Resource Recovery** Zhao Youcai,Zhen Guangyin,2016-10-27 Pollution Control and Resource Recovery Sewage Sludge discusses several traditional and new environmentally friendly technologies for sewage sludge treatment and disposal In addition the book covers a range of new initiatives that are underway to promote and accelerate the development of related sciences and techniques The book s authors builds a framework for developing various sustainable technologies for sewage sludge treatment and disposal including advanced dewatering through chemical conditioning solidification stabilization reuse for the development of construction and building materials anaerobic bioenergy recovery sanitary landfill and odor control Explains environmentally friendly technologies for sewage sludge treatment and disposal including advanced dewatering through chemical conditioning solidification stabilization and anaerobic bioenergy recovery Includes valuable guidelines for engineers to address sludge issues such as sanitary landfill and odor control Presents new developments and techniques that are on the horizon Energy Recovery from Solid Waste Florida. Resource Recovery Council,1976 *Resource Recovery and Waste Reduction* United States. Office of Solid Waste,1977 **Resource Recovery From Municipal Solid Wastes** Luis F. Diaz,George M. Savage,Clarence G. Golueke,2018-01-18 This text includes two volumes discussing resource recovery form municipal solid wastes Volume 2 discusses in more detail the final processing including incineration preparation and use of refuse derived fuel biological resource recoveryr biogas production hydrolysis and single cell protein and ethanol production composting environmental aspects and landfill **State Solid Waste Resource Recovery Program** California Solid Waste Management Board,1974 **Resource Recovery and Reuse in Organic Solid Waste Management** Piet Lens,B. Hamelers,H. Hoitink,W. Bidlingmaier,2004-03-01 Uncontrolled spreading of waste materials leads to health problems and environmental damage To prevent these problems a waste management infrastructure has been set to collect and dispose of the waste based on a hierarchy of three principles waste prevention

recycling reuse and final disposal Final disposal is the least desirable as it causes massive emissions to the atmosphere water bodies and the subsoil The emission of methane to the atmosphere is an important source of greenhouse gasses Organic waste therefore gets a lot of attention in waste management which for Europe can be illustrated by the issue of the Landfill Directive 99 31 EC and the Sewage Sludge Directive 86 278 EEC Proper treatment of organic waste may however turn this burden into an asset In particular biological treatment may help in developing more effective resource management and sustainable development The following advantages may be listed The greenhouse effect is tackled as methane emissions from landfilling are prevented Soil quality can be restored or enhanced by the use of compost in agriculture Compost may replace peat in horticulture and home gardening reducing greenhouse emissions and wetland exploitation Anaerobic digestion has the additional benefit of producing biogas that may be used as a fuel Pesticide use can be reduced by proper use of the disease suppressive properties of compost Resource Recovery and Reuse in Organic Solid Waste Management disseminates at advanced scientific level the potential of environmental biotechnology for the recovery and reuse of products from solid waste Several options to recover energy out of organic solid waste from domestic agricultural and industrial origin are presented and discussed and existing economically feasible treatment systems that produce energy out of solid waste and recover useful by products in the form of fertiliser or soil conditioner are demonstrated The potential of environmental biotechnology is highlighted from different perspectives societal technological and practical

**Resource Recovery and Source Reduction** United States. Office of Solid Waste Management Programs,1974      Resource Recovery Technology United States. Office of Solid Waste,1978      **Resource Recovery and Source Reduction** United States. Office of Solid Waste Management Programs,1973      Solid Waste Processing and Resource Recovery Lawrence K. Wang,Norman C. Pereira,2012-12-06 The past few years have seen the emergence of a growing widespread desire in this country and indeed everywhere that positive actions be taken to restore the quality of our environment and to protect it from the degrading effects of all forms of pollution air noise solid waste and water Since pollution is a direct or indirect consequence of waste if there is no waste there can be no pollution and the seemingly idealistic demand for zero discharge can be construed as a demand for zero waste However as long as there is waste we can only attempt to abate the consequent pollution by converting it to a less noxious form In those instances in which a particular type of pollution has been recognized three major questions usually arise 1 How serious is the pollution 2 Is the technology to abate it available and 3 Do the costs of abatement justify the degree of abatement achieved The principal intention of this series of books is to help the reader to formulate answers to the last two of the above three questions The traditional approach of applying tried and true solutions to specific pollution problems has been a major factor contributing to the success of environmental engineering and in large measure has accounted for the establishing of a methodology of pollution control

**Resource Recovery Plant Implementation** United States. Office of Solid Waste Management Programs,1976      **Solid Waste Management and**

**Resource Recovery** United States. Congress. House. Committee on Science and Technology. Subcommittee on the Environment and the Atmosphere, 1976      *Resource Recovery Technology* United States. Environmental Protection Agency, United States. Office of Solid Waste, 1978

The book delves into Resource Recovery From Solid Wastes. Resource Recovery From Solid Wastes is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Resource Recovery From Solid Wastes, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
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    - Chapter 4: Resource Recovery From Solid Wastes in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Resource Recovery From Solid Wastes. The first chapter will explore what Resource Recovery From Solid Wastes is, why Resource Recovery From Solid Wastes is vital, and how to effectively learn about Resource Recovery From Solid Wastes.
  3. In chapter 2, this book will delve into the foundational concepts of Resource Recovery From Solid Wastes. The second chapter will elucidate the essential principles that need to be understood to grasp Resource Recovery From Solid Wastes in its entirety.
  4. In chapter 3, this book will examine the practical applications of Resource Recovery From Solid Wastes in daily life. This chapter will showcase real-world examples of how Resource Recovery From Solid Wastes can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Resource Recovery From Solid Wastes in specific contexts. This chapter will explore how Resource Recovery From Solid Wastes is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Resource Recovery From Solid Wastes. The final chapter will summarize the key points that have been discussed throughout the book.
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## **Resource Recovery From Solid Wastes Introduction**

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