



## SOLID WASTE IN ROMANIA: MANAGEMENT, TREATMENT AND POLLUTION PREVENTION PRACTICES

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### Abstract

The paper analyzes some aspects of waste management in Romania and, in particular, in Iasi County, in view of the European perspective. Urban and rural waste management is considered and collection, transport, processing, recycling or disposal of waste materials is discussed relative to the National Waste Management Strategy and the National Plan for Waste Management, as well as European and national legislative framework.

It was showed that land disposal will continue to be a disposal option but due to stricter regulation. Also, some problems with reference to waste management hierarchy and pollution prevention practices that reduce or eliminate the amount and/or toxicity of generated wastes released to the air, land or water before any management practices, treatment or disposal are explored. Local and regional authorities are heavily and increasingly involved in the management of waste. In most cases, they are responsible for developing and implementing municipal waste management plans based on the medium to long term. Solid waste management is regarded much more than a technological issue and usually involves managing a large workforce and working together closely with the public.

**Keywords:** landfill, management, pollution prevention, solid waste

## 1. Waste management in European perspective

### 1.1. Overview

Since the mid - 1980s it has been recognized that waste, as with other environmental problems, is a global issue. Waste is now not only a danger to the environment, but it is increasingly a threat to human health and the way of life. Article 8 of the Sixth Action Programme sets down proposals relating to the sustainable use and management of natural resources and waste.

Waste generation is increasing in the EU, and amounted to about 3.5 tonnes of solid waste per person in 1995 (excluding agricultural waste), mainly from manufacturing, construction and demolition and mining (Fig. 1) (EEA, 1998). Waste management includes all the waste collection, transport, treatment, recovery and disposal (Eriksson et al., 2005). Responsibilities for waste management activities shall be assigned to waste generators, according to the *polluter pays*

principle or, as the case may be, to waste producers, according to the *producer responsibility* principle.

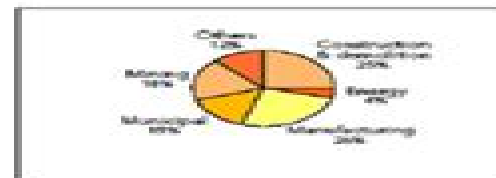


Fig. 1. Waste generation by sector

Organising the collection, transport and disposal of municipal waste is one of the obligations of local public administration.

Most communities use an integrated approach to waste management, meaning they use a variety of ways to handle the trash produced by their citizens. Some of these include pollution prevention, landfilling, recycling, composting,

# Journal Of Solid Waste Management

**Michael Brown**



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The Journal of Solid Waste Technology and Management ,1996      **The Economics of Residential Solid Waste Management** Thomas C. Kinnaman,2017-10-24 The market of municipal solid waste MSW collection and disposal has changed substantially over the past thirty years This study will help guide both newcomers and past contributors through the fundamental aspects of policies designed to reduce the external costs of MSW collection and the important empirical relationships that in the end govern the selection of MSW policies The International Library of Environmental Economics and Policy explores the influence of economics on the development of environmental and natural resource policy In a series of twenty five volumes the most significant journal essays in key areas of contemporary environmental and resource policy are collected Scholars who are recognized for their expertise and contribution to the literature in the various research areas serve as volume editors and write essays that provides the context for the collection Volumes in the series reflect three broad strands of economic research including 1 Natural and Environmental Resources 2 Policy Instruments and Institutions and 3 Methodology The editors in their introduction to each volume provide a state of the art overview of the topic and explain the influence and relevance of the collected papers on the development of policy This reference series provides access to the economic literature that has shaped contemporary perspectives on land use analysis and policy      Handbook of Research on Waste Management Techniques for Sustainability Akkucuk, Ulas,2015-12-03 Sustainability is a growing area of research in ecology economics environmental science business and cultural studies Specifically sustainable waste disposal and management is a growing concern as both solid and liquid wastes are rapidly expanding in direct correlation with population growth and improved economic conditions across regions The Handbook of Research on Waste Management Techniques for Sustainability explores the topic of sustainable development in an era where domestic and municipal waste is becoming a concern for both human and environmental health Highlighting a number of topics relating to pollution green initiatives and waste reduction in both the public and private sector this research based publication is designed for use by environmental scientists business executives researchers graduate level students and policymakers seeking the latest information on sustainability in business medicine agriculture and society      **Municipal Solid Waste Management** Hosam El-Din Saleh,2019-07-24 Rapid population growth high standards of living and technological development are constantly increasing the diversity and quantity of solid waste The production of solid municipal waste associated with the high proportion of organic waste and its improper disposal lead to considerable environmental pollution due to the emission of greenhouse gases such as methane carbon dioxide etc In such a challenging environment municipal authorities need to develop more effective solutions to manage the growing urban solid waste Most of the municipal solid waste mainly constitutes degradable materials which represent a significant role in greenhouse gas emissions in urban localities Integrated solid waste management approaches must be developed and improved to manage the increasing organic fractions of municipal solid

waste which helps to reduce greenhouse emissions with potential economic benefits A sustainable management of municipal solid waste systems constitutes a promising and attractive trend to study current consumption behaviors responsible for waste generation and to protect the global ecosystem This book presents the management of municipal of solid waste including recycling and landfill technologies Moreover composition and types of waste will be investigated As a result the most appropriate and feasible scenarios for the management of municipal solid waste are presented to provide the respected readership with the scientific background for sustainable development in these processes which are increasingly supported by innovative methodologies for holistic assessment of process sustainability

*Integrated Solid Waste Management* Asha Rani N R, Dr. J. Anuradha, G. Sharmilaa, Prof. Shama Jehan Parveen Khanam, 2022-11-21 When it comes to public health economic conservation engineering aesthetic and the other environmental factors solid waste management is the field that deals with the regulation of the solid waste creation collection storage transit or transfer processing and disposal Planning administration finances engineering and legal aspects are all part of the solid waste management process Complex interrelations across disciplines like public health city as well as regional planning politics geography economics sociology communication and conservation demographics engineering and material sciences may be required to find effective solutions It s very uncommon for the residential as well as industrial producers urban and rural locations and developed but also developing countries to use distinctly different approaches to solid waste management In populated regions it is the responsibility of local governments to manage garbage that poses no danger to human health However hazardous waste management is normally the duty of the waste generator and is regulated by regional national and even worldwide bodies Solid waste management s fundamental objective is to lessen or eliminate trash s negative effects on people and the planet in order to promote progress in these areas and a higher standard of living All of this should be carried out as economically and waste free as is humanly feasible The best practises for environmental protection need a methodical approach to managing solid waste regardless of its source composition or possible hazards Environmental planning should include solid waste management since it is essential to maintaining a clean environment

*Waste Management and Resource Efficiency* Sadhan Kumar Ghosh, 2018-09-21 The book contains high quality research papers presented at Sixth International Conference on Solid Waste Management held at Jadavpur University Kolkata India during November 23 26 2016 The Conference IconSWM 2016 is organized by Centre for Quality Management System Jadavpur University in association with premier institutes and societies of India The researchers from more than 30 countries presented their work in Solid Waste Management The book is divided into two volumes and deliberates on various issues related to innovation and implementation in sustainable waste management segregation collection transportation of waste treatment technology policy and strategies energy recovery life cycle analysis climate change research and business opportunities

**Solid Waste Analysis and Minimization: A Systems Approach** Matthew J. Franchetti, 2009-07-01 Implement successful solid waste analysis and minimization strategies

Provide sustainable solutions to solid waste issues with help from this hands on guide Solid Waste Analysis and Minimization A Systems Approach offers up to date technical details on current and potential solid waste minimization practices This authoritative resource presents a framework for the proper application of solid waste analysis tools and demonstrates the benefits in terms of environmental impact process efficiencies and financial enhancement Twenty one real world case studies covering all industries from manufacturing to service facilities are included Solid Waste Analysis and Minimization A Systems Approach covers U S and international waste generation rates Industrial ecology solid waste exchanges and recycling Environmental economic corporate image personal and social benefits of solid waste management and minimization Solid waste assessment strategies and launch plans The Six Sigma systems approach for deployment Metrics and performance measurement for solid waste management Documentation and development of the deployment plan Implementation and execution of the solid waste minimization plan Communicating and leveraging success Solid waste modeling research and data collection Characterization by business activities Estimation prediction and evaluation

**Strategies of Sustainable Solid Waste Management** Hosam M. Saleh,2021-04-21 The world is currently experiencing increased environmental contamination with solid waste which is one of the greatest environmental threats today Although solid waste is harmful proper management and profitable recycling can make it beneficial to the environment In this regard estimation of the true quantities of solid wastes generated annually in developed and developing countries is important for evaluating suitable strategies for economic and sustainable procedures of waste management This book presents an interesting review of the economics of solid waste management in various developing and developed countries It examines several economic applications of solid waste such as innovative methods to generate bioelectricity from organic waste using microbial fuel cells and using solid waste as an alternative fuel in cement kilns

*Municipal Solid Waste Management in Developing Countries* Sunil Kumar,2016-11-18 This book contains detailed and structured approaches to tackling practical decision making troubles using economic consideration and analytical methods in Municipal solid waste MSW management Among all other types of environmental burdens MSW management is still a mammoth task and the worst part is that a suitable technique to curb the situation in developing countries has still not emerged Municipal Solid Waste Management in Developing Countries will help fill this information gap based on information provided by field professionals This information will be helpful to improve and manage solid waste systems through the application of modern management techniques It covers all the fundamental concepts of MSWM the various component systems such as collection transportation processing and disposal and their integration This book also discusses various component technologies available for the treatment processing and disposal of MSW Written in view of actual scenarios in developing countries it provides knowledge to develop solutions for prolonged problems in these nations It is mainly for undergraduate and postgraduate students research scholars professionals and policy makers

**Sustainable Solid Waste Management** Ni-Bin Chang,Ana Pires,2015-02-18 This book

presents the application of system analysis techniques with case studies to help readers learn how the techniques can be applied how the problems are solved and which sustainable management strategies can be reached

**Sustainable Waste Management Challenges in Developing Countries** Pariatamby, Agamuthu, Shahul Hamid, Fauziah, Bhatti, Mehran Sanam, 2019-10-18 As global waste generation increases at a rapid rate there is a dire need for waste management practices such as collection disposal and recycling to protect from environmental pollution However developing countries generate two to three times more waste resort to open dumps more often than developed countries and are slower to integrate waste management standards There is a need for studies that examine the waste generation and practices of countries that share similar economic backgrounds as they strive to implement successful waste management techniques Sustainable Waste Management Challenges in Developing Countries is an essential reference source that discusses the challenges and strategies of waste management practices and the unique waste issues faced by developing countries that prevent them from achieving the goal of integrated waste management While highlighting topics including e waste transboundary movement and consumption patterns this book is ideally designed for policymakers legislators waste company managers environmentalists students academicians and municipal planners seeking current research on the global waste management problem

Solid Wastes Management Stephen Burnley, 2014 Solid Wastes Management begins with a focus on processing municipal and similar commercial as well as industrial wastes assessing and minimising the environmental impacts of processing and disposal The second section reviews the treatment technologies available physical biological and thermal their advantages disadvantages and environmental performance The third section considers the environmental and health impacts of the technologies and reviews the use of models to predict landfill leachate gas formation and pollution dispersion The fourth section is on the human health impacts

**Solid Waste Management** John Anthony Connolly, Sandra E. Stainback, 1972

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**Proceedings of the Sixteenth International Conference on Solid Waste Technology and Management** International Conference on Solid Waste Technology and Management, University of Pennsylvania, Widener University. Department of Civil Engineering, 2000

Municipal Solid Waste Management and Recycling Technologies Mehra, Ritika, Kumar, Pramendra, Hung, Bui, 2024-08-28 The issue of overflowing landfills and environmental degradation caused by municipal solid waste is becoming increasingly pressing Despite the importance of recycling challenges such as contamination and the need for market demand for recycled materials persist Addressing these challenges requires a comprehensive understanding of waste composition innovative technologies and effective policies Municipal Solid Waste Management and Recycling Technologies serves as a solution offering a deep dive into the complexities of municipal solid waste recycling and providing insights that can drive sustainable waste management practices By delving into topics such as the role of education and awareness campaigns technological advancements in waste

sorting and the economic aspects of recycling this book equips readers with the knowledge needed to make a meaningful impact It explores innovative recycling technologies social and environmental implications successful case studies and strategies for reducing contamination in recycling processes The book also highlights the importance of collaboration among researchers policymakers and stakeholders to implement effective waste management systems

**Advances in Solid and Hazardous Waste Management** Sudha Goel,2017-08-03 This book presents reviews examples and case studies of innovative applications in solid and hazardous waste management The economics of waste management have since become a significant research area in their own right and two chapters address these issues In addition dedicated chapters cover specific categories of waste such as biomedical and institutional waste plastics and e waste The book subsequently discusses newer analytical methods like SEM EDX XRD and optical microscopy along with selected older methods for sampling and characterizing different types of waste The various applications of mathematical tools like linear optimization various software models like WISCLEach and DRASTIC and tools like remote sensing and GIS are illustrated in many of the chapters Lastly since composting is one of the most popular treatment methods for managing the organic component of municipal solid waste the book provides an overview of composting and the fundamentals of microbiology that are essential to understanding waste related biological processes The book was primarily written for students and practitioners in the field who are already familiar with the basics All chapters were prepared by practicing experts and scholars in the field and are intended to help readers better understand and apply these principles and practices in their own endeavours Key topics covered in the book The circular economy and the economics of solid waste management Various remote sensing and GIS applications for managing municipal solid waste coal fires in mines changes in land use and land cover in industrial areas etc Treatment and management of different types of solid waste institutional including biomedical residential e waste plastic and ash from thermal power plants Sampling and characterization of municipal waste and compost Fundamentals of microbiology Overview of environmental regulations especially those pertaining to solid and hazardous waste management

**Solid Waste Management: Abstracts from the Literature** ,1964 [Solid and Hazardous Waste Management](#) M.N. Rao,Razia Sultana,Sri Harsha Kota,2016-10-27 Solid and Hazardous Waste Management Science and Engineering presents the latest on the rapid increase in volume and types of solid and hazardous wastes that have resulted from economic growth urbanization and industrialization and how they have challenged national and local governments to ensure effective and sustainable management of these waste products The book offers universal coverage of the technologies used for the management and disposal of waste products such as plastic waste bio medical wastes hazardous wastes and e wastes Covers both traditional and new technologies for Identifying and categorizing the source and nature of the waste Provides methods for the safe disposal of municipal solid wastes plastic waste bio medical wastes hazardous wastes and e wastes Presents technologies that can be used for transportation and processing including resource recovery of the waste Discusses reclamation reuse and

recovery of energy from MSW



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