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## 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 lasi 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 texicity 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

#### I.I. Obserview

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

disposal (Eriksson et al., 2005). Responsibilities for waste management activities shall be assigned to waste generators, according to the polluter payer.

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

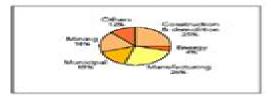


Fig. 1. Waste generation by sector

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,

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Albattat, Ahmad, Singh, Amrik, Tyagi, Pankaj Kumar, Haghi, A.K.

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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 Solid Waste Management John Anthony Connolly, Sandra E. Stainback, 1972 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 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 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 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 Solid Waste Management: Abstracts from the Literature .1964 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 Solid Waste Management Clarence G. Golueke, United States. Bureau of Solid Waste Management, 1970 Sustainable Solid Waste Management Ni-Bin Chang, Ana Pires, 2015-03-16 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 Comprehensive Study of Solid Waste Disposal in Cascade County, Montana Thomas, Dean & Hoskins, 1970 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 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 Waste Management in Rural Areas Florin-Constantin Mihai, 2017-09-06 The book points out that rural regions need proper attention at the global level concerning solid waste management sector where bad practices and public health threats could be avoided through traditional and integrated waste management routes Solid waste management in rural areas is a key issue in developing and transitioning countries due to the lack of proper waste management facilities and services The book further examines on the one hand the main challenges in the development of reliable waste management practices across rural regions and on the other hand the concrete solutions and the new opportunities across the world in dealing with municipal and agricultural wastes The book provides useful information for academics various professionals the members of civil society and national and local authorities Waste news [electronic iournal] ,1995 Solid Waste Management: Abstracts from the Literature ,1968 Accession Bulletin United States. Solid Waste Management Office, 1971-11 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 Solid Wastes Management/Refuse Removal Journal ,1980

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#### **Table of Contents Journal Of Solid Waste Management**

- 1. Understanding the eBook Journal Of Solid Waste Management
  - $\circ$  The Rise of Digital Reading Journal Of Solid Waste Management
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Journal Of Solid Waste Management
  - 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 Journal Of Solid Waste Management
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Journal Of Solid Waste Management
  - Personalized Recommendations

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

- 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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