

2017 waste management open

2017 Waste Management Open: A Watershed Moment for the Industry

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Summary: This article delves into the significance of the (hypothetical) "2017 Waste Management Open," analyzing its impact on the industry's trajectory. We explore key technological advancements, policy changes, and market trends unveiled at this event, highlighting their long-term implications for sustainability and economic growth within the sector.

The 2017 Waste Management Open: A Turning Point

The (hypothetical) "2017 Waste Management Open" marked a pivotal moment in the evolution of the waste management industry. This significant event brought together industry leaders, innovators, policymakers, and researchers, fostering collaboration and showcasing groundbreaking advancements that have shaped the sector's future. The 2017 Waste Management Open wasn't just another trade show; it was a catalyst for change, highlighting critical challenges and presenting innovative solutions to address them.

Technological Advancements Showcased at the 2017 Waste Management Open

One of the defining aspects of the 2017 Waste Management Open was the spotlight on technological innovation. Several advancements presented at the event have since become integral to modern waste management practices. These included:

Advanced Sorting Technologies: The 2017 Waste Management Open showcased revolutionary AI-powered sorting systems that significantly improved the efficiency and accuracy of material recovery. These systems, far surpassing traditional manual sorting methods, enabled higher recycling rates and reduced contamination. The impact of these advancements on improving recycling infrastructure is still being felt today.

Anaerobic Digestion Enhancements: New advancements in anaerobic digestion technology were presented, demonstrating increased efficiency in biogas production and improved digestate quality. These improvements have paved the way for larger-scale anaerobic digestion facilities, contributing significantly to renewable energy production and reducing landfill reliance. The 2017 Waste Management Open played a key role in promoting the adoption of these technologies.

Smart Waste Management Systems: The 2017 Waste Management Open also showcased the rise of smart waste management systems using IoT sensors and data analytics to optimize waste collection routes, predict waste generation, and improve overall operational efficiency. This marked a significant shift towards proactive and data-driven waste management strategies. Discussions at the 2017 Waste Management Open laid the foundation for the widespread adoption of these systems.

Policy Changes and Regulatory Impacts Following the 2017 Waste Management Open

The 2017 Waste Management Open also served as a platform for discussing crucial policy changes and their implications for the industry. Discussions centered around:

Extended Producer Responsibility (EPR): The event highlighted the growing momentum behind EPR schemes, placing greater responsibility on producers to manage the end-of-life of their products. This initiative, fueled in part by the conversations at the 2017 Waste Management Open, has driven innovation in product design for recyclability and reusability.

Waste-to-Energy Regulations: Discussions regarding waste-to-energy regulations and their environmental impact were central to the 2017 Waste Management Open. The event fostered a crucial dialogue surrounding best practices and responsible implementation of waste-to-energy technologies.

Landfill Diversion Initiatives: The 2017 Waste Management Open fostered collaboration amongst stakeholders to develop and implement innovative landfill diversion strategies, emphasizing the importance of reducing landfill waste and promoting circular economy principles.

Market Trends and Economic Impacts

The 2017 Waste Management Open provided valuable insights into emerging

market trends and their economic implications for the industry. The event highlighted:

The Rise of the Circular Economy: The 2017 Waste Management Open solidified the growing importance of the circular economy, emphasizing resource efficiency, waste reduction, and the creation of closed-loop systems. The event showcased successful circular economy models and spurred further investment in related technologies.

Increased Investment in Recycling Infrastructure: The event underscored the need for increased investment in recycling infrastructure to support higher recycling rates and meet the demands of a growing circular economy. Discussions at the 2017 Waste Management Open provided a roadmap for future investment strategies.

Growing Demand for Sustainable Waste Management Solutions: The event showcased a growing demand for sustainable waste management solutions driven by increasing consumer awareness and stricter environmental regulations. The 2017 Waste Management Open served as a catalyst for innovative solutions that cater to this growing demand.

Conclusion

The (hypothetical) 2017 Waste Management Open stands as a significant milestone in the history of the waste management industry. The event's emphasis on technological innovation, policy changes, and market trends continues to shape the sector's trajectory towards a more sustainable and economically viable future. The collaborative spirit and forward-thinking discussions held at the 2017 Waste Management Open paved the way for the remarkable advancements we see today. The legacy of this event continues to inspire progress and drive the industry toward a cleaner and more responsible tomorrow.

FAQs

1. What were the key technological advancements highlighted at the 2017 Waste Management Open? AI-powered sorting, enhanced anaerobic digestion, and smart waste management systems were key advancements.
1. How did the 2017 Waste Management Open influence policy changes? It spurred discussions on EPR, waste-to-energy regulations, and landfill diversion initiatives.

1. What market trends emerged from the 2017 Waste Management Open? The rise of the circular economy, increased investment in recycling infrastructure, and growing demand for sustainable solutions.
1. What was the overall impact of the 2017 Waste Management Open on the industry? It was a catalyst for innovation, collaboration, and a shift towards more sustainable practices.
1. Were there any specific companies that gained significant exposure at the event? (Hypothetical answer: Several innovative startups and established players showcased their technologies and gained significant traction.)
1. What were the key challenges discussed at the 2017 Waste Management Open? Addressing plastic pollution, improving recycling rates, and securing funding for infrastructure development were key challenges.
1. How did the 2017 Waste Management Open contribute to the circular economy? It highlighted successful circular economy models and spurred further investment in relevant technologies.
1. What role did international collaboration play at the 2017 Waste Management Open? (Hypothetical answer: International collaboration was crucial, showcasing best practices from across the globe and fostering partnerships for future projects.)
1. How can the lessons learned from the 2017 Waste Management Open be applied today? By continuing to invest in innovation, advocating for supportive policies, and fostering collaboration across the sector.

Related Articles

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1. "Landfill Diversion Strategies: Innovative Approaches in 2017": This article explores innovative landfill diversion strategies presented and discussed at the event.
1. "The Circular Economy: A 2017 Look at Emerging Models": This article examines the different circular economy models presented and discussed at the event.

1. "Sustainable Waste Management: Challenges and Opportunities in 2017":
This article summarizes the key challenges and opportunities highlighted at the 2017 Waste Management Open.

2017 waste management open: *Solid Waste Management* Surajbhan Sevda, Garima Chauhan, 2024-06-21 Waste materials in the solid form tend to be bulky and difficult to handle and transport. Its management could happen through physical, thermal, chemical or biological processing stages, with the exact sequence of and their operational optima being decided by the waste composition. In recent years, energy crisis and increased waste production have been undoubtedly major issues of concern. As we mentioned in the previous volume of this book, defining waste is crucial in terms of identifying the most adequate approach to recycle or recover resources from the waste. Various chemical, biochemical, and biological approaches are being investigated widely by researchers for waste valorization. Volume 2 of this book brings together the leading researchers working on solid waste management using biological and biochemical approaches.

2017 waste management open: *Waste Management and Treatment* Ankur Rajpal, Moharana Choudhury, Srijan Goswami, Arghya Chakravorty, Vimala Raghavan, 2024-07-31 This book covers environmental and economic waste treatment with resource recovery strategies covering mining, urban, agricultural, industrial, and sewage wastes. It includes waste management, life-cycle assessment, recycling, and recovering valuable materials from blast furnace slags, iron ore, coal, and bauxite mining. Wastewater recycling, reuse, treatment methods, and economic gain through nanotechnology are covered, along with biochemical study cycles in mining waste and tailing, landfill stabilization, energy, and nutrient recovery from household, urban, and hazardous waste. Features: Includes details on the generation and composition of hazardous wastes Focuses on practices in waste management followed in developing countries Illustrates the concept of energy and resource recovery Explains ethical, innovative management strategies dealing with solid, biomedical, and chemical wastes Discusses sustainable nanotechnology and engineered materials for treatment of biological and chemical pollutants in wastewater This book is aimed at researchers and graduate students in environmental engineering and management.

2017 waste management open: *Hazardous Waste Management* Zarook Shareefdeen, 2022-04-22 This book provides readers with the most current knowledge on hazardous waste management practices. It addresses the rapidly changing advances in waste stream characterization and the discovery of new chemicals – which have led to new hazardous wastes, technological innovation, stringent environmental regulations, changes in transport and dispersion modelling of hazardous pollutants, and new waste management techniques. *Hazardous Waste Management: Advances in Chemical and Industrial Waste Treatment and Technologies* is an invaluable reference for waste management and treatment professionals, chemical engineers and technicians, medical professionals, and environmental regulators, as well as students taking courses on hazardous waste management, environmental engineering, and environmental science.

2017 waste management open: *Urban Mining and Sustainable Waste Management* Sadhan Kumar Ghosh, 2020-03-17 This book gathers selected high-quality research papers presented at the IconSWM 2018 conference, which explore various aspects of urban mining. In addition, they discuss how to achieve sustainable waste management systems, urban mining, landfill mining, material recovery, circular economy, etc., with the aid of effective waste management practices. Additional topics covered include maximum resource circulation and efficiency, key differences between landfill mining and urban mining, and how urban mining can be combined with the concepts of circular economy and sustainability.

2017 waste management open: Technical Landfills and Waste Management Abdelkader Anouzla, Salah Souabi, 2024 Zusammenfassung: A zero waste society and the circular economy trend are urgently needed. Even if achieving 100% trash recycling and a fully circular economy may not always be attainable, aiming toward this goal might result in a sustainable future. Municipal solid wastes pose a hazard to the environment because of open burning, landfills, reckless disposal, and many other factors. Waste is being thrown away in more significant quantities and is made up of several different materials. Municipal solid waste (MSW) characteristics must be carefully considered when developing, implementing, or modifying solid waste management systems. Local waste variables that vary with cultural, climatic, socioeconomic, and institutional capacities are crucial for developing efficient waste management techniques. This book provides a comprehensive overview of landfills' situation, their categories, and the types of garbage they receive. The final section of the study provides an overview of prospective waste management techniques, their restrictions, and the potential areas for further research on landfill sites. This book has the advantage that world-class experts in their respective fields have written each chapter. As a result, this book presents a balanced picture across the whole spectrum of chapters on municipal solid wastes

2017 waste management open: Advanced Energy and Control Systems Chandan Kumar Chanda, Jerzy R. Szymanski, Afzal Sikander, Pranab Kumar Mondal, Dulal Acharjee, 2022-01-04 This book gathers selected research papers presented at the Third International Conference on Energy Systems, Drives, and Automations (ESDA 2020). It covers a broad range of topics in the fields of renewable energy, power management, drive systems for electrical machines, and automation. In a spam of about a few interesting articles, effort had gone in to critically discuss about the control system, energy management and distribution in a unified approach common to electrical, Control and mechanical engineering. This book also comprehensively discusses a variety of related tools and techniques and will be a valuable resource for researchers, professionals, and students in electrical and mechanical engineering disciplines.

2017 waste management open: Proceedings of the 1st International Conference on Sustainable Waste Management through Design Harvinder Singh, Prashant Garg, Inderpreet Kaur, 2018-10-30 This book describes the latest advances, innovations and applications in the field of waste management and environmental geomechanics as presented by leading researchers, engineers and practitioners at the International Conference on Sustainable Waste Management through Design (IC_SWMD), held in Ludhiana (Punjab), India on November 2-3, 2018. Providing a unique overview of new directions, and opportunities for sustainable and resilient design approaches to protect infrastructure and the environment, it discusses diverse topics related to civil engineering and construction aspects of the resource management cycle, from the minimization of waste, through the eco-friendly re-use and processing of waste materials, the management and disposal of residual wastes, to water treatments and technologies. It also encompasses strategies for reducing construction waste through better design, improved recovery, re-use, more efficient resource management and the performance of materials recovered from wastes. The contributions were selected by means of a rigorous peer-review process and highlight many exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different waste management specialists.

2017 waste management open: 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.

2017 waste management open: Environmental Considerations Associated with Hydraulic Fracturing Operations James A. Jacobs, Stephen M. Testa, 2019-04-23 A guide to environmental and communication issues related to fracking and the best approach to protect communities Environmental Considerations Associated with Hydraulic Fracturing Operations offers a much-needed resource that explores the complex challenges of fracking by providing an understanding of the environmental and communication issues that are inherent with hydraulic fracturing. The book balances the current scientific knowledge with the uncertainty and risks associated with hydraulic fracking. In addition, the authors offer targeted approaches for helping to keep communities safe. The authors include an overview of the historical development of hydraulic fracturing and the technology currently employed. The book also explores the risk, prevention, and mitigation factors that are associated with fracturing. The authors also include legal cases, regulatory issues, and data on the cost of recovery. The volume presents audit checklists for gathering critical information and documentation to support the reliability of the current environmental conditions related to fracking operations and the impact fracking can have on a community. This vital resource: Contains the technical information and mitigation recommendations for safety and environmental issues related to hydraulic fracturing Offers an historical overview of conventional and unconventional oil and gas drilling Explains the geologic and technical issues associated with fracking of tight sand and shale formulations Presents numerous case studies from the United States EPA and other agencies Discusses issues of co-produced waste water and induced seismicity from the injection of wastewater Written for environmental scientists, geologists, engineers, regulators, city planners, attorneys, foresters, wildlife biologists, and others, Environmental Considerations Associated with Hydraulic Fracturing Operations offers a comprehensive resource to the complex environmental and communication issues related to fracking.

2017 waste management open: Recent Advances in Environmental Management Ram Naresh Bharagava, 2018-10-25 This book focuses on the toxicity of various organic and inorganic pollutants, their eco-toxicological effects and eco-friendly approaches for remediation of environmental pollutants. Extensive focus has been relied on the recent advances in ecofriendly approaches such as bioremediation and phytoremediation technologies, including the use of various group of microbes for remediation of environmental pollutants, etc. Researchers working in the field of bioremediation, phytoremediation, waste management and related fields will find this compilation most useful for further study to learn about the subject matter.

2017 waste management open: Waste Management and Resource Recycling in the Developing World Pardeep Singh, Pramit Verma, Rishikesh Singh, Arif Ahamad, André C. S. Batalhão, 2022-12-08 Waste Management and Resource Recycling in the Developing World provides a unique perspective on the state of waste management and resource recycling in the developing world, offering practical solutions based on innovative tools and technologies, along with examples and case studies. The book is organized by waste type, including electronic, industrial and biomedical/hazardous, with each section covering advanced techniques, such as remote sensing and GIS, as well as socioeconomic factors, transnational transport and policy implications. Waste managers, environmental scientists, sustainability practitioners, and engineers will find this a valuable resource for addressing the challenges of waste management in the developing world. There is high potential for waste management to produce energy and value-added products. Sustainable waste management based on a circular economy not only improves sanitation, it also provides economic and environmental benefits. In addition to waste minimization, waste-to-economy

and waste-to-energy have become integral parts of waste management practices. A proper waste management strategy not only leads to reduction in environmental pollution but also moves toward generating sufficient energy for improving environmental sustainability in coming decades. - Presents case studies in every section to illustrate practical applications across the globe - Includes lessons learned from developed regions that can be applied to developing regions - Organized by type of waste, with consistent coverage in each section to promote ease of navigation

2017 waste management open: Waste Management, Sanitation and Society Amrita Dwivedi, 2023-07-07 This book investigates municipal solid waste and its generation, collection, transportation, and disposal. It not only focuses on urban waste, but also looks at various challenges and problems associated with the rural waste management practices adopted in Indian villages. It also considers waste prevention strategies like recycling, reuse and recovery which ease the burden on landfills, contribute towards the conservation of natural resources, and save energy. The book highlights the connection between the clean water, sanitation and waste management from an Indian perspective.

2017 waste management open: Futuristic Projects in Energy and Automation Sectors: A Brief Review of New Technologies Driving Sustainable Development Alok Kumar Verma, 2023-05-19 Futuristic Projects in Energy and Automation Sectors is a review of analyses on energy transitions in power grids and the opportunities and challenges for building sustainable energy systems to improve human capabilities. 14 chapters examine renewable energy-based and automated systems, with a focus on projects that are designed with sustainability in mind. Topics covered in this review include 1) power systems, 2) renewable energy, 3) power electronics, 4) energy storage and conversion, 5) home automation, 6) control systems, 7) robotics, 8) artificial intelligence, and 9) technology to fight COVID-19. This review will be of interest to scholars, and policymakers interested in futuristic and urban and rural energy planning, sustainable and renewable energy projects, sustainable development, and environment management.

2017 waste management open: **Waste Electrical and Electronic Equipment (WEEE) Handbook** Vannessa Goodship, Ab Stevels, Jaco Huisman, 2019-07-13 Waste Electrical and Electronic Equipment (WEEE) Handbook, Second Edition, is a one-stop reference on current electronic waste legislation initiatives, their impact, and the latest technological considerations for reducing electronic waste (e-waste) and increasing the efficiency of materials recovery. It also provides a wide-range of global and corporate examples and perspectives on the challenges that face specific regions and companies, along with the solutions they are implementing in managing e-waste, offering further insights on how discarded products can be treated. Sections introduce the reader to legislation and initiatives to manage WEEE and discuss technologies for the refurbishment, treatment and recycling of waste electronics. Further sections focus on electronic products that present particular challenges for recyclers, explore sustainable design of electronics and supply chains, discuss national and regional WEEE management schemes, and more. - Addresses the latest challenges and opportunities for electronic waste (e-waste) management, including e-waste collection models, circular economy implications, rare earth metal recovery, and much more - Draws lessons for waste electrical and electronic equipment (WEEE) policy and practice from around the world - Discusses legislation and initiatives to manage WEEE, including global e-waste initiatives, EU legislation relating to electronic waste, and eco-efficiency evaluation of WEEE take-back systems

2017 waste management open: **Sustainable Agriculture Reviews 52** Eric Lichtfouse, 2021-08-02 This book presents advanced knowledge and techniques to improve food quality, such as organic farming, fertilization using waste, reducing arsenic in food, soil restoration, forage production in arid regions and weed control. Agriculture is actually facing two major challenges, feeding an ever-growing population and providing safe food in the context of pollution, climate change and the future circular economy.

2017 waste management open: **Current Research Trends and Applications in Waste Management** Brijendra Kumar Kashyap, Manoj Kumar Solanki, 2023-11-13 This book covers latest

information on organic and inorganic waste management, and how the waste can be utilized as an energy source. An increasing world population and climate change rate hint that environmental health needs a sustainable waste recycling system worldwide. Management of wastes material plays a substantial role in the environment and climate regulation. Chapters contain modern tools and techniques for managing inorganic, biomedical, municipality, and food waste. The title covers the role of contemporary microbiology and biotechnological tools in waste management and how these microbial agents can enhance waste degradation and bioenergy production. The book covers interesting topics such as bio-ethanol production from agro-waste, microbial fuel cells, biogas production from animal waste, nanotechnology in waste recycling, etc. The primary audiences are researchers, scientists, students, and policymakers interlinked with waste management and applied microbial sectors.

2017 waste management open: Risks and Challenges of Hazardous Waste Management: Reviews and Case Studies Gabriella Marfe, Carla Di Stefano, 2020-10-21 This reference presents reviews and case studies of hazardous waste management in a selection of cities. The overarching themes of the compiled topics include 1) the problems of healthcare waste management, 2) case studies of hazardous waste mismanagement, 3) health risks associated with environmental waste, issues in environmental health and 4) grassroots environmentalism. The volume initially presents reviews and case studies from developing countries, including countries in South America (Argentina), Africa (Algeria and Nigeria), and Asia (India). The latter chapters of the book focus on environmental issues in Campania, a region in Italy. These chapters also provide an insight into the impact of the COVID-19 pandemic on waste management practices in this region. *Risks and Challenges of Hazardous Waste Management* is an insightful reference for management trainees, professionals and researchers associated with waste management and environmental health firms. Readers will gain insights into current issues and practices in the respective industries. The reviews and case studies presented in the reference are also useful to professionals involved in risk assessment studies.

2017 waste management open: *Zero Waste Management Technologies* Rouf Ahmad Bhat, **2017 waste management open:** Waste Management Practices in Developing Countries Linda Godfrey, 2021-09-01 This book provides insights into waste management practices in developing countries, and the application of research and innovation in finding appropriate solutions to improved waste management. The chapters have been selected with a focus on organic waste beneficiation, a significant waste stream in developing countries; the role of government and associated policy interventions; citizen behaviour in support of greater waste recycling; and the safe management of hazardous waste, particularly healthcare risk waste.

2017 waste management open: *Electronic Waste Management and Treatment Technology* Majeti Narasimha Vara Prasad, Meththika Vithanage, 2019-03-14 *Electronic Waste Management and Treatment Technology* applies the latest research for designing waste treatment and disposal strategies. Written for researchers who are exploring this emerging topic, the book begins with a short, but rigorous, discussion of electric waste management that outlines common hazardous materials. such as mercury, lead, silver and flame-retardants. The book also discusses the fate of metals contained in waste electrical and electronic equipment in municipal waste treatment. Materials and methods for the remediation, recycling and treatment of plastic waste collected from waste electrical and electronic equipment (WEEE) are also covered. Finally, the book covers the depollution benchmarks for capacitors, batteries and printed circuit boards from waste electrical and electronic equipment (WEEE) and the recovery of waste printed circuit boards through pyrometallurgy. - Describes depollution benchmarks for capacitors, batteries and printed wiring boards from waste electronics - Covers metals contained in waste electrical and electronic equipment in municipal waste - Provides tactics for the recycling of mixed plastic waste from electrical and electronic equipment

2017 waste management open: *Advances in Waste-to-Energy Technologies* Rajeev Singh, Vishal Prasad, Barkha Vaish, 2019-11-14 As global populations continue to increase, the application

of biotechnological processes for disposal and control of waste has gained importance in recent years. **Advances in Waste-to-Energy Technologies** presents the latest developments in the areas of solid waste management, Waste-to-Energy (WTE) technologies, biotechnological approaches, and their global challenges. It combines biotechnological procedures, sophisticated modeling, and techno-economic analysis of waste, and examines the current need for the maximum recovery of energy from wastes as well as the associated biotechnological and environmental impacts. Features: Presents numerous waste management practices and methods to recover resources from waste using the best biotechnological approaches available. Addresses the challenges, management, and policy issues of waste management and WTE initiatives. Includes practical case studies from around the world. Serves as a useful resource for professionals and students involved in cross-disciplinary and trans-disciplinary research programs and related courses. Discusses the economic and regulatory contexts for managing waste. This book will serve as a valuable reference for researchers, academicians, municipal authorities, government bodies, waste managers, building engineers, and environmental consultants requiring an understanding of waste management and the latest WTE technologies.

2017 waste management open: Bio-Based Materials and Waste for Energy Generation and Resource Management Ram Naresh Bharagava, Lalit Goswami, Anamika Kushwaha, Chaudhery Mustansar Hussain, 2023-05-08 **Bio-Based Materials and Wastes for Energy Generation and Resource Management** is the fifth and final volume in the series, **Advanced Zero Waste Tools: Present and Emerging Waste Management Practices**. It addresses processes and practices for utilizing bio-based materials and wastes to support efforts to promote a more sustainable society and provide readers with a better understanding of the major mechanisms required to achieve zero waste in different fields. This book covers numerous mechanisms supported by scientific evidence and case studies, as well as in-depth flowcharts and process diagrams to allow for readers to adopt these processes. Summarizing present and emerging zero waste tools on the scale of both experimental and theoretical models, **Advanced Zero Waste Tools** is the first step toward understanding the state-of-the-art practices in making the zero waste goal a reality. In addition to environmental and engineering principles, it also covers economic, toxicologic, and regulatory issues, making it an important resource for researchers, engineers, and policymakers working toward environmental sustainability. - Uses fundamental, interdisciplinary, and state-of-the-art coverage of zero waste research to provide an integrated approach to tools, methodology, and indicators for bio-based resource management - Presents strategies for treatment of biological waste to contribute to sustainable management and development - Includes numerous case studies to illustrate the management of biowaste for generation of economy and energy

2017 waste management open: Solid Waste Management for Resource-Efficient Systems Richa Singh, Sanjeeb Mohapatra, Mui-Choo Jong, 2024-08-13 **Circularity in Action: Solid Waste Management for Resource-Efficient Systems** promotes innovation and shares best practices based on the principles of circular economy and resource conservation on different aspects of sustainable solid waste management. It also explains sources, impacts and recycling potential of emerging wastes. This book presents management strategies including emerging green infrastructure and digitalization for recycling and gainful application of waste. In addition, it highlights various environmental and health hazards while providing different management strategies based on the principle of resource recovery and circular economy that can help to minimize the environmental impacts. - Provides insights for effective management practices with solid waste using case studies on sustainable waste management - Covers not only the scientific and technical aspects but also environmental, legal and policy aspects of solid waste management with a particular focus on recycling potential for various gainful applications - Contributes a platform for scientists and environmental researchers and planners to discuss environmental degradation and methodological approaches to sustainable management of recycled products

2017 waste management open: What a Waste 2.0 Silpa Kaza, Lisa Yao, Perinaz Bhada-Tata, Frank Van Woerden, 2018-12-06 Solid waste management affects every person in the world. By

2050, the world is expected to increase waste generation by 70 percent, from 2.01 billion tonnes of waste in 2016 to 3.40 billion tonnes of waste annually. Individuals and governments make decisions about consumption and waste management that affect the daily health, productivity, and cleanliness of communities. Poorly managed waste is contaminating the world's oceans, clogging drains and causing flooding, transmitting diseases, increasing respiratory problems, harming animals that consume waste unknowingly, and affecting economic development. Unmanaged and improperly managed waste from decades of economic growth requires urgent action at all levels of society. What a Waste 2.0: A Global Snapshot of Solid Waste Management to 2050 aggregates extensive solid waste data at the national and urban levels. It estimates and projects waste generation to 2030 and 2050. Beyond the core data metrics from waste generation to disposal, the report provides information on waste management costs, revenues, and tariffs; special wastes; regulations; public communication; administrative and operational models; and the informal sector. Solid waste management accounts for approximately 20 percent of municipal budgets in low-income countries and 10 percent of municipal budgets in middle-income countries, on average. Waste management is often under the jurisdiction of local authorities facing competing priorities and limited resources and capacities in planning, contract management, and operational monitoring. These factors make sustainable waste management a complicated proposition; most low- and middle-income countries, and their respective cities, are struggling to address these challenges. Waste management data are critical to creating policy and planning for local contexts. Understanding how much waste is generated—especially with rapid urbanization and population growth—as well as the types of waste generated helps local governments to select appropriate management methods and plan for future demand. It allows governments to design a system with a suitable number of vehicles, establish efficient routes, set targets for diversion of waste, track progress, and adapt as consumption patterns change. With accurate data, governments can realistically allocate resources, assess relevant technologies, and consider strategic partners for service provision, such as the private sector or nongovernmental organizations. What a Waste 2.0: A Global Snapshot of Solid Waste Management to 2050 provides the most up-to-date information available to empower citizens and governments around the world to effectively address the pressing global crisis of waste. Additional information is available at <http://www.worldbank.org/what-a-waste>.

2017 waste management open: Technical Landfills and Waste Management Salah Souabi,

2017 waste management open: Capitalism in Crisis? Alexandra Vasileva-Dienes, 2021-05-11

Worrisome recent economic downturns in Brazil, Russia and even China occurred against the backdrop of domestic issues pertaining to patrimonialism, corruption and informality. Some economies of the European periphery also suffered from similar domestic issues and plunged into recession due to economic crisis and austerity policies implemented in its wake. This book theorises and analyses the evolving nature of capitalism in emerging economies (the BRICs) and the European periphery in the face of pressures from globalisation and economic crises. The volume seeks to make sense of these crises and their impact using the framework of comparative capitalism while testing its applicability beyond the advanced industrialised countries for which it was developed. The authors draw on late Uwe Becker's open qualitative approach, systematically integrating the state into the analysis and paying close attention to the role of changing ideas, character of international integration, leadership and informality. The contributors analyse different responses to crises by the BRICs and countries of the Southern European periphery as well as respective dimensions of state-business interaction. The findings contribute to theorising varieties of capitalism beyond the OECD world and to developing a dynamic theory of capitalist change in the face of pressures from globalisation and economic crises. The chapters in this book were originally published as a special issue of Contemporary Politics.

2017 waste management open: Waste Management in MENA Regions Abdelazim M Negm, Noama Shareef, 2019-07-05 The book presents the state-of-the-art document describing the knowledge, data, cost-effectiveness and technologies employed to manage the waste in several countries such as Morocco, Tunisia, Egypt, Jordan, Syria, Palestine, Lebanon, and Yemen. It covers

diverse topics including the status of the waste in the region, solid waste management, solid waste recovery and disposal, the use of the agricultural waste in feeding poultry, sludge disposal and management, wastewater treatment and energy production. Also, the book explains how waste management systems are becoming more complex in many countries with the move from landfill-based to resource recovery-based solutions following the setting of international and national targets to divert waste from landfill and to increase recycling and recovery rates. Besides, this book also evaluates the environmental legislation in the selected countries and suggests new performance enhancements. This book is of interest to environmental professionals including scientists and policymakers in the Middle East, North Africa, and areas with similar features.

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Mohammad Rehan, Abdul-Sattar Nizami, Umer Rashid, Muhammad Raza Naqvi, 2019-09-24 Energy recovery from waste resources holds a significant role in the sustainable waste management hierarchy to support the concept of circular economies and to mitigate the challenges of waste originated problems of sanitation, environment, and public health. Today, waste disposal to landfills is the most widely used methodology, particularly in developing countries, because of limited budgets and lack of efficient infrastructure and facilities to maintain efficient and practical global standards. As a consequence, the dump-sites or non-sanitary landfills have become the significant sources of greenhouse gases emissions, soil and water contamination, unpleasant odors, leachate, and disease spreading vectors, flies, and rodents. However, waste can be utilized to produce a range of potential products such as energy, fuels and value-added products under waste biorefineries. A holistic and quantitative view, such as waste biorefinery, on waste management must be linked to the actual country, taking into account its socio-economic situation, local waste sources, and composition, as well as the available markets for the recovered energy and products. Therefore, it is critical to understand that solutions cannot be just copied from one region to the others. In fact, all waste handling, transportation, and treatment can represent a burden to the cities' environment and macro and micro economics, except for the benefits obtained from recovered materials and energy. Equally significant is a clear and quantitative understanding of the industrial, and public potential of utilizing recovered materials and energy in the markets as these can be reached without exacerbating the environmental issues using excessive transport. The book explores new advancements and discoveries on the development of emerging waste-to-energy technologies, practical implementation, and lessons learned from sustainable wastemanagement practices under waste biorefinery concept, which will accelerate the growth of circular economies in the world. The articles presented in this book have been written by expert researchers and academics working in institutions at different countries across the world including Germany, Greece, Japan, South Korea, China, Saudi Arabia, Pakistan, Indonesia, Malaysia, Iran, and India. The research articles have been arranged into three main subject categories; 1) Resource recovery from waste, 2) Waste to energy technologies and 3) Waste biorefineries. This book will serve as an important resource for research students, academics, industry, policy makers, and government agencies working in the field of integrated waste management, energy and resource recovery, waste to energy technologies, waste biorefineries etc. The editorial team of this book is very grateful to all the authors for their excellent contributions and making the book successful.

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Wastewater Management Rama Rao Karri, R Gobinath, Mohammad Hadi Dehghani, 2021-07-24
Soft Computing Techniques in Solid Waste and Wastewater Management is a thorough guide to computational solutions for researchers working in solid waste and wastewater management operations. This book covers in-depth analysis of process variables, their effects on overall efficiencies, and optimal conditions and procedures to improve performance using soft computing techniques. These topics coupled with the systematic analyses described will help readers understand various techniques that can be effectively used to achieve the highest performance. In-depth case studies along with discussions on applications of various soft-computing techniques help readers control waste processes and come up with short-term, mid-term and long-term strategies. Waste management is an increasingly important field due to rapidly increasing levels of waste production around the world. Numerous potential solutions for reducing waste production are underway, including applications of machine learning and computational studies on waste management processes. This book details the diverse approaches and techniques in these fields, providing a single source of information researchers and industry practitioners. It is ideal for academics, researchers and engineers in waste management, environmental science, environmental engineering and computing, with relation to environmental science and waste management. - Provides a comprehensive reference on the implementation of soft computing techniques in waste management, drawing together current research and future implications - Includes detailed algorithms used, enabling authors to understand and appreciate potential applications - Presents relevant case studies in solid and wastewater management that show real-world applications of discussed technologies

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