

WHY IS WASTE MANAGEMENT NEEDED

WHY IS WASTE MANAGEMENT NEEDED IS A CRUCIAL QUESTION IN TODAY'S RAPIDLY URBANIZING AND INDUSTRIALIZING WORLD. PROPER WASTE MANAGEMENT IS ESSENTIAL FOR MAINTAINING PUBLIC HEALTH, PROTECTING THE ENVIRONMENT, AND ENSURING SUSTAINABLE DEVELOPMENT. INEFFICIENT HANDLING OF WASTE CAN LEAD TO POLLUTION, HEALTH HAZARDS, AND DEPLETION OF VALUABLE RESOURCES. THIS ARTICLE EXPLORES THE REASONS WHY WASTE MANAGEMENT IS NEEDED, HIGHLIGHTING ITS ROLE IN ENVIRONMENTAL CONSERVATION, PUBLIC HEALTH, ECONOMIC BENEFITS, AND COMPLIANCE WITH REGULATIONS. UNDERSTANDING THE IMPORTANCE OF WASTE MANAGEMENT HELPS COMMUNITIES AND INDUSTRIES ADOPT BETTER PRACTICES TO MINIMIZE WASTE GENERATION AND PROMOTE RECYCLING AND REUSE. THE FOLLOWING SECTIONS WILL DELVE INTO THE ENVIRONMENTAL IMPACT OF POOR WASTE MANAGEMENT, HEALTH IMPLICATIONS, ECONOMIC ADVANTAGES, AND LEGAL REQUIREMENTS ASSOCIATED WITH WASTE HANDLING.

- ENVIRONMENTAL PROTECTION AND WASTE MANAGEMENT
- PUBLIC HEALTH AND SAFETY CONSIDERATIONS
- ECONOMIC BENEFITS OF EFFECTIVE WASTE MANAGEMENT
- LEGAL AND REGULATORY FRAMEWORK
- TECHNOLOGICAL ADVANCES IN WASTE MANAGEMENT

ENVIRONMENTAL PROTECTION AND WASTE MANAGEMENT

ONE OF THE PRIMARY REASONS WHY IS WASTE MANAGEMENT NEEDED IS TO SAFEGUARD THE ENVIRONMENT FROM THE ADVERSE EFFECTS OF WASTE ACCUMULATION. WASTE, ESPECIALLY NON-BIODEGRADABLE AND HAZARDOUS TYPES, CAN CONTAMINATE SOIL, WATER, AND AIR. PROPER WASTE MANAGEMENT MINIMIZES POLLUTION AND CONSERVES NATURAL RESOURCES.

REDUCTION OF LAND POLLUTION

IMPROPER DISPOSAL OF SOLID WASTE LEADS TO LAND POLLUTION, WHICH DEGRADES SOIL QUALITY AND HARMS TERRESTRIAL ECOSYSTEMS. WASTE MANAGEMENT TECHNIQUES SUCH AS LANDFILLING, COMPOSTING, AND RECYCLING REDUCE THE VOLUME OF WASTE THAT ENDS UP POLLUTING LAND AREAS. THIS HELPS MAINTAIN SOIL FERTILITY AND PROTECTS PLANT AND ANIMAL LIFE.

PREVENTION OF WATER CONTAMINATION

LEACHATE FROM UNMANAGED WASTE SITES CAN SEEP INTO GROUNDWATER AND SURFACE WATER BODIES, CONTAMINATING DRINKING WATER SOURCES AND AQUATIC HABITATS. EFFECTIVE WASTE MANAGEMENT PREVENTS THIS BY CONTROLLING WASTE DISPOSAL PROCESSES AND TREATING HAZARDOUS SUBSTANCES PROPERLY.

AIR QUALITY IMPROVEMENT

BURNING WASTE WITHOUT PROPER CONTROLS RELEASES TOXIC GASES AND PARTICULATE MATTER INTO THE ATMOSPHERE, CONTRIBUTING TO AIR POLLUTION AND CLIMATE CHANGE. WASTE MANAGEMENT STRATEGIES LIKE CONTROLLED INCINERATION AND METHANE CAPTURE FROM LANDFILLS HELP REDUCE AIR POLLUTION.

CONSERVATION OF NATURAL RESOURCES

RECYCLING AND REUSE OF WASTE MATERIALS REDUCE THE DEMAND FOR VIRGIN RAW MATERIALS, CONSERVING FORESTS, MINERALS, AND WATER. WASTE MANAGEMENT PROMOTES RESOURCE EFFICIENCY AND SUPPORTS SUSTAINABLE CONSUMPTION PRACTICES.

PUBLIC HEALTH AND SAFETY CONSIDERATIONS

EFFECTIVE WASTE MANAGEMENT IS VITAL FOR PROTECTING PUBLIC HEALTH AND ENSURING COMMUNITY SAFETY. ACCUMULATED WASTE CAN HARBOR PATHOGENS AND ATTRACT DISEASE VECTORS, CAUSING WIDESPREAD HEALTH ISSUES.

CONTROL OF DISEASE VECTORS

WASTE PILES PROVIDE BREEDING GROUNDS FOR MOSQUITOES, RODENTS, AND FLIES, WHICH TRANSMIT DISEASES LIKE MALARIA, DENGUE, AND LEPTOSPIROSIS. PROPER COLLECTION AND DISPOSAL OF WASTE REDUCE THESE RISKS SIGNIFICANTLY.

PREVENTION OF RESPIRATORY AND OTHER HEALTH PROBLEMS

EXPOSURE TO HAZARDOUS WASTE AND POLLUTANTS FROM WASTE BURNING CAN CAUSE RESPIRATORY DISEASES, SKIN INFECTIONS, AND OTHER HEALTH COMPLICATIONS. MANAGING WASTE PROPERLY REDUCES EXPOSURE TO HARMFUL SUBSTANCES.

SAFE HANDLING OF HAZARDOUS WASTE

MEDICAL, CHEMICAL, AND INDUSTRIAL WASTES CONTAIN TOXIC SUBSTANCES THAT REQUIRE SPECIALIZED TREATMENT. WASTE MANAGEMENT ENSURES THESE MATERIALS ARE HANDLED, TREATED, AND DISPOSED OF SAFELY TO AVOID ACCIDENTS AND LONG-TERM HEALTH EFFECTS.

ECONOMIC BENEFITS OF EFFECTIVE WASTE MANAGEMENT

BEYOND ENVIRONMENTAL AND HEALTH ADVANTAGES, WASTE MANAGEMENT ALSO OFFERS SIGNIFICANT ECONOMIC BENEFITS. IT CAN CREATE JOBS, REDUCE COSTS RELATED TO POLLUTION AND HEALTH CARE, AND PROMOTE CIRCULAR ECONOMY PRACTICES.

JOB CREATION AND ECONOMIC OPPORTUNITIES

THE WASTE MANAGEMENT SECTOR PROVIDES EMPLOYMENT IN WASTE COLLECTION, RECYCLING, RESOURCE RECOVERY, AND LANDFILL MANAGEMENT. THESE JOBS CONTRIBUTE TO ECONOMIC GROWTH AND COMMUNITY DEVELOPMENT.

COST SAVINGS THROUGH RECYCLING AND RESOURCE RECOVERY

RECYCLING REDUCES THE NEED FOR RAW MATERIAL EXTRACTION AND LOWERS PRODUCTION COSTS FOR INDUSTRIES. EFFICIENT WASTE MANAGEMENT LEADS TO SAVINGS IN ENERGY AND MATERIALS, WHICH BENEFITS BUSINESSES AND CONSUMERS ALIKE.

REDUCTION IN ENVIRONMENTAL CLEANUP COSTS

PREVENTING POLLUTION THROUGH PROPER WASTE MANAGEMENT DECREASES THE FINANCIAL BURDEN ON GOVERNMENTS AND COMMUNITIES FOR ENVIRONMENTAL REMEDIATION AND HEALTHCARE EXPENSES RELATED TO POLLUTION-INDUCED DISEASES.

SUPPORT FOR SUSTAINABLE ECONOMIC GROWTH

WASTE MANAGEMENT PROMOTES SUSTAINABLE DEVELOPMENT BY ENCOURAGING THE EFFICIENT USE OF RESOURCES AND MINIMIZING ENVIRONMENTAL DEGRADATION, WHICH IS ESSENTIAL FOR LONG-TERM ECONOMIC STABILITY.

LEGAL AND REGULATORY FRAMEWORK

WASTE MANAGEMENT IS ALSO DRIVEN BY LEGAL AND REGULATORY REQUIREMENTS DESIGNED TO PROTECT THE ENVIRONMENT AND PUBLIC HEALTH. COMPLIANCE WITH THESE LAWS IS MANDATORY FOR INDIVIDUALS AND ORGANIZATIONS.

ENVIRONMENTAL PROTECTION LAWS

MANY COUNTRIES HAVE ENACTED LAWS REGULATING WASTE GENERATION, TRANSPORTATION, TREATMENT, AND DISPOSAL. THESE LAWS ARE ESSENTIAL TO CONTROL POLLUTION AND ENSURE SAFE WASTE HANDLING PRACTICES.

INTERNATIONAL AGREEMENTS AND STANDARDS

GLOBAL INITIATIVES SUCH AS THE BASEL CONVENTION REGULATE THE TRANSBOUNDARY MOVEMENT OF HAZARDOUS WASTE TO PREVENT ENVIRONMENTAL HARM IN LESS DEVELOPED REGIONS. ADHERING TO INTERNATIONAL STANDARDS ENSURES RESPONSIBLE WASTE MANAGEMENT WORLDWIDE.

PENALTIES AND ENFORCEMENT

NON-COMPLIANCE WITH WASTE MANAGEMENT REGULATIONS CAN RESULT IN FINES, LEGAL ACTION, AND REPUTATIONAL DAMAGE FOR BUSINESSES AND INDIVIDUALS. EFFECTIVE ENFORCEMENT MECHANISMS MOTIVATE ADHERENCE TO BEST PRACTICES.

TECHNOLOGICAL ADVANCES IN WASTE MANAGEMENT

INNOVATIONS IN TECHNOLOGY HAVE TRANSFORMED WASTE MANAGEMENT, MAKING IT MORE EFFICIENT AND ENVIRONMENTALLY FRIENDLY. THESE ADVANCES ADDRESS THE CHALLENGES ASSOCIATED WITH INCREASING WASTE VOLUMES.

WASTE-TO-ENERGY TECHNOLOGIES

MODERN INCINERATION AND GASIFICATION TECHNIQUES CONVERT WASTE INTO ENERGY, REDUCING LANDFILL USE AND GENERATING ELECTRICITY OR HEAT. THIS TECHNOLOGY CONTRIBUTES TO RENEWABLE ENERGY GOALS.

ADVANCED RECYCLING METHODS

TECHNOLOGIES SUCH AS CHEMICAL RECYCLING AND AUTOMATED SORTING IMPROVE THE RECOVERY OF MATERIALS FROM COMPLEX WASTE STREAMS, ENHANCING RECYCLING RATES AND MATERIAL QUALITY.

SMART WASTE COLLECTION SYSTEMS

INTERNET OF THINGS (IoT) DEVICES AND DATA ANALYTICS OPTIMIZE WASTE COLLECTION ROUTES AND SCHEDULES, REDUCING OPERATIONAL COSTS AND ENVIRONMENTAL IMPACT.

BIOLOGICAL TREATMENT PROCESSES

COMPOSTING AND ANAEROBIC DIGESTION CONVERT ORGANIC WASTE INTO VALUABLE PRODUCTS LIKE COMPOST AND BIOGAS, CONTRIBUTING TO CIRCULAR RESOURCE USE AND REDUCING LANDFILL DEPENDENCE.

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FREQUENTLY ASKED QUESTIONS

WHY IS WASTE MANAGEMENT IMPORTANT FOR ENVIRONMENTAL PROTECTION?

WASTE MANAGEMENT HELPS REDUCE POLLUTION, PROTECTS ECOSYSTEMS, AND CONSERVES NATURAL RESOURCES BY PROPERLY DISPOSING OF AND RECYCLING WASTE MATERIALS.

HOW DOES WASTE MANAGEMENT CONTRIBUTE TO PUBLIC HEALTH?

PROPER WASTE MANAGEMENT PREVENTS THE SPREAD OF DISEASES BY CONTROLLING WASTE DISPOSAL, REDUCING EXPOSURE TO HAZARDOUS MATERIALS, AND MINIMIZING BREEDING GROUNDS FOR PESTS.

WHAT ROLE DOES WASTE MANAGEMENT PLAY IN RESOURCE CONSERVATION?

WASTE MANAGEMENT PROMOTES RECYCLING AND REUSE, WHICH CONSERVES RAW MATERIALS AND REDUCES THE NEED FOR EXTRACTING NEW RESOURCES, THEREBY PRESERVING THE ENVIRONMENT.

WHY IS WASTE MANAGEMENT NECESSARY FOR SUSTAINABLE DEVELOPMENT?

EFFECTIVE WASTE MANAGEMENT SUPPORTS SUSTAINABLE DEVELOPMENT BY MINIMIZING ENVIRONMENTAL IMPACT, CONSERVING RESOURCES, AND ENSURING HEALTHIER LIVING CONDITIONS FOR FUTURE GENERATIONS.

HOW DOES WASTE MANAGEMENT HELP IN REDUCING GREENHOUSE GAS EMISSIONS?

BY MANAGING WASTE THROUGH RECYCLING, COMPOSTING, AND PROPER DISPOSAL, WASTE MANAGEMENT REDUCES METHANE EMISSIONS FROM LANDFILLS AND LOWERS THE CARBON FOOTPRINT ASSOCIATED WITH WASTE.

WHAT ECONOMIC BENEFITS DOES WASTE MANAGEMENT PROVIDE?

WASTE MANAGEMENT CREATES JOBS, REDUCES COSTS ASSOCIATED WITH POLLUTION CLEANUP, AND RECOVERS VALUABLE MATERIALS THAT CAN BE REUSED OR SOLD, CONTRIBUTING TO ECONOMIC GROWTH.

WHY IS WASTE MANAGEMENT CRITICAL IN URBAN AREAS?

IN URBAN AREAS, HIGH POPULATION DENSITY GENERATES LARGE AMOUNTS OF WASTE, MAKING EFFECTIVE WASTE MANAGEMENT

ESSENTIAL TO PREVENT POLLUTION, MAINTAIN HYGIENE, AND IMPROVE QUALITY OF LIFE.

HOW DOES WASTE MANAGEMENT SUPPORT CLIMATE CHANGE MITIGATION?

BY REDUCING LANDFILL WASTE AND PROMOTING SUSTAINABLE PRACTICES LIKE RECYCLING AND COMPOSTING, WASTE MANAGEMENT LOWERS EMISSIONS OF GREENHOUSE GASES THAT CONTRIBUTE TO CLIMATE CHANGE.

WHAT ARE THE RISKS OF NOT HAVING PROPER WASTE MANAGEMENT?

WITHOUT PROPER WASTE MANAGEMENT, COMMUNITIES FACE INCREASED POLLUTION, HEALTH HAZARDS, ENVIRONMENTAL DEGRADATION, AND DEPLETION OF NATURAL RESOURCES.

HOW DOES WASTE MANAGEMENT IMPROVE COMMUNITY AESTHETICS AND LIVING CONDITIONS?

PROPER WASTE MANAGEMENT PREVENTS LITTERING AND ILLEGAL DUMPING, LEADING TO CLEANER STREETS, REDUCED ODORS, AND OVERALL IMPROVED VISUAL APPEAL AND LIVING STANDARDS IN COMMUNITIES.

ADDITIONAL RESOURCES

1. *UNDERSTANDING THE IMPORTANCE OF WASTE MANAGEMENT*

THIS BOOK EXPLORES THE FUNDAMENTAL REASONS WHY EFFECTIVE WASTE MANAGEMENT IS ESSENTIAL FOR ENVIRONMENTAL SUSTAINABILITY. IT DISCUSSES THE IMPACT OF IMPROPER WASTE DISPOSAL ON ECOSYSTEMS, HUMAN HEALTH, AND URBAN INFRASTRUCTURE. READERS WILL GAIN INSIGHTS INTO THE CHALLENGES FACED BY MODERN CITIES AND THE STRATEGIES IMPLEMENTED TO MITIGATE WASTE-RELATED ISSUES.

2. *THE ENVIRONMENTAL NECESSITY OF WASTE MANAGEMENT*

FOCUSING ON ENVIRONMENTAL SCIENCE, THIS BOOK EXPLAINS HOW WASTE MANAGEMENT PRACTICES HELP REDUCE POLLUTION AND CONSERVE NATURAL RESOURCES. IT HIGHLIGHTS THE ROLE OF RECYCLING, COMPOSTING, AND WASTE REDUCTION IN MINIMIZING LANDFILL USE. THE BOOK ALSO COVERS THE NEGATIVE CONSEQUENCES OF NEGLECTING WASTE DISPOSAL SYSTEMS.

3. *WASTE MANAGEMENT: PROTECTING OUR PLANET*

DESIGNED FOR A GENERAL AUDIENCE, THIS BOOK UNDERScores THE CRITICAL NEED FOR WASTE MANAGEMENT IN PROTECTING BIODIVERSITY AND COMBATING CLIMATE CHANGE. IT PRESENTS CASE STUDIES FROM AROUND THE WORLD WHERE WASTE MANAGEMENT INITIATIVES HAVE LED TO POSITIVE ENVIRONMENTAL OUTCOMES. THE READER WILL UNDERSTAND THE CONNECTION BETWEEN WASTE PRACTICES AND GLOBAL ECOLOGICAL HEALTH.

4. *WHY WASTE MANAGEMENT MATTERS: A PUBLIC HEALTH PERSPECTIVE*

THIS TITLE DELVES INTO THE PUBLIC HEALTH IMPLICATIONS OF POOR WASTE MANAGEMENT. IT EXPLAINS HOW UNMANAGED WASTE CONTRIBUTES TO THE SPREAD OF DISEASES AND CONTAMINATES WATER AND SOIL. THE BOOK ALSO DISCUSSES POLICY MEASURES AND COMMUNITY ACTIONS THAT HELP MAINTAIN SANITARY CONDITIONS.

5. *WASTE MANAGEMENT AND SUSTAINABLE DEVELOPMENT*

THIS BOOK LINKS WASTE MANAGEMENT TO THE BROADER GOALS OF SUSTAINABLE DEVELOPMENT. IT EXAMINES HOW MANAGING WASTE EFFECTIVELY CAN SUPPORT ECONOMIC GROWTH WHILE PRESERVING ENVIRONMENTAL QUALITY FOR FUTURE GENERATIONS. READERS WILL FIND DISCUSSIONS ON INNOVATIVE TECHNOLOGIES AND SUSTAINABLE URBAN PLANNING.

6. *THE ECONOMICS OF WASTE MANAGEMENT: WHY IT'S ESSENTIAL*

FOCUSING ON THE ECONOMIC ASPECTS, THIS BOOK ANALYZES THE COSTS AND BENEFITS OF WASTE MANAGEMENT SYSTEMS. IT COVERS THE FINANCIAL IMPACT OF WASTE ON MUNICIPALITIES AND THE ECONOMIC INCENTIVES FOR RECYCLING AND WASTE REDUCTION. THE BOOK ALSO EXPLORES HOW WASTE MANAGEMENT CONTRIBUTES TO JOB CREATION AND RESOURCE EFFICIENCY.

7. *FROM TRASH TO TREASURE: THE NEED FOR WASTE MANAGEMENT*

THIS BOOK TELLS THE STORY OF HOW WASTE CAN BE TRANSFORMED INTO VALUABLE RESOURCES THROUGH PROPER MANAGEMENT. IT COVERS METHODS LIKE RECYCLING, UPCYCLING, AND ENERGY RECOVERY, EMPHASIZING THE IMPORTANCE OF VIEWING WASTE AS A RESOURCE RATHER THAN A PROBLEM. THE NARRATIVE ENCOURAGES A SHIFT IN MINDSET TOWARD MORE

8. *GLOBAL CHALLENGES IN WASTE MANAGEMENT*

HIGHLIGHTING WORLDWIDE ISSUES, THIS BOOK EXAMINES THE GROWING WASTE CRISIS AND WHY EFFECTIVE MANAGEMENT IS URGENTLY NEEDED. IT DISCUSSES THE DISPARITIES IN WASTE HANDLING BETWEEN DEVELOPED AND DEVELOPING COUNTRIES AND THE GLOBAL IMPACT OF MARINE AND ELECTRONIC WASTE. THE BOOK ADVOCATES FOR INTERNATIONAL COOPERATION AND POLICY REFORMS.

9. *THE ROLE OF WASTE MANAGEMENT IN CLIMATE ACTION*

THIS BOOK CONNECTS WASTE MANAGEMENT PRACTICES TO EFFORTS IN REDUCING GREENHOUSE GAS EMISSIONS. IT EXPLAINS HOW LANDFILLS AND WASTE INCINERATION CONTRIBUTE TO CLIMATE CHANGE AND HOW IMPROVED WASTE HANDLING CAN MITIGATE THESE EFFECTS. THE READER WILL LEARN ABOUT INNOVATIVE APPROACHES TO INTEGRATE WASTE MANAGEMENT INTO BROADER CLIMATE STRATEGIES.

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why is waste management needed: *Waste Problems and Management in Developing Countries* Umair Riaz, Shazia Iqbal, Moazzam Jamil, 2023-06-23 This new volume offers effective solutions to the mismanagement of waste, particularly in developing countries, by providing an understanding of different types of wastes, their generation, and use of advanced technologies for waste management, and by focusing on integrating the technical and regulatory complexities of waste management. It provides a comprehensive overview of the characterization, issues, and regulatory development of waste management for sustainable solutions and prevention techniques. Covering the various types of pollution, including pollution from plastics, industrial activities, metals, livestock, healthcare, food loss and waste, etc., the book explores new techniques for thermal and radioactive waste management and includes such methods as vermicomposting and composting for organic waste management and profitable use. The volume also looks at the role of modern technologies and legislation measures to manage biosolid waste. Numerous data sets obtained from various surveys are included, and special categories of waste that may not fit precisely into either RCRA Subtitle D (solid wastes) or Subtitle C (hazardous wastes) are discussed as well.

why is waste management needed: Land Disposal of Radioactive Wastes, Licensing Requirements; Regulation of Radioactive Waste Management, Essays B1; Classification Systems for Radioactive Waste Disposal , 1982

why is waste management needed: **Waste Management** Timothy C. Jacobson, 1993 In the beginning we knew them as scavengers. Then as garbagemen. Then solid waste haulers. Then the dispensers of sophisticated environmental services. The changing language charts the evolution of a huge industry. No company better represents this industry than Waste Management, today the largest and most successful provider of environmental management services in the world. The range of capabilities that Waste Management's family of companies offers today represents a wish-list of services for the environmentally awakened end of the twentieth century. It includes collecting, disposing, and reusing solid waste in sanitary landfills, incinerators, and through recycling;

managing all forms of hazardous wastes through treatment, incineration, and recovery processes; remedying chemical waste pollution; managing medical waste; transporting and securing disposal of low-level nuclear wastes; generating a scarce commodity, energy (chiefly electricity), from an abundant one, garbage, in waste-to-energy incinerators and through methane gas recovery from landfills; and programs to encourage waste-reduction and recycling-the greatest of all environmental crusades. A list of the company's accomplishments abounds with superlatives which are important less as a boast than as an indicator of scale. Waste Management is the nations largest handler of solid and chemical waste; the largest asbestos-abatement company; the largest private waste-water treatment company; the largest low-level radioactive waste management company; the largest wastereduction consultancy; the third largest engineering firm; and one of the largest managers of medical waste. The company is the largest buyer of trucks and containers, whose burgundy color is recognized in cities and towns everywhere. What we once viewed merely as a problem of sanitation of conservation, we embrace today under the banner of environmentalism. To some, who have appropriated the word green for their cause, environmentalism has become a fierce ideology. To others, like Dean Buntrock, founder and chairman of Waste Management, Inc., it has become an opportunity to provide a vital service and build one of the world's most successful companies in the process. As our cultural attitudes have shifted and as the regulations regarding waste have multiplied, markets have been created and sustained. For those with the right combination of foresight and know-how, the opportunities have been enormous. Waste Management explains how Waste Management, Inc. shaped and was shaped by those opportunities. It describes how, in the last twenty years, one of America's great companies has embraced change and created wealth as it grew.--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

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why is waste management needed: *Waste Management and Resource Recovery* Charles R. Rhyner, Leander J. Schwartz, Robert B. Wenger, Mary G. Kohrell, 2017-12-14 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 recover, 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.

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why is waste management needed: Waste Policy and the Landfill Directive Great Britain. Parliament. House of Commons. Environment, Food and Rural Affairs Committee, 2005 400 million tonnes of waste is produced in England and Wales from industrial, commercial and household sources, with 375 million tonnes produced in England alone. Following on from its previous report on waste management issues (HCP 385-I, session 2002-03, ISBN 0215010876) published in May 2003, the Committee's report focuses on the progress being made to meet targets for recycling, and the impact of the EU Landfill Directive on reducing the amount of waste sent to landfills, particularly in hazardous waste landfill capacity. Findings include that waste policy has a lower public profile than many other environmental issues, and its development is hindered by a lack of quality data. Concerns are raised about the level of hazardous waste that is unaccounted for, following the ending of co-disposal of hazardous and non-hazardous waste in the same landfill. Government funding for research into new treatment technologies is welcomed, but more investment is needed; and the planning system is a key influence on the country's waste management capacity. The Committee also recommends that the Landfill Tax should be increased to £35 per tonne; and that the introduction of local authority schemes to promote household waste recycling should be left at the discretion of local councils, with variable charging schemes only introduced if this can avoid disadvantaging low-income families.

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why is waste management needed: Nuclear Waste Management in a Globalised World

Urban Strandberg, Mats Andrén, 2013-09-13 High-level nuclear waste (HLW) is a controversial and risky issue. For the next 100 years, the HLW will be subject to policy decisions and value assessments. Physically safe, technologically stable, and socio-economically sustainable HLW-management will top the agenda. That must be accomplished in a society whose segments are both stable and in a rapid state of flux, under the influence of global as well as national factors, private interests as well as the vagaries of national politics. Among the challenges to be faced is how to codify responsibilities of nuclear industry, governments and international organisations, and any adopted management policy must attain legitimacy at the local, national, regional and global levels. All such considerations raise questions about the practical and theoretical knowledge. This special issue book will address these questions by exploring HLW-management in Canada, France, Germany, India, Sweden, the UK and the USA. Special emphasis will be placed on highlighting national context, current trends and uncertainties, with relevance to a socially sustainable contemporary and future HLW-management.

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