

# Assessment Of Solid Waste Management In Liberia Unep

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## **YU PONCE**

*Application of a Pollution Prevention Initiative* World Bank Publications  
Solid Waste ManagementA Comprehensive Assessment of Solid Waste Problems, Practices, and NeedsSolid Waste: Assessment, Monitoring and RemediationGulf Professional Publishing  
**Solid Waste Management Environmental Assessment** Food & Agriculture Org.

The first edition described the concept of Integrated Waste Management (IWM), and the use of Life Cycle Inventory (LCI) to provide a way to assess the environmental and economic performance of solid waste systems. Actual examples of IWM systems and published accounts of LCI models for solid waste are now appearing in the literature. To draw out the lessons learned from these experiences a significant part of this 2nd edition focuses on case studies - both of IWM systems, and of where LCI has been used to assess such systems. The 2nd edition also includes updated chapters on waste generation, waste collection, central sorting, biological treatment, thermal treatment, landfill and materials recycling. This 2nd edition also provides a more user-friendly model (IWM-2) for waste managers. To make it more widely accessible, this edition provides the new tool in Windows format, with greatly improved input and output features, and the ability to compare different scenarios. A detailed user's guide is provided, to take the reader through the use of the IWM-2 model, step by step. IWM-2 is designed to be an "entry level" LCI model for solid waste - user-friendly and appropriate to users starting to apply life cycle thinking to waste systems - while more expert users will also find many of the advanced features of the IWM-2 model helpful. IWM-2 is delivered on CD inside the book.

## **A Comprehensive Assessment of Solid Waste Problems, Practices, and Needs** John Wiley & Sons

This book covers a broad group of wastes, from biowaste to hazardous waste, but primarily the largest (by mass and volume) group of wastes that are not hazardous, but also are not inert, and are problematic for three major reasons: (1) they are difficult to manage because of their volume: usually they are used in civil engineering as a common fill etc., where they are exposed to environmental conditions almost the same way as at disposal sites; (2) they are not geochemically stable and in the different periods of environmental exposure undergo transformations that might add hazardous properties to the material that are not displayed when it is freshly generated; (3) many designers and researchers in different countries involved in waste management are often not aware of time-delayed adverse environmental impact of some large-volume waste, and also do not consider some positive properties that may extend the area of their environmentally beneficial application.

### South Shore, Valley Region Solid Waste Management Study BoD - Books on Demand

This booklet provides a list of success and sustainability indicators for primary solid waste collection systems.

### *Assessment of engineering solutions for solid waste removal from irrigation canals in North Lebanon* Gulf Professional Publishing

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.

### *An assessment of solid waste management in a local authority* Pergamon

This book covers a broad group of wastes,

from biowaste to hazardous waste, but primarily the largest (by mass and volume) group of wastes that are not hazardous, but also are not inert, and are problematic for three major reasons: (1) they are difficult to manage because of their volume: usually they are used in civil engineering as a common fill etc., where they are exposed to environmental conditions almost the same way as at disposal sites; (2) they are not geochemically stable and in the different periods of environmental exposure undergo transformations that might add hazardous properties to the material that are not displayed when it is freshly generated; (3) many designers and researchers in different countries involved in waste management are often not aware of time-delayed adverse environmental impact of some large-volume waste, and also do not consider some positive properties that may extend the area of their environmentally beneficial application.

An Assessment of Solid Waste Management in Jamaica, W.I. GRIN Verlag  
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.

### **Integrated Solid Waste Management**

WEDC, Loughborough University  
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>. Solid Waste Management Technology Assessment for Roanoke, Virginia CRC Press

Master's Thesis from the year 2015 in the subject Geography / Earth Science - Miscellaneous, , language: English, abstract: Improper management of solid waste poses many challenges to the stakeholders such as residents, council authorities, business community and other support groups. The general objective of the study is to assess the sustainability of waste management in Glendale. The researcher used case study research design in conjunction with mixed methods research in the study. Both qualitative and quantitative methodologies were used to collect data. The target population for the study consisted of residents of Valley, Westville Park and Sisk, council authorities, Environmental Management Agency (EMA) officer, waste collectors, members of community based organizations (CBOs) and the environmental health officer. The total population was 569 and the sample size was 235. Stratified systematic sampling was employed to select 220 households and the rest except CBO members were picked using purposive sampling. CBO members were selected using convenience sampling. Data were collected using self-administered questionnaire, interviews, focus group discussions (FGDs), observations as well as secondary data. Qualitative data was analysed thematically while quantitative data was analysed using statistical package for social sciences (SPSS) version 16.0 as well as Pearson Chi square test. The results of the study indicated that solid waste management in Glendale is inefficient. Four and half tonnes of waste is generated per day in Glendale but only 2.0tonnes is collected and 2.5tonnes is left uncollected. It was noted that the waste is

mainly decomposable organic. There is widespread illegal dumping of waste, inconsistent collection of waste, insufficient provision of receptacles and the council's official dump site is illegal. The council dumped waste on an illegal dumpsite characterised by open dumping and burning of waste. It was also noted that the waste was not separated according to type at the source. The study recommended an increase in awareness campaigns to ensure a change in the attitudes of the residents especially in connection with managing sanitary waste. In addition, the council should play its part by collecting waste frequently by increasing the size of its fleet for waste collection. The decomposable organic waste should also be used for generation of biogas.

### Environmental Assessment, Landfill Component of Halton's Solid Waste Management System John Wiley & Sons

This book reports research on policy and legal issues, anaerobic digestion of solid waste under processing aspects, industrial waste, application of GIS and LCA in waste management, and a couple of research papers relating to leachate and odour management.

### *Solid Waste Management* Solid Waste ManagementA Comprehensive

Assessment of Solid Waste Problems, Practices, and NeedsSolid Waste: Assessment, Monitoring and Remediation This volume provides a comprehensive method for optimizing solid waste management practices and procedures at college and university campuses through the use of cluster analysis to combine Life Cycle Assessment and Analytical Hierarchy Process. Author Pezhman Taherei uses Malaysia's University of Malaya as a case study and model, and through this method was able to assess which combination of waste disposal, management, and recycling techniques generate the least environmental impact while retaining the maximum cost savings for the university. A method for analysis of solid waste composition is also proposed. Higher education institutes generate thousands of tons of solid waste per year.

Comprehensive solid waste management programs, which take integrated solid waste management systems into consideration, are one of the greatest challenges to achieving campus sustainability. This system can serve as a guide and blueprint for other universities that are taking steps toward sustainability through improved solid waste management.

### University Campus Solid Waste Management Springer

Waste management in Lebanon is a significant issue anticipating cascading and spill-over effect on livelihood, environment and agriculture. North Lebanon has been experiencing population growth spurts due to humanitarian crises in neighbouring countries that contributes to the urgency of finding sustainable solutions. Adequate delivery of response measures is beyond the capacities of local authorities. Consequently, waste crisis has reached its historical peaks. It is unlikely that upcoming years can bring radical shifts related to the trends in rapidly increasing waste generation. However, the seemingly uncontrollable mechanisms should not lead to inaction, but concentrated efforts should be stepped up to eliminate harmful consequences. The project "Rehabilitation and waste

management of El-Bared Canal Irrigation System to reduce source-to-sea pollution and improve livelihoods in the Akkar Region of Lebanon", financed by the Government of Norway, has been formulated to ensure minimal discharges of waste from El-Bared System to the Mediterranean Sea, thus improving the livelihoods of the people depending on the system through irrigation canal system rehabilitation, solid waste disposal, and improved agricultural output and job creation. Applying a pilot approach, the project mainly focuses on Akkar irrigation scheme to introduce both hard investment and soft measures in response to the waste crisis. Following a multi-criteria assessment approach, the current report maps waste removal technologies and provides recommendations on their

functions and suitability in the context of the target area. Based on broader understanding of the feasibility, it helps come to a decision on technology selection.

*Solid Waste Management*

**Assessment, Monitoring and Remediation**

**Combining Life Cycle Assessment and Analytical Hierarchy Process**

Modelling of Life Cycle Assessment of Solid Waste Management Systems and Technologies

**The case of Valley, Westville Park and sisk suburbs of Glendale in Zimbabwe**

Integrated Solid Waste Management

Northern Region Solid Waste Management Study

**Case Studies and Guidelines for Developing Countries**