

Book Announcements

Integrated Solid Waste Management: A Life Cycle Inventory

Second Edition

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Description

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.

Special Features

- Integrated Waste Management case studies (12)
- Life Cycle Inventory case studies of Integrated Waste Management systems (6)
- CD-ROM containing IWM-2, a Life Cycle Inventory model for Integrated Waste Management system analysis and optimisation

Readership

Policy-makers in local, national and international government, waste managers and professionals in industries concerned with solid waste management (e.g. packaging, food and consumer goods), Researchers, Academics, and NGOs interested in the field of sustainable waste management. This book is also of value to environmental managers and environmentalists in general.

Main Contents

Chapter 1. Introduction	Chapter 14. Materials recycling
Section 1. Integrated Waste Management and Life Cycle Assessment	Section 3. IWM-2 – A User's Guide
Chapter 2. Integrated Waste Management	Chapter 15. IWM-2: A Life Cycle Inventory model for Integrated Waste Management
Chapter 3. The development of Integrated Waste Management systems: Case studies and their analysis	Chapter 16. Waste inputs
Chapter 4. Life Cycle Assessment	Chapter 17. Waste collection
Chapter 5. A Life Cycle Inventory of solid waste	Chapter 18. MRF and RDF sorting
Chapter 6. Life Cycle Inventory case studies	Chapter 19. Biological treatment
Chapter 7. The overall picture	Chapter 20. Thermal treatment
Section 2. Solid Waste Management Systems	Chapter 21. Landfilling
Chapter 8. Solid waste generation and composition	Chapter 22. Materials recycling
Chapter 9. Waste collection	Chapter 23. Advanced settings
Chapter 10. Central sorting	Chapter 24. Waste flow button
Chapter 11. Biological treatment	Chapter 25. Streams button
Chapter 12. Thermal treatment	Chapter 27. Scenario comparisons
Chapter 13. Landfilling	Chapter 28. What parameters have changed?
A complete list of contents can be found in the file 2nd Edition Contents.pdf of the CD-ROM.	