

Regional Training and Capacity
Building Towards Successful 3R
Implementation in SIDS

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Specific Problems in SIDS



- Increase in waste generation
- Availability of land for landfills (atolls)
- Remoteness of Islands
- Small, sparse populations
- Limited institutional and human capacity
- Rapid urbanisation
- Changing weather patterns and rising sea levels



Waste Management Training Needs



- Mainstreaming integrated and sustainable waste management strategies such as ISWM
- Knowledge about institutional, business and financial models that have been successful in addressing specific waste problems
- Awareness raising and capacity building programs targeting LAs and other stakeholders
- Knowledge about innovative projects, appropriate technologies, accessing expertise, promoting waste exchange and waste-resource related opportunities
- Developing Public Private Partnerships

Case Study



Train-the-Trainer Program for Regional Solid Waste Management Initiative for the Pacific

for

The Secretariat of the Pacific Regional Environment Programme (SPREP)

Partners

- •SPREP
- Agence Française de Développement (AFD)
- Japan International Cooperation Agency (JICA)
- Fiji National University (FNU)
- Griffith University, Brisbane, Australia (GU)

Methodology



Two Modules Waste Management Techniques Landfill/Dumpsite Management

Module 1 Part 1



Non -Technical Considerations: Policy, Strategy, Financial Sustainability etc

- Introduction to solid waste management
- Waste to resources: Towards resource efficient zero waste societies
- Policy and strategic approaches to solid waste management
- Managing waste management projects

Module 1 Part 2



Technical Considerations – Waste Management

Techniques

- Solid waste characterisation
- Collection, transfer and transport
- Recycling
- Composting
- Sanitary landfilling basics
- Cleaner production
- Hazardous waste management
- Emerging hazardous waste streams
- Case Studies

Module 2 Part 1



Non -Technical Considerations: Policy, Strategy, Financial Sustainability etc

- Introduction to solid waste management
- Waste to resources: Towards resource efficient zero waste societies
- Policy and strategic approaches to solid waste management
- Managing waste management projects

Module Part 2



Technical Considerations – Landfill/Dumpsite Site Management

- Introduction to waste disposal sites
- Landfill site selection
- Landfill design and construction
- Landfill operation and maintenance
- Leachate treatment and management
- Landfill gas generation and migration
- Environmental quality monitoring at a landfill sites
- Landfill closure and rehabilitation
- Case studies

Program Delivery



- Formal Lectures (opportunity to learn)
- Daily presentations by participants on topics covered (opportunity to share the experiences) on covered topic areas
- Field Visits
- Project development and presentations

Program Outcomes



■Technical Aspects

■Policy Aspects

■Sustainability of the Program



IPLA – International Partnership for Expanding Waste Management Services of Local Authorities



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IPLA International Partnership of Local Authorities





Integrated Solid Waste Management



The goal of a Life Cycle Inventory (LCI) for solid waste is to be able to, as accurately as possible, predict the environmental burdens of an Integrated Waste Management system. The hierarchy has little scientific or technical basis. There is no scientific reason, for example, why materials recycling should always be preferred to energy recovery. The hierarchy is of little use when a combination of options is used, as in an IWM system. In an IWM system, the hierarchy cannot predict, for example, whether composting combined with incineration of the residues would be preferable to materials recycling plus landfilling of residues.







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Solid Waste Management Studies

Methods of segregation of waste

To understand waste segregation

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