

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

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Expanding Waste Management Services of Pacific Island Countries through International PPPs

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Apia, Samoa



Specific Problems in SIDS

- Increase in waste generation
- Availability of land for landfills (atolls)
- Remoteness of Islands
- 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-Trainers' 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)
- Global Environment Facility – Pacific Alliance for Sustainability (GEFPAS)
- United Nations Environment Programme (UNEP)
- Japan International Cooperation Agency (JICA)
- Fiji National University (FNU)
- Griffith University, Brisbane, Australia (GU)



Methodology

2011- 2016 (Development stages)

Two modules

- 1)Waste Management Techniques**
- 2)Landfill/Dumpsite Management**



Technical and Non-technical

Module 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 land filling basics**
- **Cleaner production**
- **Hazardous waste management**
- **Emerging hazardous waste streams**
- **Case Studies**

Module 2 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
- Field Visits
- Project development and presentations



Program Outcomes

- Technical Aspects
- Policy Aspects
- Sustainability of the Program

