



# Maldives

## Country Breakout Group 4

SEVENTH REGIONAL 3R FORUM IN ASIA AND THE PACIFIC

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ADELAIDE, AUSTRALIA

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*“ADVANCING 3R AND RESOURCE EFFICIENCY FOR THE 2030 AGENDA FOR SUSTAINABLE DEVELOPMENT”*

Presented by;

Ministry of Environment and Energy



# Major Achievements

## New Initiatives in 3R Areas

A national waste management policy

- 10 policy instruments and 16 Objectives
- Major instruments are;
  - Individual responsibility
  - 2 levels of waste management systems
    - Community based system
    - Regionalized system (Zones)
  - Introducing EPR
- One of the major objectives is the introduction and application of 3R concept throughout the country



# Major Achievements (Cont...)

A national waste management initiative – *Saafu Raajje Initiative*

- Awareness Campaigns
- Training and Educational Programmes
- Partnerships created between various organizations and MEE

Male' 3R Declaration – *a declaration targeted to Maldives tourism industry*



# Major Achievements (Cont...)

A regional waste management system created,  
(Zone II)

- Serving
  - 44 inhabited islands (more than 45 thousand population)
  - 22 resort islands
  - 04 industrial islands
- Includes community based systems to manage waste at islands level and a regional system for treatment and final disposal as well as a transport network for the transfer of residual waste

3R introduced through good practices in 4 islands under a pilot project

Creation of a SOE as a service provider for the waste management



Photo: UNDP





# Critical Challenges

## 1. INSUFFICIENT FUNDS

In general projects are formulated for an available budget, therefore, critical components are compromised, which leads to operational challenges.

## 2. GEOGRAPHICAL SITUATION AND ISLANDS SIZES

islands are separated each other either by a lagoon or deep sea channels. Small sizes of islands leading to land scarcity and small population in each island making the absence of economy of scale



Photo: Sakis





# Critical Challenges

## (Cont...)

### 3. LACK OF OR LIMITED TECHNICAL CAPACITY

Extremely few trained with formal education in waste management

Data collection is difficult

Decision on selecting most appropriate technologies is a setback

### 4. LACK OF AWARENESS ON WASTE MANAGEMENT IN GENERAL BOTH AMONG PUBLIC AND WITHIN THE GOVERNMENT

Difficult in creating a sustainable system

Challenges in regulation enforcement





# Future Plans

(mega projects and master plans)



## 1. PROJECTS UNDER IMPLEMENTATION

OFID – Saafu Raajje Regional Waste Management Project for Zone I (US\$ 7.9m)

- Creation of island (community) based waste management systems in 41 islands
- Establishment of a regional waste management facility
- A waste transport network between islands and the regional facility
- Develop a hazardous and Chemical waste treatment system

IRENA/AFD – Small Scale Waste to Energy and Regional Waste Management System for Zones VII and VI (US\$ 12m)

- 2 Cities and 2 Atolls
- Establish a 2 MW EfW and connect to central grid

## 2. PROJECTS IN THE PIPELINE

Maldives Clean Environment Management Project for Zones IV and V (US\$ 32m)

- Due to start in mid 2017 – under negotiation
- 43 inhabited islands in 5 atolls

Integrated Solid Waste Management System for Greater Male' and Zone III (US\$ 126m)

- Greater Male' and 4 Atolls
- The largest waste management system ever to be created in the Maldives
- Establish at least of 8 MW EfW system at Thilafushi
- Remediate and Closure of the existing largest dumpsite
- A recycling facility



# Future Plans

## (Cont...)

### 3. STRENGTHEN LEGISLATIVE FRAMEWORK

- A waste management Act (draft available)
- Formulate regulations (once the Act comes into force - 2017)
- Establish and strengthen a monitoring mechanism

### 4. MASTER PLAN

- Create community based waste management systems in all inhabited islands by 2018
- Training and capacity building at EPA as the regulator and WAMCO as the service provider
- Establish a proper collection service for Greater Male' in early 2017
- Conduct a national awareness campaign for good practices
- Introducing a 3R Award for resorts
- Zoning for regional developments







# Thank you

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