



DEVELOPMENT OF ISLAND'S SUSTAINABLE SOCIETIES

FIJI'S 3R POLICY

Mr. Samuela Namosimalua

Permanent Secretary for Local Government, Housing, Urban Development and Environment, Fiji.





Country Profile



- Located South West PacificOcean
- Population (2007) 837,271
- Land size 18, 270 km²
- 332 islands
- Tropical maritime climate
 - Av. High Temp : 30°C –
 32°C
 - Av. Low Temp : 18°C 20°C
- Religion Christians 52%;Hindu 38%, Muslims 8%,others 2%



Relevance of 3R Project in Fiji

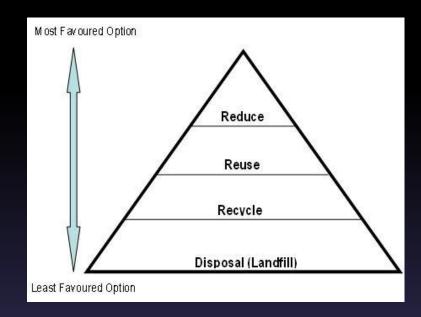
- Fiji with a population of over 837,000 largely depends on the importation of goods and materials from the developed countries.
- > Due to Fiji's geographical isolation and relatively small recycling market, it becomes very difficult to recycle waste in Fiji.
- Urbanization, population growth, increasing prosperity, commercial and industrial development, tourism, and most other forms of development have all contributed to increasing generation of wastes
- Customary rights over the use of land and reluctance by landowners to lease land for use as disposal resulted in difficulties in finding landfill sites.
- SWM issues has potential to cause negative impacts on the fragile environment, tourism, trade, food supplies, public health and severely place constraint on the existing limited resources.

What is 3Rs

• 3Rs are meant to be a hierarchy, in order of importance.

"Waste minimization through reduce, separation at source, reuse and recycling prevents the creation of waste and reduce the quantity and the impacts of the waste generated".

Source : NSWMS 2010 -2014





Characteristics of waste in Western Fiji

- Green waste makes up the largest -37.15%.
- Kitchen waste 33.25%.
- Wastes considered organic matter –
 70.4%.
- Ratio of recyclables PET, metals,
 Bottles and glass, which are economical valuable 4% to 5%.







3R Promotion Activities



① Home composting



Separate collection of recyclables



③ Market waste composting



Green waste chipping



⑤ Clean school program







6 Public awareness

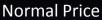
Home composting

A Subsidy Programme to promote home composting

\$25 \$55 Resident's burden \$30

Council's

Resident's burden



Subsidized Price



Guidance given when installed

application











(With Prime Minister)

3 Residents visit councils for



6 Monitoring

Citizens use composter

1 Home composting Compost is ready after 3 - 5 months



Slowly tilt and remove the composter





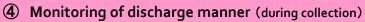
Remove the compost and spread on ground to let dry for a week



2 Separate Collection of Recyclables

















① Awareness raising on waste separation



(3) Market Waste Composting









② Place separate bins

Separate discharge

4 Collection

(Green bin for vegetable waste only, Half blue bin for other waste)



(Turn over regularly



(Cut finely

(Remove undegradable item)

Pre-treatment



⑤Haul to compost yard







Promote fermentation (for 3-5 months)

8 Sieving

Bagging

(5) Clean Schools Program

To target children as excellent agents of change to create awareness on the concept of waste minimization in schools.



1) Organize Teacher's Workshop



2) Establish 3R Committee in each school

3) Develop 3R Action Plan in schools and submit it to Council



Environmental Awareness raising











Rubbish Separation & Recycling

Draft 3R Policy Targets

	2010	2015	2020
MSW Generation	130,359	140,671	149,979
	tonnes/yr	tonnes/yr	tonnes/yr
Collection Rate*1	100%	100%	100%
Disposal	98,824	100,600	103,500
Amount*2	tonnes/yr*1	tonnes/yr	tonnes/yr
Recovery Rate*3	3.0 – 8.0 %	10%	15%
Disposal Rate*3	76%	72%	69%

- *1: The Collection Rate is the ratio of waste amount collected to the waste amount discharged.
- *2: The Disposal Amount for 2010 is obtained from Table 13 of the National Solid Waste Management Strategy 2011 2014.
- *3: The Recovery Rate and Disposal Rate are the ratios of the waste recycled and disposed at the landfill site to the waste generation amount respectively.

Challenges

- Absence of national Policies, framework and legislation specifically on 3Rs.
- Due to lack of any specific legislation targeting 3Rs, the success of composting practice is now on voluntary basis. Citizens are not compelled to support the home compost subsidy programmes initiated by some municipalities.
- Limited Recycling Industry targeting the recycling of plastics, pet bottles, cardboards, glasses etc.
- Low value of recyclable materials especially no value for cartons, glasses, plastics and hard plastics.



Challenges

- Financial arrangements to facilitate in the continuous implementation of 3Rs programme after completion of Project.
- Lack capacity and tools for effective enforcement for boarder control.
- Limited provisions on the existing Environment
 Management Act to allow effective enforcement.
- Limited data on total waste recycled; waste not collected, either dumped or burnt;
- unit cost of waste management, collection and disposal/tonne; waste management budget subsidized by government







Opportunities/Way Forward

- Endorsement and Implementation of the 3R Policy for Fiji.
- Enactment of a 3R Recycling
 Decree.
- Reconsider the proposal on the establishment of a Waste
 Management Authority.
- Establishment of a container deposit refund scheme (CDL)



