



PacWaste Plus Steering Committee Meeting



Country Presentation

Tuvalu

Walter P. Kaua

DEPARTMENT OF WASTE MANAGEMENT



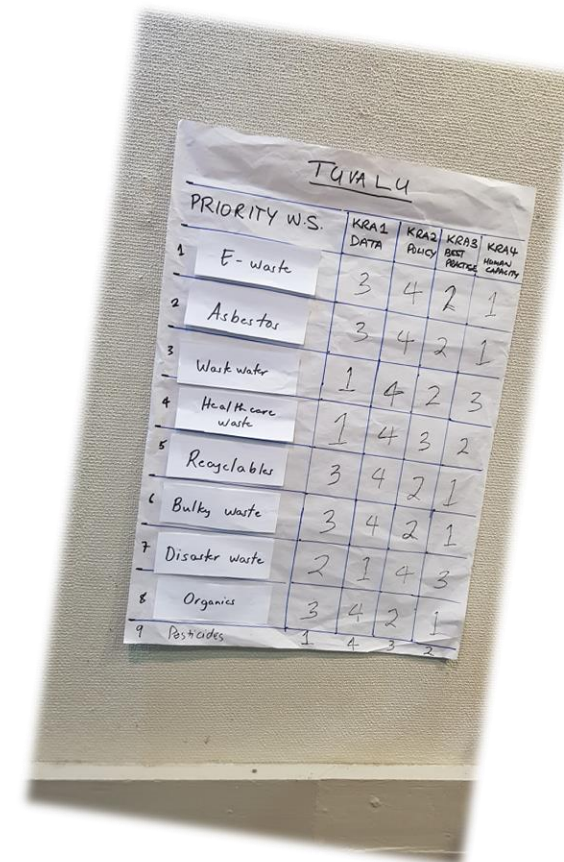
Presentation Outline

- Tuvalu Waste Priorities
- Waste Management in Tuvalu
- Challenges and Limitation
- Clarification from PWP PMU
- Way forward



Tuvalu Waste Priorities

Waste Priority	KRA 1	KRA 2	KRA 3	KRA 4
E – Waste	3	4	2	1
Asbestos	3	4	2	1
Wastewater	1	4	2	3
Health Care Waste	1	4	3	2
Recyclables	3	4	2	1
Bulky Waste	3	4	2	1
Disaster Waste	2	1	4	3
Organic	3	4	2	1
Pesticides	1	4	3	2



Waste Management

E – Waste

Volume : Close to 2 Containers full of collected e-waste

Collection : Weekly collection is provided by the DWM, hence private deliveries is also encouraged

Dismantling : No dismantling process due to lack of capacity and technical advice

Shipment : Still in negotiation with e-waste recycling companies in New Zealand and Australia for potential shipment of Tuvalu e-waste



Waste Management

Waste Oil

Volume : Close to 20,000 litres at the Storage facility

Collection : Open collection, bring in or request for collection

Recycle : Ship to Pacific BlueScope Company in Fiji

Shipment : 4 Shipment in 2017 (20,000 litres)

5 Shipment in 2018 (25,000 litres)

5 Shipment in 2019 (25,000 litres)



Waste Management

Asbestos

Volume : Asbestos volume from contaminated sites and buildings have been identified on Funafuti (not including the outer islands).

Collection : No collection schedule since training for removal, transport and storage has not conducted yet.

Storage : No specific site or storage facility identify for storage.

Shipment : No shipment or any arrangement made to safely dispose asbestos





Waste Management

Asbestos

Household Survey	No of Households
Total of Households in Funafuti (2012 Census)	639
Households Surveyed	350
Households PACM Suspected (Cladding Only)	161
Extrapolating to full Funafuti Population (95% Confidence Level) - No of houses with suspected asbestos cladding:	294 +/- 3.5%
Conclusion from Results	No of Households
Total Cladding Samples taken	38
Cladding Samples Positive	7
Percentage of Cladding Positive	18.4
Based on 18.4%, no of houses inspected that have asbestos cladding	30
Extrapolating to full Funafuti Population (95% Confidence Level) - No of houses with asbestos cladding:	55 +/- 3.5%

Waste Management

Used Lead Acid Batteries (uLABs)

Volume : Approximately half a container of uLAB's

Collection : Weekly collection is provided by the DWM, hence private deliveries is also encouraged

Packing : Stacks in pallet into a container

Shipment : Successful negotiation were made with the Pacific Batteries to ship to Fiji



Waste Management

Health Care Waste

Volume : Average of 1m³ per day

Collection : Provided by the Ministry of Health.

Storage : No proper and safe storage facility available

Incinerate : Currently using the manual process of burning medical waste since the incinerator procured under PacWaste Project broke down in 2016



Waste Management

Recyclables

Volume : Aluminum cans and plastics bottles (1 container)

Collection : Daily collection provided

Storage : Funafuti Transfer and Recycling Station (Recovered)

Recycling : Few potential markets has been identified



Waste Management

Bulky waste

Volume : 150m³ of bulky waste at the landfill

Collection : Daily collection provided

Storage : Funafuti Transfer and Recycling Station (Recovered)

Recycling : Few potential markets has been identified in NZ during our study tour

Equipment: *Metal baler, Plasma cutter & Portable generator donated by World Bank*



Waste Management

Green waste

Volume : 60% of the total daily waste generation volume

Collection : Daily collection

Storage : Funafuti Transfer and Recycling Station (composting section)

Recycling : 100% of green waste generated will turn into compost

Equipment: Truck & Wood chipper

Selling of Compost: Sell to the Taiwan Commercial Garden project and local farmers





Waste Management

Pesticides

Volume : Not available

Collection : No collection

Storage : Tuvalu Agriculture Department and Taiwan Garden warehouse

Legislation : Waste Management Act 2017

Management : Cabinet endorsed Tuvalu to become party to
Rotterdam Convention in October 2019





Challenges and Limitation

Human Resource : Lack of human resource to fully implement, manage and enforce waste management legislations

Limited land space : Very limited land space for waste disposal mainly on Funafuti

Backloading of recyclable wastes : No specific landing-craft for outer islands to return recyclable wastes

Capacity : Lack of capacity on recycling activities, procedures and safety measures

Recycling Market : Very challenging to get a good market to cover shipping cost

Enforcement of Legislation : Not to the point we wanted, public need more awareness and education programmes on waste legislation

Awareness and Education : Limited time to outer islands and costly

Occupational Safety : Need more ground training and proper equipment



Clarification from PWP (PMU)

- More clarification on PacWaste Plus Projects coverage and clear implementation timeline based on Island Priorities as most islands have similar waste priorities.
- More clarification on KRA 1 in relation to collate and review country existing data on waste through conducting survey and study. Does PWP recognize previous studies and surveys at the national as baseline?.
- PWP PMU to provide clarification and update on work with the University of the South Pacific to assess existing accredited and vocational waste courses and commence development of new courses to fill gaps.
- Provide more clarification on National Project Committee. Should the country develop a ToR for the Committee or the PMU will do that?.



Way Forward

- Ensure Tuvalu waste priorities are addressed under PWP set timeline
- Establish and improve a good coordination among public and private sector towards waste priorities
- Establishment of the National Project Committee based on established mandates
- Work closely with sub region Project Officer to implement waste priorities towards the expected outcome through allocated timelines.
- Utilizing PWP technical and financial support to bring new ideas, methods and approaches to achieve waste management goals in a more sustainable way.
- Support mechanisms that coordinate, facilitate and promote local solid waste management efforts.
- Improve information quality and reliability for decision making.
- Scaling up best practices and initiatives to promote circular economy



PacWaste Plus Steering Committee Meeting



Thank You

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