

**11th Regional 3R and Circular Economy Forum in Asia and the Pacific**

*“Integrating Circular Economy in Major Development Sectors towards Achieving Zero Waste Societies and the SDGs”*

8-10 February 2023, Siem Reap, Kingdom of Cambodia

# Country Report

(Draft)

<Tonga>

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This country report was prepared by the Government of Tonga as an input for the 11th Regional 3R and Circular Economy Forum in Asia and the Pacific. The views expressed herein do not necessarily reflect the views of the United Nations.

# Country 3R Progress Report

Name of the Country: TONGA

Name, Designation and Organization Respondent:

Ms Mafile'o Masi

Deputy Director

Department of Environment

Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change and Communications (MEIDECC)

Other Ministries, Organizations, Agencies contributing to Country Report:

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*Progress and achievements towards implementation of the Ha Noi 3R Declaration  
-Sustainable 3R Goals for Asia and the Pacific (2013-2023)-*

With the objective of demonstrating renewed interest and commitment of Asia-Pacific countries towards realizing a resource efficient society, the Fourth Regional 3R Forum in Asia-Pacific in 2013 adopted the good-will and legally non-binding “***Ha Noi 3R Declaration – Sustainable 3R Goals for Asia and the Pacific 2013-23.***” The objective of the Country Reporting is to share among international community various initiatives launched and efforts made (such as new policy instruments, legislations, regulations, institutional arrangements, investments or financing, technological innovation or intervention, partnership mechanisms, such as PPPs, etc.) by the member countries of the Forum in addressing each of the underlined goals of the Ha Noi 3R Declaration. This would not only help the member countries to learn various 3R best practices in place across the region, but it would also help bi-lateral and multi-lateral development agencies, donors, development banks in assessing the sustainable needs and challenges to better devise their existing as well as future capacity building programmes and technical assistance in the areas of 3Rs and sustainable waste management.

We request you to kindly fill in the below table as much as possible with relevant data/information. If additional spaces are required, separate sheets could be attached.

Thank you very much for your kind cooperation.

**Voluntary Progress/Achievements/Initiatives in  
Implementing Ha Noi 3R Declaration (2013~2023)**

TONGA

Secretariat of the Regional 3R Forum in Asia and the Pacific  
United Nations Centre for Regional Development (UNCRD)  
Email: 3R@uncrd.or.jp

I. 3R Goals in Urban/Industrial Areas (3Rs in municipal solid waste)	
<b>Goal 1</b>	Significant <b>reduction</b> in the quantity of <b>municipal solid waste</b> generated, by instituting policies, programmes, and projects at national and local levels, encouraging both producers and consumers to reduce the waste through greening production, greening lifestyle, and sustainable consumption.
<b>Q-1 What specific 3R policies, programmes and projects, are implemented to reduce the quantity of municipal solid waste?</b>	
There are currently no 3R policies to reduce the quantity of municipal solid waste, however, we have programmes such as household composting, clean school initiatives and the promotion of organic farming in place.	
<b>Q-2 What is the level of participation of households in “source” segregation of municipal waste streams?</b> (Please check the appropriate box)	
<input type="checkbox"/> Very High (> 90%) <input type="checkbox"/> High (>70%) <input checked="" type="checkbox"/> Average (50~70%) <input type="checkbox"/> Low or not satisfactory (< 50%) <input type="checkbox"/> Does not exist	
<b>Q-3 Total annual government expenditure per capita (US\$ per capita) in municipal solid waste management in 2013-2014</b>	
USDS\$100,000	
<b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b>	
Limited number of human and financial resources	
<b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b>	
Nukuhetulu community composting, Primary School composting and Vava’u Clean School Programme	
<b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b>	
National Waste Management Strategy	
<b>Is this Goal relevant for your country?</b> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

I. 3R Goals in Urban/Industrial Areas (3Rs in municipal solid waste)	
<b>Goal 2</b>	Full-scale utilization of the organic component of municipal waste, including food waste, as a valuable resource, thereby achieving multiple benefits such as the reduction of waste flows to final disposal sites, reduction of GHG emission, improvement in resource efficiency, energy recovery, and employment creation.
<b><i>Q-1 Does the central government have policies or support to utilize or reduce the organic waste such as composting, energy recovery and improving efficiency in food processing?</i></b>	
Yes, such as community and school composting programmes and production of biogas through piggery.	
<b><i>Q-2 What is happening to country's organic waste?</i></b> (Please check the appropriate box)	
<input checked="" type="checkbox"/> mostly landfilled <input type="checkbox"/> mostly incinerated <input type="checkbox"/> both landfilled and incinerated <input type="checkbox"/> mostly open dumped or open burned	
<b><i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i></b>	
Limited number of human and financial resources; lack of awareness programmes and education	
<b><i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i></b>	
Biogas projects and Tonga Energy Road Map (TERM)	
<b><i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i></b>	
Energy Policy and Climate Change Policy	
<b><i>Is this Goal relevant for your country?</i></b> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

**I. 3R Goals in Urban/Industrial Areas (3Rs in municipal solid waste)**

**Goal 3** Achieve significant **increase in recycling rate** of recyclables (e.g., plastic, paper, metal, etc.), by introducing policies and measures, and by setting up financial mechanisms and institutional frameworks involving relevant stakeholders (e.g., producers, consumers, recycling industry, users of recycled materials, etc.) and development of modern recycling industry.

**Q-1 What is the recycling rate of various recyclables?** (Please check the appropriate cell & add more waste streams as relevant for the country)

Rate \ Type	Very High (>90%)	High (>70%)	Average (50~60%)	Poor (<50%)	Recycling does not exist	Definition of recycling rate*
Paper					√	
Plastic					√	
Metal		√1				
Construction waste			√1			
e-waste				√1		
others						

*\*Note: Please specify in the cell which of the following definitions (ie., 1 or 2 or 3) is followed for recycling rate*  
 Definition 1: (collected recyclable waste)/(estimated generation of waste)  
 Definition 2: (volume of utilized recyclable waste)/(volume of raw material)  
 Definition 3: (volume of utilized recyclable waste)/(volume of collected waste for recycling)

**Q-2 What specific policies are introduced at local and national level for prevention or reduction of waste streams – paper, plastic, metal, construction waste, e-waste?**

Waste Management Act 2005, Hazardous Wastes and Chemicals Act 2010 and Public Health Act 1992

**Q-3 What is the rate of resource recovery from various waste streams?**

Rate \ Type	Very High (>90%)	High (>70%)	Average (50~60%)	Poor (<50%)	Recycling does not exist
Paper					√
Plastic					√
Metal		√			
Construction waste			√		
e-waste				√	

(Please check the appropriate cell & add more waste streams as relevant for the country)

**Q-4 What is the level of existence of resource recovery facilities/ infrastructures in cities?**

Level \ Type	Every Major City	Few Major Cities only	Does not exist	Supportive policy or programmes exists	No supportive policy or programmes
Paper			√		
Plastic			√		
Metal			√		
Construction waste			√		
e-waste			√		

**Voluntary Progress/Achievements/Initiatives in  
Implementing Ha Noi 3R Declaration (2013~2023)**

TONGA

<b>I. 3R Goals in Urban/Industrial Areas (3Rs in municipal solid waste)</b>	
<b>Goal 3</b>	Achieve significant <b>increase in recycling rate</b> of recyclables (e.g., plastic, paper, metal, etc.), by introducing policies and measures, and by setting up financial mechanisms and institutional frameworks involving relevant stakeholders (e.g., producers, consumers, recycling industry, users of recycled materials, etc.) and development of modern recycling industry.
<b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b> Limited number of human and financial resources and lack in-country trainings	
<b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b> E-Waste Tonga, PACWaste (E-Waste component)	
<b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b> JPRISM 3 focusing promoting circular economy	
<b>Is this Goal relevant for your country?</b> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

<b>I. 3R Goals in Urban/Industrial Areas (3Rs in municipal solid waste)</b>	
<b>Goal 4</b>	<b>Build sustainable cities /green cities</b> by encouraging “zero waste” through sound policies, strategies, institutional mechanisms, and multi - stakeholder partnerships (giving specific importance to private sector involvement) with a primary goal of <b>waste minimization</b>
<i><b>Q-1 What specific waste management policies and programmes are introduced to encourage private sector participation in municipal waste management?</b></i> Waste Management Act 2005	
<i><b>Q-2 What are the major waste management areas that have strong involvement of private and business sector?</b></i> (Please check appropriate boxes and add other areas if not listed below) <input checked="" type="checkbox"/> waste collection <input checked="" type="checkbox"/> resource recovery <input checked="" type="checkbox"/> waste recycling <input checked="" type="checkbox"/> waste to energy, composting, etc. <input type="checkbox"/> PPP projects in waste sector	
<i><b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b></i> Limited human and financial resources; and Weak coordination amongst ngos and private sectors	
<i><b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b></i> Waste Authority Ltd, Commercial composting, Organic Farming, GIO Recycling	
<i><b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b></i> JPRISM 3 promoting circular economy	
<i><b>Is this Goal relevant for your country?</b></i> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

I. 3R Goals in Urban/Industrial Areas (3Rs in Industrial waste)	
<b>Goal 5</b>	Encourage the <b>private sector</b> , including small - and medium - sized enterprises (SMEs) to implement measures to increase <b>resource efficiency and productivity</b> , creation of decent work and to improve environmentally-friendly practices through applying environmental standards, clean technologies, and cleaner production.
<i><b>Q-1 What are the major clean technology related policies aiming to increase energy and resource efficiency of SMEs?</b></i>	
Tonga Energy Road Map	
<i><b>Q-2 What are the capacity building programmes currently in place to build the technical capacity of SMEs in 3R areas?</b></i>	
Provision of regional trainings through regional centers such as SPREP, SPC and academic institution such as USP	
<i><b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b></i>	
Limited human and financial resources	
<i><b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b></i>	
Tonga Energy Road Map, Promotion of Energy Efficiency in the Pacific (PEEP) and Energy Policy	
<i><b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b></i>	
Tonga Energy Road Map and Energy Policy	
<i><b>Is this Goal relevant for your country?</b></i> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

<b>I. 3R Goals in Urban/Industrial Areas (3Rs in Industrial waste)</b>	
<b>Goal 6</b>	<b>Promote the greening of the value chain</b> by encouraging industries and associated suppliers and vendors in socially responsible and inclusive ways.
<i><b>Q-1 What percent of companies and industries have introduced green accounting and voluntary environmental performance evaluation (Ref: ISO 14000)?</b></i>	
<input type="checkbox"/> Very High (> 90%) <input type="checkbox"/> High (>70%) <input type="checkbox"/> Average (50~70%) <input type="checkbox"/> Low or not satisfactory (< 50%) <input checked="" type="checkbox"/> None	
<i><b>Q-2 What percent of companies and industries have introduced social accounting (Ref: SA 8000) in consultation with their workers?</b></i>	
<input type="checkbox"/> Very High (> 90%) <input type="checkbox"/> High (>70%) <input type="checkbox"/> Average (50~70%) <input type="checkbox"/> Low or not satisfactory (< 50%) <input checked="" type="checkbox"/> None	
<i><b>Q 3 Does government have a programme for promoting greening of the value chain? What specific policies, programmes and incentives are introduced to promote greening of value chain?</b></i>	
N/A	
<i><b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b></i>	
N/A	
<i><b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b></i>	
N/A	
<i><b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b></i>	
N/A	
<i><b>Is this Goal relevant for your country?</b></i> <input type="checkbox"/> Highly <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Not at all	

I. 3R Goals in Urban/Industrial Areas (3Rs in Industrial waste)	
<b>Goal 7</b>	Promote <b>industrial symbiosis</b> (i.e., recycling of waste from one industry as a resource for another), by providing relevant incentives and support.
<i>Q-1 Does your government have policies and programmes promoting industrial symbiosis in industrial parks or zones? What specific policies, programmes and incentives are introduced to promote industrial symbiosis?</i>	
N/A	
<i>Q-2 How many eco-industrial parks or zones or the like, which is supported by the government, are there in the country?</i>	
N/A	
<i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i>	
N/A	
<i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i>	
N/A	
<i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i>	
N/A	
<i>Is this Goal relevant for your country?</i> <input type="checkbox"/> Highly <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Not at all	

<b>I. 3R Goals in Urban/Industrial Areas (3Rs in Industrial waste)</b>	
<b>Goal 8</b>	Build <b>local capacity</b> of both current and future practitioners, to enable the private sector (including SMEs) to obtain the necessary knowledge and technical skills to foster green industry and create decent, productive work.
<i>Q-1 How many dedicated training facilities or centers are there to cater the needs of SMEs and practitioners in the areas of cleaner production, resource efficiency and environment-friendly technologies, etc.?</i> <i>One, University of the South Pacific</i>	
<i>Q-2 Please provide an indicative figure on annual government (US \$) expenditure on building technical capacity of SMEs and practitioners in the areas of cleaner production, resource efficiency and environment-friendly technologies, etc.?</i> US\$ 100,000 by means of scholarships	
<i>Challenges (policy/ institutional/ technological/ financial) faced in implementation</i> Local practitioners leaving for regional and international organizations	
<i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i> Global Monitoring for POPs with USP, Solid Waste Management Train the Trainers Course with Fiji National University and Griffith University	
<i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i> As mentioned above	
<i>Is this Goal relevant for your country?</i> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

I. 3R Goals in Urban/Industrial Areas (3Rs in Industrial waste)	
<b>Goal 9</b>	Develop proper <b>classification and inventory of hazardous waste</b> as a prerequisite towards sound management of such waste.
<p><b>Q-1</b> <i>Is there a systematic classification of hazardous waste? If so, please attach.</i></p> <p>√Yes      <input type="checkbox"/> No</p>	
<p><b>Q-2</b> <i>What specific rules and regulations are introduced to separate, store, treat, transportation and disposal of hazardous waste?</i></p> <p>As stipulated in the Hazardous wastes and Chemicals Act 2010</p>	
<p><b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b></p> <p>Limited facilities to store and dispose hazardous waste in the region Lack of capacity Lack of resources Limited infrastructure</p>	
<p><b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b></p> <p>Cyclone Ian Asbestos Audit 2014, Ha’apai, Tonga Tonga Waste Oil Audit 2014</p>	
<p><b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b></p> <p>Regional Asbestos Management Plan/Strategy Hazardous Waste Regional Strategy PACWastePlus (asbestos management) Transboundary movements of hazardous wastes (Basel and Waigani Conventions)</p>	
<p><b>Is this Goal relevant for your country?</b>    <input checked="" type="checkbox"/> Highly      <input type="checkbox"/> Partially      <input type="checkbox"/> Not at all</p>	

II. 3R Goals in Rural Areas	
<b>Goal 10</b>	<b>Reduce losses in the overall food supply chain</b> (production, post harvesting and storage, processing and packaging, distribution), leading to reduction of waste while increasing the quantity and improving the quality of products reaching consumers.
<i><b>Q-1 What specific policies, rules and regulations, including awareness programmes, are introduced to minimize food or crop waste?</b></i>	
Community composting and promotion of organic farming practices	
<i><b>Q-2 Is there any continuing education services or awareness programmes for the farmers or agricultural marketing associations on reduction of crop wastes for increased food security?</b></i>	
Yes, as mentioned above and it's an on-going process	
<i><b>Q-3 What is the average wastage of crops or agricultural produce between farms to consumers, if there is a study in your country?</b></i>	
<input type="checkbox"/> Very High (> 20~ 30%) <input type="checkbox"/> High (10~20%) <input type="checkbox"/> Medium (5~10%) <input checked="" type="checkbox"/> Low (< 5%) <input type="checkbox"/> Negligible (<1%)	
<i><b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b></i>	
Limited financial support	
<i><b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b></i>	
NISHI Organic Farming	
<i><b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b></i>	
As mentioned above	
<i><b>Is this Goal relevant for your country?</b></i> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

II. 3R Goals in Rural Areas	
<b>Goal 11</b>	Promote full scale <b>use of agricultural biomass waste and livestock waste</b> through reuse and/or recycle measures as appropriate, to achieve a number of co - benefits including GHG emission reduction, energy security, sustainable livelihoods in rural areas and poverty reduction, among others.
<b><i>Q-1 How much amount of – (a) agricultural biomass waste and (b) livestock waste are grossly generated per annum?</i></b>	
Not known due to lack of data	
<b><i>Q-2 How are most of the agricultural biomass wastes utilized or treated? (Please check all appropriate boxes)</i></b>	
<input checked="" type="checkbox"/> as secondary raw material input (for paper, bioplastic, furniture, etc.) <input checked="" type="checkbox"/> biogas/electricity generation <input checked="" type="checkbox"/> composts/fertilizers <input checked="" type="checkbox"/> mostly left unutilized or open dumped <input checked="" type="checkbox"/> mostly open burned	
<b><i>Q-3 What specific policies, guidelines, and technologies are introduced for efficient utilization of agricultural biomass waste and livestock waste as a secondary material inputs towards full scale economic benefits? Relevant websites could be shared for additional information.</i></b>	
Forest policy Climate Change policy Biogas	
<b><i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i></b>	
Lack of data and research	
<b><i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i></b>	
Biogas project (piggery)	
<b><i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i></b>	
As mentioned above and Biomass project	
<b><i>Is this Goal relevant for your country?</i></b> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

III. 3R Goals for New and Emerging Wastes	
<b>Goal 12</b>	Strengthen regional, national, and local efforts to address the issue of <b>waste, in particular plastics</b> in the marine and coastal environment.
<i>Q-1 What specific policies and regulations are in place to address the issue of plastic wastes in coastal and marine environment?</i>	
Waste Management Act 2005	
<i>Q-2 What extent issue of plastic waste is considered in integrated coastal zone management (ICZM)? (Please check the appropriate box)</i>	
<input type="checkbox"/> Very much <input checked="" type="checkbox"/> Somehow <input type="checkbox"/> Not at all	
<i>Q-3 Please provide a list of centre of excellences or dedicated scientific and research programmes established to address the impacts of micro-plastic particulates (&lt;5 mm) on coastal and marine species? If yes, please provide relevant websites.</i>	
None at this stage	
<i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i>	
Lack of institutional capacity and financial support	
<i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i>	
SWAP marine litter POLP SUPs	
<i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i>	
SUPs Roadmap	
<i>Is this Goal relevant for your country?</i> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

III. 3R Goals for New and Emerging Wastes

**Goal 13** Ensure **environmentally-sound management of e-waste** at all stages, including collection, storage, transportation, recovery, recycling, treatment, and disposal with appropriate consideration for working conditions, including **health and safety aspects** of those involved.

**Q-1 How do people usually recycle their e-waste (waste electrical and electronic equipment)?**  
(Please check the appropriate box in order of priority by filling in numbers like 1, 2, 3, 4,...etc., for example 1 => Highest priority)

Check if applicable	Number in priority order	
√	2	Take to recycling center / resource recovery facilities
√	1	Take to landfill
		Take to the retailer
		Take to local charity for re-use
		Take to second-hand shop for re-use
		Ship back to the manufacturer
		Ship back to the manufacturer
		Recycle in another country
		Do not know how people dispose

**Q-2 What specific policies and regulations are in place to ensure health and safety aspects of those involved in e-waste management (handling/sorting/resource recovery/recycling)?**

Hazardous Wastes and Chemicals Act 2010

**Q-3 How much amount of e-waste is generated and recycled per year?**

Type of e-waste	Estimated total volume generated (ton/year)	% of collected by permitted recycler	% of volume recycled in collected
Television			
Computer			
Mobile phone			
Refrigerators			
Washing machines			
Air conditioners			
Others...			

**Challenges (policy/ institutional/ technological/ financial) faced in implementation:**

Lack of institutional capacity and financial support; Lack of data

**Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant**

GEF ISLANDS (3R promotion) and Tonga E-Waste Project

**Important policies/programmes/projects/master plans the government plans to undertake within next five years**

As mentioned above

**Is this Goal relevant for your country?**     Highly     Partially     Not at all

III. 3R Goals for New and Emerging Wastes

<b>Goal 14</b>	Effective enforcement of established mechanisms for preventing illegal and inappropriate export and import of waste, including transit trade, especially of hazardous waste and e-waste.
<b><i>Q-1 What specific policies and regulations are introduced to prevent illegal import and export of e-waste?</i></b>	
Hazardous Wastes and Chemicals Act 2010	
<b><i>Q-2 Do you have required number of well-trained custom or other officials (for airport, sea-port, land border control, etc.) to track illegal export and import of e-waste?</i></b>	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b><i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i></b>	
Lack of institutional capacity and financial support	
<b><i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i></b>	
GEF ISLANDS (3R promotion), Tonga E-Waste Project	
<b><i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i></b>	
As mentioned above	
<b><i>Is this Goal relevant for your country?</i></b> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

III. 3R Goals for New and Emerging Wastes	
<b>Goal 15</b>	Progressive implementation of “ <b>extended producer responsibility (EPR)</b> ” by encouraging producers, importers, and retailers and other relevant stakeholders to fulfill their responsibilities for collecting, recycling, and disposal of new and emerging waste streams, in particular e-waste.
<b><i>Q-1 What specific Extended Product Responsibility (EPR) policies are enacted or introduced? (If there is none, then skip Q-2 below)</i></b>	
N/A	
<b><i>Q-2 Please provide a list of products and product groups targeted by EPR nationally?</i></b>	
N/A	
<b><i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i></b>	
N/A	
<b><i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i></b>	
N/A	
<b><i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i></b>	
N/A	
<b><i>Is this Goal relevant for your country?</i></b> <input type="checkbox"/> Highly <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Not at all	

III. 3R Goals for New and Emerging Wastes	
<b>Goal 16</b>	<b>Promote the 3R concept in health-care waste management.</b>
<i>Q-1 What specific policies and regulations are in place for healthcare waste management?</i> Public Health Act 1992	
<i>Q-2 What is the total annual government expenditure towards healthcare waste management (US\$ per year)?</i>  US\$20,000	
<i>Q-3 List the agencies or authorities responsible for healthcare waste management.</i> Health, MEIDECC and Waste Authority	
<i>Q-4 What is the common practice for disposal of healthcare wastes?</i> (Please check the appropriate box and add if any other practice followed) <input type="checkbox"/> open dumping (untreated) <input type="checkbox"/> open burning (untreated) <input checked="" type="checkbox"/> ordinary landfilling (untreated) <input checked="" type="checkbox"/> sanitary landfilling (treated) <input type="checkbox"/> Low cost small scale incineration (do not meet air emission standards) <input type="checkbox"/> Highly controlled air incineration (dedicated/modern medical waste incinerators) <input type="checkbox"/> Other methods (please specify names: )	
<i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i> Lack of human and financial resources and Lack of equipment	
<i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i>  PACWastePlus Project (healthcare component)	
<i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i>  As mentioned above	
<i>Is this Goal relevant for your country?</i> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

IV. 3R Goals for Cross-cutting Issues	
<b>Goal 17</b>	<b>Improve resource efficiency and resource productivity</b> by greening jobs nation - wide in all economic and development sectors.
<i>Q-1 What specific policies and guidelines are introduced for product standard (towards quality/durability, environment/eco-friendliness, labour standard)?</i>	
N/A	
<i>Q-2 What specific energy efficiency schemes are introduced for production, manufacturing and service sector?</i>	
N/A	
<i>Q-3 What specific policies are introduced to create green jobs in product and waste sector?</i>	
None	
<i>Challenges (policy/ institutional/ technological/ financial) faced in implementation</i>	
N/A	
<i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i>	
N/A	
<i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i>	
N/A	
<i>Is this Goal relevant for your country?</i> <input type="checkbox"/> Highly <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Not at all	

<b>IV. 3R Goals for Cross-cutting Issues</b>	
<b>Goal 18</b>	Maximize co-benefits from waste management technologies for local air, water, oceans, and soil pollution and global climate change.
<i><b>Q-1 Please share how climate mitigation is addressed in waste management policies and programmes for co-benefits?</b></i>	
Through proper waste management and awareness programmes	
<i><b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b></i>	
Limited capacity and limited data	
<i><b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b></i>	
Joint National Action Plan (JNAP)	
<i><b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b></i>	
As mentioned above	
<i><b>Is this Goal relevant for your country?</b></i> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

IV. 3R Goals for Cross-cutting Issues	
<b>Goal 19</b>	Enhance <b>national and local knowledge base and research network on the 3Rs and resource efficiency</b> , through facilitating effective and dynamic linkages among all stakeholders, including governments, municipalities, the private sector, and scientific communities.
<i>Q-1 What specific policies are introduced to encourage triangular cooperation between government, scientific &amp; research institutions and private/business sector in 3R areas?</i> None in place	
<i>Q-2 Please share the number and list of dedicated scientific institution, or coordinating centers in the areas of 3Rs (e.g., waste minimization technologies, eco-products, cleaner production, recycling technologies, industrial symbiosis, resource efficiency, etc.)?</i> FNU and Griffith University	
<i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i> Lack of coordination	
<i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i> Solid Waste Management and Landfill train the trainers course	
<i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i> As mentioned above	
<i>Is this Goal relevant for your country?</i> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

IV. 3R Goals for Cross-cutting Issues	
<b>Goal 20</b>	Strengthen multi-stakeholder partnerships among governments, civil society, and the private sector in raising public awareness and advancing the 3Rs, sustainable consumption and production, and resource efficiency, leading to the behavioural change of the citizens and change in production patterns.
<p><b>Q-1 Does central government have official dialogue with multi-stakeholders in the process to formulate 3R-related policies and regulations? Which stakeholders are involved in the dialogue?</b>(Please <u>check all</u> applicable)</p> <p> <input checked="" type="checkbox"/>NGOs                     <input checked="" type="checkbox"/>Industrial Association  <input checked="" type="checkbox"/>Local Government                     <input checked="" type="checkbox"/>Academic Institution  <input checked="" type="checkbox"/>Others, please add/specify ( Youth, private sectors )                 </p>	
<p><b>Q-2 What is the level of NGOs' involvement in 3R, sustainable production and consumption, resource efficiency related promotional activities?</b> (Please check the appropriate box)</p> <p> <input type="checkbox"/> Very high                     <input checked="" type="checkbox"/> Moderate                     <input type="checkbox"/> Low                     <input type="checkbox"/> Almost Negligible                 </p>	
<p><b>Q-3 What is the level of citizens' awareness on beneficial aspects of 3R, sustainable production and consumption and resource efficiency.</b> (Please check the appropriate box)</p> <p> <input type="checkbox"/> Very high                     <input checked="" type="checkbox"/> Moderate                     <input type="checkbox"/> Low                     <input type="checkbox"/> Almost Negligible                 </p>	
<p><b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b> Lack of resources</p>	
<p><b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b> Clean school initiatives and composting</p>	
<p><b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b> As mentioned above</p>	
<p><b>Is this Goal relevant for your country?</b> <input checked="" type="checkbox"/>Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all</p>	

IV. 3R Goals for Cross-cutting Issues	
<b>Goal 21</b>	<b>Integrate the 3Rs</b> in formal education at primary, secondary, and tertiary levels as well as non-formal education such as community learning and development, in accordance with Education for Sustainable Development.
<i>Q-1 Provide a list of formal programmes that addresses areas of 3R and resource efficiency as part of the academic curriculum?</i>	
BA and MA in Environmental Engineering and Pollution Control	
<i>Q-2 Please provide an overview of the Government policies and programmes to promote community learning and development (non-formal education) on 3R and sustainable waste management.</i>	
Composting programmes	
<i>Q-3 Please provide a list of academic and research institutions offering PhD programmes in the areas of 3Rs and resource efficiency?</i>	
USP	
<i>Q-4 Please provide a list of management institutions (offering BBA / MBA courses) which have integrated resource efficiency and life cycle assessment (LCA) as part of their curriculum or course development?</i>	
USP	
<i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i>	
Limited resources	
<i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i>	
None	
<i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i>	
None	
<i>Is this Goal relevant for your country?</i> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

IV. 3R Goals for Cross-cutting Issues	
<b>Goal 22</b>	<b>Integrate the 3R concept</b> in relevant policies and programmes, of key ministries and agencies such as Ministry of Environment, Ministry of Agriculture, Forestry and Fisheries, Ministry of Industry, Ministry of Trade and Commerce, Ministry of Energy, Ministry of Water Resources, Ministry of Transport, Ministry of Health, Ministry of Construction, Ministry of Finance, Ministry of Labour, Ministry of Land and Urban Development, Ministry of Education, and other relevant ministries towards transitioning to a resource-efficient and zero waste society.
<i><b>Q-1 Please list the name of the Ministries and major Government Agencies which are promoting 3R and resource efficiency as part of their policy, planning and developmental activities at local and national level.</b></i>	
Environment, Health, Tourism, Agriculture and Waste Authority Ltd	
<i><b>Q-2 What type of coordination mechanism are there among ministries and agencies for a resource efficient economic development?</b></i>	
<input checked="" type="checkbox"/> Official regular coordination meeting among ministries and agencies <input checked="" type="checkbox"/> Official ad-hoc coordination meeting among ministries and agencies <input checked="" type="checkbox"/> Informal meeting among ministries and agencies <input type="checkbox"/> Other coordination mechanisms (please add/specify)	
<i><b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b></i>	
Lack of coordination	
<i><b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b></i>	
Landscaping and Beautification, composting	
<i><b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b></i>	
As mentioned above	
<i><b>Is this Goal relevant for your country?</b></i> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

IV. 3R Goals for Cross-cutting Issues	
<b>Goal 23</b>	Promote <b>green and socially responsible procurement</b> at all levels, thereby creating and expanding 3R industries and markets for environmentally-friendly goods and products.
<i>Q-1 What specific policies are introduced to promote green and social responsible procurement?</i>	
NONE	
<i>Q-2 Please provide details of eco-labelling schemes of your country.</i>	
nONE	
<i>Q-3 Please provide a list of criteria for eco-labeled products and services in your country.</i>	
None	
<i>Q-4 Please provide the list of Ministries and major Government Agencies which have adopted green procurement policy.</i>	
None	
<i>Q-5 What % of municipalities have adopted the green procurement policy?</i>	
None	
<i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i>	
n/a	
<i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i>	
n/a	
<i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i>	
N/a	
<i>Is this Goal relevant for your country?</i> <input type="checkbox"/> Highly <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Not at all	

IV. 3R Goals for Cross-cutting Issues	
<b>Goal 24</b>	<b>Phase out harmful subsidies that favour unsustainable use of resources (raw materials and water) and energy, and channel the freed funds in support of implementing the 3Rs and efforts to improve resource/energy efficiency.</b>
<i>Q-1 Are there any government subsidy programmes that directly or indirectly favour unsustainable use of resources (raw materials, water, energy)? If so, please provide a list of such programmes along with the responsible Ministry or Agency administering and implementing it.</i>	
n/a	
<i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i>	
n/a	
<i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i>	
n/a	
<i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i>	
n/a	
<i>Is this Goal relevant for your country?</i> <input type="checkbox"/> Highly <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Not at all	

IV. 3R Goals for Cross-cutting Issues	
<b>Goal 25</b>	<b>Protect public health and ecosystems, including freshwater and marine resources by eliminating illegal activities of open dumping, including dumping in the oceans, and controlling open burning in both urban and rural areas.</b>
<i>Q-1 Is waste management a public health priority in your country?</i>	
Yes	
<i>Q-2 What are the rules and regulations to prevent open dumping and open burning of waste?</i>	
Waste Mangement Act 2005 and Public Health Act 1992	
<i>Q-3 Rank the five most important rivers in terms of water quality (BOD values) passing through major cities and urban areas?</i>	
n/a	
<i>Q-4 What are the specific laws, rules and regulations in place to prevent littering in river and water bodies?</i>	
As mentioned above	
<i>Q-5 What are the specific laws, rules and regulations in place to prevent marine littering?</i>	
As mentioned above	
<b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b>	
Lack of resources	
<b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b>	
As mentioned above	
<b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b>	
As mentioned above	
<b>Is this Goal relevant for your country?</b> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

IV. 3R Goals for Cross-cutting Issues	
<b>Goal 26</b>	Facilitate the international circulation of re-usable and recyclable resources as well as remanufactured products as mutually agreed by countries and in accordance with international and national laws, especially the Basel Convention, which contributes to the reduction of negative environmental impacts and the effective management of resources.
<b>Q-1 What are major recycling industries in your country?</b>	
Scrap metals	
<b>Q-2 Please specify the regulation on transboundary movement of hazardous waste.</b>	
Hazardous Wastes and Chemicals Act 2010 in accordance with the Basel and the Waigani Conventions	
<b>Q-3 If your government has restriction on import of non-hazardous waste or quality control of non-hazardous waste, please list it up.</b>	
No	
<b>Q-4 Does your government restrict import of remanufactured goods?</b>	
No	
<b>Q-5 Does your government regard remanufactured goods as secondhand goods, and regulate it as secondhand goods?</b>	
No restriction in place	
<b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b>	
No policy in place, Limited capacity	
<b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b>	
None	
<b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b>	
Transboundary movements of hazardous wastes	
<b>Is this Goal relevant for your country?</b> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

**IV. 3R Goals for Cross-cutting Issues**

**Goal 27** Promote data collection, compilation and sharing, public announcement and application of statistics on wastes and the 3Rs, to understand the state of waste management and resource efficiency.

**Q-1 Please give an overview on availability of various data and information on material flow and waste management by checking (X or ✓) the appropriate boxes. (Please respond on both "Data Availability" and Monitoring Base")**

Data Type	Data Availability			Monitoring Base	
	Good	Very limited	No data exist	Good	Not good
Waste generation	✓			✓	
Material flow		✓			✓
Cyclical use		✓			✓
Amount of final disposal	✓			✓	
Disposal to land			✓		✓
Direct disposal to water			✓		✓
Import of waste			✓		✓
Export of waste		✓		✓	
Total landfilled waste	✓			✓	
Import of recyclables		✓			✓
Export of recyclables	✓			✓	
Hazardous waste generation (solid, liquid, sludge, etc.)		✓			✓
e-waste generation		✓			✓

*(Please add any other data type relevant to your country)*

**Q-2 What are the current and planned government policies and programmes to strengthen data and information availability in waste sector?**

Monitoring programmes and capacity training

**Challenges (policy/ institutional/ technological/ financial) faced in implementation:**

Lack of data and confidentiality of information

**Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant**

As mentioned above

**Important policies/programmes/projects/master plans the government plans to undertake within next five years**

As mentioned above

**Is this Goal relevant for your country?**    ✓/Highly             Partially             Not at all

<b>IV. 3R Goals for Cross-cutting Issues</b>	
<b>Goal 28</b>	Promote heat recovery (waste-to-energy), in case wastes are not re-usable or recyclable and proper and sustainable management is secured.
<i><b>Q-1 What are the government policies and programmes, including incentives, for waste-to-energy programmes?</b></i>	
<i>EIA ACT 2003 and EIA Regulation 2010, Hazardous Waste and Chemicals Act 2010</i>	
<i><b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b></i> Lack of capacity and resources	
<i><b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b></i> Waste to Energy project at Lapaha, Biogas (Piggery)	
<i><b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b></i> As mentioned above	
<i><b>Is this Goal relevant for your country?</b></i> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

IV. 3R Goals for Cross-cutting Issues	
<b>Goal 29</b>	Promote overall regional cooperation and multi-stakeholder partnerships based on different levels of linkages such as government-to-government, municipality-to-municipality, industry-to-industry, (research) institute-to-institute, and NGO-to-NGO. Encourage technology transfer and technical and financial supports for 3Rs from developed countries to less developed countries.
<i><b>Q-1 Please provide a list of on-going bilateral/multi-lateral technical cooperation in 3R areas?</b></i>	
GEF/UNEP, GEF/UNDP, EU, AFD, ADB, World Bank, FAO, IMO, SPREP etc	
<i><b>Q-2 What actions are being taken to promote inter-municipal or regional cooperation in areas of waste exchanges, resource recovery, recycling, waste-to-energy and trade of recyclables?</b></i>	
Development of Regional Strategies	
<i><b>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</b></i>	
Limited national capacities to implement regional strategies	
<i><b>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</b></i>	
GEF ISLANDS PacWastePlus SWAP POLP JPRISM	
<i><b>Important policies/programmes/projects/master plans the government plans to undertake within next five years</b></i>	
Cleaner Pacific 20/25	
<i><b>Is this Goal relevant for your country?</b></i> <input type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

IV. 3R Goals for Cross-cutting Issues	
<b>Goal 30</b>	Pay special attention to issues and challenges faced by developing countries including SIDS in achieving sustainable development.
<i>Q-1 Please describe any past and on-going cooperation with SIDS (Small Island Developing States) countries in 3R areas.</i>	
N/A	
<i>Q-2 Please list 3R related projects linked to climate change, biodiversity, disaster management and sustainable tourism. (This is <u>to be reported by SIDS countries only</u>)</i>	
N/A	
<i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i>	
N/A	
<i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i>	
N/A	
<i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i>	
N/A	
<i>Is this Goal relevant for your country?</i> <input type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

<b>IV. 3R Goals for Cross-cutting Issues</b>	
<b>Goal 31</b>	Promote 3R + “Return” concept which stands for Reduce, Reuse, Recycle and “Return” where recycling is difficult due to the absence of available recycling industries and limited scale of markets in SIDS, especially in the Pacific Region.
<b><i>Q-1 What specific policies, programme, including pilot projects, are implemented to promote 3R+ “Return” concept? (This is to be reported by SIDS countries only)</i></b>	
GEF ISLANDS JPRISM 3	
<b><i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i></b> Limited capacity and resources	
<b><i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i></b> GEF ISLANDS 3R promotion in the outer islands	
<b><i>Important policies/programmes/projects/master plans the government plans to undertake within next five years</i></b> Promote circular economy	
<b><i>Is this Goal relevant for your country?</i></b> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	

IV. 3R Goals for Cross-cutting Issues	
<b>Goal 32</b>	Complete elimination of illegal engagement of children in the <b>informal waste sector</b> and gradually <b>improve</b> the working conditions and livelihood security, including <b>mandatory provision of health insurance</b> , for all workers.
<i>Q-1 What is the approximate market size (in US\$) of the informal waste sector?</i>	
N/A	
<i>Q-2 Number of annual labor inspections in waste sector?</i>	
N/A	
<i>Q-3 Is health insurance a mandatory to all informal workers in waste sector by law?</i>	
N/A	
<i>Q-4 What specific policies and enforcement mechanisms are in place to prevent illegal engagement of children in waste sector?</i>	
N/A	
<i>Q-5 Number of landfill sites accessible to register waste pickers?</i>	
N/A	
<i>Q-6 Average life span of informal waste workers?</i>	
N/A	
<i>Q-7 Any government vaccination programmes for informal waste workers?</i>	
N/A	
<i>Q-8 Any public awareness programmes for informal waste workers on health and safety measures?</i>	
N/A	
<i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i>	
N/A	
<i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i>	
N/A	
<i>Important policies/programs/projects/master plans the government plans to undertake within next five years</i>	
N/A	
<i>Is this Goal relevant for your country?</i> <input type="checkbox"/> Highly <input type="checkbox"/> Partially <input checked="" type="checkbox"/> Not at all	

<b>IV. 3R Goals for Cross-cutting Issues</b>	
<b>Goal 33</b>	Promote 3Rs taking into account gender considerations.
<i>Q-1 Please give a brief assessment on how the national, provincial and municipal governments incorporate gender considerations in waste reduction, reuse and recycle.</i> Both men and women are engaged in the planning to the implementation phase.	
<i>Challenges (policy/ institutional/ technological/ financial) faced in implementation:</i> Women are more likely to be interested in waste management than men.	
<i>Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant</i> Tonga Strategic Development Framework 2	
<i>Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020)</i> Gender consideration included in all planning and implementation activities	
<i>Is this Goal relevant for your country?</i> <input checked="" type="checkbox"/> Highly <input type="checkbox"/> Partially <input type="checkbox"/> Not at all	