

Fifth Regional 3R Forum in Asia and the Pacific

“Multilayer Partnerships and Coalition as the Basis for 3Rs Promotion in Asia and the Pacific”
Surabaya, Indonesia, 25-27 February 2014

Country Report

(Draft)

< Bhutan >

This country report was prepared by Bhutan as an input for the Fifth Regional 3R Forum in Asia and the Pacific. The views expressed herein do not necessarily reflect the views of the United Nations.

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Country Report

Name of the Country: BHUTAN

Name, Designation and Organization Respondent: National Environment Commission - Bhutan

Other Organizations contributing to Country Report:

(**Note:** Though a number of key line Ministries/Agencies of BHUTAN such as the National Environment Commission and Ministry of Works and Human Settlement, are invited to Fifth Regional 3R Forum in Asia-Pacific, only one consolidated joint country report is requested)

Voluntary reporting on progress/achievements/initiatives 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 promising decade (2013-2023) of sustainable actions and measures for achieving resource efficient and sound material cycle society in the rapidly urbanizing region, the Fourth Regional 3R Forum in Asia-Pacific in 2013 discussed and agreed the “*Ha Noi 3R Declaration – Sustainable 3R Goals for Asia and the Pacific 2013-23*“. The objective of the Country Reporting is to share among the Asia-Pacific countries the progress and achievements made, including various challenges faced, by countries in implementing each of the underlined Goals of the Declaration. It is also expected to help development agencies, donors and multilateral development banks (MDBs) better devise their existing as well as future capacity building and technical assistance programs in the areas of 3Rs and resource efficiency, including building 3R infrastructures. While preparing the country report, it is highly recommended that all other relevant line Ministries/Agencies such as Ministry of Environment, Ministry of Industry, Ministry of Public Works, Ministry of Urban Development, Ministry of Energy, etc., are consulted.

Please list below the type of date reports/statistical compendium available in the areas of waste management in your country:

- 1...National Solid Waste Survey of Bhutan (2008)
- 2...Household survey on waste management in PPP-ISWM pilot project area in Thimphu” year 2011.

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration		
I. 3R Goals in Urban/Industrial Areas				
3Rs in municipal solid waste	1	Significant reduction in the quantity of municipal solid waste 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.	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • Lack of Human Resource • Lack of appropriate equipment
			Examples of pilot projects and/or policies developed or under development – include websites/URLs where relevant <ul style="list-style-type: none"> • National Strategy for Integrated solid waste management (policies) • Waste Management and Prevention Act 2009 • Integrated solid waste management for Bajothang(pilot project) • Public Private Partnership –ISWM (Thimphu Thromde) 	
			Important Actions you will take in 2014 <ul style="list-style-type: none"> • Bajothang is installing a shredding plant for pet bottles • Distribution of two bins for dry and wet waste segregation • Public Awareness on ISWM • Privatisation of solid waste Collection in Thimphu Thromde • Up-Scale pilot project for PPP-ISWM in Thimphu Thromde 	
			Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
3Rs in municipal solid waste	<p>2 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.</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <ul style="list-style-type: none"> • Segregation of bio-degradable waste is being carried only in pilot areas in Thromde. • In other smaller towns, the amount of segregated waste collected is less due to lack of proper awareness on waste segregation • The culture of waste segregation is still a new subject in Bhutan. Awareness on segregation/waste management (Two bin systems has been piloted in one core area of capital city. If successful, the recovery rate for the organic waste will be 100%.
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> • Installation of compost plant in BajothangThe Govt. has put in place regulatory framework by enacting Waste Prevention and Management regulation 2012. <p>www.nec.govt.bt</p>	
		<p>Important Actions you will take in 2014</p> <ul style="list-style-type: none"> • Public Awareness on Waste Segregation 	

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		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
3Rs in municipal solid waste	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.	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • City council has very less numbers of Refuse Collection Vehicles (RCV). • The amount of recyclables collected is not sufficient to set up a recycling plant in Bhutan. Therefore all the recyclables are transported to India
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> • The Economic Development Policy • Installation of PET shredding/ Bailing Press Machines in THimphu, Paro and Wangdue • City council has also initiated a pilot project (pet and plastic waste recycling centre), which has been outsourced to one local entrepreneur. • www.greenerway.bt 	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
		Important Actions you will take in 2014 <ul style="list-style-type: none"> • Promote recycling in other towns by providing PET shredding and Bailing machines and Glass crushing plants • Public Awareness on Waste Management and Recycling • Support Private sector initiatives in other towns 	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
3Rs in municipal	4 Build sustainable cities /green cities by encouraging “ zero waste ” through sound policies, strategies, institutional mechanisms, and multi-stakeholder partnerships (giving specific importance to private	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • Financial constraints, change behavior and weak policies specifically for waste minimization.

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	sector involvement) with a primary goal of waste minimization	Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> National Strategy on ISWM (Draft) The MoWHS is currently developing proposals for development of eco cities/sustainable green cities which would encourage “Zero Waste”. The proposals have been submitted for GEF funding. The two bin project started by Thimphu Thomde for segregation at the household level, PET bottle crushing plant operated by Greener Way in collaboration with RSPN and Thimphu Thomde. 	
		Important Actions you will take in 2014 <ul style="list-style-type: none"> Develop pilot “Zero Waste” projects in towns. 	
		Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
3Rs in industrial	5 Encourage the private sector , including small- and medium-sized enterprises (SMEs) to implement measures to increase resource efficiency and productivity , creation of decent work and to improve	Any action had been taken so far? <input checked="" type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration
	environmentally-friendly practices through applying environmental standards, clean technologies, and cleaner production.	Examples of pilot projects and/or policies developed or under development – include URLs where relevant
		Important Actions you will take in 2014
		Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
6	Promote the greening of the value chain by encouraging industries and associated suppliers and vendors in socially responsible and inclusive ways.	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • Greening of the value chain process is a greenfield area for industries in Bhutan and there is no domestic institutional nor human capacity to provide the necessary planning framework and technical inputs. Moreover, most of the Bhutanese industries are at the very low levels of the value chain and greening could potentially give major financial impact. • Inadequate capacity in terms of technical skills/knowledge and the technology to be improved is too expensive for a private sector
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> • Through Danish assistance from year 2000 to 2010, pilot Cleaner Technology and Environmental Management projects in selected industries- Ferro silicon, cement, steel, wood, food processing, mining and calcium carbide have benefited from the testing of adoption of cleaner production methods. 	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration		
		Important Actions you will take in 2014 <ul style="list-style-type: none"> Encourage the private industries of cleaner production and intensify compliance monitoring 		
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially		
3Rs in industrial waste	7	Promote industrial symbiosis (i.e., recycling of waste from one industry as a resource for another), by providing relevant incentives and support.	Any action had been taken so far? <ul style="list-style-type: none"> <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • The industrial symbiosis in Bhutan is largely by default and very limited. There needs to be proper planning of an industrial symbiosis. • Most wastes are not felt to be cost effective when recycled
			Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> • The country has a very strong Environmental Policy and Economic Development Policy to recycle waste • What exists in the most basic form is at Pasakha industrial estate in South West of the country where the micro-silica waste from the Ferro-silicon industries is used for manufacturing construction bricks. 	

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		Important Actions you will take in 2014 <ul style="list-style-type: none"> • Take up the matter with the environmental governing body through the National Environment Commission Secretariat 	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
3Rs in industrial waste	8 Build local capacity 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.	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • Capacity building has largely been through the Danida assisted Cleaner Technology and Environmental Management project and this involved training of industry and government personnel within the country as well as in Denmark, Norway, Austria, Malaysia, India, Thailand and Philippines. The key challenge is financial support from the government in view of other pressing national social and development priorities. The withdrawal of Danish assistance has also affected the Cleaner Production programme

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		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> • At present the Royal Government is not engaged in any greening initiatives by way of financial support but support is provided through the fiscal incentives such as exemption of taxes on industries adopting green technology beyond what is required by law. • There is numerous capacity building programs being carried out by the government across all sector 	
		<p>Important Actions you will take in 2014</p> <ul style="list-style-type: none"> • Support any capacity building programs of such kind that are being proposed by relevant sectors/agencies 	
		<p>Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially</p>	
3Rs in industrial	<p>9 Develop proper classification and inventory of hazardous waste as a prerequisite towards sound management of such waste.</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some (design – piloting)</p> <p><input checked="" type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <ul style="list-style-type: none"> • Inadequate technical capacity and skills in private sector

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		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> Strong National Environmental Policy/law/Regulations exist Classification and inventory of hazardous/non-hazardous waste already in place 	
		<p>Important Actions you will take in 2014</p> <ul style="list-style-type: none"> Recommend and advise relevant agencies to continue to strictly enforce the environmental regulations 	
		<p>Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially</p>	
II. 3R Goals in Rural Areas			
10	<p>Reduce losses in the overall food supply chain (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</p>	<p>Any action had been taken so far?</p> <p><input checked="" type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p>

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
	consumers.	Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
		Important Actions you will take in 2014	
		Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
11	Promote full scale use of agricultural biomass waste and livestock waste 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.	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: Due to availability of cheaper energy such as electricity in Bhutan, the promotion of Bio-gas is challenging
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> • Bhutan Biogas Project has installed about 1300 biogas plants • http://www.bbp.gov.bt/ 	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
		Important Actions you will take in 2014	
		<ul style="list-style-type: none"> • Construct 300 more Biogas Plants 	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
III. 3R Goals for New and Emerging Wastes			
12	Strengthen regional, national, and local efforts to address the issue of waste, in particular plastics in the marine and coastal environment.	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • Lack of Financial resources and appropriate alternative to replace plastics
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> • The Royal Government of Bhutan has imposed a ban on use of plastic carry bags and ice cream and food wrappers. 	

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		Important Actions you will take in 2014 <ul style="list-style-type: none"> • Continue to reinforce the ban on plastics and encourage use of bio-degradable plastics or cloth materials instead of plastics. Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
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	Any action had been taken so far? <ul style="list-style-type: none"> <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • Level of awareness amongst e-waste generators found to be poor • Lack of skills and capability • Less human resources • Limited fund

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	<p>safety aspects of those involved.</p>	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> • Waste Prevention and Management Regulation,2012 (E-waste regulation in-corporated) • Standard Operation Procedures framed • Awareness on regulation and training on e-waste to stakeholders, private sector(IT vendors), representative in Dzongkhags(District) conducted • Bhutan’s e-waste management strategy drafted <hr/> <p>Important Actions you will take in 2014</p> <ul style="list-style-type: none"> • Guidelines to be developed keeping in mind the various types of chemicals used in different e-waste generators such as photo studio, printing press, electronic repair shop etc. • Recruit E-waste management entity who will do collection and transportation (working on RFP and TOR) • Nationwide awareness program through AV and print media • Awareness to the dzongkhag to geog level

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		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
14	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.	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • We do not have appropriate technology to handle hazardous waste and e-waste as well.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> • Waste Prevention and Management Act 2009 	
		Important Actions you will take in 2014 <ul style="list-style-type: none"> • Waste Prevention and Management Act 2009 	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
15	Progressive implementation of “extended producer responsibility (EPR)” 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.	Any action had been taken so far? <input checked="" type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • Since there are no manufacturing firms in the country, they were of the opinion that it may not be too relevant
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> • National Strategy of ISWM • During the awareness and training program, the IT vendors was sensitized on EPR 	
		Important Actions you will take in 2014 <ul style="list-style-type: none"> • will look into it as a matter of principle consistent with global practices and will work on it with our suppliers to devise a practical plan for EPR 	
		Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially	

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16	<p>Promote the 3R concept in health-care waste management.</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <ul style="list-style-type: none"> • There is a guideline called Infection Control & Biomedical Waste Management, 1996 which is very old and needs revision • No fund support and there is very little fund from RGoB • Problem with disposal as we are practicing dump burial pit system • People trained in biomedical waste management in most hospitals are transferred and even in program there is a need of capacity development. • Autoclave is used to disinfect the waste but there is no record of weather the autoclaved waster is safe to handle or not and also Autoclave machines are very old. To buy new one are very expensive

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		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>There is no pilot project on going related to 3R concept and no policies developed for the health-care waste management, Solid Waste Management Act of Bhutan 2009 is used as a legal document in addition to Infection Control & Biomedical Waste Management, 1996.</p> <p>Autoclave is used to disinfect the waste but there is not record of weather the autoclaved waste are safe to handle or not</p> <p>International colour coding waste segregation are promoted and encouraged where possible</p>
		Important Actions you will take in 2014
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially
IV. 3R Goals for Cross-cutting Issues		

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
17	Improve resource efficiency and resource productivity by greening jobs nation-wide in all economic and development sectors	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • Lack of technical know-how • Resource Constraint
		<ul style="list-style-type: none"> • Examples of pilot projects and/or policies developed or under development – include URLs where relevant Paperless initiatives and online services • Government to Citizen Initiatives • http://www.citizenservices.gov.bt/ 	
		Important Actions you will take in 2014 <ul style="list-style-type: none"> • Promote paperless initiatives in all Government agencies 	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	

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18	Maximize co-benefits from waste management technologies for local air, water, oceans, and soil pollution and global climate change.	Any action had been taken so far? <input checked="" type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
		Important Actions you will take in 2014	
		Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
19	Enhance national and local knowledge base and research network on the 3Rs and resource efficiency , through facilitating effective and dynamic linkages among all stakeholders, including governments, municipalities, the private sector, and scientific communities.	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
		Important Actions you will take in 2014	
		Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
20	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.	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • Lack of finance
		<ul style="list-style-type: none"> • Examples of pilot projects and/or policies developed or under development – include URLs where relevant Public Private Partnership-Integrated Solid Waste Management • Clean Bhutan Initiatives (2008-2009) by Royal Society for Protection of Nature where they carried out public education, public awareness and advocacy program on solid waste management 	
		Important Actions you will take in 2014 <ul style="list-style-type: none"> • Clean Bhutan Project • Green Thimphu Project 	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	

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21	<p>Integrate the 3Rs 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.</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some (design – piloting)</p> <p><input checked="" type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <p>Although components on waste management has been included in both the Primary, Secondary and Non-formal curriculum, but many has remained as awareness and nothing much on the ground has happened. There has no behavioral change among the learners. Constraints are also been observed at the policy level where there is lack of monitoring and fining systems. At time done but just as a one time activity and no continuity</p>
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevantRSPN initiated community based waste management system at Phobjikha. A sanitary landfill was created and a truck to collect waste from different points was purchased. Waste collection containers were placed at different points. A small scale waste mixer where biodegradable waste were shredded and used in the farms was provided at Aman Resort. The overall management was done by the local community. For the sustenance purpose, fees were collected from businesses and households.</p>	

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		Important Actions you will take in 2014 <ul style="list-style-type: none"> • Since we are currently developing Environmental Science Curriculum for secondary level, efforts will be put in incorporate more action oriented waste management programs in the curriculum. 	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
22	Integrate the 3R concept 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	Any action had been taken so far? <input type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input checked="" type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • Enforcement of rules and regulation • Lack of basic solid waste management facilities • Lack of resources

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	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.	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> • Waste Prevention and Management Act of Bhutan 2009 by National Environment Commission • National Strategy and Action Plan on Integrated Solid Waste Management (2007) by Ministry of Works and Human Settlement • Guidelines on safe disposal of medical waste by Ministry of Health 	
		Important Actions you will take in 2014	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
23	Promote green and socially responsible procurement at all levels, thereby creating and expanding 3R industries and markets for environmentally-friendly goods and products.	<p>Any action had been taken so far?</p> <input checked="" type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <hr/> <p>Important Actions you will take in 2014</p> <p>Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially</p>

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
24	<p>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.</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <p>The Thimphu Municipality implementing a project (funded by UNDP) whereby, the residents will have to pay for the waste management services provided by the municipality. In the current waste management system, the entire cost of waste collection and disposal is subsidized by the government in the capital city as well as other municipalities in the country. The ground work and the feasibility studies have been carried out by the municipality for possible private sector involvement in waste collection and disposal.</p>

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> • The Thimphu municipality has already recruited a consultant to consolidate and prepare a business case for private sector involvement in waste management system whereby private sector will provide waste management services to the residents of Thimphu at the same time the service users (residents) will have to pay a waste management fee/charges
		<p>Important Actions you will take in 2014</p> <ul style="list-style-type: none"> • Work on private sector engagement in waste management system which will focus on effective and efficient waste collection services, employment creation, up-scale the 3R initiatives much more strongly.
		<p>Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially</p>

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
25	<p>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.</p>	<p>Any action had been taken so far?</p> <p><input type="checkbox"/> Not yet</p> <p><input checked="" type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	<p>Challenges faced in implementation:</p> <p>By April 2012, waste management regulations were adopted by the respective sectors. The Thimphu municipality and other implementing agencies of this regulation have put certain operational procedure in place to implement the provisions of these regulations. Some municipalities have also started deploying additional manpower to enforce the regulation and Thimphu municipality has collected some revenue through implementation of this regulations.</p> <p>One of the challenges encountered was the lack of inadequate sanitary inspectors and the required finances to enforce these regulations effectively.</p>
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>Rules and Regulation on Waste Management (www.nec.gov.bt)</p>	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
		Important Actions you will take in 2014 Further strengthen the institutional capacity through additional request of manpower and finances from the central government so that the regulations are enforced effectively.	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
26	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 <i>Basel Convention</i> , which contributes to the reduction of negative environmental impacts and the effective management of resources.	Any action had been taken so far? <input checked="" type="checkbox"/> Not yet <input type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
		Important Actions you will take in 2014	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
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.	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • The Thimphu municipality has developed a solid waste information management system (from the PPP-ISWM project which provides details on daily waste collection, composting, landfill management, PET bottle recycling management, operation and monitoring of waste collection trucks. • There is still a need to fine-tune the system so that it can be efficiently used by the senior management.

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> • National Solid Waste Survey (2008) • National solid waste conference (2008) • Solid waste information management system (SWIMS) developed by Thimphu Thromde (still on trial) <hr/> <p>Important Actions you will take in 2014</p> <ul style="list-style-type: none"> • Organize a national workshop to show case best examples of sustainable waste management based on Bhutan’s pilot projects and International experiences. • Update the national Solid Waste Survey <hr/> <p>Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially</p>	
28	Promote heat recovery (waste-to-energy), in case wastes are not re-usable or recyclable and proper and sustainable management is secured.	<p>Any action had been taken so far?</p> <p><input checked="" type="checkbox"/> Not yet</p> <p><input type="checkbox"/> Some (design – piloting)</p> <p><input type="checkbox"/> Largely in Place</p> <p><input type="checkbox"/> Fully Completed</p> <p>(Please Check the box)</p>	Challenges faced in implementation:

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
		Important Actions you will take in 2014	
		Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
29	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.	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation:
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> • Technical Assistant received from City of Fukuoka in the rehabilitation of Memelakha Landfill • Capacity Build on Waste Management from City of Hiroshima • Few Dumper trucks received from City of Hiroshima 	
		Important Actions you will take in 2014	

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		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
30	Pay special attention to issues and challenges faced by developing countries including SIDS in achieving sustainable development.	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • Lack of resources
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> • The Royal Government of Bhutan has a policy focusing on sustainable development-National Environment Strategies 1998. 	
		Important Actions you will take in 2014 <ul style="list-style-type: none"> • Update the National Environment Strategies 1998.(Middle Path) 	
		Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
31	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.	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: The Economic development policy 2010 provides incentives for services sectors in waste management through tax exemption on machineries imported for waste management as well as tax holidays. The waste management act 2009 also emphasizes on tax incentives for waste management sector.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant (www.gnhc.gov.bt)	
		Important Actions you will take in 2014	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
32	Complete elimination of illegal engagement of children in the informal waste sector and gradually improve the working conditions and livelihood security, including mandatory provision of health insurance , for all workers.	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: <ul style="list-style-type: none"> • Implementation challenges
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> • Policy measures for under- age workers in place (Labour and Employment Act of Bhutan,2007) 	
		Important Actions you will take in 2014	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
33	Promote 3Rs taking into account gender considerations.	Any action had been taken so far? <input type="checkbox"/> Not yet <input checked="" type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: Thimphu municipality has carried out some survey in trying to find out the involvement of men and women on waste management activity. However, no clear interventions have been on gender considerations largely due to small waste recycling market. However, the private waste recycling firm Greener Way has more women working in waste recycling than men.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant <ul style="list-style-type: none"> • Gender mainstreaming in Low Emission Capacity Building Program for the Outcome: Waste Management 	
		Important Actions you will take in 2014 <ul style="list-style-type: none"> • Encourage women participation in National Appropriate Mitigation Action for Waste Management 	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	