

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)

< Thailand >

This country report was prepared by Thailand 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.

Country Report

Name of the Country: THAILAND

Name, Designation and Organization Respondent: Ministry of Natural Resources and Environment - THAILAND

Other Organizations contributing to Country Report:

(Note: Though a number of key line Ministries of THAILAND such as Ministry of Natural Resources and Environment and Ministry of Industry, 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.

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



Clean and Green City

Kingdom of Thailand



Location : Southeast Asia N 13° 44' 0" , E100° 30' 0"

Total Area : 513,115 KM2 Population 66 million

Resource Recycling statistic



Figure 1 MSW Solid waste recovery and utilization in 2012

Type	Waste Generation (Ton)	Quantity of Waste Recovery				Utilizations
		Commercial (Ton)	Waste Exchange System (Ton)	Total		
				(Ton)	(Percent)	
Glass	1,436,000	931,100	115,000 235,000	1,046,000 235,000	73 16	Recycling Reuse
Paper	3,229,000	999,000	1,077,000	2,076,000	64	Recycling
Plastic	2,163,000	650,000	114,000	764,000	35	Recycling
Steel scrap	3,504,000	1,369,000	1,928,000	3,297,000	94	Recycling
Aluminum	477,000	64,000	275,000	339,000	71	Recycling
Rubber	603,000	5,700	129,700 90,000 21,000	135,000 90,000 21,000	22 15 3	Recycling Reuse Alternative Fuel
Total	11,412,000	4,018,700	3,984,700	8,003,400	70	

Figure 2 Overall Flow of recyclable wastes in 2012.

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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: Need cooperation among multi-stakeholders. Also incentives must be introduced to drive waste volume reduction in nationwide.
			Examples of pilot projects and/or policies developed or under development – include websites/URLs where relevant: Policy development on waste prevention, reduction and green economy under the National Environmental Basic Plan (2012-2016) and the Pollution Management Plan (2013-2016)	
			Important Actions you will take in 2014: Promotion of green economy, low carbon society and sustainable production and consumption,	
			Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
3Rs in municipal	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,	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: Full scale utilization of the organic component of MSW including food wastes will face difficulties in terms of suitable technology, investment costs and end market use of composted products.

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	reduction of GHG emission, improvement in resource efficiency, energy recovery, and employment creation.	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>-Pilot project on small scale composting in 13 municipalities and existing plant in 5 municipalities.</p> <p>- Workshop on avoiding GHG emissions through MSW management in Thailand- incorporated with IGES</p>	
		Important Actions you will take in 2014 Investigation and mitigation of GHG from waste management sectors	
		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?	Challenges faced in implementation:
		<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)	Increase in significant recycling rate need incentive mechanisms for manufacture and recycling industries Also captital investment must be put for large scale-recycling technology suck as waste to energy plant .
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>-Propose the drafted National 3R Strategy as master plan and direction of MSW recycling</p> <p>- Propose the drafted Law for Promotion of 3Rs as basic recycling law</p>	
		Important Actions you will take in 2014 Pilot projects on recycling-based community in selected municipalities nationwide	

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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	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 sector involvement) with a primary goal of waste minimization	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: Zero waste is the next step for building sustainable cities or green cities. Policy and fundamental programs must be addressed before starting programs
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant Pilot projects were introduced through clean & green cities programs by encouraging best practices on municipality waste management. Waste minimization and utilization will a primary goal. Now there is covering 33 province of 76 provinces of Thailand to implement the clean&green city programs..	
		Important Actions you will take in 2014 In year 2014, The clean&green city programs will extend to 16 provinces more.	
		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	
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 environmentally-friendly practices through applying environmental standards, clean technologies, and cleaner production.	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:

3Rs in industrial waste

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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> <p>The Ministry of Industry, Department of Industrial Works (DIW) has launched the project promotes the use of industrial waste and reduce the amount of waste to landfill, which is prescribed to use resources efficiently and reduce the environmental impact from the year 2009 by studying the utilization of industrial waste. And found that the waste landfill several categories of potential in an industry oriented utilization. Which of these wastes are utilized in various formats, including applying sewage sludge from a waste water treatment plant and the remainder from the process from food factory of compressed fuel sticks, Bring scrap material from the production and mixed with sewage sludge synthetic fertilizer is produced from ripsaw. Cooling water recycling or waste water contamination oil as fuel substitutes, Recycling solution acid-alkaline-based cleaner for metal surface to produce ferrous sulfate, and apply coconut shell ash to produce interlocking blocks.</p> <p style="padding-left: 40px;">In the year 2001, DIW has begun a contest for waste management within the factory according to the 3Rs principle into the first year and takes action and until the year 2013, so it can be reviewed on 3Rs of DIW since year 201-2013: Participating factories 132 factories of which the plant was awarded the 3Rs of 109 plants and factories with waste to take advantage of all of or zero waste to landfill the 49 plants.</p> <p>Important Actions you will take in 2014 : DIW project promotes the use of industrial waste and reduce the amount of waste to landfill. Continuously 2013 by focusing on different industries industry ever undertaken in the past.</p> <p>Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially</p>

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
3Rs in industrial waste	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 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: Promotion for green market and greening of the value chain need campaign to the public and consumer. Research and development as well as incentives must be put to create environmental friendly products.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant - Government Green Procurement Policy Project has been introduced in 2008. Since then, it widely create green market and greening supply chain - Development of Thailand Green Purchasing Network to promote green market among producer and cosumers	
		Important Actions you will take in 2014 Promote Guideline and criteria for green procurement and capacity building for stakeholders	
		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 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? <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:
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant - Development of industrial waste exchange program to promote industrial waste recycling - Study road map on eco-town project for industrial symbiosis between MSW and industrial wastes	
		Important Actions you will take in 2014: DIW has no specific project on recycling of waste from one industry as a resource for another in 2014, but It is set as a key policy of DIW and applied to many environmental sound projects such as green industry project and eco industry projects.	
		Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially	

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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 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: Local capacity to foster green industry need clear policy and direction. Knowledge and information on green industry must be disseminated.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant - Pilot project on implementation of clean technology and cleaner production on selected industries - Develop guideline on eco-design products	
		Important Actions you will take in 2014 Promotion for sustainable production and consumption as a part of socio-economic development plan.	
		Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially	

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II. 3R Goals in Rural Areas			
10	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 consumers.	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 -Insufficient data-	
		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	
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 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:
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant : The measures conducted by the Energy Ministry -Incentives policy on use of biomass for electricity plant. At present, there is 1500 MW of electricity produced from biomass (target at 2,800 MW). -The study on biomass material applications -The study on use of biomass as alternative fuel	
		Important Actions you will take in 2014 Impacts and potential application of biomass as energy renewable issues.- Thailand Institute of Science and Technological Research (TISTR)	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	

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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 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: Public awareness rising and education programs must be sufficient and continued. Use of other packaging instead of plastics is the challenges.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant -Notification on ban of plastic use in national parks - Promote clean and green beach to the local administrations -Campaign for plastic reduction in department stores and convenience stores	
		Important Actions you will take in 2014 Pilot project on reduction of plastic wastes on major tourist attraction places.	
		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	
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.	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: A large number of informal waste buyers who dismantle e-waste improperly.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant - National WEEE Management Strategy - ESM of e-waste project : capacity building	
		Important Actions you will take in 2014 Draft a WEEE management law	
		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	
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: There is unclear definitions among wastes, recyclables, hazardous wastes or E-wastes.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant Projects conducted by PCD and DIW: -Capacity building for stakeholders for networking inspections - Standard and guideline for environmental sound management - Annual meeting and conference as a member of the Basel Convention	
		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	
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 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 - Take back project run by producers such as Nokia, HP, Toshiba Important Actions you will take in 2014 Draft WEEE law list incorporates EPR principle Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially
16	Promote the 3R concept in health-care waste management.	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 concept of 3R introducing to the hospitals is limited to staffs acknowledgement and cooperation. -

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		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>-Drafted master plan on green and clean hospital- incorporated with the Ministry of Public Health and local authorities to promote environmental sound management of health care waste using 3R based concept.</p> <p>-Guideline and manual for effective hospital waste management.</p>	
		<p>Important Actions you will take in 2014</p> <p>- Pilot project on health care waste management in the selected hospitals-conducted by PCD</p>	
		<p>Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially</p>	
IV. 3R Goals for Cross-cutting Issues			
17	<p>Improve resource efficiency and resource productivity by greening jobs nation-wide in all economic and development sectors</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>A few study or pilot projects on resource efficiency and resource productivity</p>

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		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <p>-The National Economic and Social Development Plan 2012-2016 addressed sustainable production and consumption as basis of development in all dimensions</p> <hr/> <p>Important Actions you will take in 2014</p> <p>- Training on resource and productivity conducted by Thailand Productivity Institute</p> <hr/> <p>Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially</p>	
18	Maximize co-benefits from waste management technologies for local air, water, oceans, and soil pollution and global climate change.	<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>	Challenges faced in implementation:

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	private sector, and scientific communities.	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> - Research network among Thailand Institute of Science and Technological Research (TISTR) and Universities - Research on clean technology, material recycling and life-cycle inventory <hr/> <p>Important Actions you will take in 2014</p> <p>R&D on recycled materials and recycling technologies. by TISTR</p> <hr/> <p>Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially</p>	
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	<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>	Challenges faced in implementation:

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	behavioural change of the citizens and change in production patterns.	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant</p> <ul style="list-style-type: none"> - Campaign for plastic wastes reduction in department stores by government NGOs producer s and local governments - Distribution of green product directory to promote public use of environmental friendly products 	
		<p>Important Actions you will take in 2014</p> <p>Contest on “Zero - waste Community” to promote multi stakeholder cooperation</p>	
		<p>Is this Goal relevant for your country? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially</p>	
21	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>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>

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		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant : Projects conducted by the Ministry of Education and the Ministry of Natural Resources and Environment:</p> <ul style="list-style-type: none"> -Environmental education programs in all levels -In school waste recyclable activities to promote 3R and awareness rising 	
		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	
22	<p>Integrate the 3R concept in relevant policies and programmed, 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</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>Inter- ministerial cooperation might face challenges on roles and authorities of individuals.</p>
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant : Policy development under</p> <ul style="list-style-type: none"> - The National Economic and Social Development Plan -The National 3R Strategy- 	

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	Development, Ministry of Education, and other relevant ministries towards transitioning to a resource-efficient and zero waste society.	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.	Any action had been taken so far?	Challenges faced in implementation: Environmental friendly products are new for consumers. Related information and incentive are still insufficient to promote use the products countrywide.
		<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)	
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant	
		<ul style="list-style-type: none"> - Develop green product directory and disseminate to all stakeholders to promote environmental friendly products - Develop guideline and criteria for government green procurement 	
		Important Actions you will take in 2014 Capacity building to local administrations to expand government green procurement 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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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 -Project on capacity building for local administration on solid waste managements - Issued standard and guideline for land disposal of solid wastes Training and manual for sanitary landfill operations Important Actions you will take in 2014 Green and clean city and local capacity building projects 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 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:
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant DIW Notification on import of use EEE and Hs Parts/components 2007 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 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: Data collection can be costly. It must be surveyed and analyzed continuously.
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant-Development of Thailand Waste Recovery Center as 3R knowledge hub - Annual report on pollution status in Thailand -The study of waste generation and characterizations in countrywide	
		Important Actions you will take in 2014 : Survey and data collection on solid waste management and bulletin on waste and hazardous wastes management	
		Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially	
28	Promote heat recovery (waste-to-energy), in case wastes are not re-usable or recyclable and proper and sustainable management is secured.	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: Application of waste to energy might have limits on suitable technological use and related knowledge and experience.

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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> <p>-Incentive policy from the Ministry of Energy to subsidy private sectors in investment on waste business – waste to energy in particular.</p> <p>- Pilot projects on waste to energy in selected municipalities- funded by the Ministry of Ennergy</p>	
		<p>Important Actions you will take in 2014 : Feasibility and pilot study on MSW to energy applications- conducted by the PCD</p>	
		<p>Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially</p>	
29	<p>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</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>Differences in socio-economic conditions, waste management problems and capabilities of organizations may limit the cooperation.</p>

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Goal No.	Goal Description	Voluntary Progress/Achievements/Initiatives in Implementing Ha Noi 3R Declaration	
	NGO-to-NGO. Encourage technology transfer and technical and financial supports for 3Rs from developed countries to less developed countries.	<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant Cooperation between the Ministry of Environment, Trade and Industry, Japan and the Ministry of Industry , Thailand on pilot project of developing eco-town project in Thailand</p> <p>-Ministry of Environment Japan and Ministry of Natural Resources and Environment Thailand: Technical assistants on PRTRs projects</p> <p>Important Actions you will take in 2014</p> <p>Is this Goal relevant for your country? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Partially</p>	
30	Pay special attention to issues and challenges faced by developing countries including SIDS in achieving sustainable development.	<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 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>Need direction and cooperation among organizations and stakeholders</p>
		<p>Examples of pilot projects and/or policies developed or under development – include URLs where relevant :</p> <p>-Addressed on the government policy and the National Social and Economic Development Plan.</p> <p>-The study on sustainable production and consumption- conducted by Thailand Environment Institute (TEI)</p> <p>Important Actions you will take in 2014 Promotion and campaign for green economy and low carbon society</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	
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 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 - Non Available Data-	
		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	
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 type="checkbox"/> Some (design – piloting) <input type="checkbox"/> Largely in Place <input type="checkbox"/> Fully Completed (Please Check the box)	Challenges faced in implementation: Difficulties in inspection due to family business
		Examples of pilot projects and/or policies developed or under development – include URLs where relevant : - Enforcement of Labor Law -Green junk shop program to promote informal waste sector knowledge and operating their businesses in compliance with related laws.	

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		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	
33	Promote 3Rs taking into account gender considerations.	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 -Insufficient data-	
		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	