#### Sixth Regional 3R Forum in Asia and the Pacific

"3R as an Economic Industry - Next Generation 3R Solutions for a Resource Efficient Society and Sustainable Tourism Development in Asia and the Pacific"
Malé, Maldives, 17-19 August 2015

# **Country Report**

(Draft)

<Myanmar>

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

# Country 3R Progress Report

Name of the Country: MYANMAR

Name, Designation and Organization Respondent: Ministry of Environmental Conservation and Forestry - Myanmar

Other Ministries, Organizations, Agencies contributing to Country Report: Ministry of Environmental Conservation and Forestry, Ministry of Industry, and Ministry of National Planning and Economic Development

**Timeline of Submission: 17 JULY 2015** (Email: 3R@uncrd.or.jp)

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

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

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

Thank you very much for your kind cooperation.

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

Voluntary Progress/Achievements/Initia	atives in
Implementing Ha Noi 3R Declaration (2	2013~2023)

MYANMAR		

. 3K Goals in Orban muusurar Areas (3Ks in municipal sonu waste)
Significant <b>reduction</b> in the quantity of <b>municipal solid waste</b> generated, by instituting policies, programmes, and projects at national and local levels,
encouraging both producers and consumers to reduce the waste through greening
production, greening lifestyle, and sustainable consumption.
Q-1 What specific 3R policies, programmes and projects, are implemented to reduce the quantity of municipal solid waste?
furnity of municipal solar waste.
Policy (To develop systematic waste disposal and collection system in order for the city to be free of repulsive dumpsites and conducting Community-based 3Rs Practices)
Programme (Regular collecting of municipal solid waste programme by city development committee)
1.Block collection
2.Communal depot collection
3.House to house collection
4.Street sweeping
4.Limited collection
Q-2 What is the level of participation of households in "source" segregation of municipal waste streams? (Please check the appropriate box)
$\Box$ Very High (> 90%)
$\square$ High (>70%)
✓ Average (50-~70%)
☐ Low or not satisfactory (< 50%)
☐ Does not exist
Q-3 Total annual government expenditure per capita (US\$ per capita) in municipal solid waste management in 2013-2014
Challenges (policy/ institutional/ technological/ financial) faced in implementation: Population growth and generated waste increase Need financial assistance
Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant
Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020)
Is this Goal relevant for your country? ☑ Highly ☐ Partially ☐ Not at all

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

I. 3R Goals in Urban/Industrial Areas (3Rs in municipal solid waste)
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.
Q-1 Does the central government have policies or support to utilize or reduce the organic
waste such as composting, energy recovery and improving efficiency in food processing?
Yes.Waste to Energy, WTE Process
Q-2 What is happening to country's organic waste? (Please check the appropriate box)
□ mostly landfilled
☐ mostly incinerated
■ both landfilled and incinerated
☐ mostly open dumped or open burned
Challenges (policy/ institutional/ technological/ financial) faced in implementation: Need financial assistance and technological assistance
Examples of pilot projects, master plans and/or policies developed or under development -
include websites where relevant
Two new waste disposal plant will use Yangon's trash to generate electricity and natural gas for vehicles with construction starting as early as November 2015. This project would be
implemented by Yangon City Development Committee.
implomolitou by Tungon City 20.010pmont Commission
Important policies/programmes/projects/master plans the government plans to undertake
within next five years (2015~2020)
<i>Is this Goal relevant for your country?</i> ☑ Highly ☐ Partially ☐ Not at all

MYANMAR		

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

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

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

more waste stre		110 101 1110 000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Rate	e Very High	High	Average	Poor	Recycling	Definition
	(>90%)	(>70%)	(50-~60%)	(<50%)	does not	of recycling
Type					exist	rate*
Paper		1				
Plastic		1				
Metal		1				
Construction			1			
waste						
e-waste				1		
others					1	

<sup>\*</sup>Note: Please specify in the cell which of the following definitions(ie., 1 or 2 or 3) is followed for recycling rate

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

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

Rate	Very High	High	Average	Poor	Recycling
Type	(>90%)	(>70%)	(50-~60%)	(<50%)	does not exist
Paper		1			
Plastic		1			
Metal		1			
Construction				✓	
waste					
e-waste					✓

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

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

	Level	Every Major	Few Major	Does not	Supportive	No supportive
		City	Cities only	exist	policy or	policy or
Type					programmes exists	programmes
Paper		✓				
Plastic			✓			
Metal			✓			
Construction	tion		✓			
e-waste				1		

Definition 1: (collected recyclable waste)/(estimated generation of waste)

Definition 2: (volume of utilized recyclable waste)/(volume of raw material)

Definition 3: (volume of utilized recyclable waste)/(volume of collected waste for recycling)

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

I. 3K Goal	' I I / I / 2 D
	in Urban/Industrial Areas (3Rs in municipal solid waste)
Goal 3	Achieve significant <b>increase in recycling rate</b> of recyclables (e.g., plastic, paper, metal, etc.), by introducing policies and measures, and by setting up financial mechanisms and institutional frameworks involving relevant stakeholders (e.g., producers, consumers, recycling industry, users of recycled materials, etc.) and development of modern recycling industry.
Challeng	es (policy/ institutional/ technological/ financial) faced in implementation:
Require f	nancial mechanism and technological assistance
-	of pilot projects, master plans and/or policies developed or under development – ebsites where relevant
include w	
include w	ebsites where relevant
include w	ebsites where relevant  t policies/programmes/projects/master plans the government plans to undertake

I. 3R Goals in Urban/Industrial Areas (3Rs in municipal solid waste)
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
Q-1 What specific waste management policies and programmes are introduced to encourage private sector participation in municipal waste management?
Policy (To develop systematic waste disposal and collection system in order for the city to be free of repulsive dumpsites and conducting Community-based 3Rs Practices)
Q-2 What are the major waste management areas that have strong involvement of private and business sector? (Please check appropriate boxes and add other areas if not listed below)
☑ waste collection
□ resource recovery
☑ waste recycling
□ waste to energy, composting, etc.
✓ PPP projects in waste sector
Challenges (policy/ institutional/ technological/ financial) faced in implementation:
Required specific policy. Low level of technology and lack of financial mechanism.
Examples of pilot projects, master plans and/or policies developed or under development –
include websites where relevant
Awareness Programme
Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020)  PPP project in waste sector
Is this Goal relevant for your country? ☑ Highly ☐ Partially ☐ Not at all

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

I. 3R Goals	in Urban/Industrial Areas (3Rs in Industrial waste)				
Goal 5	Encourage the <b>private sector</b> , including small - and medium - sized enterprises (SMEs) to implement measures to increase <b>resource efficiency and productivity</b> , creation of decent work and to improve environmentally-friendly practices through applying environmental standards, clean technologies, and cleaner production.				
	are the major clean technology related p	olicies aiming to i	increase energy and		
•	fficiency of SMEs?				
Industrial	policy No.(4) - Efficient Utilization of avail	lable natural resou	rces and promotion		
of value-a	dded products based on locally available na	itural resources.			
Q-2 What are the capacity building programmes currently in place to build the technical capacity of SMEs in 3R areas?  Energy Management System & Energy Audit Training for energy and resource reduction Energy System Optimization Training					
	· · · · · · · · · · · · · · · · · · ·	industry sector Ir			
Challenges (policy/ institutional/ technological/ financial) faced in implementation:  1.Low level of technology and lack of financial mechanism.					
Examples	of pilot projects, master plans and/or police	ries developed or u	inder development –		
_	ebsites where relevant	•	1		
1.Improve	ment of Industrial Energy Efficiency in Myan	mar (IEE) Project	Cooperating		
	e Efficient and Cleaner Production (RECP) Pr		with UNIDO		
Important	policies/programmes/projects/master plans	the government	plans to undertake		
within nex	et five years (2015~2020)	<b>G</b>	•		
1. IEE Pro	ject (2015-2019)				
2. RECP P	roject (2015-2016)				
Is this God	al relevant for your country?	☐ Partially	☐ Not at all		

MYANMAR		

I. 3R Goals in Urban/Industrial Areas (3Rs in Industrial waste)		
<b>Goal 6</b> Promote the <b>greening of the value chain</b> by encouraging industries and associated suppliers and vendors in socially responsible and inclusive ways.		
Q-1 What percent of companies and industries have introduced green accounting and voluntary environmental performance evaluation (Ref: ISO 14000)?		
□ Very High (> 90%)		
□ High (>70%)		
□ Average (50-~70%)		
☑ Low or not satisfactory (< 50%)		
□ None		
Q-2 What percent of companies and industries have introduced social accounting (Ref: SA 8000) in consultation with their workers?		
□ Very High (> 90%)		
□ High (>70%)		
☐ Average (50-~70%)		
☑ Low or not satisfactory (< 50%)		
□ None		
Q 3 Does government have a programme for promoting greening of the value chain? What specific policies, programmes and incentives are introduced to promote greening of value chain?  Public awareness workshop programme Capacity development programme for government official Green Economy and Green Growth Programme		
Challenges (policy/ institutional/ technological/ financial) faced in implementation:  1.Low level of technology, lack of institutions and lack of financial mechanism.		
Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant  1.IEE Project  2.RCEP Project		
Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020)  1. IEE Project (2015-2019)  2. RECP Project (2015-2016)		
Is this Goal relevant for your country?   ☐ Highly ☐ Partially ☐ Not at all		

I. 3R Goals	in Urban/Industrial Areas	(3Rs in	Industrial waste)		
Goal 7	Promote <b>industrial</b> s resource for another),	•	•	•	•
industrial to promote	your government have parks or zones? What industrial symbiosis? t Programme are start	specific			
_	many eco-industrial nt, are there in the coun	_	or zones or t	he like, which is	s supported by the
	s (policy/ institutional/ specific policy and techn				
-	of pilot projects, mast bsites where relevant	ter plan	is and/or polici	es developed or u	nder development –
-	policies/programmes/jt five years (2015~2020		s/master plans	the government	plans to undertake
Is this God	ul relevant for your cou	ntry?	☑ Highly	☐ Partially	□ Not at all

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

I. 3R Goals in Urban/Industrial Areas (3Rs in Industrial waste)
Build <b>local capacity</b> of both current and future practitioners, to enable the private sector (including SMEs) to obtain the necessary knowledge and technical skills to foster green industry and create decent, productive work.
Q-1 How many dedicated training facilities or centers are there to cater the needs of SMEs
and practitioners in the areas of cleaner production, resource efficiency and environment-friendly technologies, etc.?
1.RECP project for resource efficiency and cleaner production (pilot project)
Q-2 Please provide an indicative figure on annual government (US \$) expenditure on building technical capacity of SMEs and practitioners in the areas of cleaner production, resource efficiency and environment-friendly technologies, etc.?
Grant aid pilot programme from UNIDO
Challenges (policy/ institutional/ technological/ financial) faced in implementation:
1.Technical Assistance
2. Techenical Transfer
3.Technical Cooperation
Examples of pilot projects, master plans and/or policies developed or under development -
include websites where relevant
1.RECP project which has been implementing by Ministry of Industry with the technical assistance of UNIDO.
Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020) 🗸 🗸
<i>Is this Goal relevant for your country?</i> ✓ Highly ☐ Partially ☐ Not at all

I. 3R Goals in U	rban/Industrial Areas (3Rs i	n Industrial waste)		
	velop proper <b>classification</b> vards sound management		y of hazardous w	aste as a prerequisite
Q-1 Is there a	systematic classification	of hazardous wa	ste? If so, please o	attach.
☐ Yes	☑ No			
Recently, M	yanmar was signed in	n Basel Conve	ention. In near	future, systematic
classification	of hazardous wastes will	be followed by	<b>Basel Convention</b>	l.
and disposal o	cific rules and regulation f hazardous waste? and regulations are un			· -
Challenges (pe Law, Rules and	olicy/ institutional/ techno d Regulation	ological/ financi	al) faced in implei	nentation:
	pilot projects, master pla es where relevant	ns and/or polici	ies developed or i	under development –
	licies/programmes/projec e years (2015~2020)	ts/master plans	the government	plans to undertake
Is this Goal re	levant for your country?	☑ Highly	☐ Partially	☐ Not at all

MYANMAR		

II. 3R Goals in	in Rural Areas	
Si	<b>Reduce losses in the overall food supply chain</b> (production, post harvesting storage, processing and packaging, distribution), leading to reduction of waster increasing the quantity and improving the quality of products reaching consumptions.	while
Q-1 What sintroduced to There is no establish nat	specific policies, rules and regulations, including awareness programme to minimize food or crop waste? o specific policies, rules and regulations but there are awareness program ation-wide on grain post-harvest technology programme.	es, are
agricultural	re any continuing education services or awareness programmes for the farmal marketing associations on reduction of crop wastes for increased food secu	rity?
Conducting (trainer).	g training programme for farmers to farmers managed by our partic	ipants
consumers, i	is the average wastage of crops or agricultural produce between far , if there is a study in your country?	ms to
	gh (> 20~ 30%)	
☑ High (10~	0~20%)	
☐ Medium (:	(5~10%)	
□ Low (< 5%	5%)	
☐ Negligible	de (<1%)	
	(policy/ institutional/ technological/ financial) faced in implementation: licy/ institutional// financial)	
include webs UNAPACAE	of pilot projects, master plans and/or policies developed or under developments where relevant  EM launched a pilot project to reduce post-harvest losses in rice product (UNAPACAEM website)	
	policies/programmes/projects/master plans the government plans to und t five years (2015~2020)	lertake
Is this Goal	l relevant for your country? ☑ Highly ☐ Partially ☐ Not at	all

MYANMAR		
MIANWAK		

II. 3R Goals	in Rural Areas
generated (a) agi	Promote full scale <b>use of agricultural biomass waste and livestock waste</b> through reuse and/or recycle measures as appropriate, to achieve a number of co - benefits including GHG emission reduction, energy security, sustainable livelihoods in rural areas and poverty reduction, among others.  **much amount of -(a) agricultural biomass waste and (b) livestock waste are grossly per annum?  **ricultural biomass waste 19.12 MCT/ annual, (b)Animal waste from 103 mileds of livestock
Q-2 How appropriate	are most of the agricultural biomass wastes utilized or treated? (Please check all e boxes)
	ndary raw material input (for paper, bioplastic, furniture, etc.) /electricity generation
•	ts/fertilizers
•	left unutilized or open dumped
•	open burned
scale econ There ha sustainak renewabl	tural biomass waste and livestock waste as a secondary material inputs towards full omic benefits? Relevant websites could be shared for additional information. It is an Industrial policy for the use of renewable energy: To develop the ole green industry and environmental conservation, effective use of the energy is essential.  It is a secondary material inputs towards full of the use of additional information.
and live formulati	stock waste (renewable energy). However, the programme for the ion of Green Economy Policy and strategic framework has being started by tance of World Wide Fund for Nature.
_	s (policy/ institutional/ technological/ financial) faced in implementation: ecific policy and technology for the use of renewable energy.
include we	of pilot projects, master plans and/or policies developed or under development – ebsites where relevant stem pilot project in Kyaukse Township
-	policies/programmes/projects/master plans the government plans to undertake et five years (2015~2020)
Is this God	al relevant for your country? ☑ Highly ☐ Partially ☐ Not at all

III. 3R Goals	s for New and Emerging Wastes			
Goal 12	Strengthen regional, national particular plastics in the ma			e issue of waste, in
~	specific policies and regulation	ons are in plac	e to address the is	sue of plastic wastes
	and marine environment?			
	, there is no specific policy stes in coastal and marine en		s are in place to	address the issue of
	<b>extent issue of plastic waste</b> Please check the appropriate b		n integrated coasto	al zone management
☐ Very mu	uch	☑ Not at all		
programm	e provide a list of centre of es established to address th d marine species? If yes, pleas	e impacts of	micro-plastic part	•
	s ( <i>policy/ institutional/ techno</i> blicy/ institutional)	logical/ financi	al) faced in implen	nentation:
_	of pilot projects, master plan bsites where relevant	is and/or polic	ies developed or u	nder development –
_	policies/programmes/project t five years (2015~2020)	s/master plans	the government	plans to undertake
Is this Goa	l relevant for your country?	□Highly	☑ Partially	☐ Not at all

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

	collection, appropriate	storage, transportation consideration for v	n, recovery, recycling	waste at all stages, inclu , treatment, and disposal including health and sa	with
		hose involved.			
				al and electronic equipme	
	ek the appro		priority by filling in hi	imbers like 1, 2, 3, 4,etc	., Ior
Check if	Number	in			Ī
applicable	priority orde				
		Take to recycling of	enter / resource recover	y facilities	
<b>√</b>	3	Take to landfill			
		Take to the retailer			
<b>✓</b>	2	Take to local chari	ty for re-use		
/	1	Take to second-har	nd shop for re-use		-
		Ship back to the ma	anufacturer		1
		Ship back to the ma			
		Recycle in another			
1	4	Do not know how	•		-
those invol	ved in e-wo	iste management (hai	ndling/sorting/resour	re health and safety aspected recovery/recycling)?	
those invol Currently, safety aspe	ved in e-wa there is n ects of thos	aste management (han no specific policies an e involved in e-waste	ndling/sorting/resoure nd regulations are in management.	ce recovery/recycling)?  n place to ensure health	
those invol Currently, safety aspe	ved in e-way there is needs of thos nuch amou	aste management (han no specific policies an e involved in e-waste ant of e-waste is general Estimated total volume generated	ndling/sorting/resoure nd regulations are in management.	ce recovery/recycling)?  n place to ensure health	
those involutional Currently, safety aspective Q-3 How in	ved in e-way there is needs of thos nuch amou	aste management (han to specific policies at the involved in e-waste ant of e-waste is general Estimated total volume	ndling/sorting/resource nd regulations are in management.  ated and recycled per % of collected by	ce recovery/recycling)? n place to ensure health  year?  % of volume recycled	
those involutions those involutions controlly, safety aspectives and the controlly of the c	ved in e-way there is needs of thos nuch amou	aste management (han no specific policies an e involved in e-waste ant of e-waste is general Estimated total volume generated	ndling/sorting/resource nd regulations are in management.  ated and recycled per % of collected by	ce recovery/recycling)? n place to ensure health  year?  % of volume recycled	
Currently, safety aspect Q-3 How in Type of e-vice Television Computer Mobile photon	there is nects of those much amou waste	aste management (han no specific policies an e involved in e-waste ant of e-waste is general Estimated total volume generated	ndling/sorting/resource nd regulations are in management.  ated and recycled per % of collected by	ce recovery/recycling)? n place to ensure health  year?  % of volume recycled	
Currently, safety aspect Q-3 How in Type of e-vertice Television Computer Mobile photographs Refrigerate	there is neets of those much amount waste	aste management (han no specific policies an e involved in e-waste ant of e-waste is general Estimated total volume generated	ndling/sorting/resource nd regulations are in management.  ated and recycled per % of collected by	ce recovery/recycling)? n place to ensure health  year?  % of volume recycled	
Currently, safety aspect Q-3 How many Type of e-vertice Television Computer Mobile photographs Refrigerate Washing many through the computer Mobile photographs and the computer Mobile photographs are through the computer Mobile photographs are through the computer Mobile photographs.	there is neets of those much amount waste	aste management (han no specific policies an e involved in e-waste ant of e-waste is general Estimated total volume generated	ndling/sorting/resource nd regulations are in management.  ated and recycled per % of collected by	ce recovery/recycling)? n place to ensure health  year?  % of volume recycled	
Currently, safety aspect of e-vice o	there is neets of those much amount waste	aste management (han no specific policies an e involved in e-waste ant of e-waste is general Estimated total volume generated	ndling/sorting/resource nd regulations are in management.  ated and recycled per % of collected by	ce recovery/recycling)? n place to ensure health  year?  % of volume recycled	
Currently, safety aspective aspectiv	there is neets of those much amount waste one one ones oners oners	aste management (han to specific policies are involved in e-waste is generated total volume generated (ton/year)  stitutional/technolog te policy for public hear	adling/sorting/resource nd regulations are in management.  ated and recycled per % of collected by permitted recycler  ical/ financial) faced th	year?  % of volume recycled in collected	and

III. 3R Goals for New and Emerging Wastes

Is this Goal relevant for your country?

**☑** Highly

 $\square$  Partially

 $\square$  Not at all

Implementing	g Ha Noi 3R Declaration (2013~2023)
Goal 14 En	ffective enforcement of established mechanisms for preventing illegal and
in	appropriate export and import of waste, including transit trade, especially of
ha	azardous waste and e-waste.
Q-1 What spe	ecific policies and regulations are introduced to prevent illegal import and export
of e-waste?	
_	s and regulations are under drafting and not issued yet. It will be issued in and prevent illegal import and export of e-waste and hazardous waste.
sea-port, land	have required number of well-trained custom or other officials (for airport. d border control, etc.) to track illegal export and import of e-waste? $\square$ No
Challenges (p Awareness Pr	policy/ institutional/ technological/ financial) faced in implementation: cogramme
	pilot projects, master plans and/or policies developed or under development – ites where relevant
	olicies/programmes/projects/master plans the government plans to undertake ive years (2015~2020)

Voluntary Progress/Achievements/Initiatives in

*Is this Goal relevant for your country?* ✓ Highly

MYANMAR

☐ Partially

 $\square$  Not at all

MYANMAR		

III. 3R Goal	s for New and Emerging Wastes	
Goal 15	Progressive implementation of " <b>extended producer responsibility</b> encouraging producers, importers, and retailers and other relevant fulfill their responsibilities for collecting, recycling, and dispos emerging waste streams, in particular e-waste.	stakeholders to
_	specific Extended Product Responsibility (EPR) policies are enacted none, then skip Q-2 below)	or introduced?
Q-2 Please	e provide a list of products and product groups targeted by EPR natio	onally?
Challenge	s (policy/ institutional/ technological/ financial) faced in implementa	tion:
0	reness Programme among public and product manufacture	uon.
_	of pilot projects, master plans and/or policies developed or under bsites where relevant	development –
_	policies/programmes/projects/master plans the government plans the gover	s to undertake
Is this God	al relevant for your country? ☑ Highly ☐ Partially	□ Not at all

MYANMAR		

III. 3R Goals	s for New and Emerging Wastes
Goal 16	<b>Promote the 3R concept</b> in health-care waste management.
	specific policies and regulations are in place for healthcare waste management? o specific policy but there are rules and regulations in place for healthcare waste ent.
Q-2 What	is the total annual government expenditure towards healthcare waste management
(US\$ per y	ear)?
-	
1.YCDC ( 2.MCDC ( 3.NPT DC	e agencies or authorities responsible for healthcare waste management. Yangon City Development Committee) Mandalay City Development Committee) (Naypyitaw Development Committee) ip Development Committees in remaining town
Q-4 What	is the common practice for disposal of healthcare wastes?
(Please che	ck the appropriate box and add if any other practice followed)
☑ open du	mping (untreated)
open bu	rning (untreated)
☑ ordinary	landfilling (untreated)
□ sanitary	landfilling (treated)
□ Low cos	st small scale incineration (do not meet air emission standards)
☐ Highly o	controlled air incineration (dedicated/modern medical waste incinerators)
☐ Other m	ethods (please specify names: )
Challenges Financial	s (policy/ institutional/ technological/ financial) faced in implementation: Assistance
	of pilot projects, master plans and/or policies developed or under development – bsites where relevant
-	policies/programmes/projects/master plans the government plans to undertake t five years (2015~2020)
Is this God	l relevant for your country? ☑ Highly ☐ Partially ☐ Not at all

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

MYANMAR	

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

Goal 17 Improve resource efficiency and resource productivity by greening jobs nation - wide in all economic and development sectors.

- Q-1 What specific policies and guidelines are introduced for product standard (towards quality/durability, environment/eco-friendliness, labour standard)?
- 1. Distribution and translation of energy management Handbook for ASEAN.
- 2. Trying to adopt ISO 50001 for Energy Management Standard.
- 3. Trying to prescribe Minimum Energy Performance Standard (MEPS) for Electrical Appliances.
- Q-2 What specific energy efficiency schemes are introduced for production, manufacturing and service sector?

ASEAN - Japan Energy Efficiency Partnership (AJEEP) Scheme cooperated with Energy Conservation Centre, Japan (ECCJ) and ASEAN Centre for Energy (ACE).

Q-3 What specific policies are introduced to create green jobs in product and waste sector? Specific Policies are not prescribed yet. We have drafted National Energy Efficiency and Conservation policy, strategy and Roadmap for Myanmar.

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

Low level of technology

Lack of financial mechanism

Need Concrete Structure and Planning

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

- Preparing of Energy Efficiency Guideline for industries.
- Develop Energy Efficiency Standards & Labeling for Appliances.

Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020)

To prescribe Minimum Energy Performance Standard (MEPS) for Air-Conditioner.

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

IV. 3R Goals for Cross-cutting Issues
Goal 18 Maximize co-benefits from waste management technologies for local air, water,
oceans, and soil pollution and global climate change.
Q-1 Please share how climate mitigation is addressed in waste management policies and
programmes for co-benefits?
Pollution of air, water and soil is mainly effected on climate change. Thus, controlling of
all pollution or management of waste is very important for reducing of climate change.
an polition of management of waste is very important for reading of emiliare entanger
Challenges (policy/ institutional/ technological/ financial) faced in implementation:
Technical Cooperation
Technical Assistance
Examples of pilot projects, master plans and/or policies developed or under development -
include websites where relevant
Myanmar Climate Change Alliance Programme
Important policies/programmes/projects/master plans the government plans to undertake
within next five years (2015~2020)
, ,
<i>Is this Goal relevant for your country?</i> ✓ Highly ☐ Partially ☐ Not at all

MYANMAR		

IV. 3R Goa	lls for Cross-cutting Issues			
Goal 19	Enhance <b>national and local k</b> <b>resource efficiency</b> , through stakeholders, including govern communities.	facilitating effective	ctive and dynamic link	ages among all
There is scientific  Q-2 Plead centers	at specific policies are introdent, scientific & research institution specific policies for encountry and research institutions in 3 are share the number and list in the areas of 3Rs (e.g., was an, recycling technologies, industry).	utions and privalurage triangula R areas.  t of dedicated ste minimizatio	te/business sector in 31 or cooperation between scientific institution, on technologies, eco-pr	R areas? In government, Or coordinating oducts, cleaner
_	es (policy/ institutional/ techno cdinate and cooperate among st		al) faced in implementa	tion:
	s of pilot projects, master plan vebsites where relevant	ıs and/or polici	es developed or under	development –
-	t policies/programmes/project xt five years (2015~2020)	s/master plans	the government plan	s to undertake
Is this Go	pal relevant for your country?	☑ Highly	☐ Partially	□ Not at all

MYANMAR		

IV. 3R Goals	s for Cross-cutti	ng Issues			
Goal 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.				
~	0	00	0		olders in the process to are involved in the
•	Please check a		munions. Will	en sianenoiaers	are mrotrea in the
☑ NGOs	`	,	□ Indu	strial Association	1
✓ Local (	Government		☐ Acad	lemic Institution	
☐ Others	, please add/sp	ecify (	)		
resource e	fficiency relat	ed promotional	activities? (Plea	se check the app	•
□ Very h	1gn	☑ Moderate	□ Low		☐ Almost Negligible
~		•			ts of 3R, sustainable appropriate box)
□ Very h	igh	☐ Moderate	☑ Low		☐ Almost Negligible
	s (policy/ insti ical/ financial)		logical/ financi	al) faced in impl	ementation:
-	of pilot proje bsites where i	· •	is and/or polic	ies developed or	under development –
Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020)					
Is this God	al relevant for	your country?	☑ Highly	☐ Partially	☐ Not at all

MYANMAR		
MIANWAK		

IV. 3R Goal	s for Cross-cutting Issues			
Goal 21	Integrate the 3Rs in formal well as non-formal education accordance with Education for	on such as co	mmunity learning	•
part of the There is r	de a list of formal programme academic curriculum? no formal programmes that a demic curriculum.			
communit managem	se provide an overview of the sy learning and development ent.  orogramme for non-formal economics.	(non-formal e	ducation) on 3R a	and sustainable waste
-	e provide a list of academic a of 3Rs and resource efficiency		nstitutions offering	PhD programmes in
have inte	e provide a list of managemo grated resource efficiency on n or course development?			
	es (policy/ institutional/ techno chnological/ financial)	ological/ financ	cial) faced in imple	mentation:
-	of pilot projects, master planebsites where relevant	ns and/or poli	cies developed or	under development –
-	policies/programmes/project at five years (2015~2020)	ts/master plan	s the government	plans to undertake
Is this God	al relevant for your country?	☑ Highly	☐ Partially	□ Not at all

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

MYANMAR	

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

Goal 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 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.

Q-1 Please list the name of the Ministries and major Government Agencies which are promoting 3R and resource efficiency as part of their policy, planning and developmental activities at local and national level.

Ministry of Environmental Conservation and Forestry, Ministry of Agriculture and Irrigation, Ministry of Industry, Ministry of Energy, Ministry of Ministry of Health, Ministry of Construction, Ministry of Health, Ministry of Education.

Q-2 What type of coordination mechanism are there among ministries and agencies for a resource efficient economic development?
☑ Official regular coordination meeting among ministries and agencies
☑ Official ad-hoc coordination meeting among ministries and agencies
☐ Informal meeting among ministries and agencies
☐ Other coordination mechanisms (please add/specify)
Challenges (policy/ institutional/ technological/ financial) faced in implementation:  Coordinate and cooperate among related Ministries  Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant -
Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020)
<i>Is this Goal relevant for your country?</i> ☑ Highly ☐ Partially ☐ Not at all

IV. 3R Goals for Cross-cutting Issues
Goal 23 Promote green and socially responsible procurement at all levels, thereby creating and expanding 3R industries and markets for environmentally-friendly goods and products.
Q-1 What specific policies are introduced to promote green and social responsible
procurement? Currently, there is no specific policies are introduced to promote green and social
Currently, there is no specific policies are introduced to promote green and social responsible procurement.
Q-2 Please provide details of eco-labelling schemes of your country.  Starting the Pilot Programme for Minimum Energy Performance System for Energy Labeling Schemes.
Q-3 Please provide a list of criteria for eco-labeled products and services in your country.
-
Q-4 Please provide the list of Ministries and major Government Agencies which have adopted green procurement policy.
Q-5 What % of municipalities have adopted the green procurement policy?
Challenges (policy/ institutional/ technological/ financial) faced in implementation: Coordinate and Cooperate
Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant
Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020)
Is this Goal relevant for your country? ☑ Highly ☐ Partially ☐ Not at all

MYANMAR		

IV. 3R Goals for Cross-cutting Issues				
Goal 24 Phase out harmful subsidies materials and water) and implementing the 3Rs and effort	<b>energy</b> , and ch	annel the freed fun	ds in support of	
Q-1 Are there any government subside unsustainable use of resources (raw man such programmes along with the resources implementing it.	terials, water, e	nergy)? If so, please	provide a list of	
Challenges (policy/ institutional/ technolo-	ogical/ financia	l) faced in implemen	tation:	
Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant -				
Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020)				
Is this Goal relevant for your country?	☐ Highly	☑ Partially	☐ Not at all	

MYANMAR		

IV. 3R Goal	s for Cross-cutting Issues
Goal 25	Protect public health and ecosystems, including freshwater and marine resources by eliminating illegal activities of open dumping, including dumping in the oceans, and controlling open burning in both urban and rural areas.
<b>Q-1 Is was</b> Yes	ste management a public health priority in your country?
(1) Th (2) Th (3) Th	are the rules and regulations to prevent open dumping and open burning of waste?  the City of Yangon Municipal Act (1922)  the City of Yangon Development Law (1990)  the City of Mandalay Development Law (2002)  the Nay Pyi Taw Development Law (2009)
(1)The (2) Th (3) Th (4) Th	the five most important rivers in terms of water quality (BOD values) passing najor cities and urban areas? Thanlwin river The Chindwin river The Sittaung river The Ayeyarwaddy river The Yangon river
water bodi (1) Th (2) Th	are the specific laws, rules and regulations in place to prevent littering in river and ies?  The Yangon Water-work Act (1885)  The Water Power Act (1927)  The Underground Water Act (1930)
Q-5 What	are the specific laws, rules and regulations in place to prevent marine littering?
	es (policy/ institutional/ technological/ financial) faced in implementation: ific policy, technological and financial assistance
_	of pilot projects, master plans and/or policies developed or under development – ebsites where relevant
-	t policies/programmes/projects/master plans the government plans to undertake at five years (2015~2020)
Is this God	al relevant for your country? ☑ Highly ☐ Partially ☐ Not at all

*Is this Goal relevant for your country?* ✓ Highly

MYANMAR	

 $\square$  Not at all

IV. 3R Goals	s for Cross-cutting Issues
Goal 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 Basel Convention, which contributes to the reduction of negative environmental impacts and the effective management of resources.
(1) Ste (2) Pla	are major recycling industries in your country? el mill industries stic factories per and puff factories
	e specify the regulation on transboundary movement of hazardous waste.  Chemical law (2013)
	regulation (under drafting ), which would be issued in near future.
~	er government has restriction on import of non-hazardous waste or quality control gardous waste, please list it up.
Q-4 Does y	your government restrict import of remanufactured goods?
~	your government regard remanufactured goods as secondhand goods, and regulate dhand goods?
_	s (policy/ institutional/ technological/ financial) faced in implementation: fic policy, technological and financial assistance
_	of pilot projects, master plans and/or policies developed or under development – bsites where relevant
_	policies/programmes/projects/master plans the government plans to undertake t five years (2015~2020)

☐ Partially

<b>Voluntary Progress/Achievements/Initiatives in</b>	
Implementing Ha Noi 3R Declaration (2013~2023	(

MYANMAR	
MITANWIAK	

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

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

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

Data Type	Data Availability			Monitoring Base	
	Good	Very limited	No data exist	Good	Not good
Waste generation		1			1
Material flow		1			1
Cyclical use		<b>√</b>			<b>√</b>
Amount of final disposal		1			<b>√</b>
Disposal to land		1		1	
Direct disposal to water		<b>√</b>			1
Import of waste	<b>√</b>			1	
Export of waste	<b>√</b>			1	
Total landfilled waste		1			1
Import of recyclables	1			1	
Export of recyclables	1			1	
Hazardous waste generation (solid, liquid, sludge, etc.)		1			1
e-waste generation		1			✓

(Please add any other date type relevant to your country)

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

There is no current and planned government policies and programme to strengthen data and information availability in waste sector. But, government would be planned for this in near future.

Challenges (policy/ institutional/ techno	logical/ financ	ial) faced in implen	nentation:	
Need specific policy, technological and fir	nancial assista	nce		
Examples of pilot projects, master plan	ns and/or poli	cies developed or u	nder development –	
include websites where relevant				
-				
Important policies/programmes/projects/master plans the government plans to undertake				
within next five years (2015~2020)				
-				
Is this Goal relevant for your country?	☑ Highly	☐ Partially	☐ Not at all	

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

IV. 3R Goals for Cross-cutting Issues				
Goal 28 Promote heat recovery (waste-to-energy), in case wastes are not re-usable or recyclable and proper and sustainable management is secured.				
Q-1 What are the government policies and programmes, including incentives, for waste-to-energy programmes?  There would be a programme undertaken by Yangon City Development Committee (YCDC) for waste to energy.				
Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant  Two new waste disposal plant will use Yangon's trash to generate electricity and natural				
gas for vehicles with construction starting as early as November 2015. This project would be implemented by Yangon City Development Committee.				
Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020)				
<i>Is this Goal relevant for your country?</i> $\square$ Highly $\square$ Partially $\square$ Not at all				

MYANMAR	

IV. 3R Goals for Cross-cutting Issues				
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.				
Q-1 Please provide a list of on-going bilateral/multi-lateral technical cooperation in 3R areas?				
Bilateral technical cooperation with GIZ, ADB and JICA in 3R areas.				
Q-2 What actions are being taken to promote inter-municipal or regional cooperation in areas of waste exchanges, resource recovery, recycling, waste-to-energy and trade of recyclables?				
Challenges (policy/ institutional/ technological/ financial) faced in implementation: (technological/ financial)				
Examples of pilot projects, master plans and/or policies developed or under development – include websites where relevant				
1.Technical cooperation of clean air smaller cities with GIZ.				
2. Development of waste water quality standard with ADB.				
3. The project of monitoring the sampling points of Hlaing River of Yangon and Dothtawady river of Mandalay for pollution of water condition with JICA.				
Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020)				
<i>Is this Goal relevant for your country?</i> ✓ Highly ☐ Partially ☐ Not at all				

MYANMAR		

IV. 3R Goals	ls for Cross-cutting Issues			
Goal 30	Pay special attention to issues including SIDS in achieving sustain	•	•	developing countries
States) cou -	se describe any past and on-going of untries in 3R areas.		·	
and sustain	e list 3R related projects linked to c inable tourism. (This is <u>to be report</u>	ed by SIDS coun	tries only)	
Challenge: -	es (policy/ institutional/ technologic	al/ financial) fac	ed in imple	mentation:
-	s of pilot projects, master plans an ebsites where relevant	d/or policies de	veloped or	under development –
-	t policies/programmes/projects/mas xt five years (2015~2020)	ster plans the g	government	plans to undertake
Is this God	al relevant for your country? $\Box$ H	lighly 🗹 F	Partially	□ Not at all

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

IV. 3R Goals for Cross-cutting Issues				
Goal 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.				
Q-1 What specific policies, programme, including pilot projects, are implemented to promote				
3R+ "Return" concept? (This is to be reported by SIDS countries only)				
Challenges (policy/ institutional/ technological/ financial) faced in implementation:				
(Technological/ institutional)				
Examples of pilot projects, master plans and/or policies developed or under development -				
include websites where relevant				
Soft drink manufacturing plant				
Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020)				
Is this Goal relevant for your country? ☑ Highly ☐ Partially ☐ Not at all				

MYANMAR		

IV. 3R Goals for Cross-cutting Issues				
Goal 32	Complete elimination of illegal engagement of children in the <b>informal waste sector</b> and gradually <b>improve</b> the working conditions and livelihood security, including <b>mandatory provision of health insurance</b> , for all workers.			
Q-1 What	is the approximate market size (in US\$) of the informal waste sector?			
Systemati	ic studies are not implemented yet.			
<b>Q-2</b> Numl	ber of annual labor inspections in waste sector?			
-				
Q-3 Is hed	alth insurance a mandatory to all informal workers in waste sector by law?			
engageme There is	t specific policies and enforcement mechanisms are in place to prevent illegal ent of children in waste sector? no specific policy to prevent illegal engagement of children in waste sector but l by the child law 1993 Myanmar.			
Q-5 Numl	ber of landfill sites accessible to register waste pickers?			
-				
	age life span of informal waste workers? e no studies for them.			
<b>Q-7</b> Any g	government vaccination programmes for informal waste workers?			
-				
Q-8 Any measures:	public awareness programmes for informal waste workers on health and safety?			
There are	e some programme conducted by NGOs.			
Challenge (financial)	es (policy/ institutional/ technological/ financial) faced in implementation:			
_	of pilot projects, master plans and/or policies developed or under development – ebsites where relevant			
_	t policies/programs/projects/master plans the government plans to undertake within years (2015~2020)			
Is this Co	al relevant for your country?  Highly  Partially  Not at all			

Implementing Ha Noi 3R Declaration (2013~2023)	

**Voluntary Progress/Achievements/Initiatives in** 

Voluntary Progress/Achievements/Initiatives i	n
Implementing Ha Noi 3R Declaration (2013~2	023)

IV. 3R Goals	s for Cross-cutting Issues			
Goal 33	Promote 3Rs taking into acco	ount gender consi	derations.	
Q-1 Please give a brief assessment on how the national, provincial and municipal governments incorporate gender considerations in waste reduction, reuse and recycle.				
Generally	, there is no gender discrimin	nation in 3R.		
Challenge.	s (policy/ institutional/ techno	logical/ financia	l) faced in implem	entation:
-	of pilot projects, master plan Obsites where relevant	ns and/or policion	es developed or ui	nder development –
Important policies/programmes/projects/master plans the government plans to undertake within next five years (2015~2020)				
Is this God	ul relevant for your country?	□ Highly	☑ Partially	□ Not at all