

United Nations Centre for Regional Development



Ministry of the Environment, Government of Japan

Provisional Programme of Experts' Workshop for the Second State of the 3Rs and Circular Economy in Asia and the Pacific

Date of Experts Workshop VII: 21 September 2021 (Tuesday)

Japan Time: 14:30-16:00 PM

Format: WeBex (Online Platform)

Theme: Healthcare and Medical Waste

Co-organizers: Ministry of the Environment, Japan (MOEJ) United Nations Centre for Regional Development (UNCRD) of Division for Sustainable Development Goals (DSDG) / UN DESA

*Duration of Webinars: Approximately 90 minutes

PROGRAMME OF WORKSHOP

Date: 21 September 2021 (Tuesday)

Japan Time: 14:30-16:00 PM

Theme: Healthcare and Medical Waste

Short Introduction

This workshop is on the sub-section "3.2.7. Healthcare and Medical Waste" of the report of "The Second State of the 3RS in Asia and the Pacific - Advancing Circular Economy in Asia and the Pacific Towards Achieving the Sustainable Development Goals (SDGs) –".

This workshop aims to describe progress on describe national policies, programmes and its implementation to eliminate illegal disposal and unproper treatment of healthcare and medical waste.

Reference 1: Table of Content of report "The Second State of the 3RS in Asia and the Pacific - Advancing Circular Economy in Asia and the Pacific Towards Achieving the Sustainable Development Goals (SDGs) –"

Reference 2: Table of Content of chapter "Healthcare and Medical Waste".

Discussion Points

Discussion Points	
	<u>Chair</u> :
> Any major issues including new emerging	Mr. Vijay
issues that needs to be highlighted in this	Prakash Yadav,
section.	Additional
	Director,
\blacktriangleright Any potential source of data, information,	Central
reports which could be useful for developing	Pollution
this chapter.	Control Board,
	Delhi, India
➢ Any specific box, graph and chart that could	
be included in this chapter. (For example, any	
new policy initiative that is very effectively	

	working in a country should be add in box)	
	working in a country should be add in boxy	<u>Facilitator /</u>
		Moderator:
		Mr. Choudhury
<u>Expe</u>	<u>rts</u>	Rudra Charan
		Mohanty,
•	Dr. Trung Thang Nguyen, Deputy Director	Environment
	General, Institute of Strategy and Policy on	Programme
	Natural Resources and Environment	Coordinator,
	(ISPONRE), Ministry of Natural Resources	United Nations
	and Environment (MONRE), Vietnam	Centre for
•	Ms. Youthika Puri, Working as Scientist 'D',	Regional
	Central Pollution Control Board, Delhi, India	Development
•	Ms. Thi Phuong Anh Duong, Researcher,	(UNCRD)-
	Deputy Head, Department of Environment and	DSDG/UN
	Sustainable Development, Institute of Strategy	DSD070N DESA, Japan
	and Policy on Natural Resources and	DESA, Jupun
	Environment (ISPONRE), Ministry of Natural	
	Resources and Environment (MONRE),	Rapporteur:
	Vietnam	
•	Dr Malini R Capoor, Professor Microbiology,	Prof. Sadhan Kumar Ghosh,
	In-charge Biomedical Waste, VMMC and	President,
	Safdarjung Hospital, New Delhi, India	International
•	Prof. Iris Borowy, Distinguished Professor,	
	Center for the History of Global Development,	Society of Waste
	College of Liberal Arts, Shanghai University,	Management, Air and Water
_	PR China	
•	Mr. Guilberto Borongan, Head of Waste and	(ISWMAW), Duofoggan
	Resource Management Cluster, Regional	Professor,
	Resource Centre for Asia and the Pacific (AIT	Jadavpur Uningensite
	RRC.AP) Asian Institute of Technology,	University,
_	Thailand Mr. Huggrin, Brahand, Basianal, Advisor	Kolkata, India
•	Mr Hussain Rasheed, Regional Advisor	and Dr. Anuman
	WASH and Climate Change, World Health	Dr. Anupam
	Organization, Office for Southeast Asia	Khajuria,
	region, India	Researcher,
•	Ms. Misato Dilley, Associate Expert, United	United Nations
	Nations Environment Programme,	Centre for
	International Environmental Technology	Regional
	Centre (UNEP-IETC), Japan	Development
•	Ms. Miho Hayashi, Programme Manager,	(UNCRD)-
	CCET, Institute for Global Environmental	DSDG/UN
	Strategies (IGES), Japan	DESA, Japan

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• Duct Chinishi Cabai Vice Ducsidout			
• Prof. Shinichi Sakai , Vice President,			
Advanced Science, Technology &			
Management Research Institute of Kyoto			
(ASTEM), Japan			
• Mr. Amit Jain, Managing Director, IRG			
Systems South Asia Pvt. Ltd, India			
• Mr. Juipei Yabushita, Senior Environmental			
Engineer, Office for Promotion of Sound			
Material-Cycle Society, Environmental			
Regeneration and Material Cycles Bureau,			
Ministry of the Environment, Japan			
• Mr. Takaaki Ito, Director, Office for			
Promotion of Sound Material-Cycle Society,			
Environmental Regeneration and Material			
Cycles Bureau, Ministry of the Environment,			
Japan			
• Mr. Takayuki Shigematsu, Deputy Director,			
Office for Promotion of Sound Material-Cycle			
Society, Environmental Regeneration and			
Material Cycles Bureau, Ministry of the			
Environment, Japan			
• Mr. Koji Maeshima, Deputy Director, Office			
for Promotion of Sound Material-Cycle			
Society, Environmental Regeneration and			
Material Cycles Bureau, Ministry of the			
Environment, Japan			
• Mr. Yasuki Yamamoto, Senior Environment			
Engineer, Office for Promotion of Sound			
Material-Cycle Society, Environmental			
Regeneration and Material Cycles Bureau,			
Ministry of the Environment, Japan			
End of Workshop			

Reference 1: Table of Contents of the report

"The Second State of the 3RS in Asia and the Pacific - Advancing Circular Economy in Asia and the Pacific Towards Achieving the Sustainable Development Goals (SDGs) –"

1. Background and Scope of Work

1.1. About the State of 3Rs in Asia and the Pacific Project

1.2. Regional 3R and Circular Economy Forum in Asia and the Pacific,

Ha Noi 3R Declaration, and 3R Monitoring Performance Indicators

1.3. Structure of this Report

2. Urgent Needs and Multiple Benefits of Implementing 3Rs and Circular Economy Approach in Asia and the Pacific

2.1. 3R and Resource Efficiency as the Heart of Circular Economy

2.2. Key Factors for Promoting Circular Economy in Asia and the Pacific

2.2.1. Circular Economy towards Sufficiency Economy

2.2.2. Sound Material Flow and Accounting towards Sufficiency Economy

2.2.3. Technology as a Driver for Clean Energy and Green Industry towards Sufficiency Economy

2.2.4. The Importance of Public-Private-Partnership (PPP) for Advancing Circular Economy

2.2.5. 3Rs and Circular Economy under COVID-19 Pandemic

This sub section will aim to address what 3Rs and Circular Economy can offer aftermath of COVID-19

3. Trends of 3R and Circular Economy in Asia and the Pacific

3.1. Trends in 3Rs and Waste Management Policies and Responses This part section will mainly build on by updating the First State of the 3Rs in Asia and the Pacific by addressing the same set of nine indicators selected from the Ha Noi 3R Declaration (2013-2023).

3.1.1. Reduction in the Quantity of Municipal Solid Waste Generated (Goal 1)

3.1.2. Increasing Recycling Rate of Recyclables (e.g., plastic, paper, metal, etc.) (Goal3)

3.1.3. Inventory of Hazardous Waste (Goal 9)

3.1.4. Agricultural Biomass Waste Management (Goal 11)

3.1.5. Eliminating Marine Plastics (Goal 12)

3.1.6. E-Waste Management (Goal 13)

3.1.7. Implementation of Extended Producer Responsibility (EPR) (Goal 15)

3.1.8. Improving Resource Efficiency and Resource Productivity (Goal 17)

3.1.9. Co-benefits for Local Air, Water, Oceans, and Soil Pollution and Global Climate Change (Goal 18)

3.2. Growing Volume and Diversification of Waste Streams with Presence of New Emerging Waste Streams

This section will focus on the emerging waste streams and issues corresponding to the goals and indicators of the Ha Noi 3R Declaration (2013-2023)

(SDG Tier1 and Tier 2 indicators will be used as applicable for 3.2.1. to 3.2.5.)

- 3.2.1. Plastic Waste
- 3.2.2. Electronic waste
- 3.2.3. Chemical and Hazardous Waste
- 3.2.4. Construction and Demolition Waste (including Disaster waste)
- 3.2.5. Agricultural Biomass Waste and Livestock Waste
- 3.2.6. Food Waste
- 3.2.7. Healthcare and Medical Waste
- 3.2.8. Wastewater Treatment
- 3.2.9. Data Issues on new emerging waste streams

3.3. Conventional and Frontier Technologies in Advancing 3Rs and Circular Economy in Asia-Pacific

This section will address policy and technology choices made countries in following areas

3.3.1. Waste-to-Energy

- 3.3.2. Biobased Plastics and Biodegradable Plastics
- 3.3.3. Used Tire for Roads Construction
- 3.3.4. Plastics as Alternative Timber (for example-Case of Australia)
- 3.3.5. Application of Smart Technology
- 3.3.6. End of Life Batteries
- 3.3.7. Carbon Neutralization Technology

3.3.8. Assessment of world cases and best practices of circular economic utilization of food waste

3.4. Progress towards Implementation of the Ha Noi 3R Declaration (2013-2023)

3.4.1. 3R Policy Implementation in Asia and the Pacific

This sub-section will address policy progress in 3Rs and circular economy among countries

3.4.2. Nationally Implemented 3R-Related Programmes, Projects, and Master Plans

- Introduction of a fee for plastic bags in Japan / New Integrated Plastics Resource Management Policy of Japan (for example)

- Similar cases in Asia and the Pacific

4. Experts' Assessment of Policy Readiness for Related Ha Noi 3R Goals and Progress at National Level

This chapter will have comprehensive overview of the countries' progress made on the Ha Noi 3R Goals (2013-2023)

5. Main Recommendations

Reference 2: Table of Content of the Chapter "Healthcare and Medical Waste"

3.2.7. Healthcare and Medical Waste

3.2.7.1. Overall Trends in Asia and the Pacific

(Include - The status of resource circulation and waste management in each country/ region, together with comparative data of each indicator.)

- i. Definition (Include varies country by country)
- ii. Types of healthcare and medical waste by sources (*Include hospitals, individual houses etc.*)
- iii. Quantification and Generation of healthcare and medical waste generation (2020-2030) in the region
- iv. Negative impact on public health and environment

3.2.7.2. Local and National Policies, Legislation and Regulations in Asia and the Pacific

(Include - Organized information of policies and regulations designed for each sector in each region/ country. In particular, it is important to make readers understand what are common & similar polices and challenging issues.)

- i. Local, regional and national policies and regulations including policy and institutional gaps
- ii. Occupational safety and health standards of waste workers (*Include SDG 3: Ensure healthy lives and promote well-being for all at all ages*)
- iii. Protective measures of informal and formal workers with regulatory frameworks.

3.2.7.3. Circular Economic opportunities of healthcare and medical waste (Include- The status of achievement in each sector based on Hanoi 3R Declaration and revealed problems to be solved. The section should consolidate Hanoi declaration and SDGs goals, and a discussion on the Post Hanoi declaration.)

(Include following indicators- Ha Noi 3R Goal 16: Promote the 3R concept in health-care waste management; and Ha Noi 3R Goal 22: Integrate the 3R concept in relevant policies and programmes, of key ministries and agencies such asMinistry of Health and other relevant ministries towards transitioning to a resource efficient and zero waste society.

Include -SDG Target 12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment)

- i. Amount of illegal dumping and/or inappropriate disposal of medical and healthcare waste and its sites
- ii. Role of the Informal Sector
- iii. Treatment technology, methods and capacity, and final disposal.
- iv. Insights from a various case study
- v. Emergency response during pandemic such as COVID-19

3.2.7.4. Conclusion and Way Forward