



PROVISIONAL PROGRAMME

SIXTH REGIONAL 3R FORUM IN ASIA AND THE PACIFIC

16-19 August 2015, Malé, Maldives

Venue: Dharubaaruge (Malé)

Theme: *3R as an Economic Industry - Next Generation 3R Solutions for a Resource Efficient Society and Sustainable Tourism Development in Asia and the Pacific*

Organizers

Ministry of Environment and Energy (MEE), Maldives

Ministry of Tourism (MoT), Maldives

Ministry of the Environment (MOE), Japan

United Nations Centre for Regional Development (UNCRD), Japan

Supporting Organizations

United Nations Environment Programme- IETC and IRP

Environmental Protection Agency Ministry of Environment and Energy Maldives (EPA/MEE)

Japanese Technical Cooperation Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries (J-PRISM / JICA)

Institute for Global Environmental Strategies (IGES)

Zero Waste South Australia

South Asia Co-operative Environment Programme (SACEP)

Secretariat of the Pacific Regional Environment Programme (SPREP)

Forum Co-Chairs:

H.E. Mr. Ahmed Adeeb Abdul Gafoor, Vice President of the Republic of Maldives

H.E. Mr. Thoriq Ibrahim, Minister of Environment and Energy, Maldives

PRE-EVENTS/SIDE EVENT



PROVISIONAL PROGRAMME

(1) 3R PRE-EVENT of the GOVERNMENT OF MALDIVES

“MALDIVES NATIONAL 3R DAY”
Theme: “Our Environment - Our Economy, Our Future”

Date: 16 August 2015 (Sunday)

Time: 08:45 – 12:00

Venue: Rannaban’deyri Hall

Co-Chairs:

H.E. Mr. Ahmed Adeeb Abdul Gafoor, Vice President of the Republic of Maldives

H.E. Mr. Thoriq Ibrahim, Minister of Environment and Energy, Maldives

(Signing of Declaration by Resorts in Maldives for the Promotion of 3Rs and Resource Efficiency towards Protection of Local Environment and Marine Ecosystem)

(2) 3R PRE-EVENT of the GOVERNMENT OF MALDIVES SAAFU RAAJJE DECLARATION

Signing of Saafu Raajje Declaration by the City and Atoll Councils of the Maldives

Date: 16 August 2015 (Sunday)

Time: 14:30 – 16:30

Venue: Faashanaa Maalan

Chair:

H.E. Mr. Abdulla Jihad, Minister of Finance and Treasury, Maldives

Guests of Honour:

H.E. Mr. Thoriq Ibrahim, Minister of Environment and Energy, Maldives

H.E. Mr. Umar Naseer, Minister of Home Affairs, Maldives

Signing of a declaration by the city and atoll councils of the Maldives, to actively participate in the “Saafu Raajje” (Clean Maldives) initiative to promote environmental friendly and sustainable waste management practices within the islands of the Maldives

(3) SIDE EVENT of MINISTRY OF THE ENVIRONMENT, JAPAN

Theme: “2015 Male Workshop on Multilayer 3R Partnerships and Cooperation among Asia-Pacific Cities ~ Building on the Outcomes of 2014 Chiba Workshop towards Realizing Smart, Resilient, Inclusive, Low Carbon and Sustainable Cities and Communities~”

Co-organized by: MOE-Japan (By Invitation Only)

Date: 16 August 2015 (Sunday)

Time: 15:00 – 17:00

Venue: Room 8



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(4) NGO EVENT

Theme: “The Sixth Asia 3R Citizens Forum ~ Creating a Closed-Loop Community based on 3Rs practice in Asia and Pacific Islands ~”

Co-Organized by : Live & Learn Maldives and Asia 3R Citizens Network

Date: 16 August 2015 (Sunday)

Time: 13:30-18:00

Venue: Room 2



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DAY 1: 17 August 2015 (Monday)	
Time / Room	Programme
08:00-09:00	Registration
09:00-10:00	Opening Ceremony
Room: Rannaban'deyr i Hall (Ground Floor)	<p>1. Welcome Remarks</p> <ul style="list-style-type: none"> ▪ H.E. Mr. Thoriq Ibrahim, Minister of Environment and Energy, Maldives (10 min) <p>2. Opening Remarks</p> <ul style="list-style-type: none"> ▪ H.E. Mr. Yasuhiro Ozato, State Minister of the Environment (MOE), Japan (5 min) ▪ Ms. Chikako Takase, Director, United Nations Centre for Regional Development (UNCRD) (5 min) ▪ Ms. Shoko Noda, United Nations Resident Coordinator, Maldives (5 min) <p>3. Keynote Address by the Guest of Honour</p> <ul style="list-style-type: none"> ▪ H.E. Mr. Ahmed Adeeb Abdul Ghafoor, Vice President of the Republic of Maldives (20 min) <p>4. Group Photograph</p>
10:00-10:30	<i>Inauguration of the International 3R Exhibition by H.E. Mr. Ahmed Adeeb Abdul Ghafoor, Vice President of the Republic of Maldives; H.E. Mr. Thoriq Ibrahim, Minister of Environment and Energy, Maldives; H.E. Mr. Yasuhiro Ozato, Ministry of the Environment, Japan & Coffee/Tea Break</i>
10:30-12:30	PLENARY SESSION 1: Evolving 3R Trends and Developments in Asia and the Pacific – How do they matter in post-2015 development context?
Room: Rannaban'deyr i Hall (Ground Floor)	<p>Presentation of Background Paper (1) : <i>Evolving 3R Policies and Trends in Asia and the Pacific ~ A Comprehensive Analysis from Tokyo 3R Forum (2009) to Surabaya 3R Forum (2014)</i></p> <ul style="list-style-type: none"> - by Dr. Prasad Modak, President, EMC-India (15 min) <p>Presentation of Background Paper (2): <i>Evolving Resource Efficient Economies in Asia and the Pacific ~ 3Rs in Macro-Economic Policies – Cases</i></p> <ul style="list-style-type: none"> - by Dr. Heinz Schandl, Senior Science Leader, Commonwealth Scientific and Industrial research Organisation (CSIRO), Australia (15 min) <p>Presentation of Background Paper (3): <i>Comprehensive 3R Policy</i></p>
	<p><u>Session Chair:</u> H.E. Mr. Thoriq Ibrahim, Minister, Ministry of Environment and Energy, Maldives</p> <p><u>Facilitator / Moderator:</u> Mr. C.R.C. Mohanty, UNCRD</p>



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Framework towards a Sound Material Cycle Society in Japan

- by **Mr. Soichiro Seki**, Vice Minister for Global Environmental Affairs, Ministry of the Environment, Japan (10 min.)

Presentation (4) : Environmental Management for Sustainable Development: Maldives Environmental Management Project - A Case Study for Promoting 3R in Small Islands

- by **Mr. Ajwad Musthafa**, Permanent Secretary, Ministry of Environment and Energy, Maldives (10 min.)

Presentation (5) : Evolving 3R trends vis-à-vis the Sustainable Development Goals

- by **Ms. Tomoko Nishimoto**, Regional Director, ILO Regional Office for Asia and the Pacific (10 min.)

Panel Discussion: (60 min)

- **Mr. Ali Amir**, Deputy Minister, Ministry of Environment and Energy, Maldives
- **Ms. Dorji Choden**, Minister, Ministry of Works and Human Settlement, Bhutan
- **Mr. Kazunobu Onogawa**, Director, IGES Centre Collaborating with UNEP on Environmental Technologies
- **Mr. Saraswati Prasad**, Joint Secretary, Ministry of Drinking Water and Sanitation, India
- **Mr. Ding Chun**, Vice Mayor, Yangzhou City, PR China

Discussion Points:

1. A number of Asia and Pacific countries are putting efforts and making considerable investments to integrate 3Rs and resource efficiency into their national development plans and policies, including climate, energy, industry, product and procurement policies. What critical lessons we do learn from Tokyo to Surabaya in terms of major challenges and barriers in policy, regulations, institution, technology and financing domain?
2. Referring to background paper 2, what useful lessons we do learn from these cases of macro-economic policies? What useful insight they provide in developing effective policy options and institutions towards building resource efficient economies?
3. The outcome of Ha Noi 3R Forum (2013) and Surabaya 3R Forum (2014) recognized the fact that sustainable resource use would be instrumental for Asia-Pacific to ensure prosperity and human development in a world in which natural resources (virgin raw materials, water, minerals, timbers,

Rapporteur:

Prof. Shun Fung Chiu,
De La Salle University,
The Philippines



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	etc.) are more constrained and the absorptive capacity of natural ecosystems is decreasing rapidly. What type of new and innovative approaches should the member countries of the Regional 3R Forum embark upon to make 3R and resource efficiency a logical thread to health and social well-being, economic prosperity, and environmental protection in the post-2015 era?	
12:30-13:30 Room: Dhoshimeynaa Hall (Second Floor)	NETWORKING LUNCH Special Luncheon Session of International Resource Panel (IRP)/UNEP on 3Rs (Part-1)	
13:30-15:30	PLENARY SESSION 2 Enabling a 3R Science-Policy-Business Interface in Building Smart, Resilient, Inclusive, Low Carbon and Sustainable Cities and Communities	
Room: Rannaban'deyri Hall (Ground Floor)	<p>Presentation of Background Paper (1) : <i>Enabling Frameworks for Promotion of 3R Science and Technologies and Technology Transfer</i></p> <ul style="list-style-type: none"> - by UNEP-IETC (Presented by Mr. C.R.C. Mohanty, UNCRD) (15 min) <p>Presentation (2) : <i>Need for Science-Policy Interface for 3R implementation</i></p> <ul style="list-style-type: none"> - by Prof. Shin-ichi Sakai, Graduate School of Engineering, Kyoto University (10 min) <p>Presentation (3): <i>Model Eco-Cities with 3R Science-Policy-Business-Community interface ~ Case of Kitakyushu and Kawasaki City of Japan</i></p> <ul style="list-style-type: none"> - jointly by Mr. Junichi Sono, Kitakyushu city and Mr. Akira Ogihara, Kawasaki City (10 min) <p>Presentation (4): <i>Sustainable waste management and Energy and Resource Efficiency~ Case of Singapore</i></p> <ul style="list-style-type: none"> - by Mr. Koh Kim Hock, Director General, Environmental Protection, National Environment Agency of Singapore (10 min) <p>Presentation (5): <i>3R for Resiliency~ Prospects in Bangladesh</i></p> <ul style="list-style-type: none"> - by Mr. A.H. Md. Maqsood Sinha, Executive Director, Waste Concern (10 min) 	<p><u>Session Chair:</u> H.E. Dr. Mohamed Muizzu, Minister, Ministry of Housing and Infrastructure, Maldives</p> <p><u>Facilitator / Moderator:</u> Prof. P. Agamuthu, University of Malaya</p> <p><u>Rapporteur:</u> Prof. Shun Fung Chiu, De La Salle University, The Philippines</p>



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Presentation (6): Capacity Development and Coordination of 3R in the South Asian Countries

- by **Dr. Muhammad Khurshid**, Director General-SACEP (10 min)

Panel Discussion: (55 min)

- **Mr. Mohamed Faiz**, Minister of State, Ministry of Housing and Infrastructure, Maldives
- **Mr. Jagdeep Singh Deo Karpal Singh**, State Minister /Executive Councilor, Town & Country Planning and Housing, Penang State Government, Malaysia
- **Mr. Vaughan Levitzke**, Chief Executive, Zero Waste South Australia
- **Ms. Jacqueline A. Caancan**, Regional Director, Environmental Management Bureau-Region IX, Department of Environment and Natural Resources, The Philippines
- **Mr. Supachai Tantikom**, Advisor to Governor of Bangkok, Bangkok Metropolitan Administration, Thailand
- **Mr. Kazuyoshi Okazawa**, Chairman, Japan Federation of Waste Management Associations and Foundations

Discussion Points:

1. To what extent Asia-Pacific countries have enabled science based 3R policy making at national and local level in addressing the growing and complex waste management issues?
2. What is our scientific insight to the role of 3R in protecting the urban ecosystem and enhancing resiliency of cities against the climatic impacts and increasing frequency of natural disasters?
3. Business and cities are closely tied to each other for their own success, survival and sustainability. Pursuing 3R as an economic industry can provide multiple benefits for cities and their citizens – (a) entrepreneurship development, new business opportunities and green jobs; (b) quality environment and life through improved and scientific management of various waste streams, and (c) inclusiveness. What are the critical enabling factors to promote 3R as an economic industry? What coordinated actions are necessary among the scientific (R & D), government, private/business sector, and communities/consumers?
4. What specific lessons do the cases of Kitakyushu, Kawasaki and Singapore provide us in this regard?
5. How 3R and waste management could be incorporated in city planning in urban development in Maldives?

15:30 – 16:00

Coffee/Tea Break



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DAY 1: 17 August 2015 (Monday)		
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16:00-18:00	PLENARY SESSION 3 Sustainable Tourism Industry in SIDS ~ Benefitting from 3R and Resource Efficiency	
Room: Rannaban'deyr i Hall (Ground Floor)	<p>Presentation of Background Paper (1): Contribution of 3Rs in Sustainable Tourism Development and Protection of Marine Ecosystem ~ Win-Win Solutions through 3R as an Economic Industry</p> <ul style="list-style-type: none"> - by Prof. Shun Fung Chiu, De La Salle University, The Philippines (15 min) <p>Presentation (2): Tourism Industry and Marine Ecosystem – Challenges and Opportunities for 3R promotion~ Case of Maldives</p> <ul style="list-style-type: none"> - by Ministry of Tourism, Maldives (10 min) <p>Presentation (3): Ecologically Sustainable Tourism – Model Management Cases from Global Experience (video message)</p> <ul style="list-style-type: none"> - by Mr. Taleb D. Rifai, Secretary-General, UN World Tourism Organization (UNWTO) (10 min) <p>Presentation (4): Benefits of 3Rs for Marine Ecosystem Services and Tourism Industry ~ Cases of Pacific Island Countries</p> <ul style="list-style-type: none"> - by Ms. Ma Bella Guinto, SPREP, Apia-Samoa (10 min) <p>Presentation (5): Introducing the Outcomes of the Maldives National 3R Day ~ “Our Environment – Our Economy, Our Future”</p> <ul style="list-style-type: none"> - by Mr. Ahmed Murthaza, Director General, Waste Management and Pollution Control Department, Ministry of Environment and Energy, Maldives (10 min) <p>Presentation (6): Managing Plastic Wastes in Small Island Developing States (SIDS) – Cases of Mauritius</p> <ul style="list-style-type: none"> - by Mr. Kowlessar Prakash, Director, Solid Waste Management Division, Ministry of Local Government and Outer Islands, Mauritius (10 min.) <p>Panel Discussion: (55 min)</p> <ul style="list-style-type: none"> • Mr. Samuel Manetoali, Minister, Ministry of Environment, Climate Change, Disaster Management and Meteorology, Solomon Island • Dr. Pasu Loharjun, Director General, Ministry of Industry, Thailand • Ms. Yuko Sakita, Chief Director, NPO “GENKI Network for Creating a Sustainable Society” (Asia 3R Citizens Network) • Mr. Moosa Zameer, Deputy Director General, Ministry of Tourism, 	<p><u>Session Chair:</u> H.E. Mr. Ahmed Adeeb Abdul Gafoor, Vice President of the Republic of Maldives</p> <p><u>Facilitator / Moderator:</u> Mr. Surya Prakash Chandak, Honorary Director, Centre for Development Communication, India</p> <p><u>Rapporteur:</u> Prof. Shun Fung Chiu, De La Salle University, The Philippines</p>



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	<p>Maldives</p> <ul style="list-style-type: none"> • Mr. Ahmed Nazeer, Secretary General, Maldives Association of Tourism Industry, Maldives <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. What are the innovative financing and technology choices for 3R promotion in tourism industry? 2. What does our scientific insight point to us on the adverse economic impacts of plastic wastes in SIDS's tourism sector? 3. How can SIDS pursue 3R as an economic industry in benefitting their tourism and employment sector? 4. In "S.A.M.O.A. Pathway," the outcome document of the 3rd International Conference on Small Island Developing States, 1-4 Sep 2014, Apia, Samoa, UN member countries have recognized that sustainable tourism represents an important driver of sustainable economic growth and decent job creation. How can 3R contribute towards resilient and sustainable tourism? 	
19:30-21:30	<p>WELCOME RECEPTION</p> <p>Hosted By <i>H.E. Mr. Thoriq Ibrahim, Minister of Environment and Energy, Maldives</i></p> <p>Venue: tbc</p>	



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DAY 2: 18 August 2015 (Tuesday)		
Time / Room	Programme	
9:00-11:05	Thematic Parallel Roundtable Dialogues ~ Economic Opportunities through 3R – Sectoral Experiences	
9:00-11:05	Parallel Roundtable 1: Economic Opportunities from 3R ~ Urban Sector	
Room 1 (First Floor)	<p>Background presentation: 3R Related Business Opportunities in Sustainable Urban Practices</p> <p style="text-align: center;">- by Mr. CRC Mohanty, UNCRD (15 min)</p> <p>Country/Private Sector Presentations –Sustainable Urban Business Case Experiences in 3Rs and Resource Efficiency (10 min each):</p> <ol style="list-style-type: none"> 1. The use of waste plastics as chemicals and fuel -by Prof. Toshiaki Yoshioka, Dean, Graduate School of Environmental Studies, Tohoku University, Japan 2. Business opportunities in municipal waste stream – Case of The Republic of Korea – by Prof. Jae-Hyuk Hyun, President, Korea Society of Waste Management 3. Waste policies in Finland - Towards a recycling society the National Waste Plan for 2016 – by Dr. Jouko Saarela, Adjunct Professor, Finnish Environment Institute (SYKE) 4. Metal recycling~ Opportunities, limits, infrastructure in sustainable urban business context -by Prof. Markus Reuter, Director of Technology Management, Outotec, Finland/ Adjunct Professor, Aalto University /IRP expert member <p><i>[Country/private sector presentations to focus on – (a) actual business cases or models; (b) what government policy was conducive to such business cases; (c) what are the plans to scale up such business operations; and (d) critical lessons learned in terms of how the business contributes to sustainable urban development]</i></p> <p>Roundtable Dialogue (70 min)</p>	<p><u>Session Chair:</u> Dr. Muhammad Khurshid Director General-SACEP</p> <p><u>Facilitator / Moderator:</u> Mr. K.D. Bhardwaj, Senior Program Officer, APO</p> <p><u>Rapporteur:</u> Ms. Janet Salem, UNEP-ROAP</p>



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	<p>Participating Countries: Country representatives are requested to make their own choice</p> <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. What should be the defining features of – (a) multi-stakeholder partnerships, (b) international cooperation and (d) governance and institutional arrangements in realizing next generation 3R business solutions for sustainable urban development? 2. Making cities smart, resource efficient, resilient and inclusiveness will be one of the defining characteristics of urban communities in post-2015 development era. At the same time, it is important to provide healthy living environment (clean water, clean land, clean air) for all. How should Asian countries and cities evaluate their current 3R policies, programmes, including investment options, towards these objectives in post-2015 development era? 	
<p style="text-align: center;">9:00-11:05</p> <p style="text-align: center;">Room 2 (Second Floor)</p>	<p style="text-align: center;">Parallel Roundtable 2: Economic Opportunities through 3R ~ Construction and Demolition Waste</p> <p>Background presentation: 3R Related Business Opportunities in Construction and Demolition Waste</p> <p style="text-align: center;">- by Prof. Sudhir Misra, Indian Institute of Technology, Kanpur, India (15 min)</p> <p>Country/Private Sector Presentations –Business Case Experiences (10 min each):</p> <ol style="list-style-type: none"> 1. Resource recovery from construction and demolition waste – by Mr. Nabil Z. Nasr, Associate Provost for Academic Affairs and Director of Golisano Institute for Sustainability, Rochester Institute of Technology / Founder of RIT’s Center for Remanufacturing and Resource Recovery / IRP expert member 2. A cost–benefit analysis of construction and demolition waste management throughout the waste chain – by Dr Weisheng Lu, The University of Hong Kong, HKSAR of China. 3. Potential opportunities in Maldives in reduction of construction waste by recycling and using prefabrication technology in building construction – by Mr. Ibrahim Nazeem, Managing Director, Maldives Road 	<p><u>Session Chair:</u> Ms. Iruthishaam Minister of Health, Maldives</p> <p><u>Facilitator / Moderator:</u> Mr. Mohamed Ali Janah, President of Maldives Association of Construction Industry, Maldives</p> <p><u>Rapporteur:</u> Mr. Yazeed Ahmed, Director, Environmental Protection Agency, Maldives</p>



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	<p style="text-align: center;">Development Corporation, Maldives</p> <p>4. Construction and demolition waste management in Japan – by Ms. Hideko Yonetani, Chairman of Subcommittee on Construction Waste, Japan Federation of Construction Contractors / Senior Manager of Safety and Environmental Affairs Department, KAJIMA Corp.</p> <p><i>[Country/private sector presentations to focus on – (a) actual business cases or models; (b) what government policy was conducive to such business cases; (c) what are the plans to scale up such business operations; and (d) critical lessons learned in terms of how the business contributes to sustainable use of construction & demolition waste as resources]</i></p> <p>Roundtable Dialogue (70 min)</p> <p>Participating Countries: Country representatives are requested to make their own choice</p> <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. What should be the defining features of government policies and programmes for reduction (first “R”) of construction and demolition wastes at first hand? 2. As Asia-Pacific countries grow economically and industrially, they will aim to bridge their urban infrastructure deficits and thereby, build next generation urban infrastructures (roads and bridges, transport, buildings, ports, etc.). What possible reforms the countries and cities should consider in terms of – policies, institutions, and governance towards effective utilization of construction and demolition waste? 3. What type of new and innovative partnerships the national and local governments could consider facilitating for efficient and economic utilization of construction and demolition waste? 4. What are the good examples of good and innovative regulations, standards and codes of practice in reducing/reusing/recycling (3R) of construction and demolition waste? 	
9:00-11:05	<p>Parallel Roundtable 3: Economic Opportunities through 3R ~ Biomass Waste</p>	<p><u>Session Chair:</u> Mr. Phee Boon Poh, State Minister, Welfare, Caring Society and Environment, Penang State Government,</p>
	<p>Background presentation: Circular Economic Utilization of Agriculture and Biomass Waste- A Potential Opportunity for Asia and the Pacific</p>	



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Room 3 (Third Floor)	<p style="text-align: center;">- by Prof. P. Agamuthu, Institute of Biological Sciences, University of Malaya (15 min)</p> <p>Country/Private Sector Presentations –Business Case Experiences (10 min each):</p> <ol style="list-style-type: none"> 1. Economic feasibility of biomass utilization for power generation – by Prof. Mohammad Asadullah, Universiti Teknologi Mara, Malaysia 2. Economic potential of biomass utilization - Case of Japan – by Mr. Gen Takahashi, Deputy General Manager, Global Business Development, JFE Engineering Corporation, Japan 3. Economic potential of biomass utilization- Case of Thailand - by Prof. P. Abdul Salam, School of Environment, Resources and Development, Asian Institute of Technology, Thailand <p><i>[Country/private sector presentations to focus on – (a) actual business cases or models; (b) what government policy was conducive to such business cases; (c) what are the plans to scale up such business operations; and (d) critical lessons learned in terms of how the business contributes to sustainable use of biomass waste as resources]</i></p> <p>Roundtable Dialogue (80 min)</p> <p>Participating Countries: Country representatives are requested to make their own choice</p> <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. To what extent Asia-Pacific countries are taking the benefits (environmental, social, and economic) of biomass utilization? 2. What could be the necessary policy, governance, financial, institutional; and technological interventions for countries to promote commercial and economic utilization of agriculture and biomass waste? 3. Should Asia-Pacific countries consider mass scale use of agricultural waste for the generation of electricity using technologies including combustion, gasification and anaerobic digestion? 4. In the face of growing concerns on climate change, what potential co-benefits biomass and agricultural waste sector offer to Asia-Pacific countries? 	<p>Malaysia</p> <p><u>Facilitator / Moderator:</u> Prof. P. Agamuthu, University of Malaya</p> <p><u>Rapporteur:</u> Dr. Yasuhiko Hotta, Deputy Director, IGES</p>



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<p>9:00-11:05</p> <p style="text-align: center;">Room 8 (Second Floor)</p>	<p>Parallel Roundtable 4: Economic Opportunities through 3R ~ Waste Electrical and Electronics Equipment (WEEE)</p> <p>Background presentation: <i>Business and Economic Potential of Resource Recovery and Recycling from E-waste</i></p> <p>- Dr. Sunil Herat, Senior Lecturer in Waste Management, Griffith University, Australia (15 min)</p> <p>Country/Private Sector Presentations –Business Case Experiences (10 min each):</p> <ol style="list-style-type: none"> 1. Business and economic potential of resource recovery and recycling from e-waste - Case of Thailand -by Ms. Sune Piyapanpong, Deputy Director General, Pollution Control Department, Ministry of Natural Resources and Environment Thailand 2. Progressive formulation of informal e-waste sector workers through Green jobs in Asia-Pacific region -by Ms. Tomoko Nishimoto, Regional Director, ILO Regional Office for Asia and the Pacific 3. State-of-art resource recovery and recycling from e-waste - corporate strategy - by Mr. Takahiro Chiba, Senior Manager, JEPLAN INC., Japan <p><i>[Country/private sector presentations to focus on – (a) actual business cases or models; (b) what government policy was conducive to such business cases; (c) what are the plans to scale up such business operations; and (d) critical lessons learned in terms of how the business contributes to sustainable use of e-waste as resources]</i></p> <p>Roundtable Dialogue (80 min)</p> <p>Participating Countries: Country representatives are requested to make their own choice</p> <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. Does the existing legal and institutional framework in Asia-Pacific countries achieve true potential of business and economic opportunities towards resource recovery and recycling of e-waste? 2. What are the enabling factors to promote resource recovery and 	<p><u>Session Chair:</u> Mr. Koh Kim Hock, Director General, National Environment Agency, Singapore</p> <p><u>Facilitator / Moderator:</u> Mr. Ibrahim Bin Shafii, Senior Programme Officer, Secretariat of the Basel, Rotterdam and Stockholm Conventions, UNEP</p> <p><u>Rapporteur:</u> Dr. Sunil Herat, Senior Lecturer in Waste Management, Griffith University, Australia</p>



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	<p>recycling of e-waste in the areas of – a) market potential; b) engagement of private sector; c) developing PPPs, d) technology transfer?</p> <p>3. Do existing financial arrangements for managing e-waste achieve financial sustainability? If not, what are the suitable financial mechanisms (e.g., EPR) that are viable for Asia-Pacific countries?</p> <p>4. Due to the global nature of the electronics market and industry, e-waste management and legislative developments have significant influence on the environmentally-sound management of used electronics at the national and local level. To this regard, what are some of the best examples of policy, institutional and regulatory framework that could work for Asia-Pacific countries?</p>	
<p>9:00-11:05</p> <p>Room: Faashanaa Hall (Ground Floor)</p>	<p>Parallel Roundtable 5: Special Session of SIDS – How 3R and Resource Efficiency can contribute towards the objectives and aspiration underlined in the SIDS Accelerated Modalities of Action (S.A.M.O.A) Pathway</p>	<p><u>Session Chair:</u> H.E. Dr. Mohamed Shainee, Minister of Fisheries and Agriculture, Maldives</p> <p><u>Facilitator / Moderator:</u> Dr. Heinz Schandl, Senior Science Leader, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia</p> <p><u>Rapporteur:</u> Mr. Ahmed Ali, Director General, Ministry of Environment and Energy, Maldives</p>
	<p>Background presentation: <i>Introducing S.A.M.O.A Pathway</i></p> <p>– by Ms. Fances Brown Reupena, Assistant CEO for Environment Coordination, Ministry of Natural Resources and Environment, Samoa (15 min)</p> <p>Presentations on potential contribution of 3R in major areas of S.A.M.O.A Pathway (10 min each):</p> <ol style="list-style-type: none"> 1. Strategic Capacity Development in the Pacific region (South-South/Triangular Cooperation) -by Mr. Faafetai Sagapolutele, Assistant Chief Adviser, J-PRISM/JICA 2. Empowering Pacific Island Countries (PICs) through sustainable training and capacity building programmes in 3R areas? -by Ms. Lusiana Ralogaivau, GEF - Project Coordinator, SPREP 3. Protection of marine ecosystem and biodiversity through 3R measures – by Ms. Rosemary Apa, Environment and Conservation Division, Ministry of Environment, Climate Change, Disaster Management and Meteorology, Solomon Islands 4. Marine plastic pollution and its potential solution~ Sustainable tourism development 	



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	<p>-by Prof. Hideshige Takada, Tokyo University of Agriculture and Technology, Japan</p> <p>5. Promotion of 3R and Sustainable Waste Management - by Ms. Ma Bella, SPREP, Apia-Samoa</p> <p>Roundtable Dialogue (60 min)</p> <p>Participating Countries: All Small Island Developing States (SIDS) are requested to join (Cook Islands, Fiji, Kiribati, Republic of the Marshall Islands, Federated States of Micronesia, Nauru, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Timor-Leste, Tonga, Tuvalu and Vanuatu)</p> <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. What type of 3R related commercial and business opportunities are viable for SIDS? 2. How can 3R contribute to achieve various objectives underlined in the S.A.M.O.A. Pathway? 3. What are the defining features of 3R for protection of marine ecosystem and biodiversity vis-à-vis livelihood and energy security of SIDS people? 	
11:05-11:30	Coffee/Tea Break	
11:30-13:00	PLENARY SESSION 4 Extended Producers Responsibility (EPR) and Industrial Ecology Grants for Sustainable Material Management - Challenges and Opportunity in Asia	
Room: Rannaban'deyr i Hall (Ground Floor)	<p>Presentation of Background Paper (1) : <i>Enabling Policy and Regulatory Framework for Institutionalizing EPR – from OECD Experience</i></p> <ul style="list-style-type: none"> - by Mr. Peter Borkey, OECD Secretariat, Paris and Mr. Yoshinori Suga, MoE-Japan (10 min) <p>Presentation (2): <i>EPR Governance – Case of Republic of Korea</i></p> <ul style="list-style-type: none"> - by Ms. Ryu Hyejung, Korea Environment Corporation, The Republic of Korea (10 min) <p>Presentation (3): <i>EPR Design and Guidelines – Case of Japan for Packaging Materials, Home appliances, Batteries</i></p> <ul style="list-style-type: none"> - by Mr. Hideki Minamikawa, President, JESC / Ex-Vice Minister, 	<p><u>Session Chair:</u> Atty. Mr. Jonas R. Leones, Under-Secretary, Environment and International Environment Affairs,, The Philippines</p> <p><u>Facilitator / Moderator:</u> Mr. Abdulla Ziyad, Minister of State, Ministry of Environment</p>



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	<p style="text-align: center;">Ministry of the Environment, Japan (10 min)</p> <p>Presentation (4): Industrial Ecology Grants Creating Circular Economy Opportunities- Experience from South Australia</p> <ul style="list-style-type: none"> - by Mr. Vaughen Levitzke, Chief Executive, Zero Waste South Australia (10 min) <p>Presentation (5): EPR in Promotion of Chinese Circular Economic Law</p> <ul style="list-style-type: none"> - by Prof. Jinhui Li, Professor, School of Environment, Tsinghua University (10 min) <p>Panel Discussion: (40 min)</p> <ul style="list-style-type: none"> • Mr. Ibrahim Fazul Rasheed, Managing Director, Maldives Water and Sewerage Company, Maldives • Ms. Sunee Piyapanpong, Deputy Director General, Pollution Control Department, Ministry of Natural Resources and Environment Thailand • Ms. Dato' Halimah Hassan, Director General, Department of Environment, Ministry of Natural Resources and Environment, Malaysia • Mr. Muhammad Fayyaz, Principal staff Officer to Federal Minister for Climate Change, Ministry of Climate Change, Government of Pakistan <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. Why should EPR matter to Asia-Pacific countries? 2. Asia-Pacific, a region of rapid urbanization and home to many mega cities, faces enormous challenges for sustained supply of natural resources (raw material, mineral, timber, water and energy, etc.) How could emerging economies and developing countries of Asia integrate EPR policies in national development plans in support of resource recovery, resource efficiency and creating environmental business? 3. What critical lessons do OECD, Japanese, Korean, and Australian experiences provide in terms critical barriers and overcoming them? 	<p>and Energy, Maldives</p> <p><u>Rapporteur:</u> Prof. Shun Fung Chiu, De La Salle University, The Philippines</p>
<p>13:00-14:00</p> <p>Room: Dhoshimeyanaa Hall (Second Floor)</p>	<p>NETWORKING LUNCH Special Luncheon Session of International Resource Panel (IRP)/UNEP on 3Rs (Part-2)</p>	



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DAY 2: 18 August 2015 (Tuesday)

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14:00-15:30	COUNTRY BREAKOUT SESSIONS ~ Country Major Achievements and Initiatives on Implementation of Ha Noi 3R Declaration (2013~2023)	
14:00-15:30 Room 1 (First Floor)	<p>Country Breakout Group 1:</p> <p>Country Presentations (5 min maximum): PR China, Bangladesh, Fiji, India, Indonesia, Kiribati, Samoa, Thailand</p> <p><i>[Country presentations (using maximum 5 slides) to focus on – (a) major achievements/new initiatives in 3R areas; (b) critical challenges faced; and (c) major plans, including mega-projects and master plans, in pipeline for future action]</i></p> <p>Open Discussion:</p>	<p><u>Session Chair:</u> H.E. Dr. Aishath Shiham, Minister of Education, Maldives</p> <p><u>Facilitator / Moderator:</u> Mr. Ibrahim Abdul Razzaq, Chief Executive Officer, Maldives Transport and Contracting Company, Maldives</p> <p><u>Rapporteur</u> Dr. Sunil Herat, Senior Lecturer in Waste Management, Griffith University, Australia</p>
14:00-15:30 Room 2 (Second Floor)	<p>Country Breakout Group 2:</p> <p>Country Presentations (5 min maximum): Japan, Malaysia, Myanmar, Mongolia, Palau, Solomon Island, Tuvalu, Viet Nam</p> <p><i>[Country presentations (using maximum 5 slides) to focus on – (a) major achievements/new initiatives in 3R areas; (b) critical challenges faced; and (c) major plans, including mega-projects and master plans, in pipeline for future action]</i></p> <p>Open Discussion:</p>	<p><u>Session Chair:</u> H.E. Mr. Mohamed Hussain Shareef, Minister at the President's Office, Maldives</p> <p><u>Facilitator / Moderator:</u> Prof. Masaru Tanaka, Tottori University, Japan</p> <p><u>Rapporteur</u> : Mr. K.D. Bhardwaj, Senior Program Officer, APO</p>
14:00-15:30 Room 3 (Third Floor)	<p>Country Breakout Group 3:</p> <p>Country Presentations (5 min maximum): Afghanistan, Brunei Darussalam, Cambodia, Lao PDR, Republic of Korea, Nauru, Niue, Tonga</p>	<p><u>Session Chair:</u> H.E. Mr. Mohamed Saeed, Minister of Economic Development, Maldives</p>



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Time / Room	Programme	
	<p><i>[Country presentations (using maximum 5 slides) to focus on – (a) major achievements/new initiatives in 3R areas; (b) critical challenges faced; and (c) major plans, including mega-projects and master plans, in pipeline for future action]</i></p> <p>Open Discussion:</p>	<p><u>Facilitator / Moderator:</u> Mr. Mohamed Nimal, Managing Director, Fenaka Corporation Limited, Maldives</p> <p><u>Rapporteur:</u> Dr. Yasuhiko Hotta, Deputy Director, IGES</p>
14:00-15:30 Room 8 (Second Floor)	<p>Country Breakout Group 4:</p> <p>Country Presentations (5 min maximum): Bhutan, Maldives, Republic of the Marshall Islands, Nepal, Pakistan, Papua New Guinea, Singapore, Timor-Leste</p> <p><i>[Country presentations (using maximum 5 slides) to focus on – (a) major achievements/new initiatives in 3R areas; (b) critical challenges faced; and (c) major plans, including mega-projects and master plans, in pipeline for future action]</i></p> <p>Open Discussion:</p>	<p><u>Session Chair:</u> H.E. Ms. Dhunya Maumoon, Minister of Foreign Affairs, Maldives</p> <p><u>Facilitator / Moderator:</u> Mr. Abdulla Mohamed Didi, State Minister, Ministry of Environment and Energy, Maldives</p> <p><u>Rapporteur:</u> Prof. P. Agamuthu, Institute of Biological Sciences, University of Malaya</p>
14:00-15:30 Room: Faashanaa Hall (Ground Floor)	<p>Country Breakout Group 5:</p> <p>Country Presentations (5 min maximum): Australia, Cook Islands, Federated States of Micronesia, New Zealand, The Philippines, Russian Federation, Sri Lanka, Vanuatu</p> <p><i>[Country presentations (using maximum 5 slides) to focus on – (a) major achievements/new initiatives in 3R areas; (b) critical challenges faced; and (c) major plans, including mega-projects and master plans, in pipeline for future action]</i></p> <p>Open Discussion:</p>	<p><u>Session Chair:</u> H.E. Mr. Abdulla Jihad, Minister of Finance and Treasury, Maldives</p> <p><u>Facilitator / Moderator:</u> Waste Management Corporation, Maldives</p> <p><u>Rapporteur:</u> Mr. A.H. Md. Maqsood Sinha, Executive Director, Waste Concern</p>



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Time / Room	Programme	
15:30-16:00	Coffee/Tea Break	
16:00-17:00	PLENARY SESSION 5 Reporting Back by Thematic Parallel Roundtable Dialogues and Country Breakout Sessions (only 1 slide / 5 mins each)	
Room: Rannaban'deyr i Hall (Ground Floor)	<u>Parallel Roundtable Dialogues (25 min):</u> <ul style="list-style-type: none"> - Reporting back by Parallel Roundtable 1 (5 min) - Reporting back by Parallel Roundtable 2 (5 min) - Reporting back by Parallel Roundtable 3 (5 min) - Reporting back by Parallel Roundtable 4 (5 min) - Reporting back by Parallel Roundtable 5 (5 min) <u>Country Breakout Sessions (25 min):</u> <ul style="list-style-type: none"> - Reporting back by Country Breakout Group 1 (5 min) - Reporting back by Country Breakout Group 2 (5 min) - Reporting back by Country Breakout Group 3 (5 min) - Reporting back by Country Breakout Group 4 (5 min) - Reporting back by Country Breakout Group 5 (5 min) <u>NGO side-event (5 min):</u> <ul style="list-style-type: none"> - Reporting back by NGO side-event by Mr. Mohamed Shumais, Live&Learn Maldives, and Ms. Yuiko Taira, Chief Director, NPO Jun-namaken (3R Citizens' Network) <u>Open Discussion: 5 min</u>	<u>Session Chair:</u> H.E. Mr. Md Amir Hossain , Minister, Minister of Industries, Bangladesh
17:00-18:30	PLENARY SESSION 6 Waste and Freshwater Nexus ~ 3R for Water Security in Asia and the Pacific	
Room: Rannaban'deyr i Hall (Ground Floor)	<u>Presentation of Background Paper (1): 3Rs for Water Security in Asia and the Pacific</u> <ul style="list-style-type: none"> - by Prof. C. Visvanathan, AIT, Thailand and Dr. Sunil Herat, Griffith University, Australia (15 min) <u>Presentation (2): Waste and Freshwater Nexus in India ~ How can 3Rs and sustainable waste management system can save the major lifeline rivers of India?</u> <ul style="list-style-type: none"> - by Mr. Saraswati Prasad, Joint Secretary, Ministry of Drinking Water and Sanitation, India (10 min) <u>Panel Discussion (65 min):</u>	<u>Session Chair:</u> Mr. Mushahid Ullah Khan , Federal Minister, Ministry of Climate Change, Government of Pakistan <u>Facilitator / Moderator:</u> Mr. C.R.C. Mohanty , UNCRD



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	<ul style="list-style-type: none"> • Mr. Abdul Matheen Mohamed, State Minister, Ministry of Environment and Energy, Maldives • Mr. Muhammad Maududur Rashid Safdar, Director (Joint Secretary), Department of Environment, Ministry of Environment and Forests, Bangladesh • Mr. Chum Bunnarin, Chief, Phnom Penh Capital City, Cambodia • Dr. Nguyen Van Tai, Director General, Institute of Strategy and Policy on Natural Resources and Environment, Viet Nam • Dr. Muhammad Khurshid, Director General-SACEP • Dr. Emani Kumar, Deputy Secretary General, ICLEI <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. As per UN definition, an area is experiencing water stress when annual water supplies drop below 1,700 m³ per person. When annual water supplies drop below 1,000 m³ per person, the population faces water scarcity, and below 500 cubic metres "absolute scarcity". By 2025, 1.8 billion people are expected to be living in countries or regions with absolute water scarcity, and two-thirds of the world's population could be living under water stressed conditions. A number of Asia-Pacific countries are already heading towards water stress. As we know that water scarcity is both a natural and a human-made phenomenon, to what extent unsustainable resource and waste management practices attribute to freshwater scarcity in Asia-Pacific? What potential benefits 3R can offer towards water security of Asia-Pacific? 2. Do existing legal and institutional framework allow wastewater reclaim and potential reuse application in Asia and the Pacific countries? 3. What are the 'Push-and-Pull' factors to promote circular water economy in Asia and Pacific Region in the following respective areas; a) Technology, b) Socio-cultural and public perception, c) Policy and Institutional Framework, and d) Financial mechanisms? 4. Private sector involvement can play an important role to perform 3R in water sector, especially for technology innovation and financing of the 3R projects. However, bringing private sector into water sector is a delicate issue, as it meets the public opposition because water is considered a basic human rights. In such case, how to attract private sector into 3R businesses for water security? 	<p>Rapporteur: Prof. Shun Fung Chiu, De La Salle University, The Philippines</p>
19:30-21:30	<p>RECEPTION</p> <p>Hosted By <i>The Ministry of Tourism, Maldives (tbc)</i></p> <p>Venue: tbc</p>	



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DAY 3: 19 August 2015 (Wednesday)

Time / Room	Programme	
09:30-11:00	<p>PLENARY SESSION 7</p> <p>State of the 3Rs in Asia and the Pacific ~ A Guiding Document for Improved Decision Making Towards Effective Implementation of 3R at Local and National Level</p>	
<p>Room: Rannaban'deyri Hall (Ground Floor)</p>	<p>Presentation (1): Draft Outline, Objectives and Scope of "State of the 3Rs in Asia and the Pacific" ~ A Guiding Document for Improved Decision Making Towards Effective Implementation of 3R at Local and National Level</p> <p style="text-align: center;">- by Dr. Yasuhiko Hotta, IGES, Japan (15 min)</p> <p>Presentation (2): Resource Use Indicators towards Strengthening 3R Knowledge Base in Asia-Pacific</p> <p style="text-align: center;">- by Ms. Janet Salem, UNEP-ROAP (15 min)</p> <p>Presentation (3): Initiative Towards Zero Waste~ 'SUNYA'</p> <p style="text-align: center;">- by Dr. Emani Kumar, Deputy Secretary General, ICLEI (10 min)</p> <p>Panel Discussion (60 min)</p> <ul style="list-style-type: none"> • Mr. Abdullahi Majeed, State Minister, Ministry of Environment and Energy, Maldives. • Mr. Ar. Yogeshwar Krishna Parajuli, Development Commissioner, Kathmandu Valley Development Authority, Nepal • Ms. Susana Telakau, Director, Solid Waste Agency of Tuvalu, Tuvalu • Dr. Heinz Schandl, Senior Science Leader, Commonwealth Scientific and Industrial research Organisation (CSIRO), Australia • Mr. Feroz Khan Masjidi, Director, Ministry of Commerce and Industry, Afghanistan • Dr. Patrice Christmann, Deputy Director, Corporate Strategy, in charge of the BRGM's research and development strategy/IRP member • Prof. P. Agamuthu, Institute of Biological Sciences, University of Malaya. • Mr. C.R.C Mohanty, Environment Programme Coordinator, United Nations Centre for Regional Development <p>Discussion Points:</p> <ol style="list-style-type: none"> 1. How to establish an improved knowledge platform to track progress on 3R policy implementation at local and national level? How to progress a science-policy interface under the overall framework of the Regional 3R Forum in Asia-Pacific to promote science-based policy making in 3R areas? 	<p><u>Session Chair:</u> Mr. S. Sadat Mansoor Naderi, Minister, Minister of Urban Development Affairs, Afghanistan</p> <p><u>Facilitator/ Moderator:</u> Mr. Kazunobu Onogawa, IGES</p> <p><u>Rapporteur:</u> Prof. Shun Fung Chiu, De La Salle University, The Philippines</p>



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	2. How could we improve the availability of data, information, indicators and promote extensive use of integrated assessment tools and techniques towards a robust and scientifically credible State of the 3Rs in Asia-Pacific? 3. What could be an overall framework and structure of the State of 3Rs which would be of relevance in the context of post-2015 development agenda / Sustainable Development Goals (SDGs)?
11:00-11:30	Coffee/Tea Break
11:30-12:30 Room: Rannaban'deyri Hall (Ground Floor)	PLENARY SESSION 8 ADOPTION OF THE CHAIR'S SUMMARY Co-Chairs: H.E. Mr. Ahmed Adeeb Abdul Gafoor, Vice President of the Republic of Maldives H.E. Mr. Thoriq Ibrahim, Minister of Environment and Energy, Maldives
12:30-13:00	CLOSING SESSION
Room: Rannaban'deyri Hall (Ground Floor)	Closing Remarks <ul style="list-style-type: none"> ▪ Ms. Chikako Takase, Director, United Nations Centre for Regional Development (UNCRD) ▪ Mr. Soichiro Seki, Vice-Minister for Global Environmental Affairs, Ministry of the Environment, Japan ▪ H.E. Mr. Ahmed Adeeb Abdul Gafoor, Minister of Tourism, Maldives ▪ H.E. Mr. Thoriq Ibrahim, Minister of Environment and Energy, Maldives
13:00-14:00 Room: Dhoshimeyana Hall (Second Floor)	NETWORKING LUNCH
14:00-18:30	Technical Field Visit – One of the selected Island (note: this will depend on the weather condition)
19:30-21:30	FAREWELL RECEPTION



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	<p style="text-align: center;">Hosted By <i>Ministry of Environment & Energy, Maldives (tbc)</i></p> <p style="text-align: center;">Venue: tbc</p>