

Eighth Regional 3R Forum in Asia and the Pacific

“Achieving Clean Water, Clean Land and Clean Air through 3R and Resource Efficiency- A 21st Century Vision for Asia-Pacific Communities”

Indore, Madhya Pradesh, India, 9-12 April 2018

City Report

(Draft)

< Yokohama, Japan >

This city report was prepared by Yokohama, Japan as an input for the Eighth Regional 3R Forum in Asia and the Pacific. The views expressed herein do not necessarily reflect the views of the United Nations.

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CITY REPORT: [City Name: City of Yokohama]

Guideline for City Reporting on Major Initiatives/Achievements in 3R areas

The main objective of the City Reporting is to share among international community the progress, achievements and best practices, including various challenges faced, in the areas of **3R (Reduce, Reuse, Recycle)** and sustainable waste management. This would help development agencies, donors, including development banks, in assessing the needs and challenges of cities to better plan their existing and future capacity building programmes and operations in the field of 3Rs and sustainable waste management.

It would be appreciated if a consolidated city report could kindly be prepared by answering the following questions and submit to the **Secretariat of the Regional 3R Forum in Asia and the Pacific** by email to 3R@uncrd.or.jp




Timeline for submission: **10 February 2018**

Secretariat of the Regional 3R Forum in Asia and the Pacific
United Nations Centre for Regional Development

CITY REPORT: [City Name: <u>City of Yokohama</u>]	
Q 1	What are the roles of local government stipulated in the 3R-related policies, acts, laws, or regulations?
	The Basic Law for Establishing a Recycling-Based Society, which was enacted in 2000, stipulates that governments, business operators, and citizens shall make efforts in their respective responsibilities and roles to promote 3R toward the formation of a recycling-based society where the environmental load has been reduced as much as possible. Local governments shall implement, aiming for comprehensive and systematic promotion, the necessary policies and measures for establishing the recycling-based society according to the natural and social conditions of the local governments' jurisdiction.
Q 2	Are 3R policies integrated in your city development strategy or master plan? (Please attach photo(s) of your city's waste management facility if available.)

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	<p><input checked="" type="checkbox"/> Yes => Please share goals/visions/major achievements/important lessons learnt that could be replicated elsewhere.</p> <p><input type="checkbox"/> No => Please go to Q7 (please also answer Q5, 6, and 8)</p> <p>The Yokohama City Mid-term 4-year Plan (2014-2017) is organized around basic policy measures in the following 4 categories: ‘Support for Women, Children, Young People and Senior Citizens,’ ‘Safe and Comfortable Community Life,’ ‘Revitalizing Yokohama’s Economy’ and ‘Improving City Functions and the Environment.’</p> <p>The category of the ‘Improving City Functions and the Environment’ includes the pursuit of a hope-filled city boasting widespread pursuit of the 3Rs. Residents, businesses and the public sector join hands and make an effort to reduce waste volumes by the following activities: public relations and awareness-raising efforts promoting implementation of the 3Rs, promotion of projects to reduce kitchen waste volumes and convert such waste into resources, and through waste reduction and separation by business owners.</p> <p>Now the next plan (2018-2021) is under formulation.</p> <p>Please attach photos with caption, if available:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Transit Center</p> </div> <div style="text-align: center;">  <p>Incineration Plant</p> </div> <div style="text-align: center;">  <p>Recyclables Sorting Center</p> </div> </div>								
<p>Q 3</p>	<p>What are the major challenges and constraints faced by your city in implementing 3R policies and programmes?</p> <p>(Please answer only if your answer to Q2 is “Yes”)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; padding: 5px;">Financial constraints:</td> <td style="height: 40px;"></td> </tr> <tr> <td style="padding: 5px;">Institutional/governance challenges:</td> <td style="height: 40px;"></td> </tr> <tr> <td style="padding: 5px;">Policy gaps:</td> <td style="height: 40px;"></td> </tr> <tr> <td style="padding: 5px;">Other challenges such as technical capacity, human resources etc.:</td> <td style="padding: 5px;">Recently, we focus on reduction efforts, because sorting waste and recycling are catching on in daily life. However, it is necessary for local residents and businesses to shift to environmentally-friendly lifestyles and business styles and to take the initiative in solving</td> </tr> </table>	Financial constraints:		Institutional/governance challenges:		Policy gaps:		Other challenges such as technical capacity, human resources etc.:	Recently, we focus on reduction efforts, because sorting waste and recycling are catching on in daily life. However, it is necessary for local residents and businesses to shift to environmentally-friendly lifestyles and business styles and to take the initiative in solving
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	<p>problems. In order to advance 3R initiatives, especially reduction activities, our city need to implement carefully crafted policies.</p>
<p>Q 4</p>	<p>What programme is in place in your city in support of NGOs activities towards promotion of 3Rs?</p> <p>Yokohama 3R Dream Supporters and Partners All individuals and companies with the intention of adopting the Reduce and other 3R initiatives can sign up to participate on the Yokohama R (Reduce) Platform website. Simply register to receive an e-mail magazine packed full of information related to the Yokohama R (Reduce) Platform and the 3R initiatives.</p> <p>Yokohama R (Reduce) Committee The Yokohama R (Reduce) Committee consists of representatives from the general public, local companies and the administration of Yokohama, and is involved in recommending and consulting about new [Reduce] initiatives, as well as providing information, advertising and introducing collaborators to each other in order to provide assistance to people who come up with interesting ideas.</p> <p>Environmental project committee member program The Environmental Project Committee members are endorsed by regional authorities and neighborhood associations, and delegated by the mayor to perform 3R activities in order to reduce regional garbage and eradicate the greenhouse effect, and to maintain and promote the beauty and cleanliness of all areas. The number of members on the Environmental Project Committee has reached 4,211 people (as of July 1, 2016)</p> <p>Yokohama environmental action award: Yokohama 3R Dream commendation The new Yokohama 3R Dream award and certification are presented to the people, organizations and companies that have achieved the most success in promoting the reduction and recycling of garbage in a wide range of regional activities for the purpose of promoting 3R activities and making sure that they become part of the fabric of local society. FY2016 actual: 178 citizens, 36 organizations and 60 companies</p>
<p>Q 5</p>	<p>Is there any collaborative 3R activities/projects/partnerships involving cities (e.g., city-to-city cooperation) and organizations at international level?</p> <p><input checked="" type="checkbox"/> Yes => Please brief the project(s) including objectives, project partners, target, period, budget etc.</p> <p><input type="checkbox"/> No</p>

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	<p>In emerging countries, including in Asia, urban development issues have occurred such as population increase and disorderly expansion of urban areas brought about by rapid urbanization, and deterioration of the living and natural environment associated with the underdevelopment of infrastructure and housing. The Y-PORT Project is meant to cope with these urban issues, including waste problems, and strengthen partnership for the promotion of international technical cooperation by taking advantage of the know-how on urban development that Yokohama has so far cultivated and environmental technologies possessed by private enterprises in Yokohama.</p> <p>The City of Yokohama concluded with Cebu City in the Philippines, the "Memorandum of Understanding on Technical Cooperation for Sustainable Urban Development" and has promoted participation of private and academic organizations. In July 2012, Yokohama conducted a joint survey with private enterprises, which resulted in the formation of projects of SMEs in Yokohama. Yokohama is also working with Da Nang People's Committee in Vietnam and Bangkok Metropolitan Administration in Thailand.</p> <p>Please attach photos of the project (s) with caption, if available:</p> <div style="display: flex; justify-content: space-around;"> <div>  <p align="center">Training program in Yokohama</p> </div> <div>  <p align="center">Solid Waste Management Project for Promoting sorting and recycling in Da Nang City, Vietnam</p> </div> </div>											
<p>Q 6</p>	<p>What major future prospects or opportunities does your city have in 3R areas?</p> <p>Not applicable</p>											
<p>Q 7</p>	<p>What type of 3R infrastructure and facilities your city is equipped with? Please tick the appropriate.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Type of 3R infrastructure and facilities</th> <th style="width: 16.5%;">Adequate/ Significant</th> <th style="width: 16.5%;">If adequate, how many treatment facilities (in number)</th> <th style="width: 34%;">Not-adequate / Non-significant</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				Type of 3R infrastructure and facilities	Adequate/ Significant	If adequate, how many treatment facilities (in number)	Not-adequate / Non-significant				
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<input type="checkbox"/>	waste collection facility	■	18	<input type="checkbox"/>
<input type="checkbox"/>	waste segregation facility	■	4	<input type="checkbox"/>
<input type="checkbox"/>	waste storage facility	■	3	<input type="checkbox"/>
<input type="checkbox"/>	waste processing & treatment facility	■	1	<input type="checkbox"/>
<input type="checkbox"/>	resource recovery facility	■	1	<input type="checkbox"/>
<input type="checkbox"/>	waste recycling facility	<input type="checkbox"/>		■
<input type="checkbox"/>	waste to energy facility	■	4	<input type="checkbox"/>
<input type="checkbox"/>	eco-industrial zones	<input type="checkbox"/>		■
<input type="checkbox"/>	science parks/theme parks relevant to 3R	■	7	<input type="checkbox"/>
<input type="checkbox"/>	others (please specify:)	<input type="checkbox"/>		<input type="checkbox"/>
Q 8	Kindly provide the important 3R policies/programmes/projects/master plans that your City Government plans to undertake within next five years (2017-2022).			
	<p>The Yokohama 3R Dream Plan (Period: FY 2010 -25) The Yokohama 3R Dream Plan has as its objectives collaboration with our citizens and businesses to not only separate and recycle garbage but also to undertake efforts to reduce garbage as the most environmentally friendly measure. It aims at reducing environmental impacts and making efficient use of resources and energy. It also aims to realize a pleasant city to live in where no one is troubled by garbage, pursuing safe, secure and stable garbage processing while taking into account factors such as a graying population with a low birth rate and utilizing final disposal sites carefully over the long term. In order to advance this long term plan, we formulate the promotion plans for four years, which indicate the concrete measures to be undertaken for each four-year period.</p> <p>Future vision of the authorities' approach to waste</p> <ul style="list-style-type: none"> ● Everybody has been cooperating to achieve environmentally-friendly lifestyles and business styles in which we are all able to contribute to 3R. ● We have created a garbage treatment system that places very little burden on the environment. ● We have achieved hygienic and clean towns. ● We have created towns in which no resident need worry about garbage. 			

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	<p>Goals of the Plan</p> <ul style="list-style-type: none"> ●Stepping up the 3R Challenge: We intend to reduce the total amount of garbage and recyclable resources by 10 % or more by FY 2025 (over 2009 figures). ●Working to reduce garbage to end global warming: We intend to reduce greenhouse gas emissions generated by the treatment of garbage by 50 % or more by FY 2025 (over 2009 figures). ●Our mission: achieving safe and stable garbage treatment: We are striving to guarantee safety, stability and peace-of-mind at all stages, from collection and transportation to treatment and disposal. 			
<p>Q 9</p>	<p>In response to the 2030 Agenda for Sustainable Development, in particular <i>SDG 6 (Water and Sanitation)</i>, <i>SDG 11 (Make cities and human settlements inclusive, safe, resilient and sustainable)</i> and <i>SDG 12 (Ensure sustainable consumption and production patterns)</i>, how your City is planning to advance 3R and resource efficiency related measures?</p> <p>In the Yokohama 3R Dream Plan, in addition to promoting 3R in cooperation with citizens, companies and the administration of Yokohama, we will strive to guarantee the effective use of limited recyclable resources and energy sources by appropriately treating any remaining waste. Our aim is to create a sustainable society by reducing the burden on the environment and establishing sound fiscal management as a “Future City”. We have the same philosophy which realizes a sustainable society based on the SDGs, and have an ongoing responsibility to advance 3R initiatives.</p>			
<p>Q 10</p>	<p>What are the main challenges in your city concerning clean water, clean land and clean air? (Please answer the below points)</p>			
	<p>Do you regularly analyze the air pollution in laboratories (NOx, air particles and other pollutants)?</p>	<p align="center">Yes</p> <p align="center">■</p>	<p align="center">If yes, kindly write frequency of analyzing (number per month)</p> <p>(at incineration plants) NOx, SOx, Dusts, HCl, Ammonia and Mercury: Once in 2 months, DXNs: Once a year (at final disposal sites) NOx and SOx: Once a year, DXNs: 4 times a year, SPM: twice a year</p>	<p align="center">No</p> <p align="center">□</p>

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	Do you regularly analyze the water contamination through chemically and biologically test (DO, heavy metal and microbial water quality)?	■	(at incineration plants) Heavy metal: Twice a month, DXNs: Once a year (at final disposal sites) Heavy metal: 1-2 times / month, COD and BOD: 2-4 times / month, The number of coliform bacteria: Once a month, DXNs: Once a year	□
	Do you regularly analyze the soil pollution (disposal of hazardous and chemical waste)?	■	(at incineration plants and final disposal sites) DXNs: Once a year	□
Q 11	In response to the New Urban Agenda, in particular <i>Sustainable and inclusive urban prosperity and opportunities for all</i> and <i>Environmentally sustainable and resilient urban development</i>, how your City is planning to contribute to safe, inclusive and resilient city building related to 3R and sustainable waste management areas?			
	<ul style="list-style-type: none"> ● Because we are quickly becoming a super-aging society, we offer waste collection support for elderly people and for those with disabilities who live alone and cannot bring waste to the collection site. ● Yokohama City is developing a plan to properly, smoothly and quickly process disaster waste, based on the know-how gained through our support for those disaster-affected areas. ● We envision the future roles of incineration plants as facilities that contribute to reserve sources of energy in case of emergency. 			
Q 12	[For Indian cities only], how is your city linking 3R (Reduce, Reuse and Recycle) to the Swachh Bharat Mission (Clean India Mission)? Do you think circular economic utilization of all waste streams in India would accelerate faster achievement of Swachh Bharat Mission? If so, is your city equipped with required 3R policies, programmes and infrastructures towards circular economic utilization of the waste streams?			

*Kindly submitted to the Secretariat of the Regional 3R Forum in Asia and the Pacific by email to 3R@uncrd.or.jp before **31 January 2018**.
Thank you for your kind cooperation.*