

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)

< Osaka, Japan >

This city report was prepared by Osaka, 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: Osaka City]

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: **31 January 2018**

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

CITY REPORT: [City Name: <u>Osaka City</u>]	
Q 1	What are the roles of local government stipulated in the 3R-related policies, acts, laws, or regulations?
	<p>Under the Waste Management and public Cleansing Law, Japan,</p> <ul style="list-style-type: none">➤ The municipalities shall endeavor to promote residents' voluntary activities to reduce their municipal solid waste in their respective administrative areas and take the necessary action for proper management of those municipal solid waste. They shall also endeavor to perform the management work efficiently by improving the ability of the management personnel, consolidating disposal facilities and developing operation techniques.➤ The municipalities shall specified forth a definite plan for management of municipal solid waste in their respective administrative areas.

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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.)								
	<p> <input checked="" type="checkbox"/> Yes => Please share goals/visions/major achievements/important lessons learnt that could be replicated elsewhere. <input type="checkbox"/> No => Please go to Q7 (please also answer Q5, 6, and 8) </p> <p>Basic policy</p> <ul style="list-style-type: none"> ➤ Give priority to the 2Rs ➤ Sort garbage and recycle ➤ Take an eco-friendly approach to proper disposal and operate efficiently <p>Goals: Planned targets (FY2025)</p> <ul style="list-style-type: none"> ● Cut incinerated garbage by 100,000 tons ● Cut landfill disposal by 20,000 tons ● Cut greenhouse gas emissions by 40,000 CO2 tons <p>Please attach photos with caption, if available:</p> <p>Please see bottom photos.</p>								
Q 3	<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"> <tr> <td>Financial constraints:</td> <td>Depends on budget allocation</td> </tr> <tr> <td>Institutional/governance challenges:</td> <td>Reduce and recycling of food waste</td> </tr> <tr> <td>Policy gaps:</td> <td>Public awareness and estimation for 3Rs</td> </tr> <tr> <td>Other challenges such as technical capacity, human resources etc.:</td> <td>Environmental education and citizen activities for 3Rs</td> </tr> </table>	Financial constraints:	Depends on budget allocation	Institutional/governance challenges:	Reduce and recycling of food waste	Policy gaps:	Public awareness and estimation for 3Rs	Other challenges such as technical capacity, human resources etc.:	Environmental education and citizen activities for 3Rs
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Institutional/governance challenges:	Reduce and recycling of food waste								
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Other challenges such as technical capacity, human resources etc.:	Environmental education and citizen activities for 3Rs								
Q 4	<p>What programme is in place in your city in support of NGOs activities towards promotion of 3Rs?</p> <p>Resource group collection support system This system is financial incentives and supplies.</p> <ul style="list-style-type: none"> ➤ Award money: 5,000 yen per fiscal year ➤ Groups collecting less than 10 tons of waste paper per fiscal year: Goods made from recycled wastepaper such as notebooks, copy paper and toilet paper will be supplied as incentives. 								

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	<p>➤ Groups collecting more than 10 tons of waste paper per fiscal year: Instead of recycled goods, a financial incentive may be provided. You may receive both a financial incentive and recycled goods.</p>			
Q 5	<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> <p>Osaka City is supporting Ho Chi Minh City of Vietnam on household waste separation project. Both cities carried out 3 year project with accepting support from national government. As the result, Ho Chi Minh formulated an action plan on waste separation in 2017. The plan has goals to expand the waste separation at houses in whole city by the end of 2020.</p> <p>Besides, both Mayors of Osaka City and Ho Chi Minh City signed an memorandum of understanding on Ho Chi Minh low-carbon city including waste management sector in 9, 2016.</p> <p>Please attach photos of the project (s) with caption, if available:</p> <p>Please see bottom photos.</p>			
Q 6	<p>What major future prospects or opportunities does your city have in 3R areas?</p>			
Q 7	<p>What type of 3R infrastructure and facilities your city is equipped with? Please tick the appropriate.</p>			
	<p>Type of 3R infrastructure and facilities</p>	<p>Adequate/ Significant</p>	<p>If adequate, how many treatment facilities (in number)</p>	<p>Not-adequate / Non-significant</p>
	<p><input type="checkbox"/> waste collection facility</p>	<p><input checked="" type="checkbox"/></p>	<p>Collection vehicles: about 900</p>	<p><input type="checkbox"/></p>
	<p><input type="checkbox"/> waste segregation facility</p>	<p><input type="checkbox"/></p>		<p><input checked="" type="checkbox"/></p>
	<p><input type="checkbox"/> waste storage facility</p>	<p><input checked="" type="checkbox"/></p>	<p>6</p>	<p><input type="checkbox"/></p>
<p><input type="checkbox"/> waste processing & treatment facility</p>	<p><input checked="" type="checkbox"/></p>	<p>6</p>	<p><input type="checkbox"/></p>	

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	<input type="checkbox"/> resource recovery facility	■		<input type="checkbox"/>
	<input type="checkbox"/> waste recycling facility	■		<input type="checkbox"/>
	<input type="checkbox"/> waste to energy facility	■	6	<input type="checkbox"/>
	<input type="checkbox"/> eco-industrial zones	<input type="checkbox"/>		■
	<input type="checkbox"/> science parks/theme parks relevant to 3R	<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).			
	We have the Osaka City Waste Disposal Basic Plan, 2016-2025. http://www.city.osaka.lg.jp/kankyo/page/0000007513.html			
Q 9	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?			
	We need to progress the Osaka City Waste Disposal Basic Plan, 2016-2025. As the result, we think SDGs will achieve.			
Q 10	What are the main challenges in your city concerning clean water, clean land and clean air? (Please answer the below points)			
		Yes	If yes, kindly write frequency of analyzing (number per month)	No
	Do you regularly analyze the air pollution in laboratories (NOx, air particles and other pollutants)?	■	Continuous measuring	<input type="checkbox"/>
	Do you regularly analyze the water contamination through chemically and biologically test (DO, heavy metal and microbial water quality)?	■	Over once a month	<input type="checkbox"/>
	Do you regularly analyze the soil pollution (disposal of hazardous and chemical waste)?	■	Over once a month	<input type="checkbox"/>

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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?
	Osaka City has a basic plan for waste disposal. In addition, Osaka City formulated the “Osaka City Basic Plan for Disaster Waste Disposal” in 2017. As well as normal waste disposal, we make efforts to 3R and disposal of disaster waste.
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.

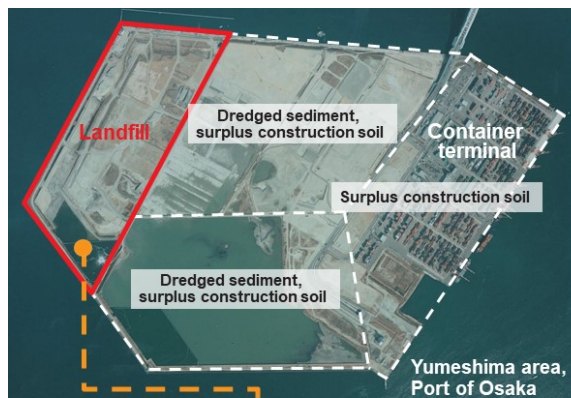
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Q2 photos



Waste incineration factory
Waste to energy



Landfill sites
Sea reclamation with waste



Floating aeration

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Q5 photos



- Collection of the separated household waste
- Gathering news for public relations by university students



MOU on development of a low carbon city between Ho Chi Minh and Osaka City
6 September 2016, Ho Chi Minh City