

Yokohama Municipal Solid
Waste Management Master Plan

The Yokohama 3R Dream Plan

Second Term Promotion Plan

Outline Version



The 3R Dream Moves to the next Stage



April 2014

1

What is the Yokohama 3R Dream plan?

Plan duration

16 years from FY2010 to FY2025

The Yokohama 3R Dream Plan (formulated January 2011) 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.



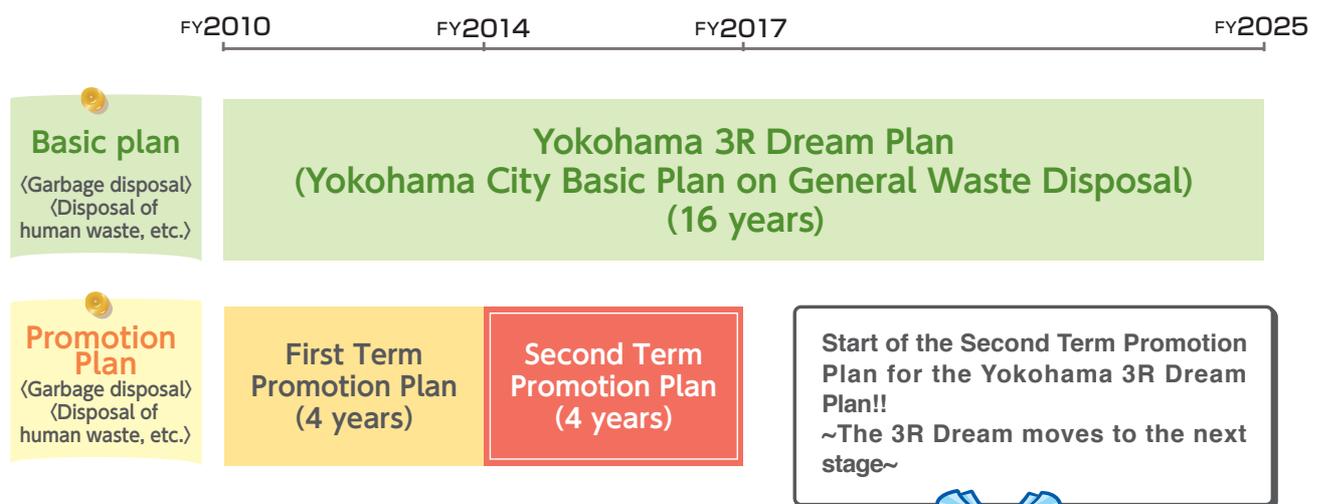
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Positioning the Second Term Promotion Plan

Plan duration

4 years from FY2014 to FY2017

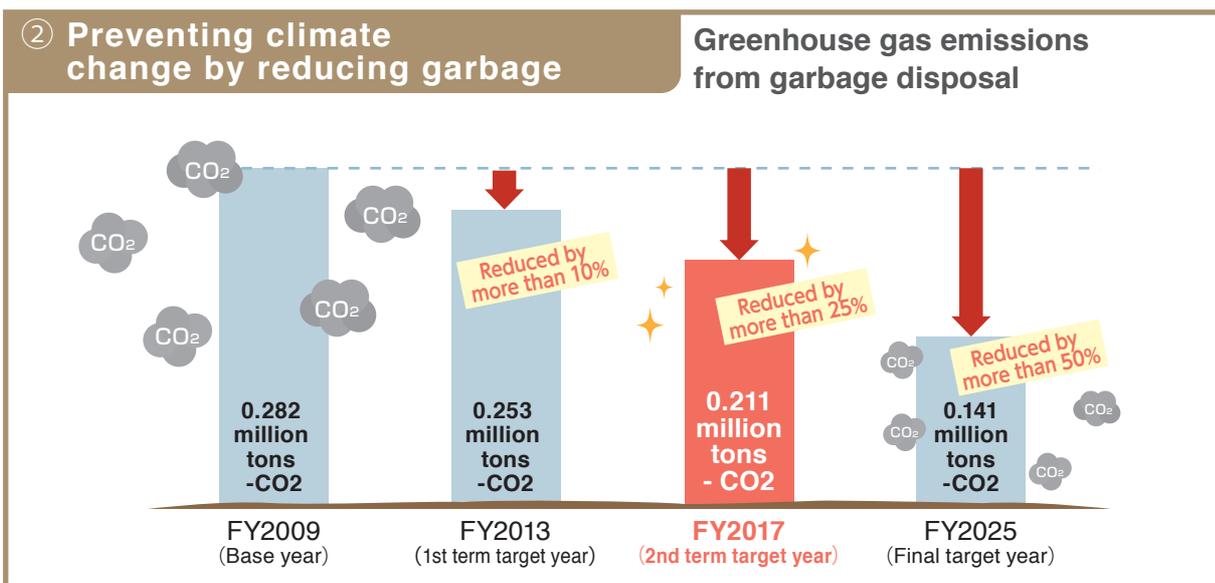
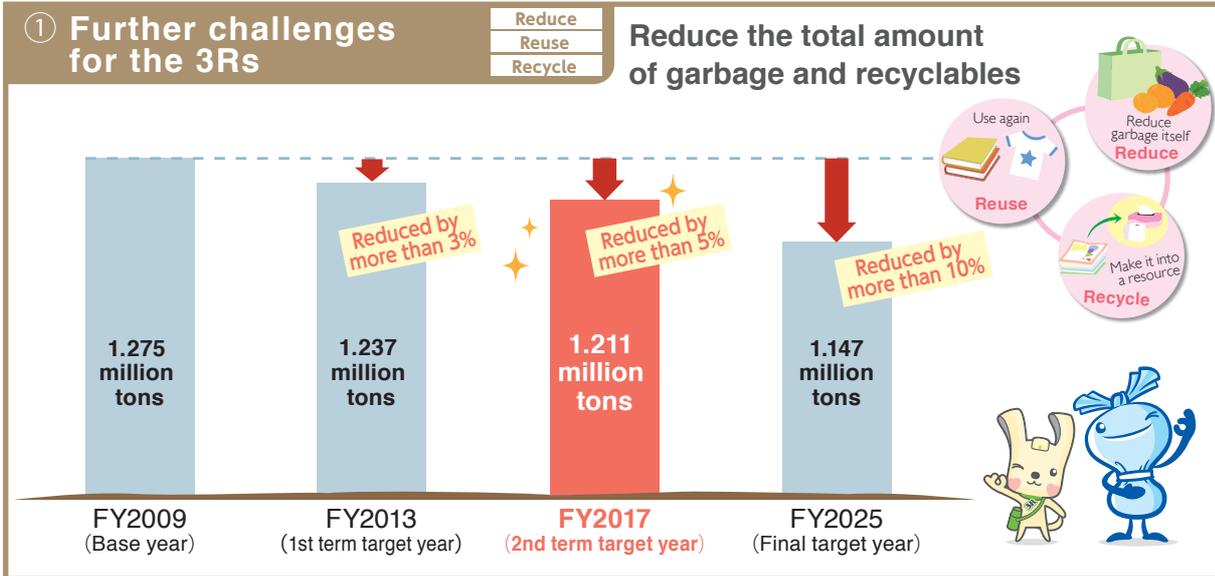
The Second Term Promotion Plan indicates the concrete measures to be undertaken from FY2014 to FY2017 in order to advance the Yokohama 3R Dream Plan, our longer term plan looking toward FY2025.



Mio from the planet Hera

The Yokohama 3R Dream mascot, Io

3 Plan Targets



③ Pursuing safe, secure, and stable garbage processing

Pursuing a safe, secure, and stable system in all stages from the collection, transport, processing and disposal of garbage.

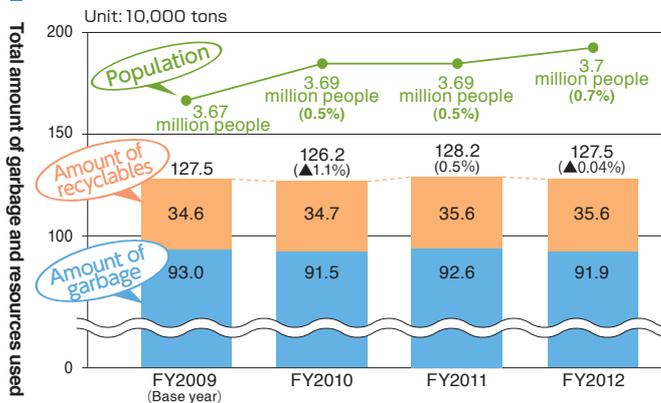


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Reviewing our First Term Promotion Plan

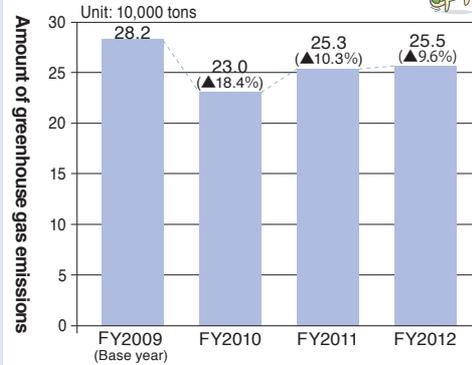
The Garbage Situation

Changes in the total amount of garbage and recyclables / population



※The total amount of garbage and recyclables for the period ending in September 2013 was down 2.1% (compared to FY2009).
 ※Figures in brackets are in comparison with FY2009

Changes in greenhouse gas emissions from garbage disposal



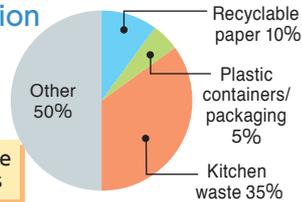
※Figures in brackets are in comparison with FY2009

The composition of garbage

Results of the FY2012 garbage composition studies (ratio by weight)

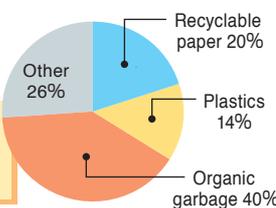
Burnable garbage from households

Burnable garbage generated by **households** includes 10% recyclable paper and 5% plastic containers/packaging.



Burnable garbage from businesses

Burnable garbage generated by **businesses** includes 20% recyclable paper and 14% plastic industrial waste.



Kitchen waste is found in 35% of burnable garbage from households and in 40% of burnable garbage from businesses.



Garbage disposal

We have been maintaining a safe and assured system in all stages from the collection, transport, processing and disposal of garbage. Responding to a graying population with a low birth rate, we have acted with speed to ensure none of our citizens has trouble with their garbage, such as by increasing opportunities for Fureai collection.

Steady engagement will continue to be needed in pursuit of safe, secure, and stable garbage processing and to deal with the diversifying needs of citizens.

Providing information that can be easily understood

It has been commented that trends in the amount of garbage and recyclables by both households and businesses are difficult to visualize and that it is difficult to see the results of our citizens' efforts in our goal of reducing the amount of garbage and recyclables.

To ensure we all put the 3Rs into action even more, we must communicate the results gained through our efforts and the importance of environmental action, such as following the 3Rs, in an easily understandable way.

5 Approach to the Second Term Promotion Plan



We will act under the following concepts to reduce the total volume of garbage and resources used as well as greenhouse gas emissions from garbage incineration to reduce environmental impacts and ensure safe, secure and stable garbage processing.

Approaches

1

Kitchen waste | **Plastics**
Recyclable paper

Further promotion of the 3Rs



Reduce garbage itself
Reduce



Use again
Reuse



Make it into a resource
Recycle

We pursue further **promotion of the 3Rs** by thorough garbage separation and recycling, as well as approaches towards **reducing and reusing garbage, focusing on the reduction of kitchen waste, plastics and recyclable paper.**

Approaches

2

Examination of new ideas for recycling methods



We consider **new ideas for recycling of small home electronics, kitchen waste and plastic products**, which are mostly incinerated at the current time.

Approaches

3

Promotion of proper disposal management



Following in the wake of the Great East Japan Earthquake, we will engage in **appropriate maintenance of facilities, disaster prevention measures, the effective use of energy and more** in order to make safe, secure and stable garbage processing even more assured than before.

Approaches

4

Providing information that can be easily understood



We will **communicate information on the necessity of these efforts and their successes in ways that can be easily understood**, to ensure everyone puts the 3Rs into practice.

6

Concrete Initiatives for the Second Term Promotion Plan

1 Learning about the Environment / Spreading Awareness

- Providing easily understandable information to all our citizens and businesses.
- Promoting awareness in accordance with community characteristics and the people involved.
- Strengthening awareness in offices, plants and elsewhere.
- Taking action for advertising / raising awareness using diverse opportunities and media.



2 Efforts to Reduce Garbage (Limiting the amount of garbage)

- Promoting the reduction of garbage through utilizing Yokohama R Hiroba and so on.
- Making efforts to fully remove out the water from kitchen waste and to reduce the amount of food thrown away untouched.
- Expand the use of personal reusable shopping bags, bottles and chopsticks.



3 Measures to reduce household waste

- More thorough separation of garbage, e.g. for recyclable paper and plastic containers/packaging and so on.
- Examination and promotion of new ideas for recycling methods for small home electronics or kitchen waste.
- Encourage the local community collection of recyclables to help revitalize local communities, and implement measures to prevent resources, etc. being taken away.
- Providing considerate services tailored to our citizens' needs, e.g. Freai collection.



1



Visiting lessons with the 3R Dream car

2



Using personal recyclable drink containers

3



The local community collection of recyclables



● These are the main initiatives we will undertake for the four years from FY2014 to FY2017.

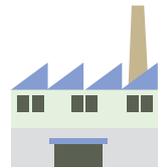
4 Measures to reduce business garbage

- Encourage the reduction / recycling of business-related food waste.
- Thorough instructions for separation of garbage in incoming inspections for garbage to incineration plants.
- Thorough individual guidance through onsite inspections of businesses that generate garbage.
- Accelerate voluntary efforts for garbage reduction / recycling such as by certifying businesses actively engaged in the 3Rs as "Specially Commended 3R Businesses."



5 Processing and disposal of garbage

- Appropriate maintenance of facilities, including repair work, etc.
- Extending the useful life of the age-deteriorated Tsuzuki Plant.
- Taking measures to extend the life of the Minami Honmoku Final Waste Disposal Site, and working to develop a new final waste disposal site.
- Efficient use of incinerated ashes to ensure stable operations for landfill waste.
- Full disaster prevention measures to secure a garbage disposal system in readiness for disasters.
- Efficient use of energy e.g. through power generation by incineration of garbage to reduce environmental impacts.



6 Establishing a Clean City

- Raise full awareness of the Street Smoking Prevention and Anti-litter Ordinance and to prevent people smoking cigarettes while walking.
- Increased monitoring such as nighttime patrols in areas where illegal dumping often occurs.
- Supporting voluntary beautification activities in line with the actual local circumstances.

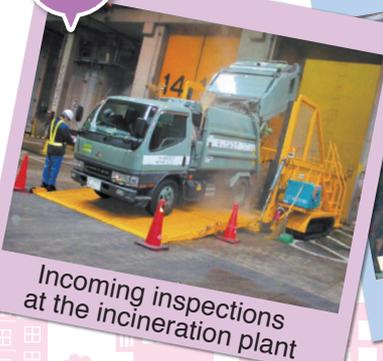


7 Disposal of Human Waste

- Stable collection and disposal of human waste.
- Measures for human waste disposal if a disaster occurs.



4



Incoming inspections at the incineration plant

5



Tsuzuki Plant (Operational April 1984)

6



Beautification / clean-up activities

7



Awareness of human waste disposal in case of disaster

7 Requests to Our Citizens - To Promote the 3Rs

When throwing away kitchen waste, make sure to **remove the water from it as much as possible!**



A year's worth of water removed from the kitchen waste is enough for the incineration plant to burn sufficient power for 170,000 households to use in a day.

Stop the **food loss** in your homes!



Every year 20,000 tons of food is thrown away untouched! Before you go shopping, check what you have in your refrigerator, and only buy what you need.

We can reduce the weight of garbage by 10% by removing the water from kitchen waste. Please cooperate with us to achieve this by squeezing it, by drying it and ensuring it stays dry.

Make sure you **Sort** your garbage!



Burnable garbage contains many recyclables such as recyclable paper and plastic containers/packaging. Please keep up the good work of separating and recycling your garbage.

Using only what we need, in a **cool** Yokohama style

Use your own **personal reusable shopping bags!**



Each year every household throws away 200 plastic shopping bags without using them as garbage bags! Let's try not to receive unnecessary shopping bags or wrappings.

Reduce leftovers with **Eat Everything Cooperating Restaurants and shops!**



To reduce leftovers at restaurants, etc., we will expand cooperating Eat Everything Cooperating Restaurants that offer small-volume menus and encourage customers to finish their food. Please actively support these establishments.

Dry out pruned branches or cut grass!



Drying out pruned branches and cut grass for two days reduces the weight by 40%. Place the branches and cut grass into a bag without sealing the bag to let the dried branches dry out.

If we dry out pruned branches and cut grass over a year, the incineration plant can burn enough to generate sufficient power for 210,000 households to use in a day.

*Data based on estimates from FY2012 garbage composition studies and other research.

City of Yokohama Resources and Waste Recycling Bureau, Resources and Waste Policy Division
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