Business Related Waste Reduction

in Osaka City

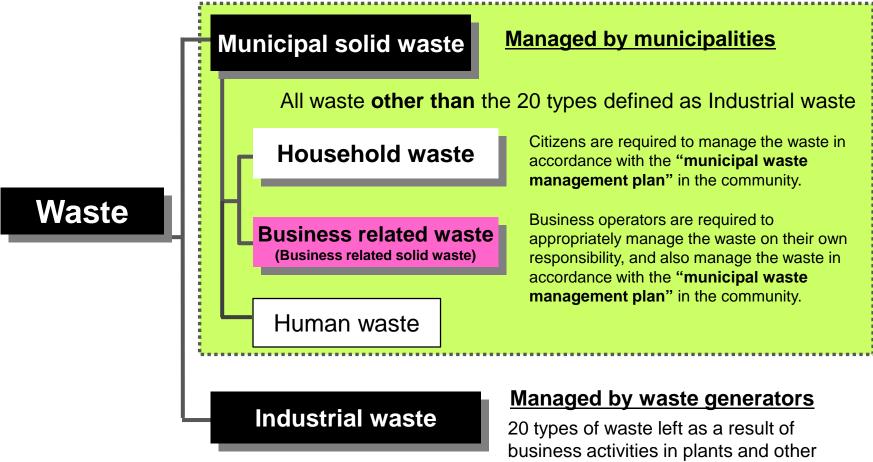
S. S. C.LU YVVII

September 2018

City of Osaka

Classification of Waste in Japan

Waste Management and Public Cleansing Law (Waste Management Law)



business establishments

(Specified by the Cabinet Order)

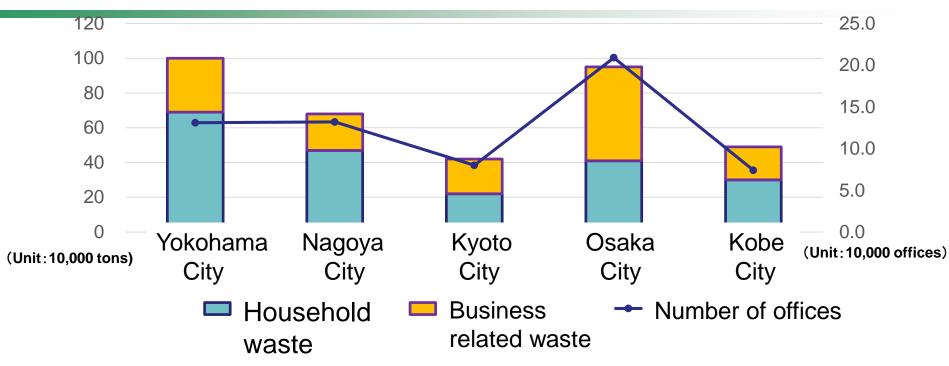


Types of waste	Collection and transportation	Intermediate disposal(%)	Landfill disposal
Household waste	Osaka City (Direct management and consignment)	Osaka City, Environmental facilities association(%)	Environmental facilities association
Business related waste	Waste service companies licensed by Osaka City, and businesses		
Environmental waste	Osaka City (Direct management and consignment)		

X Intermediate disposal indicates incineration and crusher.

X The part of intermediate facilities and landfill sites are operated by Environmental Facilities Association whose members included Osaka City, Yao City and Matsubara City.

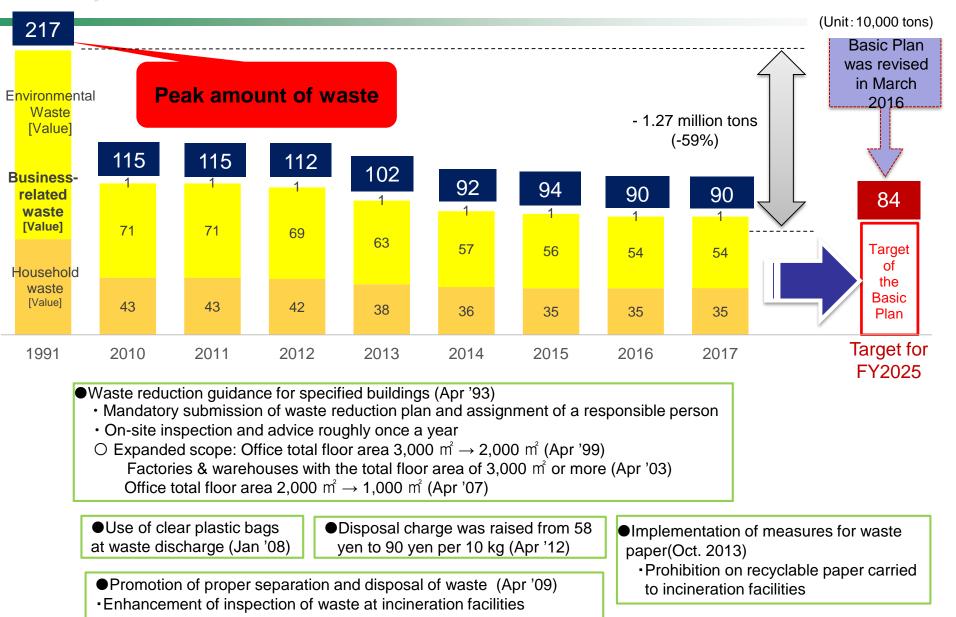
Amount of Waste Collection in Major Cities



*Amount of waste collection : amount of waste carried to municipal disposal facilities

Number of offices	209 thousand offices		
	(Second largest is Nagoya City, 131 thousand offices)		
Daytime population in Osaka city	/ 354 millions people		
	(Second largest is Yokohama City, 341 millions people)		
Rate of daytime population	131.7%		
	(Second largest is Nagoya City, 112.8%)		
Rate of business related waste in Osaka City 57.1%			
	(Average of other major cities, 36.9%)		

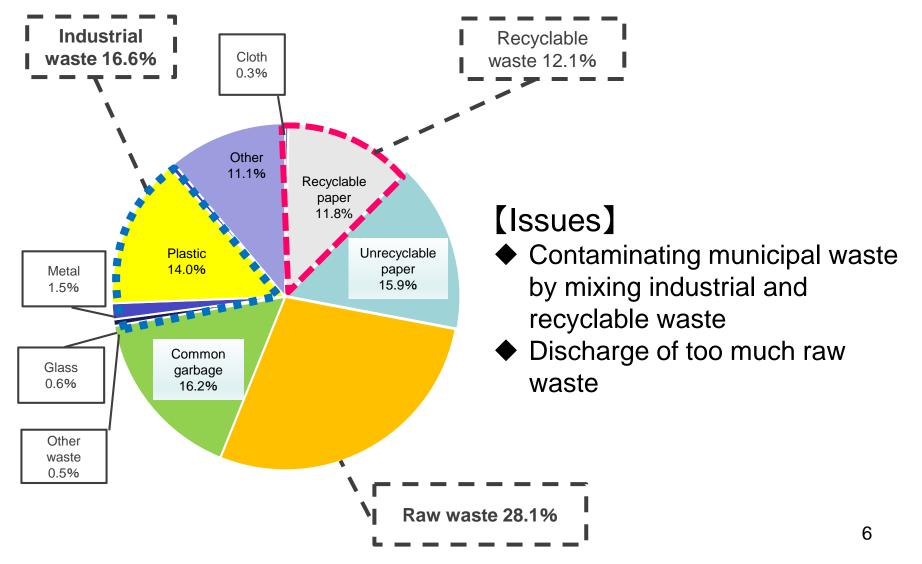
Treated Amount of Municipal Waste in Osaka City



Regulations for businesses and waste service companies

Composition of Business Related Waste

FY 2017 survey of business related waste in Osaka City





Business Related Waste Measures

For reduction and proper disposal of waste,

1. Guidance for businesses



2. Checking for improper waste at incineration facilities



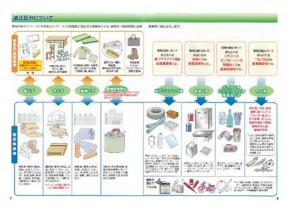


Guidance for Businesses

Guidance of waste reduction for specified buildings

- The target of guidance is offices, stores and other structures with a total floor area of 1,000 m² or more. Number of buildings; 4,287
- Mandatory submission of waste reduction plan yearly and assignment of a person in charge
- On-site inspection and advice roughly once a year
- Dissemination of waste reduction





Basic information on waste management



Separation, recycling and disposal of waste by business sector 8

Seminar and Award for Waste Reduction Promotion





Seminars (2017 theme: reduction of food loss)

Introduction of good practice cases

Osaka city is establishing a system to officially commend owners and administrators of buildings for excellent performance as initiatives for waste reduction and proper disposal.



Award

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Waste Inspection at Incineration Facilities

[FY 2017]

- Number of waste collection vehicles at incineration facilities ; 388,038 vehicles
- Rate of inspection ; 5.4%
 Inspected vehicles ; 20,883 vehicles
- Number of cases instructed ; 852 cases Rate of instruction ; 4.1%
- Number of guidance cases ; 2,817 cases



[Instructed items]



Industrial waste



Recyclable paper



Not using clear plastic bags



Collaboration	City of Osaka	Support policies on environmental and climate change through intercity cooperation
	Global Environment Center (GEC)	Support development of environmental and low carbon projects utilizing Joint Crediting Mechanism (JCM),etc.
UNEP-IETC	Businesses in Osaka and Kansai	Proposing solutions based on advanced environment and low carbon technology



Thank you very much











FOR THE DEA