

Osaka City Plastic Waste Management Towards a Circular Economy

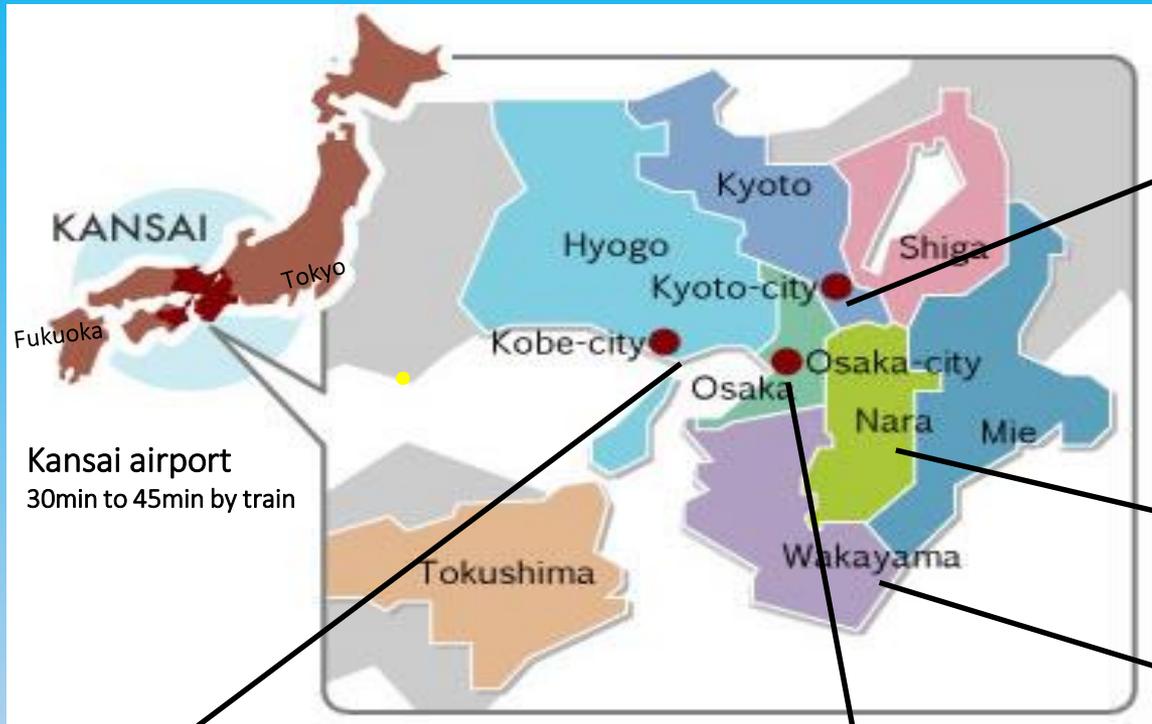
Makoto Mihara

Osaka City Government

Location of Osaka and Kansai

Osaka City is the second largest commercial city next to Tokyo.

Osaka City is in the center of Kansai area (Osaka, Hyogo, Kyoto, Wakayama, Nara, Shiga).



Kyoto



Nara



Todaiji temple



Nara park

Kobe



World-famous
"Kobe beef"

Osaka



World Heritage site "Mozu and
Furuichi old tombs"

Wakayama



Osaka City's International Cooperation

1. City to city collaboration

- Supporting the development of low carbon cities
- Contributing to environmental conservation measures



Ho Chi Min City, Vietnam



Quezon City, Philippines



Discussion on environmental contamination prevention

2. Collaboration with UNEP

- Holding international symposium on waste management
- Environmental education for high school students and kids



UNEP IETC, Osaka City



International symposium on environment 2018 in Osaka



Hit SDGs target with paper airplane game for Kids

Osaka City's International Cooperation

3. Acceptance of trainees from overseas



Waste landfill sites in Osaka City



Lecture for waste management



Environmental monitoring

- In 2018, more than 200 people from 9 countries visited sites and attended lectures on Osaka waste management initiatives.

4. Public and private partnerships -Team OSAKA Network-

Osaka City has a business network with more than 140 Japanese companies called “**Team Osaka Network**” to create overseas environmental projects.

<Scope of business>

- Vietnam (Ho Chi Minh City) 2013-
- Philippines (Quezon City) 2018-
- India (Maharashtra State) 2018-
- Thailand (Chonburi Province, etc.) 2019-



Promotion of Plastic Resource Recycling

2019 G20 Osaka Summit



Source: MOFA

“Osaka Blue Ocean Vision”

We aim to reduce additional pollution by marine plastic litter to zero by 2050.

2021 World Masters Games



2025 World Expo



- Theme: Designing Future Society for Our Lives
- Project area: 155ha
- Schedule: May 3 to November 3, 2025
- Projected visitors: Approx. 28 million
- Economic result: 2 trillion yen

Promotion
of plastic
resource
recycling

Osaka Declaration toward Zero Plastic Waste

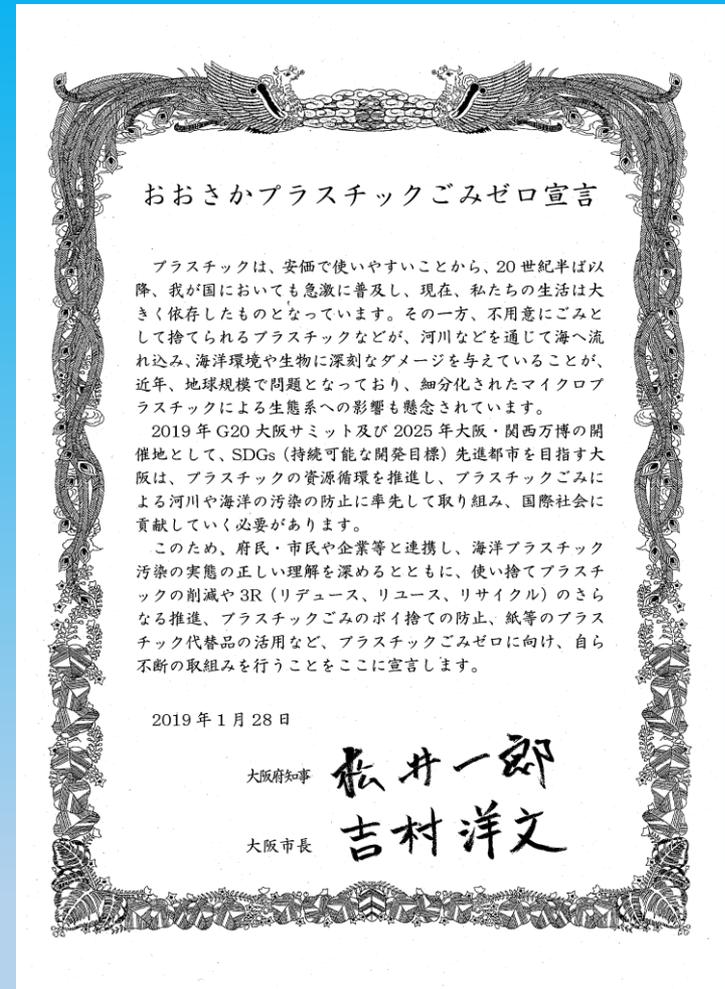
28 January 2019



Governor of Osaka Prefecture and Mayor of Osaka City

Plastic waste reduction initiatives

1. Osaka eco-bags campaign
2. New collection and recycling system for plastic bottles
3. Collaboration with UNEP
4. City-city collaboration with Shanghai City
5. Stakeholder meeting promoting international cooperation
6. Goal of Osaka City plastic waste reduction



Osaka Eco-bag Campaign

Promotion of “Osaka eco-bag campaign” to reduce single use plastics

◇What is Osaka eco-bag campaign?

Carrying own eco-bag on a daily basis to reduce use of plastic bags when shopping

◇Promotion of Osaka eco-bag campaign

In collaboration with various stakeholders, raising awareness of plastic waste problems and changing lifestyle

◇Specific initiatives

- Creation of videos in collaboration with popular entertainers
- Public awareness campaigns
- Creation of posters with universities

YouTube channel

<https://www.youtube.com/channel/UCZgoJptGaPEQnJSaV97qAJQ>



Signing of agreement on plastic bag reduction with business and NGO (7 June 2019)



エコバッグをまいしょう
おおさかプラスチックごみゼロ宣言

※ 大阪府環境局 事務局 環境・ごみ課 電話: 06-6931-2259 FAX: 06-6931-1581

Osaka City Waste Separation at Households



Ordinary waste
Including food waste

Twice a week



Recyclable waste

Once a week



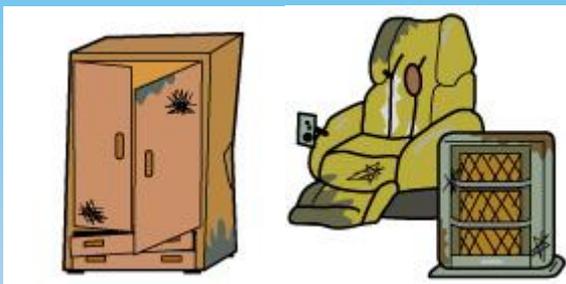
Plastic containers

Once a week



Used paper and clothes

Once a week

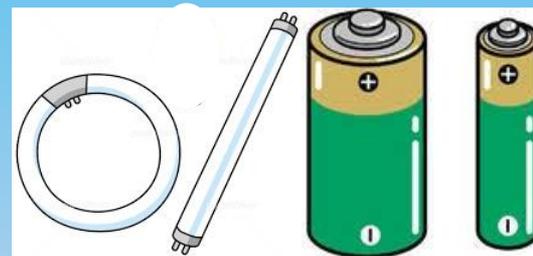


Bulky waste

At the request of a resident

The collection date can be designated within a month

Hazardous waste
Ex. dry-cell batteries,
fluorescent lighting
tubes



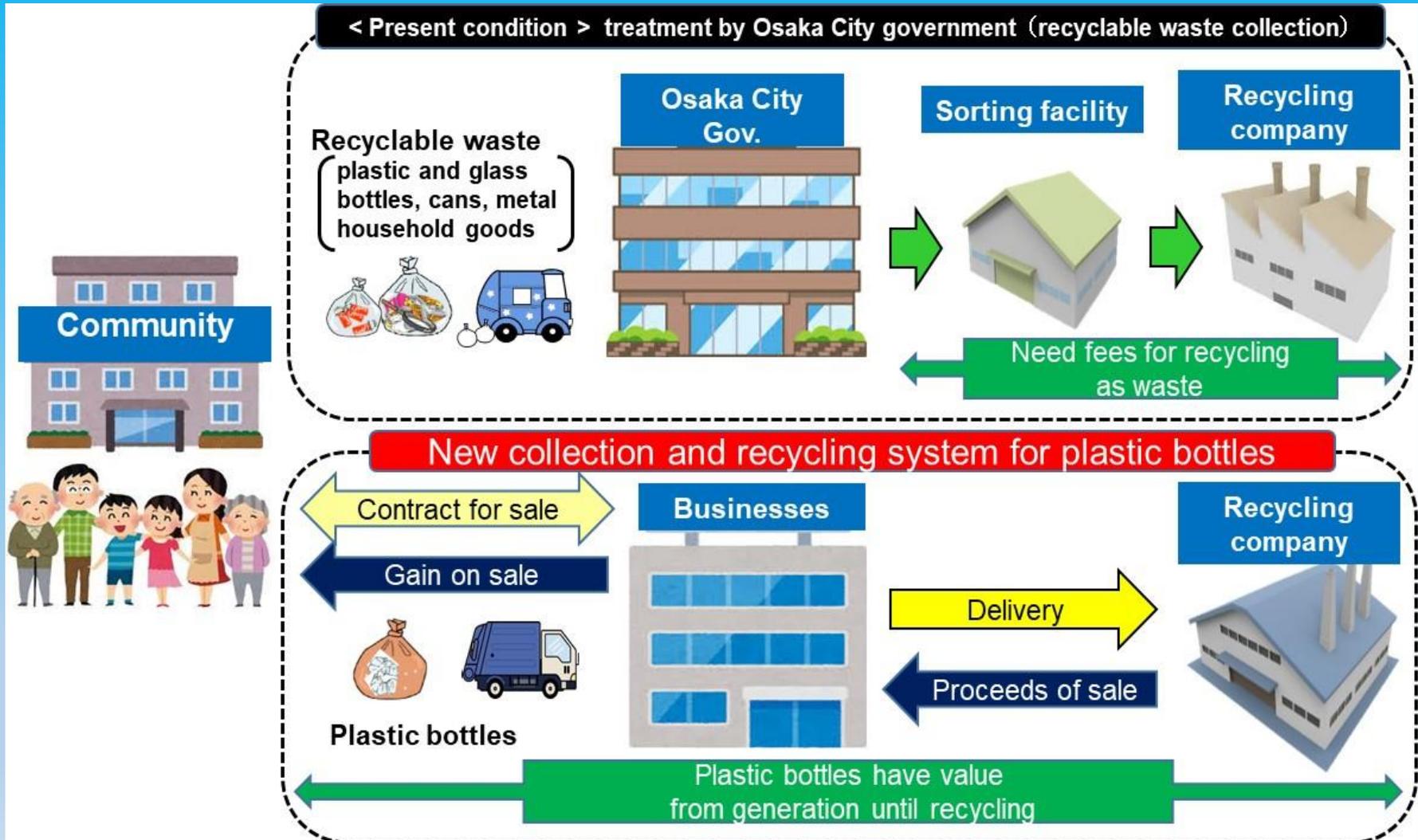
Collection boxes are installed
in public facilities and other
places to collect recyclable
waste brought by residents



Collection boxes

New Collection and Recycling System for Plastic Bottles

Cooperation of communities and businesses towards a plastic circular economy



Collaboration with UNEP

UNEP Symposium on Plastic Waste Problems (22 May 2019, Osaka City)



Participants from home and abroad



Panel discussion



Message from UNEP to G20 Osaka summit and G20 Ministerial meeting

SDGs poster

The 10th anniversary “Hankyu and Hanshin future dream and town project”
Posting on trains with SDGs stickers



OSAKA CITY 大阪市

14 海の豊かさを 守ろう

大阪府は国連環境計画 (UNEP) 及び地球環境センターと連携してプラスチックごみの削減に取り組んでいます。

SUSTAINABLE DEVELOPMENT GOALS

国連環境計画 国際環境技術センター
United Nations Environment Programme
International Environmental Technology Centre
大阪府豊後区豊後公園2-110

公益財団法人 地球環境センター
GEC Global Environment Centre Foundation

City-City Collaboration with Shanghai City

Shanghai City Household Waste Control Act , July 2019

“一鼓励、一严禁、两分类” 《上海市生活垃圾管理条例》(以下简称《条例》)自2019年7月1日起施行

2019年

上海市生活垃圾分类投放指南

上海市生活垃圾实施四分法: 可回收物 有害垃圾 湿垃圾 干垃圾

绿色上海 垃圾分类查询平台

★ 《条例》规定:产生生活垃圾的个人是生活垃圾分类投放的责任主体,应当将生活垃圾分别投放至相应的收集容器。

上海市绿化和市容管理局

Issues of waste disposal in Shanghai City

- ◆ Waste reduction
- ◆ Recycling of separated waste
- ◆ Efficient waste disposal

- Using the “Guidebook for the Development of Sustainable Cities, Focusing on Resource Circulation and Waste Management” by APEC
- Promotion of city-city collaboration

Promotion of 3Rs and proper disposal of waste

Expansion to other cities and areas

Stakeholder Meeting Promoting International Cooperation

- We hold meetings with stakeholders including UNEP-IETC and GEC to transfer Japan's cases including plastic reduction, and SDGs initiatives.



Example of recycling



- Japan's case of plastic waste reduction
- New proposals from residents and businesses to solve plastic waste problems



Stakeholder's meeting

- Synergy with the cooperation of residents and businesses
- Plastic waste reduction and SDGs implementation in overseas
- Participating in environmental events and holding seminars

- Participation in good practices with various stakeholders
- SDGs implementation including plastic waste reduction in overseas
- Dissemination of information through international events and networks
- Making reports on SDGs implementation and sharing it with the people involved

- For example, we discuss how to transfer examples of plastic upcycling overseas at the stakeholder meeting.

Goal of Osaka City Plastic Waste Reduction

By fiscal year 2025

1. 25% reduction of single use plastic compared to fiscal 2005
2. 60% recycling of plastic containers
3. 100% recycling of plastic bottles
4. Other plastic waste will be reduced or used effectively, including thermal recycling



Waste-to-energy plant

Thank you very much!

