TMG’s Policy toward E-wastes
Recycle and Appropriate Treatment

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TATSUAKI KATSUKI
Outline

1. Introduction — About Tokyo —
   (1) City Profile
   (2) Role of TMG on Waste Management

2. TMG’s Policy — e-waste Management —
   (1) Planning and Coordinating 3Rs Policy
   (2) Financial and Technical Support for Municipalities
   (3) Administrative Guidance to Industrial Waste Treatment Companies
Japan
Area: 378 thousand km\(^2\)
Population: 127 million
No. of Prefecture: 47
(as of March 1, 2016)

Tokyo
Area: 2,188 km\(^2\)
Population: 13 million
No. of City: 62
(as of March 1, 2016)

Osaka
(We are here)
City Profile

Suburban area
“Tama area”
Area: 1,160 km²
Population: 4,224,433
No. of municipalities: 30

Central area
“23-city area”
Area: 627 km²
Population: 9,256,625
No. of municipalities: 23

Island area
“Izu/Ogasawara islands”
Area: 404 km²
Population: 26,289
No. of municipalities: 9

As of 29th Jan 2016
Role of TMG regarding Waste Management

Classification of Waste

Waste

Household

Not 20 items

Business

20 items

General Waste

※ Municipalities bear a responsibility
Municipalities license business to treat
general waste

Industrial Waste

※ Dischargers bear a responsibility
Prefectures license business to treat
industrial waste

TMG’s Responsibilities

Planning and Coordinating 3Rs Policy in Tokyo

Financial and Technical Support for Municipalities

Administrative Guidance to Industrial Waste Treatment Companies

Reference: Tokyo Metropolitan Organization Rules
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Model Project — Collection of Small Electronic Devices from Business —

**Summary**
- E-waste from business is classified as industrial waste. Small companies are suffering from e-waste treatment because the fewer they are, the more it relatively costs to treat them considering economies of scale.
- Small electronic devices from home can be transported by postal services because DOE gives certification to some companies. TMG & a waste treatment company cooperated to expand this model to e-wastes from business in Tokyo.

**Outcome** (Number of Collection (FY2015))

<table>
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<tr>
<th>PC</th>
<th>Cell Phone</th>
<th>Other</th>
<th>Sum</th>
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<tbody>
<tr>
<td>12,468</td>
<td>1,192</td>
<td>7,129</td>
<td>21,016</td>
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※About Model Project
TMG advertised for business who can contribute to the following policies.
① Reduction of Resource Loss
② Promotion of Eco-Material Use
③ Promotion of Further Circular Use of Waste
List of Recycling Facilities in Tokyo Super Eco Town

Super eco town is an area where 10 recycle and waste treatment facilities are located. TMG encourages construction of them and aims for sustainable society.

- PCB Waste Treatment
- Waste to Energy (Waste Fuel Electric Power Generation Plant)
- Waste to Energy (Biogas Power Generation from Food Waste)
- Buried waste (buried before the establishment of waste mgt law)
- Debris and drilling mud
- Construction and Demolition Waste
- E-Waste
- Food Waste
- Waste tile carpet
Cooperation with Municipalities

Tokyo & Municipalities Conference for Sustainable Resource Management in the Future
- Olympic game will be held in Tokyo in 2020. TMG and municipalities are seeking a further cooperation for sustainable use of resources by taking this opportunity.
- Discuss how to manage final disposal site sustainably.

Suburban Area Waste Management Conference
- Share information with Tama municipalities
- Discuss problems

Island Area Waste Management Conference
- Share information with Island municipalities
- Discuss problems
Support for Municipalities

- Hold a Workshop for Municipalities
  — to Learn Related Laws
  — to Learn How to Conduct an Administrative Guidance

National Legislation

- Basic Act for the Sound Material-cycle Society
- Effective Resource Utilization Act
- Waste Management Act
- Containers & Packaging Recycling Act
  - Home Appliance Recycling Act
  - Construction & Demolition Waste Recycling Act
  - Food Waste Recycling Act
  - End-of-Life Vehicle Recycling Act
  - Small Electronic Devices Recycling Act

- Conduct an On-site Inspection with Municipalities
Inspection to Inappropriate Treatment Sites

Home Appliance Treatment Flow Chart (FY 2012)

- Home Appliance: Air Conditioner, TV, Refrigerator & Cloth Washer
- Home Appliance (from Home & Business): 17,020
  - Construction Demolition: 420
  - Waste Article Collector: 2,650

Recycled by Manufactures (Appropriate Treatment): 11,340
- Sold as Reuse Items: 4,100
  - In Japan: 270
  - Export: 1,380
- Industrial Waste Disposal Companies: 200
- Scrap Metal: 1,320
  - In Japan: 20
  - Export: 1,300
- Treatment by Municipalities: 52

Reference: DOE (Omit Some Data)

Possibility of Inappropriate Treatment

*TMG has been conducting on-site inspections for appropriate treatment of these items.*

Number of Inspection (FY 2016)

<table>
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<th>Number</th>
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<td>C&amp;D</td>
<td>840</td>
</tr>
<tr>
<td>WAC &amp; Scrap Metal</td>
<td>543</td>
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Improper Construction & Demolition
Stockyard of an Illegal Waste Article Collector
Illegal Treatment of Scrap Metal
TMG revoked a permission of an industrial waste disposal company because it collected waste from household illegally.
Toward 2020, and further future

The Tokyo Organizing Committee of the Olympic and Paralympic Games is conducting the Tokyo 2020 Medal Project to manufacture the medals given at the Games from consumer electronics such as used mobile phones. As this project will be a stimulus to change people’s thinking and create a more sustainable society, TMG has been cooperating with this project.

Dismantle and pick up gold, silver, and copper etc. Recycle into 2020 medals