African Clean Cities Platform Training Program in Yokohama

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Resources & Waste Recycling Bureau
City of Yokohama
Overview of Yokohama

<table>
<thead>
<tr>
<th>Population</th>
<th>3.74 million</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area</td>
<td>435.3 km²</td>
</tr>
<tr>
<td>Population density</td>
<td>8,590 persons/km²</td>
</tr>
<tr>
<td>District</td>
<td>18 wards</td>
</tr>
</tbody>
</table>

(as of May 1, 2018)
TICAD in Yokohama

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TICAD 7 (2019)

TICAD 6 (2016)

TICAD 5 (2013)

TICAD 4 (2008)
Exchanges Between Yokohama and Africa

One School, One Country Program
Training Program in Yokohama

Closing Ceremony
Yokohama’s Expertise

- **Experience**
  - of Urban Problem Solving

- **Know-how**
  - of Waste Management Operations

- **Collaboration**
  - with both Citizens and Private Businesses
Yokohama’s Expertise

Experience of Urban Problem Solving
Rapid Economic Growth

Affluent Life

Increase in traffic volume
Rapid Economic Growth

Increased Amount of Large-Size Refuse (1970s)
Waste Volume and Population (1960s~2000s)

Over 40 years

Population: ×2.5
Waste Volume: ×16
Waste Volume and Population (2000s～)

- **Waste Volume**
- **Population**

- ▼ 43%

- Population (millions)
- Waste Volume (millions of tons)


- 2010
Flow of Waste & Resources

Sorted disposal

Collection

Burnables
Non-burnables
Recyclables

Incineration Plant

Intermediate treatment

Recycling Center

Recycling

Ash

Disposal site

Final disposal
Reduction of Waste & Resources

- **100%** 1,221,000 t
- **72.3%** 882,000 t
- **27.3%** 330,000 t
- **0.4%** 5,400 t

**Collection site**
- Burnables
  - Non-burnables
  - Recyclables

**Recycling Center**

**Incineration Plant**

**Intermediate treatment**

**Disposal site**

**Recycling**

**Final disposal**

- **1 / 10** 122,000 t
- **1 / 7** 130,000 t
- 1,221,000 t
- 882,000 t
- 330,000 t
- 5,400 t
- 100%
- 27.3%
- 72.3%
- 0.4%

**Reduction of Waste & Resources**

- **5,400 t**
- **122,000 t**
- **1,221,000 t**
- **882,000 t**
- **330,000 t**
- **5,400 t**
- **100%**
- **27.3%**
- **72.3%**
- **0.4%**
Yokohama’s Expertise

Know-how of Waste Management Operations
Sorted Disposal

Sorting Categories: 10 categories, 15 types

- **Burnables**
  - Plastic containers/wrapping
  - Oversized waste
  - Cans, glass bottles, plastic bottles
  - Small metal items

- **Non-burnables**
  - Small metal items
  - Oversized waste
  - Spray cans
  - Used batteries

- **Paper**
  - Newspapers
  - Cardboard
  - Cartons
  - Magazines/other paper

- **Clothes/Fabrics**
  - Sorted Disposal
Collection Sites

73,000 Collection Sites

Visiting a Collection Site
The Collection Office in each of the 18 wards collects household waste

- Garbage Trucks: 900
- Staff Members: 1,000

Visiting a Waste Collection Office

Average Garbage Truck (2 t)
Intermediate Treatment (Incineration)

Kanazawa Plant
Year of Construction 2001
Capacity 1,200 tons/day
Power Generation 35,000 kW
Construction Cost 569 million $
Intermediate Treatment (Recycling)

Visiting a Recycling Company

Plastic Bottles → Fiber
Final Disposal

Visiting a Final Disposal Site

Visiting a Water Treatment Facility
Collaboration
with both citizens and Private Businesses
Environmental Education

Educational Programs 1,400 times/year

Educational program by collection offices

Waste Sorting Game

Educational Material on the Environment
Recycling technology

Visiting a Private Business
Exchange with Children

Visiting a Junior High School
Presentation of Action Plans

A Scene from the Plan Presentations
Toward Clean African Cities

Visiting an Incineration Plant

Visiting a Recycling Center
Thank you for your attention.

INQUIRIES:
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