Promotion of 3R Activities in Tokyo

Waste Management Division Bureau of Environment Tokyo Metropolitan Government

Basic Concept of the Program

<u>Transformation for Sound Material</u> <u>Cycle Society</u>

[Our target : Sustainable Sound Material Cycle Society] Consumption of natural resources and waste generation are both reduced in line with promotion of waste reduction, reuse and recycling activities.

We can enjoy safe and comfortable living environment by means of minimization of the risk for waste disposal.

Waste Management of Tokyo

According to "Waste Management Program", we are implementing specific activities in order to reach Sound Material Cycle Society.

Plan objectives

- i) Reducing final disposal of FY 2010 into 1.6 million tons
 - (35% reduction compared to FY 2004)
- ii) Promoting recycling of waste plastics in order to reduce final disposal into zero
- iii)Increasing recycling of construction sludge by 50%

Plan objectives

iv)Establishing a management system of hazardous waste inside Tokyo Metropolis

 v) Strengthening extensive liaison in Metropolitan sphere in order to reduce illegal disposal of industrial waste into zero

vi)Establishing a system in which good industrial waste management contractors can raise their market value













Toward establishing a system in which good industrial waste management contractors can raise their market value

Recycling of Incineration Ash

Tokyo Super Eco-town Project

Object

To promote the development of advanced and highly reliable waste treatment and recycling facilities

Public-Private Partnership Method

TMG selected the private companies among applicants in 2002 Private companies acquired TMG land in waterfront area. Private companies are required to develop and operate the facilities.

TMG gave technical support for environmental aspects.

















Current Situation of E-Waste Recycling

 Home Appliance (TV set, Air conditioner, Refrigerator, Washing machine)

→Included Home Appliance Recycling Act

PC

 \rightarrow Designated as products which must be taken back after use by manufacturer

- Rechargeable Battery
 Designated as products which must be taken back after use by manufacturer
- Mobile phone, PHS, Rechargeable battery, Charger → Manufacturers are spontaneously take back and recycle them.

Recycling of Rare Matal

- Electric products and rechargeable batteries contain noble metal and rare metal
 - Noble Metal and Rare metal: gold, silver, cobalt, palladium, indium
- As Japan is an import-oriented country, it would be for us important to recycle those items.

	gold	silver	cupper	palladium
Per mobile phone	0.028 g	0.189 g	13.71 g	0.014 g
Per one ton of mobile phone	280 g	2 kg	140 kg	140 g
Cf. Per one ton of natural ore	0.92 g	93 g	12 kg	1.81 g

平成20年11月 総務省会議資料(循環型社会白書(平成13年度)より作成)から引用

Recycling activities for mobile phone

Mobile Recycle Network



- Collect all kind of waste equipments (mobile phone, rechargeable battery and charger) freely of all makers and telecommunications carrier
- Collect at about 10,400 mobile phone shop in Japan
- Hand out those equipments to recycler



Promotion of collecting mobile phone by the cooperation between TMG and Businesses

Council for promotion of products which include rare metal

- Study about cooperation between the Civil Service and Businesses for promoting rare metal collection included in mobile phone.
- Conduct test collection of mobile phone at university, subway station, etc. in order to inform the recycle system to the people and increase the number of collection for two month (Oct 2008~Dec 2008).

Trend of collection number of mobile phone and PHS



Setting up collection bo	ox in Tokyo
[Collection item] Mobile phone, PHS, Rechargeabl	le battery, Charger
Result (Collection an Mobile phone and PHS	
 Charger Rechargeable battery 	5 2 7



Attitude survey

Many people did not know the collection system, but think that they want to do recycling activity. Most strong reason to motivate people to participate recycling activity is security for keeping personal information safely.

For developing Sound Material Cycle society by promoting waste reduction and recycling

activities Citizen

should reduce waste as much as possible by the act such as selecting products which will not easily be waste.

Businesses

Discarding aspect: should conduct waste reduction activities, such as waste plastics etc..

Manufacturing aspect : should improve environmental friendly products and conduct collecting and recycling activities of end-of-use products.

TMG

should coordinate new resource recycling system which would be born by the cooperation of private companies and municipalities, make broad system.