



行政院環境保護署

Environmental Protection Administration  
Executive Yuan, R.O.C. (Taiwan)

# Resource Recycling in Taiwan

資源回收管理基金管理委員會

**Resource Recycling Fund Management  
Board**

# 1. Waste clean system and performance

廢棄物清理制度及現況



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## 背景說明 Introduction

### ▶ 臺灣人口數量及地理特性

#### Taiwan Demographic

- 總人口數：2,320萬人

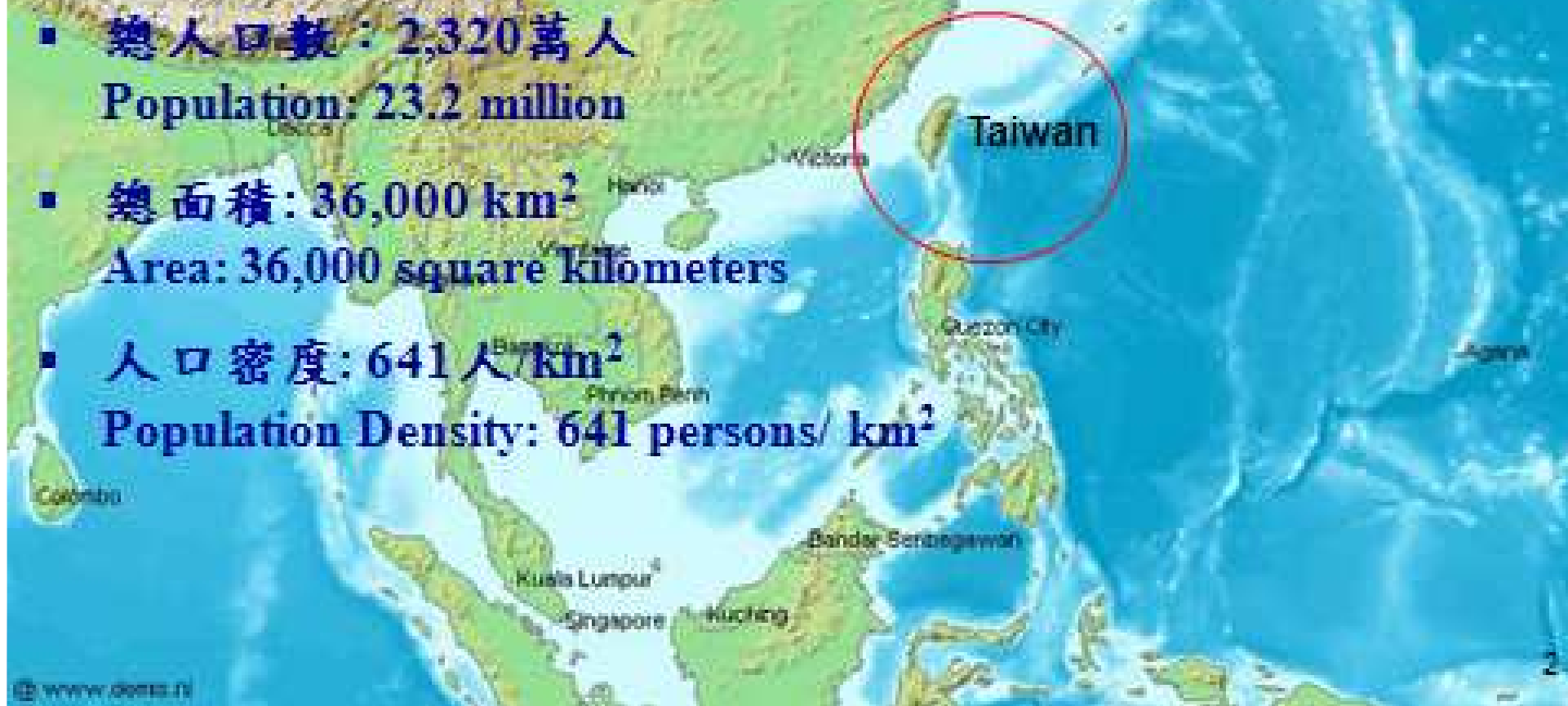
Population: 23.2 million

- 總面積：36,000 km<sup>2</sup>

Area: 36,000 square kilometers

- 人口密度：641人/km<sup>2</sup>

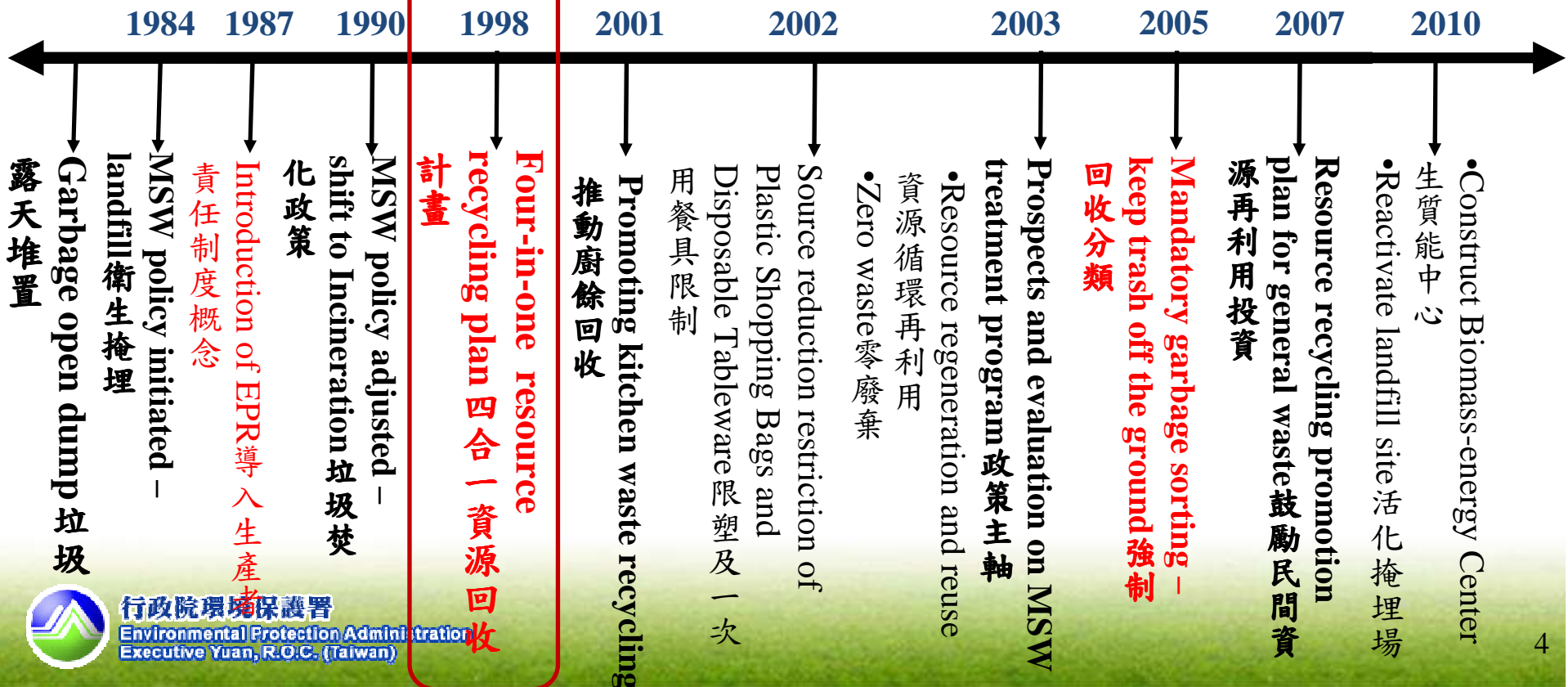
Population Density: 641 persons/ km<sup>2</sup>



# Evolution of Municipal Solid Waste Policy

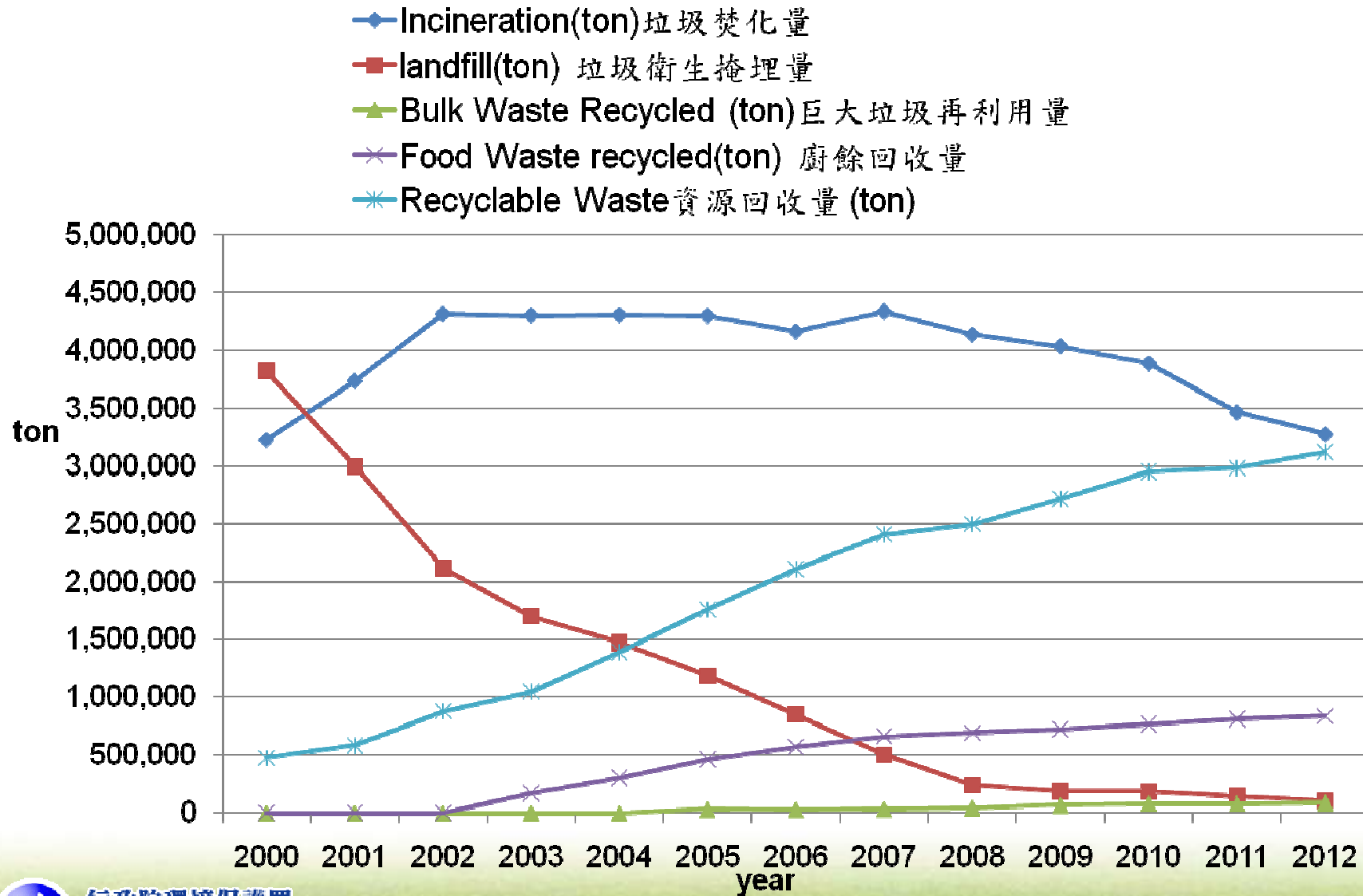
## 廢棄物管理制度沿革

Market-driven recycling only 自由市場	Extend. Producer Responsibility 生產者責任制	Producers pay recycling fees to eight recycling funds 八大基金會	The eight recycling funds are administered by EPAT's Recycling Fund Management Board 環保署資源回收基金管理回員會成立
			   

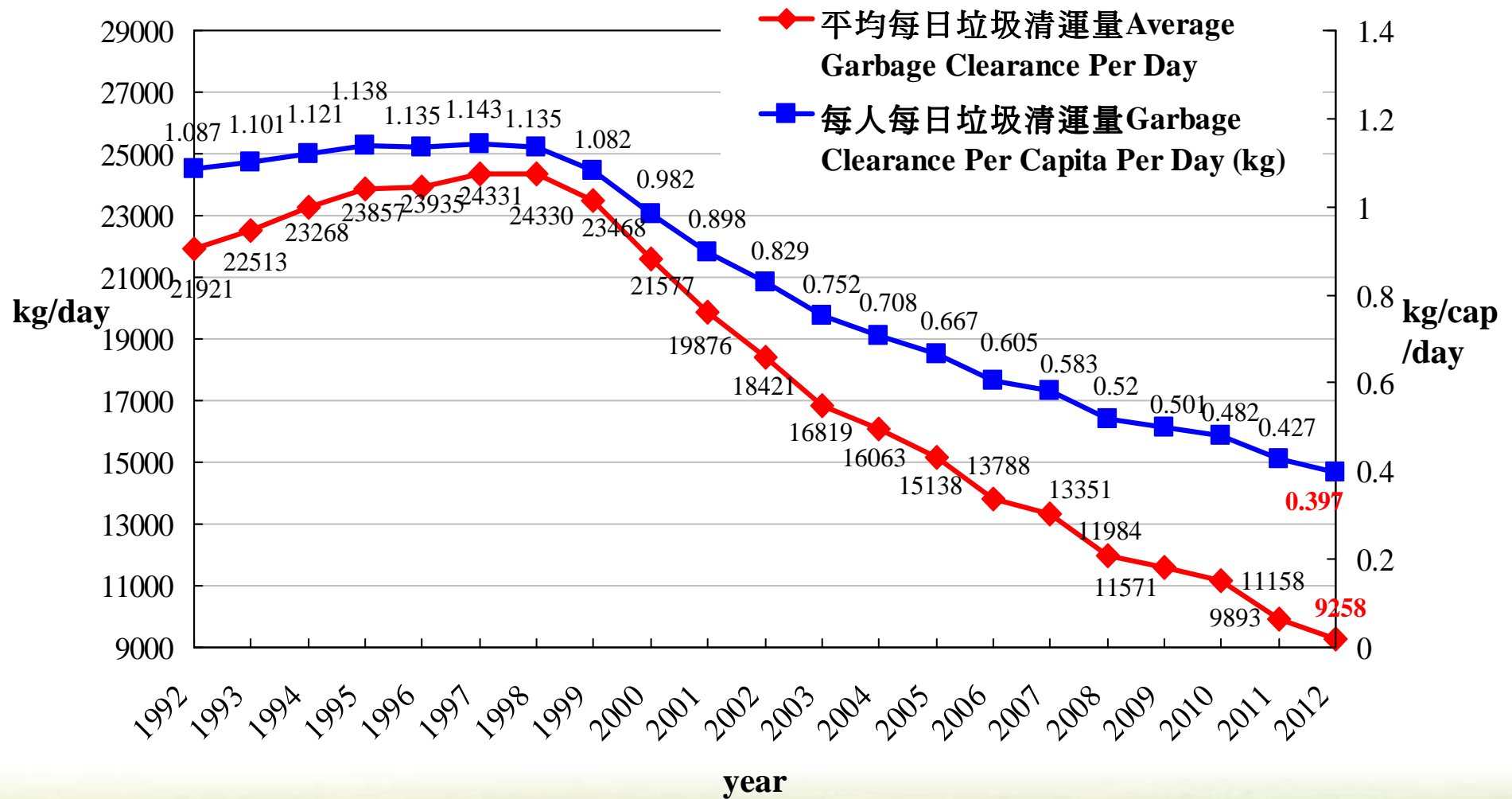


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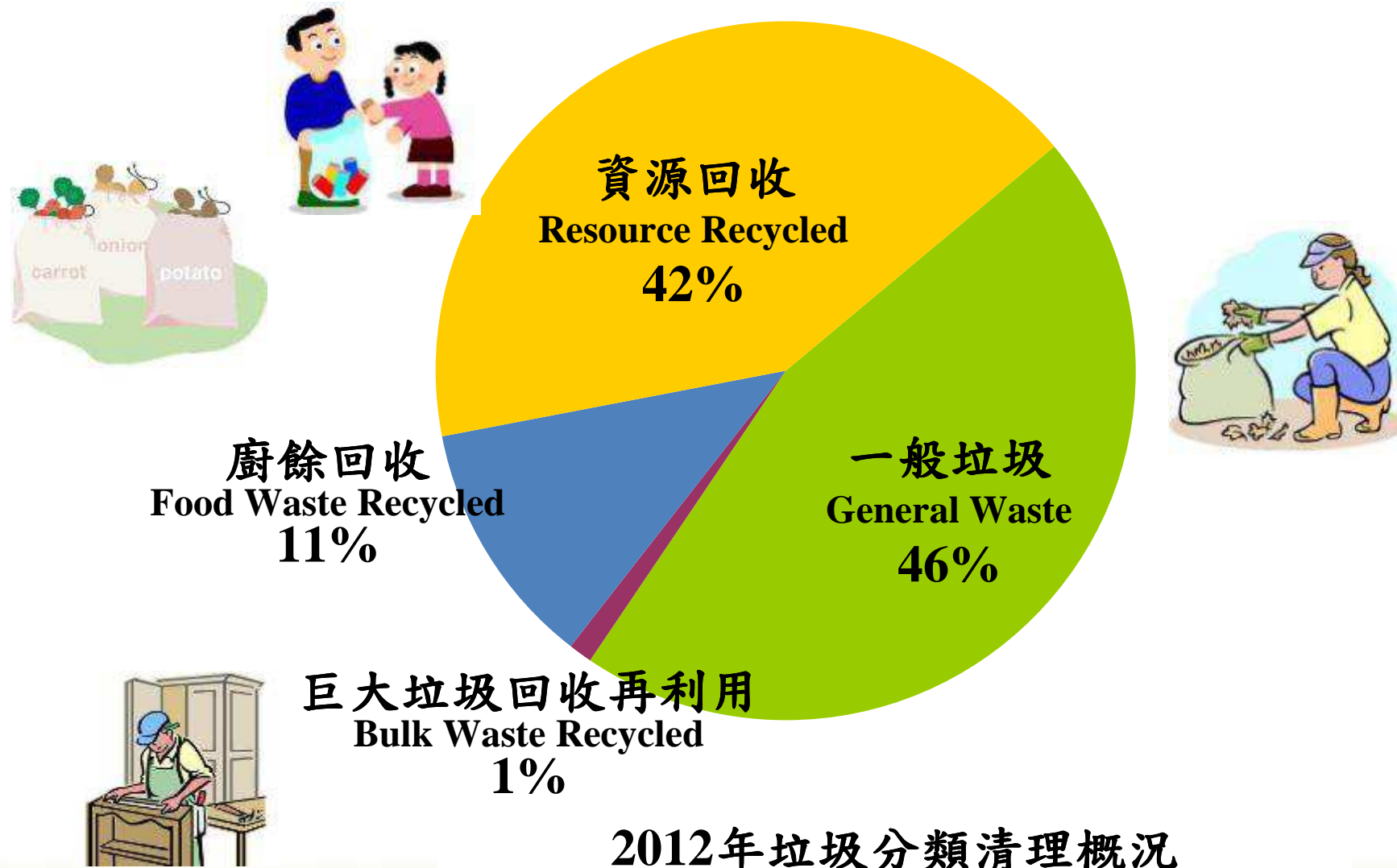
# MSW Clearance 一般廢棄物清理概況



# MSW Clearance 一般廢棄物清理概況



# MSW Sorting 廢棄物分類概況

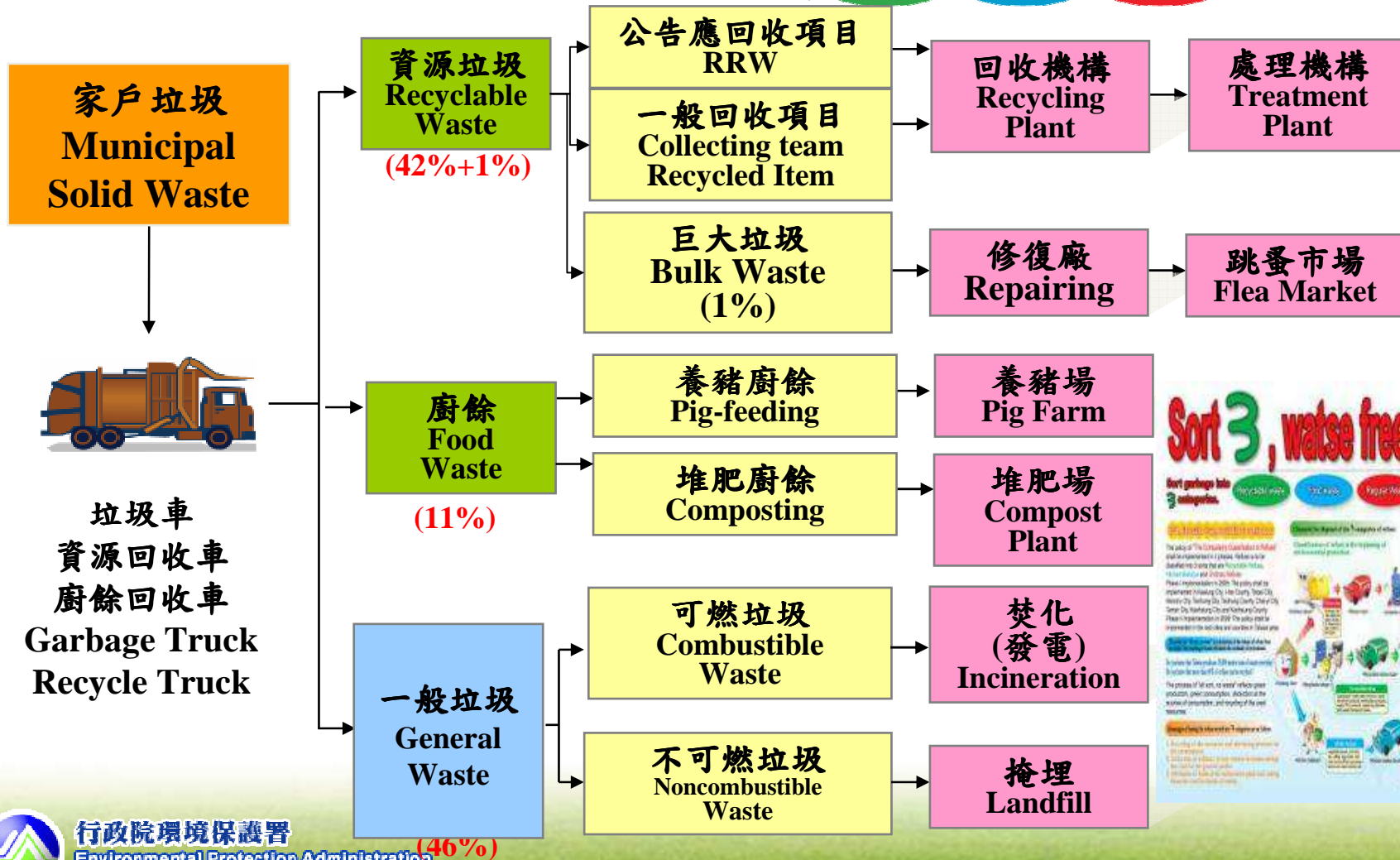


2012年垃圾分類清理概況

Municipal Solid Waste Sorting in 2012



# Clearance Structure 分類回收與清理架構





# Recyclable Waste 資源垃圾



1. 資源垃圾  
Recyclable Waste



2. 回收點  
Community Recycling Spot



3. 清潔隊  
Municipal collection team



4. 回收商  
Collector



5. 處理廠  
Recycler



6. 再生料  
Recovery Material

# Regulated recyclable waste (RRW)

## 公告應回收廢棄物

### 容器 Containers

1.鐵容器  
Iron  
container



2.鋁容器  
Aluminum  
container



3.玻璃容器  
Glass  
container



4.紙容器  
Paper  
container



5.塑膠容器  
Plastic  
container



6.農藥廢容器  
Pesticide  
container



### 物品 Objects

7.乾電池  
General battery



8.機動車輛  
Automobile\Motorcycle



9.輪胎  
Tire



10.鉛蓄電池  
Lead-acid  
battery



11.資訊物品  
IT  
equipment



12.電子電器  
Home  
appliance



13.照明光源  
Light  
bulbs/tubes



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•責任業者需繳費 Recycling fee must be collected

# Recyclable Waste 資源垃圾

- 執行機關一般廢棄物應回收項目  
Recyclable Waste Recycled by Municipal Collection Team

- 紙 Paper
- 鐵 Iron
- 鋁 Aluminum
- 玻璃 Glass
- 塑膠 Plastic
- 光碟片 CDs
- 行動電話及其充電器 Cell Phone & Charger



- 責任業者無需繳費 No Recycling Fee





## 2. Four in one System

### 四合一回收制度



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# Recycling Management Fund Function & Operation

## 四合一回收系統

### (1) Community residents

社區民眾

Form Community-based Recycling organization and promote separation of waste and recyclable.

社區回收點建立及民眾垃圾分類

Waste  
Generators

Private  
Recycling  
System

### (2) Recycling Industries

回收業者

Collect and recycle recyclable from households, communities, sellers and municipalities.

收集民眾社區清潔隊之資源物

### (4) Recycling Fund

回收基金

- Financed by producers
- RFMB plans and implements recycling programs.

建立回收處理系統，維持體系基金運作



Funding  
Sources

Municipal  
Collection  
System

### (3) Local Authority

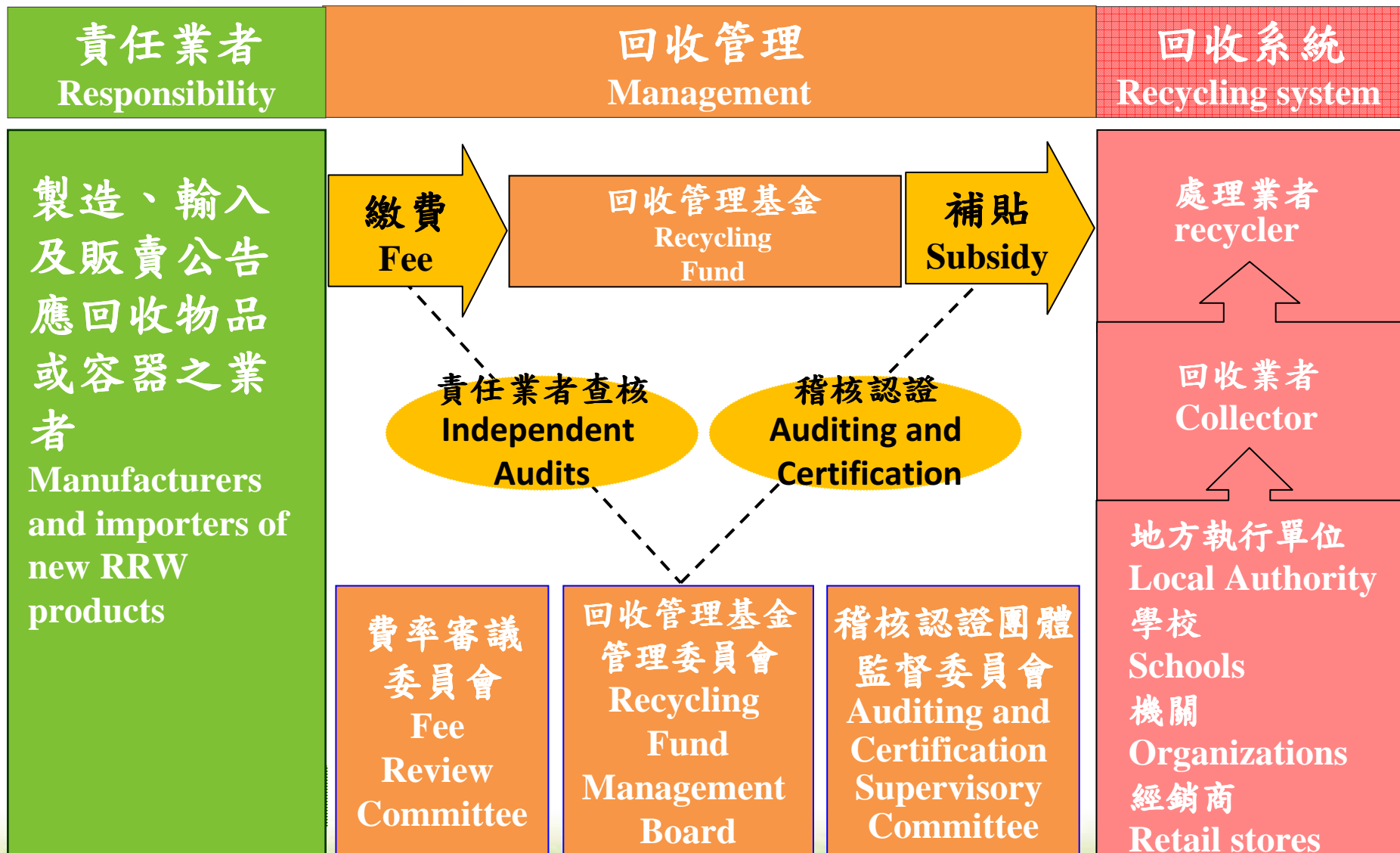
地方政府

- Collect and sort recyclable
- Part of the revenues from selling recyclable must feed back to the general public.

垃圾收集及變賣所得回饋公共事務










# Recycling Management Fund Function & Operation

## 資源回收基金功能與運作



# EEE Subject to Taiwan's EPR Law

## 公告回收廢家電資訊物品項目

The year each item was listed as RRW	EEE item
March, 1998	
June, 1998	
January, 2001	
July, 2002	<p data-bbox="772 941 981 989">Light tubes</p> 
July, 2007	  <p data-bbox="1438 1061 1662 1109">Light bulbs</p>
October, 2007	
July, 2008	<p data-bbox="712 1305 1198 1353">High Intensity Discharge</p> 
<b>March, 2014</b>	 <p data-bbox="985 1428 1124 1476"><b>Tablet</b></p>  <p data-bbox="1572 1428 1706 1476"><b>CCFL</b></p>

# Recycling fee rate 回收清除處理費率

## Purpose of recycling fee 回收清除處理費用途

- For operating collection system, recycling fees charged to manufacturers and importers of new regulated recyclable waste (RRW) products feed into the Recycling Fund that subsidizes licensed collectors and recyclers.  
向責任業者收取回收清除處理費，並作為補貼回收處理業者之基金，維持回收處理系統運作。
- These are used to subsidize private collectors and recycling enterprises that meet EPAT standards. Special income funds are dedicated to education, research and development, auditing and certification, grants for municipalities and citizen groups, and administration of the 4-in-1 Recycling Program  
回收清除處理費將用於補貼回收處理作業、稽徵查核、教育宣導、研發、地方補助、組織行政。





# Recycling fee rate 回收清除處理費率

## What is Green Differential Fee Rate 綠色差別費率

- To encourage the development of environmental friendly products. The Green Differential Fee Rate may decrease the recycling fee rate for the green product producers, or increase the recycling fee rate to hinder less environmental friendly product production.

鼓勵業者配合環境友善設計，發展有利於環境的產品，提供綠色差別費率，以經濟誘因促進業者朝向綠色生產，提高綠色消費比例。



# Recycling fee rate 回收清除處理費率

Items			Regular (NT\$/unit)	Green products (NT\$/unit)	
1	TV sets	No-LCD	Over 27 inches	371	260
			Under 27 inches	247	173
	LCD	Over 27 inches	233	163	
		Under 27 inches	127	89	
2	Refrigerator	Over 250 Litres	588	412	
		Under 250 Litres	392	274	
3	Washing machine		307	215	
4	Air conditioner (Heater and air conditioner)		241	169	
5	Electric fans	Over 12 inches	34	24	
		Under 12 inches	19	13	



# Recycling fee rate

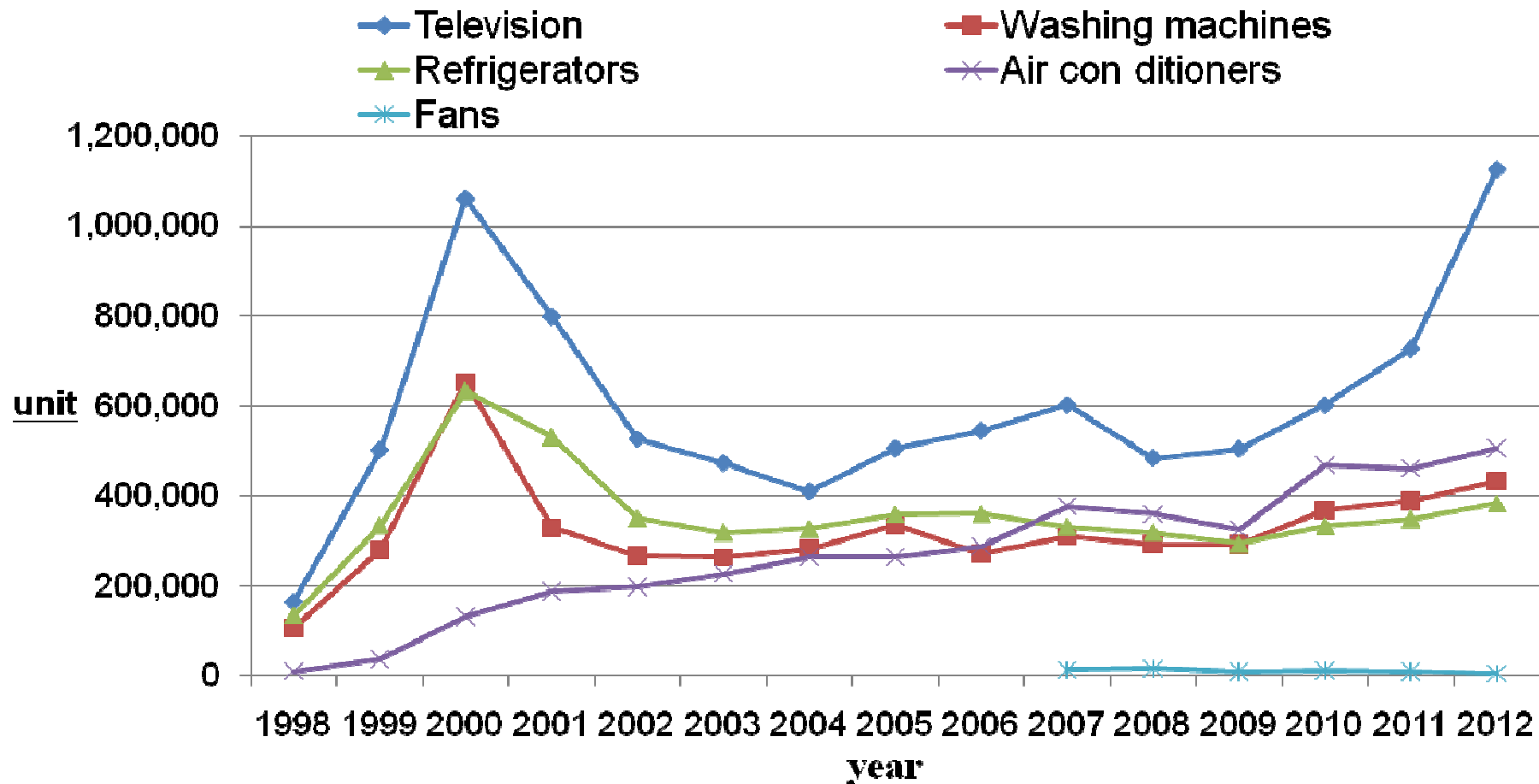
# 回收清除處理費率

Items		Regular (NT\$/unit)	Green products (NT\$/unit, draft)		
1	Monitors	No-LCD	127	89	
		LCD	Over 25 inches	233	163
			Under 25 inches	127	89
2	Printers	Ink-jet type	101	96	
		Laser type	144	137	
		Dot-matrix type	152	144	
3	PCs	114.8	78		
4	Notebooks	39	27		
5	Keyboards	14	10		
6	Tablet (draft)	39	27		



# Household appliance collection amounts

## 廢家電物品回收成果



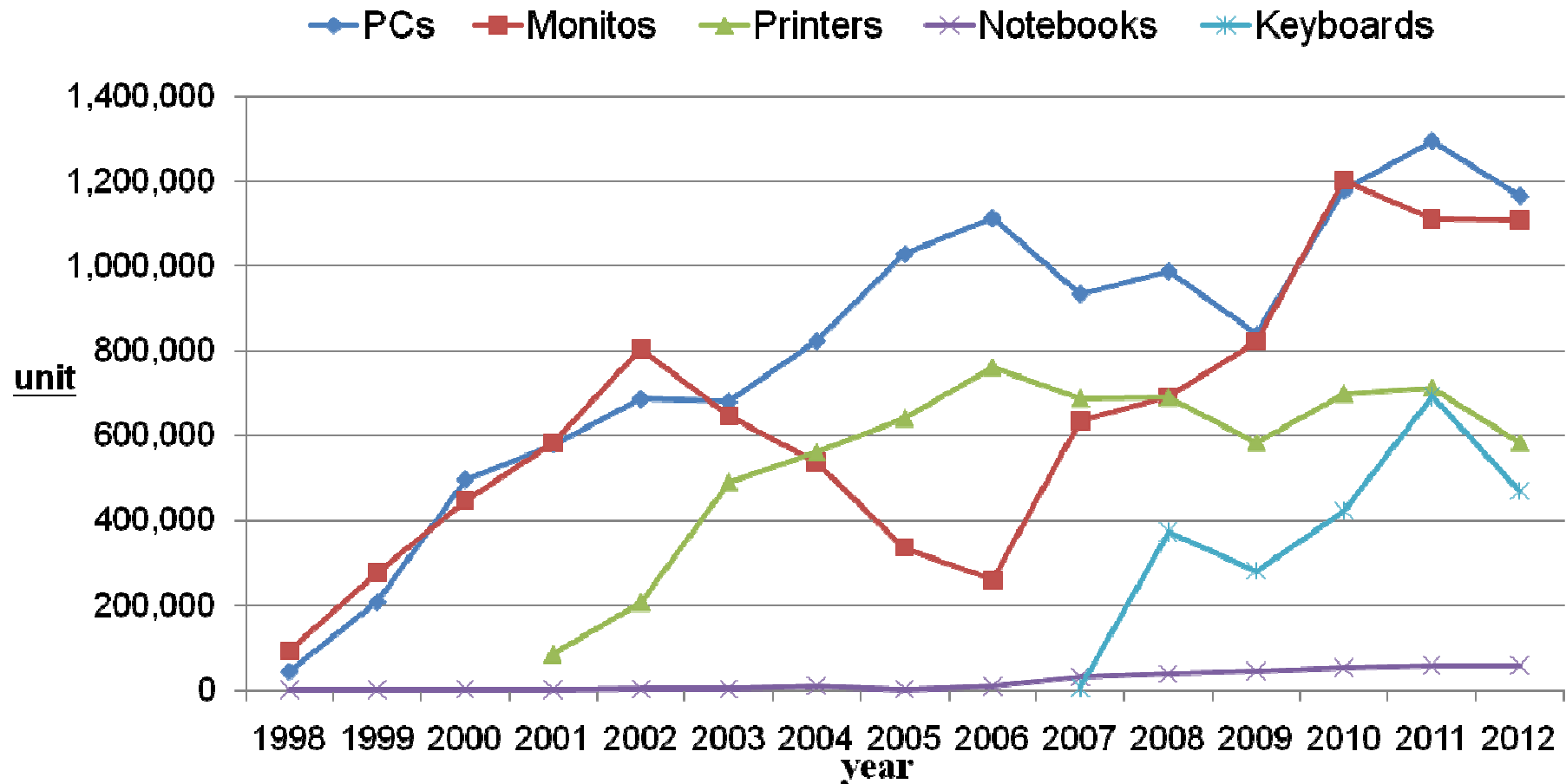
the Waste Appliance recycling volume increased 5.9 times in 2012 , as compared to 1998.

相較1998年廢電子電器物品收集量增加5.9倍。



# IT equipment collection amounts

## 廢資訊物品回收成果



the Waste IT equipment recycling volume increased 24.4 times in 2012 , as compared to 1998.

相較1998年廢資訊品收集量增加24.4倍。





*Thank You for Your Attention*

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Recycling Fund Management Board  
Environmental Protection Administration  
<http://recycle.epa.gov.tw>