

United Nations Environment Program

UNEP-DTIE-IETC

In Collaboration with the Global Environment Center Foundation (GEC)



Regional Workshop on E-Waste/WEEE Management

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MITSUI & CO. (THAILAND) LTD.
MITSIAM INTERNATIONAL, LIMITED



Chinatsu Masuda

Advanced Materials Department

Performance Chemicals Second Division

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1. Corporate Overview

- **Foundation** : 25th July, 1947
- **Offices** :
152 branches in 67 countries
(Domestic: 12, Overseas: 140)
533 subsidiaries/associated companies
- **Capital Stock** : JPY340bil (US\$3.7bil)
- **Market Cap** : JPY2,775bil (US\$30.8bil)
(Exchange Rate: JPY90.0/US\$)
- **Employees** :
5,886 (non-consolidated)
39,864 (consolidated)



Mitsui & Co., Ltd

1-2. Mitsui's Organization

Iron & Steel Product B.U.
(ex. pipeline)



Energy B.U. I / Energy B.U. II
(ex. oil & gas)



Mineral & Metal Resources B.U.
(ex. mining)



Food and Retail B.U.
(ex. demand chain management)



Infrastructure Project Business B.U.
(ex. IPP projects, trains)



Consumer Service B.U.
(ex. apparel)



Motor Vehicle B.U.
(ex. automobiles)



IT B.U.
(ex. e-commerce, IT)



Marine & Aerospace B.U..
(ex. ships, airplanes,)



Financial Markets B.U.
(ex. VC, commodity trading)



Basic Chemicals B.U.



Transportation Logistics B.U.
(ex. shipping)



Performance Chemicals B.U.



14 Business Units

1-3. Projects in Overseas Market

Stable Supply of Foods



Agricultural Business, Brazil

Environmental Recycling Business



Metal Recycling & Environmental Solutions

Solar Energy Generation



Acquisition of U.S. Solar Power Technology Company

Stable Supply of Energy



Offshore gas production facility, Qatar

Investing in CDM projects



Methane capture and combustion from pig farm, Indonesia

Development of Bioethanol



Sugar cane fields for ethanol production

2. Mitsui's Global Engagement in Recycle Business



< Corporate Policy for Recycle Business >

Aim for Providing Stable Supply of Resources and Industrial Solution for Environmental Problems by Both Ground and Underground Resources

2-1. Recycle Business Platforms

1. **Sims Metal Management**

Mitsui Hold 17.8% of Share (the Largest Shareholder) in One of the World-leading Companies of Metal Scraps and Recycling. 247 Sites in the West, Australia and New Zealand

【Dealing Volume of Metal Scraps: 16 Million MT/Y】

[REFERENCE](#)

2. **Mitsui Bussan Metals**

100% Subsidiary Company of Mitsui & Co., 20 Years of Experience in Metal Recycling and Environmental Solution Business

【Dealing Volume of Metal Scraps: 5 Million MT/Y】

[REFERENCE](#)

3. **Kyoei Recycling**

Joint Venture Enterprise with Kyoei Steel for Disposal of Industrial Wastes, Operated since April 2004. Detoxifying Treatment for Shredder Dust of Automobile (ASR), Medical Wastes and Polluted Soil by Gasification Smelter. Reuse Generated Gas as Fuel by Furnace of Kyoei Steel

【Dealing Volume of Industrial Wastes: 28,000 MT/Y】

[REFERENCE](#)

SIMS METAL MANAGEMENT

【Establishment】 1917

【Stock listings】 ASX, NYSE

【Sales】 A\$8.6 billion (FY 2009)

【Ownership stake】 17.8% (largest shareholder)

【Head office】 NY and Chicago

【Market cap.】 A\$3.7 billion (as of 25 Jun 2010)

【Net profit】 ▲A\$150 million (FY 2009)

【Mitsui's total investment】 approx. JPY95 billion

Business Activities

Metal recycling business:

- Ferrous and non-ferrous metal scrap (Approx. 16 million t/year)



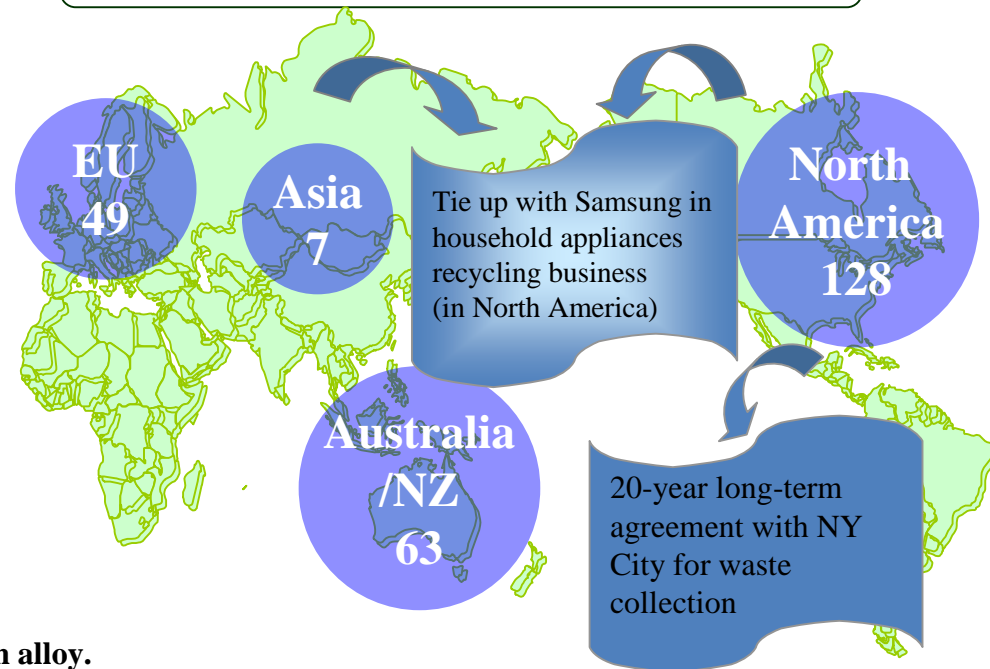
Environmental recycling business:

- Recycling of used household appliances
- Waste treatment (metal/glass/plastic)



Others: Recycling of plastic & tires. Secondary aluminum alloy.
Methane gas collecting and power generation.

247 Global Bases



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mitsui BUSSAN METALS

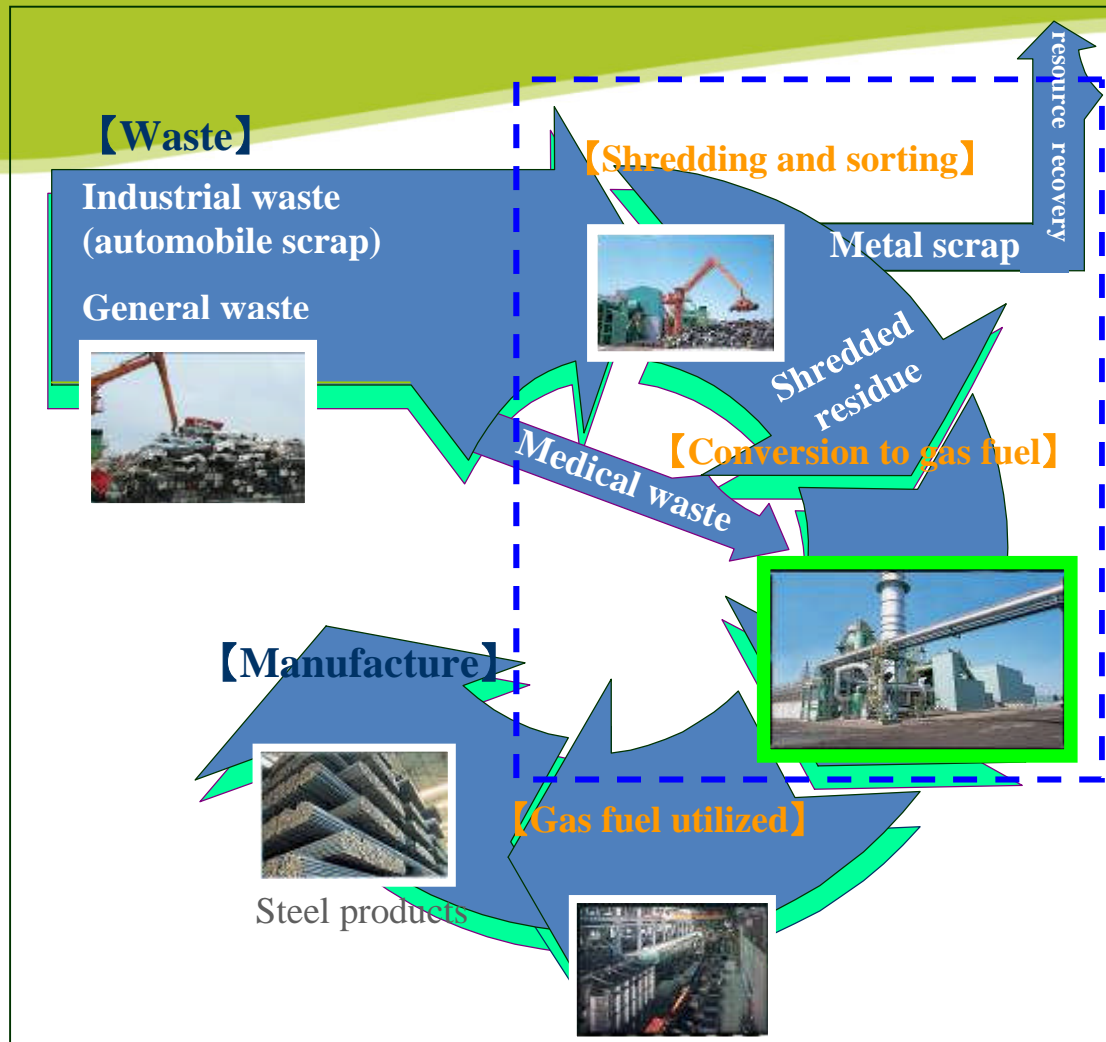


- ◆ **Company name:** Mitsui Bussan Metals Co., Ltd.
- ◆ **Shareholder:** Mitsui & Co., Ltd. (100%)
- ◆ **Annual sales:** Approx. 530 billion yen
- ◆ **Number of employees:** 350 (as of September, 2008)
- ◆ **Key business:**
 - ✓ Domestic trading and import/export of steel scrap, pig iron, ferro-alloys, and other ferrous raw materials.
 - ✓ Domestic trading and import/export of non-ferrous metal scraps, special steel scraps.
 - ✓ Domestic trading and import/export of non-ferrous metals products (titanium, aluminum products, secondary aluminum alloys, etc.)
 - ✓ Auto wrecker business
 - ✓ Environmental solutions business (electric and electronic appliance recycling, collection of and resource recovery from shredded residues)
 - ✓ Sales of waste processing equipment and facilities.
 - ✓ Import of mineral resources.

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KYOUEI RECYCLING



➤ Gasifies and detoxifies industrial waste* at high temperatures in melting furnace

*Automobile shredder residue, medical waste, waste effluent, contaminated soil, asbestos, etc.

➤ Collected gas is reused as a heating source (substitute for kerosene)

【Overview of Kyouei Recycling Co., Ltd.】

【Shareholder structure】

Mitsui & Co. 33.5%, Kyouei Steel 41.5%、
Sumitomo Metal Industries 20%、
Air Water Inc.5%

【Established】

February 1, 2004 (Operation started in April, 2004)

【Volume of waste processed】

90 t/day

【Energy conservation effects】

equivalent to 8,525 kl of crude oil per year
CO2 emissions reduced by 23,102 t/year

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2-2. E-Waste Recycling Projects

1. Campaign for Collection of Used Cellular Phone

Experimental Project for Promoting the Collection of Used Cellular Phones, Initiated by the Government of Japan. Utilize Retail Shops of Home Appliances as Collection Sites and Collect Used Cellular Phones from Consumers with Incentives. (Government Budget; JPY 300 Million)

【Implementation : During November 21, 2009 – February 28, 2010】

2. Recycling Campaign for Small WEEEs

Liaising with Japan's Ministry of Environment (MOE), Ministry of Economy, Trade and Industry (METI) and Other Municipal Authorities, Collect Small WEEEs such as Digital Cameras, Video Cameras, Portable Music Players and Portable Game Devices.

【 Implementation : During November 15, 2009 – February 28, 2010】

[REFERENCE](#)

3. Experimental Recycle Project for China's WEEE Law

Undertake Pilot Recycle Project for China's WEEE Law Under Memorandum of Understanding (MOU) with METI, Japan.

REFERENCE

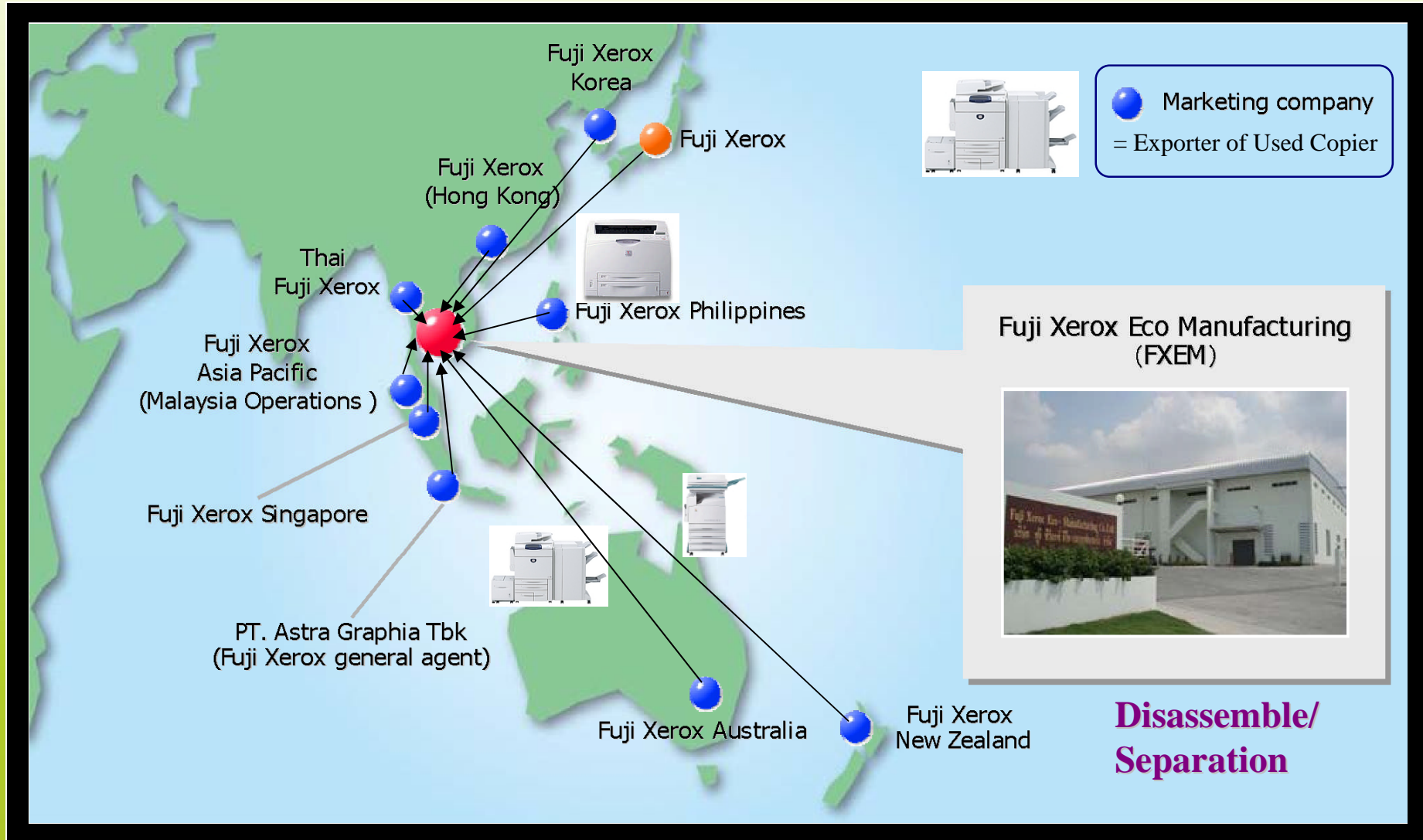
	Recycling Campaign for Used Cell-Phones	Recycling Campaign for Used Small WEEEs
Campaign Period:	21st Nov. 2009 ~ End/Feb. 2010	15th Nov. 2009 ~ End/Feb. 2010
Collected number of items:	About 570,000pcs	About 10,000pcs
Recovered Metals:	22 kg of gold, 79 kg of silver, 5,670 MT of copper and 2 kg of palladium	Under refining
Collection Points:	Over 1,900 points (at mass retailers)	122 collection boxes & 35 collection events
Organizer:	Ministry of Economy Trade and Industry (METI)	Ministry of the Environment, Ministry of Economy Trade and Industry The Tokyo Metropolitan Government, Koto Ward, and Hachioji City, Japan Oil, Gas and Metals National Corporation
Features:	Incentive collection: Website based lottery (max. US\$500/piece) financed with a budget from METI (approx. US\$5mil.)	Voluntary collection: Original collection boxes placed in community centers, supermarkets and stations. Collection events (school festivals, etc.)
	Potential reserve of used cell-phones in Japan is estimated to be 300-500 mil. pieces	Target used small WEEEs: Cell phones, digital cameras, video cameras, portable music players, portable game devices, etc.



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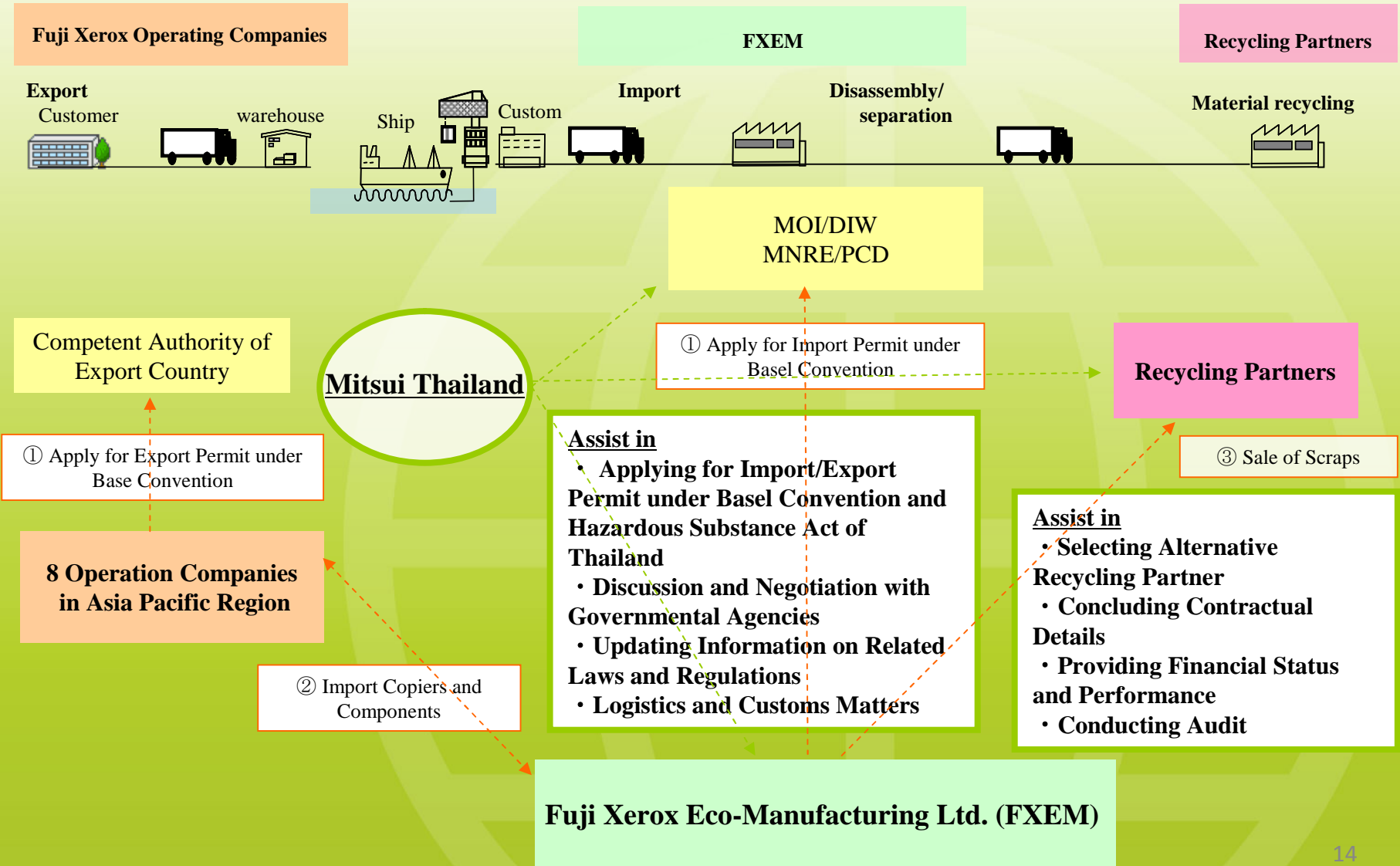


2-3. Recycling Business Scheme (Closed Loop System)

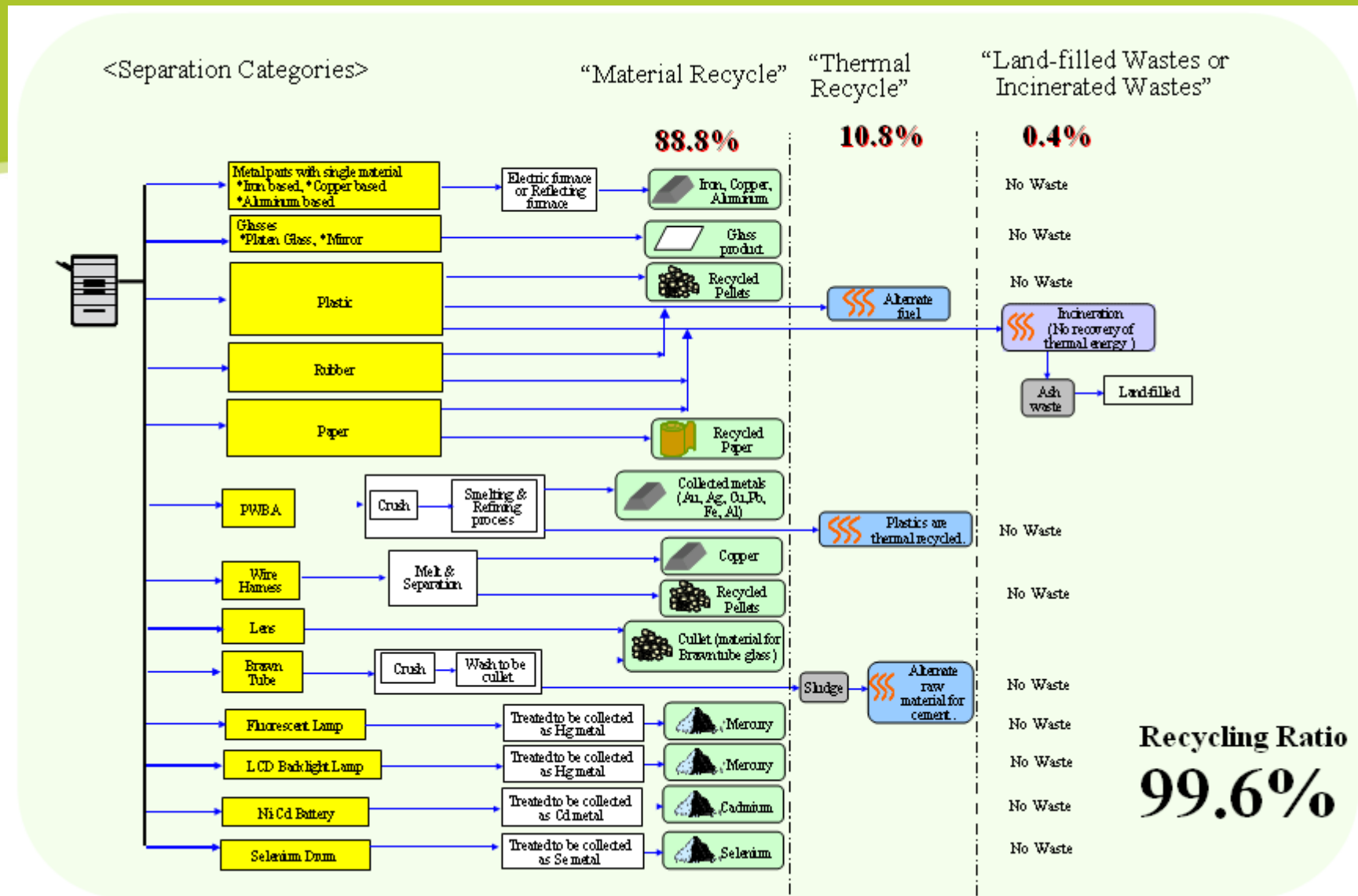


Mitsui Support Fuji Xerox International Recycle Resource System

<Fuji Xerox's International Resource Recycling System>



Recycling Flow of Used Xerox Office Equipment



2-4. Our Strength

1. Solution Provider

**Exercise Our Function as a Solution Provider
According to Our Customers' Request through
Our Experiences in Various Recycle Businesses**



3. Global Network and Coordination

**Utilize Our Global Network and
Connection and Coordinate among
Authorities, E-waste Generators
and Recyclers**

2. Knowledge and Experience

**Knowledge and Experience in
International and Domestic
Laws Related to E-waste Management**

3. Mitsui's Strategy and Future Prospects

Government



Japan Advanced technology

Consortium (Recycle Value Chain)

E-waste
Generators

Mitsui

Recyclers

1. Aim for Providing **Stable Supply of Resources and Industrial Solution for Environmental Problems** by Both **Ground** and **Underground Resources**
2. Continuously Seek for Opportunities to Create a **New Recycle Value Chain** in Liaising with Governments, E-waste Generators and Recyclers
3. Introducing **Japan's Advanced Recycling Technology and Infrastructures** to Rapidly Growing **ASEAN** Region



Thank You