

Field trip to Kitakyushu Eco – Town

February 28th - March 1st, 2013



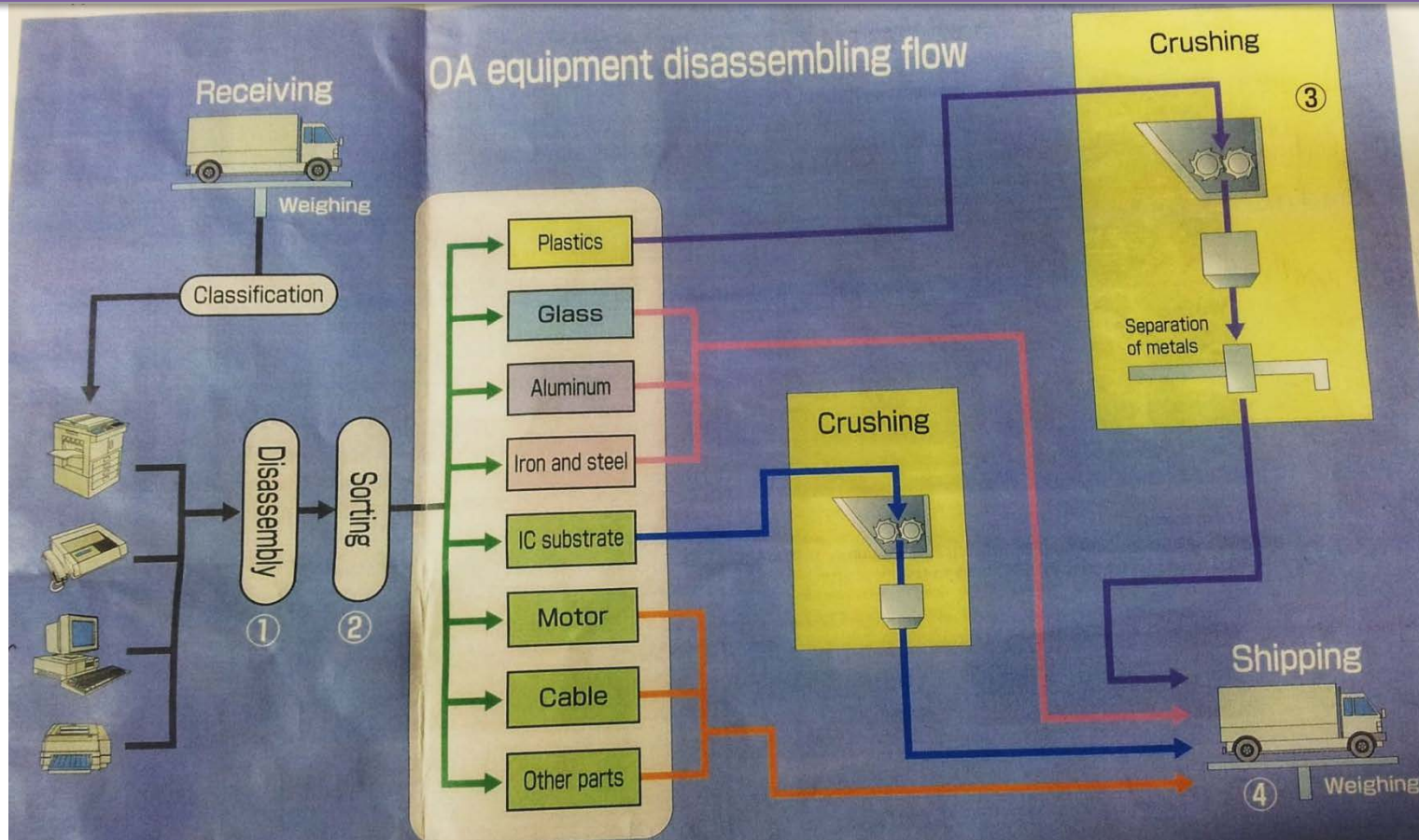
Kitakyushu Eco Town Overall Guidance	Hadian
Can Recycling	Hossein
Waste Wood / Plastic Recycling	Vicheka
Practical research on thermal decomposition of biomass, etc.	
Fukuoka University Institute for Recycling & Environmental Control System	
Plastic PET Bottle Recycling	Rahman
Medical Instruments Recycling	Kinh
"Road of the Earth"	
Fluorescent Tube Recycling	Elena
Office Equipment Recycling	Hiep
Wind Power Generation (quick look)	

Presenter: TANG SI HIEP

RECYCLING OF USED OFFICE EQUIPMENT

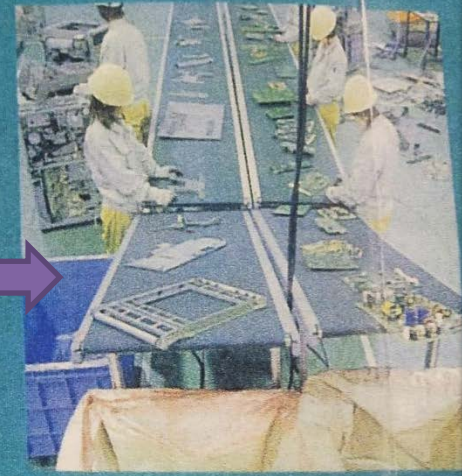
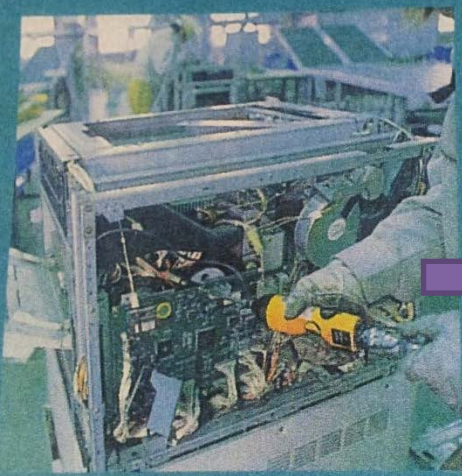
Stock holder: Shinryo company and Ricoh company

Office equipment
Copying machine
Facsimile
Printer
PC
Home application
Electrical



Firstly, office equipment is classified by size.

Copying machine, printer, facsimile machine, personal computer, other home application, electrical and electronic equipment are disassembled and sorted for recycling.



Labour capacity:

20 minutes/ per copy machine

7 minutes/ Personal computer

450 units / per day

5.400 ton waste/ per year

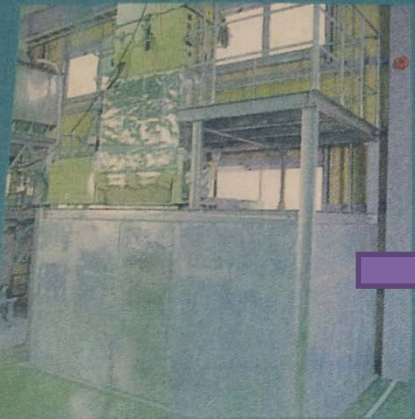
Small parts will be transfer to disabled people

① Disassembly

OA equipment is disassembled.

② Sorting

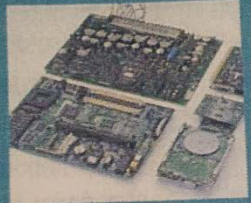
Disassembled parts are sorted further according to material kind and application.



Recycled parts and material



●Plastics



●IC substrate



●CRT



●Motor

③ Crushing facility

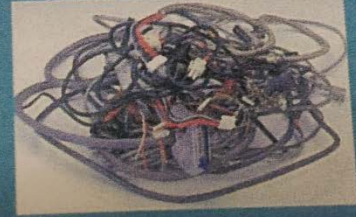
Crushes plastics to make them easy to recycle.

④ Weighing machine

Weighs recyclable parts and material and ships them.



●Aluminum



●Cable

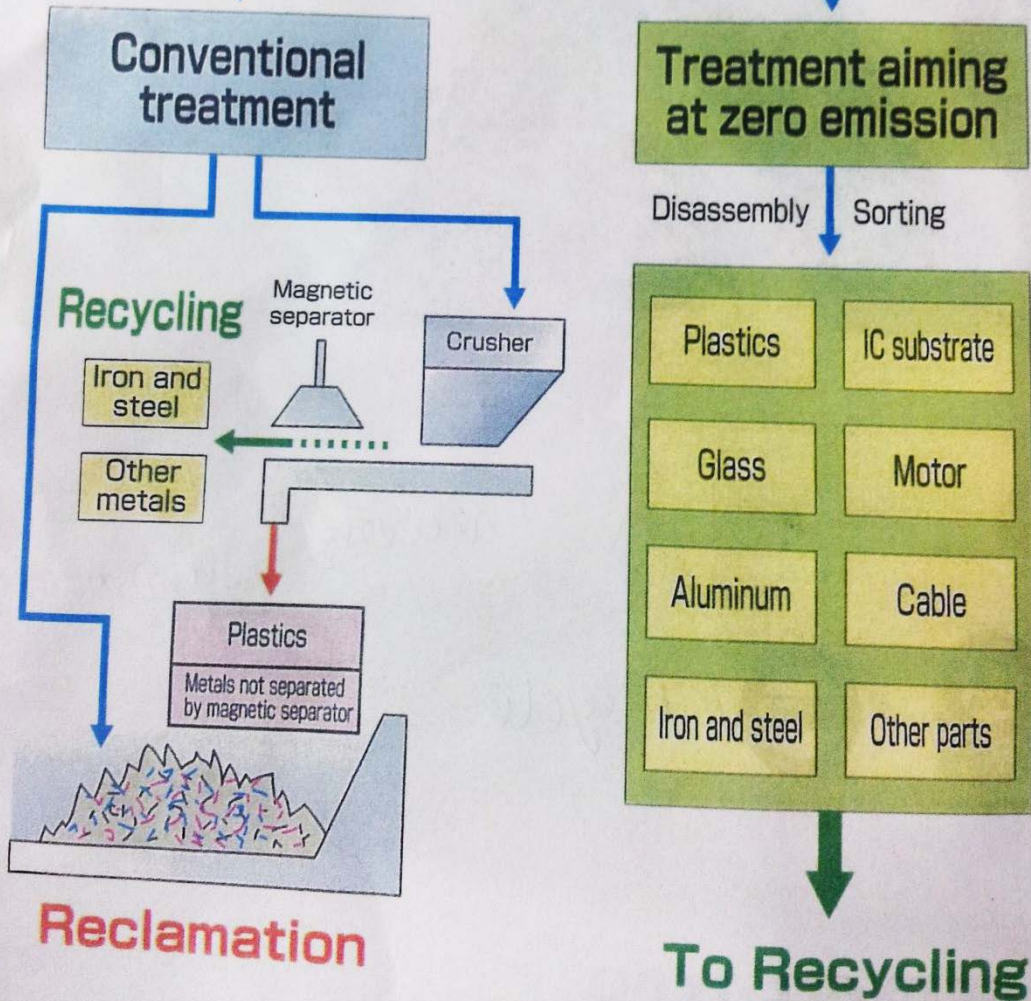


●Iron and steel

The health of workers and engineers is good

The air environment is clean. There isn't any emission inside the factory

Used Office Equipment



Compare With Conventional Treatment

コピー機のリサイクル用途

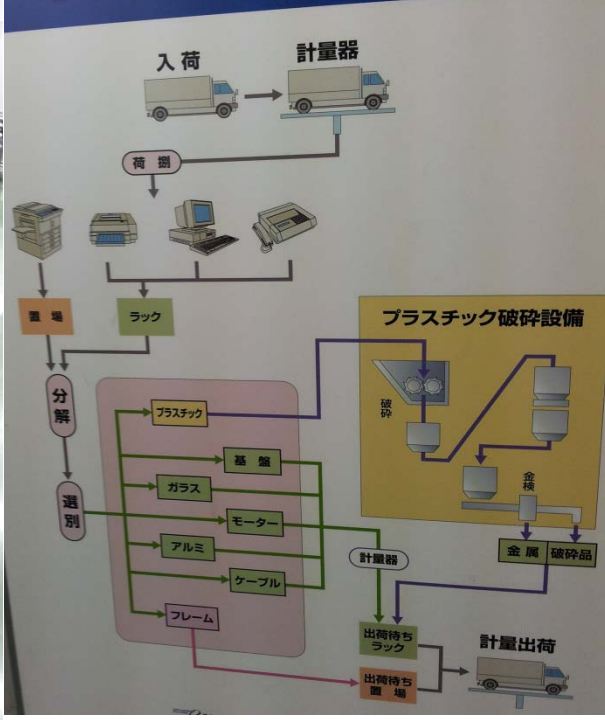
リサイクル率99%以上達成!



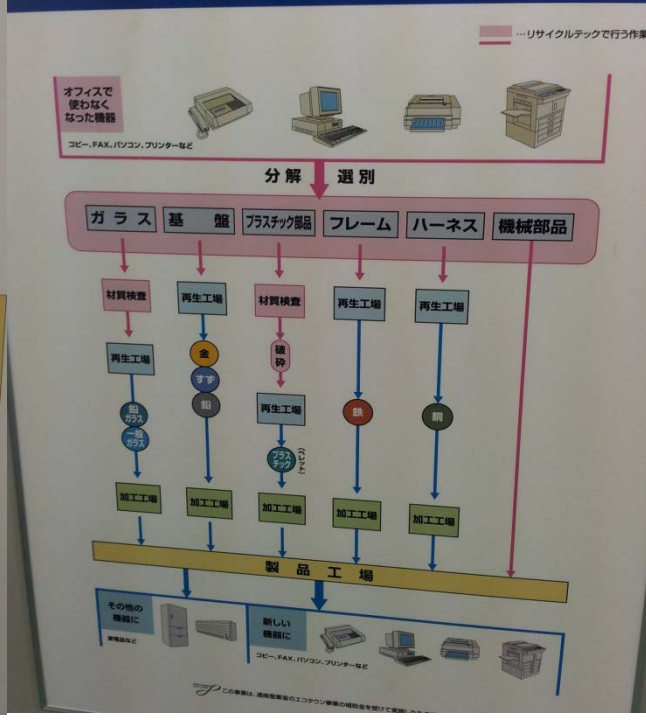
99% of waste is recycled



リサイクル処理フロー



OA機器リサイクルのしくみ



My impression of field trip:

- High technology, Automation
- Zero emission, good products from waste
- Health of workers, labour protection, safety, high productivity
- Are there any benefit of the Dark room? The implication of it?
- Beautiful roads, facilities, buildings, expense
- Food, living condition.
- Government support and subsidize, environmental policy.
- Work attitude, behaviour
- HR organization
- Planning

Future Plan:

- Study more to become a good international engineer in environment
- In my view, I have difficulty applying to my country
- Strengthen the relationship with friends from other countries
- Visit other countries to learn about technologies, methods