# Japan's Experiences and Challenges on the Export of Used EEE for Reuse Purpose

... Reduce

Reuse

November 2015

Ritsuko SANUKI Environmental Protection Guidance Office Ministry of Economy, Trade and Industry (Japan)

# Control Targets of the Basel Act and the Waste Management Act



## E-waste and Used EEE for Reuse Purpose



3

- Used EEE for reuse purpose is out of scope of Basel Act/Waste Management Act in terms of its import/export.
- ✓ At Basel Act, used EEE aimed not for reuse but for recycle/disposal purpose is Ewaste, regardless of its value.
- ✓ At Waste Management Act, among Used EEE not for reuse, distinguishing whether it is waste or non-waste will be judged in a comprehensive manner, based on its nature, trade value, etc.

"Criteria for Distinguishing Used EEE as Second-Hand Goods as Its Exportation"

- Guideline developed by MOE and METI, announced in September 2013, applicable since April 2014.
- For distinguishing clearly proper reuse-purpose goods from the one unsuitable for reuse (which could be regulated by Basel Act/Waste Management Act).
- Providing criteria to make exporters easily prove by themselves their export is appropriate therefore no export license on the basis of Basel Act/Waste Management Act is required.

"Criteria for Distinguishing Used EEE as Second-Hand Goods as Its Exportation"

#### <Need to be Checked>

- 1) Model years and appearance
  - $\Rightarrow$  Make sure the EEE is free from damage and is clean

#### 2) Functionality

- $\Rightarrow$  Make sure the EEE operates properly
- 3) Packaging and loading
  - $\Rightarrow$  Make sure the EEE is properly packaged, loaded and stored
- 4) Facts related to transactions involving secondhand goods
  - ⇒ Make sure transaction-related facts can be proved with contracts and other documents
- 5) Second-hand goods market
  - ⇒ Make sure the EEE will be sold for reuse purposes in destination countries

#### Difficulties to Judge Used EEE for Reuse or Not

- O "Hazardous waste" which is subject to the regulation of the Basel Convention is <u>the item exported/imported for disposal operations</u> <u>(=final disposition, recycle or recovery) listed in the Annex IV</u> of the Convention.
- OSecond-hand items for reuse purpose do not fall within this scope, therefore they are exempt from the regulation in principle.

Recently, however, there are many cases of returned cargo of used EEE exported as second-hand goods for reuse purpose, claimed by importing countries to be "hazardous waste" which should be regulated by the Basel Convention.

Therefore, some sorts of used items are treated with <u>the</u> <u>preliminary consultation (non-mandatory, administrative</u> <u>service)</u> in order to examine beforehand if they are sure to be regarded as reuse purpose, also in the importing country properly.

## Preliminary Consultation for Export



## Used EEE Export Intended for ...



## Used EEE Export Intended for …

Old? Functioning? Any evidence for being reused?

> Be careful, it's going to be broken… or already broken?

## Used EEE Export Intended for …











### Increasing Returned Cargo from Asian Countries

Recent trends of our receiving notification of illegal shipment from importing county

FY	Number of cases	Country (Number of cases)	Claimed Item (Number of cases)
2010	0	—	—
2011	0	_	—
2012	1 1		Used EEE for re-use purpose (6), Mixed metal scrap (1)
2013			Used EEE for re-use purpose (3), Used automobile parts (1)
2014	9	Hong Kong (8), Thailand (1)	Used EEE for re-use purpose (7), Used battery (2), Mixed metal scrap (1)
2015 (as of October)	12	Hong Kong (14)	Used EEE for re-use purpose (12)

#### For Mitigation of Risk of Returned Cargo

- In Japan, in order for proper export of Used EEE for reuse purpose, exporters should comply with the guideline "Criteria for Distinguishing Used EEE" so that they could avoid risks of their cargo being returned as illegal export.
- However, there are still some unclear import regulations in the destination county, which is difficult for others to get to know due to lack of information registered at the Secretariat of Basel Convention, or in any formal way of the announcement.
- It is government's responsibility to provide exporters of their country with proper, internationally-recognized guideline in order to mitigate the risks. For that, we will consider to properly update our guideline and also cooperation by destination country government will be essential to make available information on their import regulations to the public.

International Expectation for Prevention of Illegal Export of Used EEE by Disguise of Reuse-Purpose



- Reached agreement to <u>adopt E-waste Guideline</u> (to distinguish between waste and non-waste) on the interim basis
- Each State Party is expected to utilize this guideline at home, in order to prevent illegal exports and assure proper reuse-purpose export



Our "Criteria for Distinguishing Used EEE" will also need to be <u>reviewed and revised</u> according to this newly-adopted E-waste Guideline.

..... What has been already covered, what has not been?

#### International Expectation for Prevention of Illegal Export of Used EEE by Disguise of Reuse-Purpose

We are going to consider to include in our "Criteria for Distinguishing Used EEE" below items in red and underlined:

Requirements	<ol> <li>Copy of the Invoice and contract;</li> <li>Signed decralation by exporters/importers indicating that used EEE has</li></ol>	
for the case of	been tested, fully functional and is destined for direct reuse; <li>Declaration by exporters/importers to comply with rules and regulations</li>	
export/import	of all the countries involved; <li>Sufficient packaging and stacking of the load in order to be protected</li>	
for direct reuse	against damage during transportation and loading/unloading.	
Requirements	<ul> <li>(In addition to the above 3, and 4, requirements being satisfied,)</li> <li>1. Valid contract between exporter and facility to assure to conduct repair</li></ul>	
for the case of	etc. and ESM treatment of the residual hazardous waste generated	
export/import	through the repair, etc. <li>2. Provisions regarding allocation of the responsibility among exporter and</li>	
for direct reuse	facility throughout the whole process from export to the completion of	
after repair, etc.	repair, etc. in the contract.	
lssues need to be tackled towards COP13	<ul> <li>✓ Residual life of the Used EEE</li> <li>✓ Treatment of CRTs</li> <li>✓ Conditions on the treatment of residual hazardous waste generated through repair, etc. in developing country</li> </ul>	

#### Industry Initiatives for Resource Efficiency ~Electrical and Electronic Manufacturers in Japan~



#### Industry Initiatives for Resource Efficiency ~Electrical and Electronic Manufacturers in Japan~



### Failure Analysis & Field Test

MITSUBISHI ELECTRIC



	Failure analysis	<b>Field test</b>
Phase	Use of equipment	R&D
Scope (Market)	Existingmarket	Untapped market
Urgency	Urgent	Noturgent
Operation	Verification of defective part and investigation of failure cause	Analysis of influence on equipment and operating condition



## Resource Saving & Design for Recycling/Reuse

#### **BRAVIA<sup>TM</sup> TVs: Trying the limits in slimness and resource efficiency** • 70% thinner than previous models by clustering circuit boards that used to cover the entire panel below the center

- 20% lighter than previous models by grinding down and punching holes in the back chassis
- Fewer screws (20 -> 4) and easy removability by tight-fitting construction
- Stand doubling as a wall-mount bracket by reducing the weight of the body









#### **RICOH** Multifunction printer: Using electric furnace steel made of 100% iron scrap

- Change from iron ore to 100% iron scrap achieving high quality requirements for thinness, electrical conduction property and bending workability
- First office equipment manufacturer to develop and expand electric furnace steel ٠ sheets with quality required for office equipment parts
- Reduction of new resources input by 50-60 weight %





Part using electric furnace steel made of 100% iron scrap

### Repair/Refurbishment & Residues Treatment

#### **RICOH**

#### **Repair/Refurbishment**



#### Repair/Refurbishment & Residues Treatment

#### FUJI Xerox 🌒

#### **Residues treatment**

Exchanged parts (non reusable) become waste in the disassembly process

Little hazardous waste is generated from equipment compliant with applicable chemical regulations worldwide



# Thank you for your attention!

. Reduce

Recycle

Reuse

November 2015

Ritsuko SANUKI Environmental Protection Guidance Office Ministry of Economy, Trade and Industry (Japan)