

Identification of e-waste and second hand e-products: Thailand

Patarapol Tularak

Pollution Control Department

Ministry of Natural Resources and Environment





กรมควบคุมมลพิษ
Pollution Control Department

REUSE??





Policies on the import and export of HWs and E-wastes

To protect human health and the environment:

- Ban on the import of wastes for final disposal
- Restriction on the import of wastes for 3Rs



Regulations on the import & export of E-products, used E-products, E-wastes

■ New E-products:

- meet with the compulsory std. e.g. environmental std., HS restriction and testing method (to be further introduced)

■ Used E-products:

- comply with domestic permit system

■ E-wastes:

- comply with PIC procedure and domestic permit system



Import Control of Used EEE

- Department of Industrial Works issued the regulation for the import control of the used EEE & its parts/components
- 29 items of used EEE are required the import permission from DIW
- Import of used EEE is allowed only for activities of resale, reuse, repair/refurbish as it original purposes, disassembly and recycle/recovery with different conditions as well as only from Parties to the Basel Convention.



Import Control of Used EEE

29 Items include:

- Radio
- Tape-recorder player
- Video player
- VCD player
- DVD Player
- TV
- Air conditioner
- Washing machine
- Cloth dyer
- Dry-cleaner machine
- Rice cooker
- Electric pot
- Microwave
- Electric oven
- Electric fan
- Refrigerator
- Water cooler
- Hair dryer
- Iron
- Burglar or fire alarm & similar apparatus
- Compressors of a kind used refrigerating equipment
- Calculator
- Electric type writer
- Photocopier
- Telephone
- Fax machine
- Telegraph machine
- Mobile phone
- Computer & its devices



Import Control of Used E-products/components

- **Criteria for determination in case of reuse:**
 - Limited age (≤ 5 yrs for photocopier; ≤ 3 yrs for others)
 - Meet with TISI's compulsory std.
 - Certified quality
- **In case of repair/refurbish, disassembly & recycle/recovery:**
 - Still have enough economic value
 - Facilities must obtain a permit in accordance with Factory Act, 1992
 - Appropriate amount compared to the facility capacity
 - Consent that all residues from the process will be taken back to the Exporting Country is required, if such residues can not be handled in Thailand.



Notification on the Import of Used E-products/components is under revision

Issues to be amended:

- Extend the scope of refrigerator to cover water cooler and freezer (using CFCs)
- Reduce the age of used EEE to be imported for resale from ≤ 3 yrs to ≤ 2 yrs
- Quality certificate must be comparable to international standard
- For recycling and recovery, comply with PIC procedure and domestic permit system



Quantitative criteria for industrial hazardous waste

CHARACTERISTICS AND PROPERTIES OF HAZARDOUS WASTES (generally applied for local industry) attached to the Notification of the Ministry of Industry B.E. 2548 (2005) under the Hazardous Substance Act 1992

- Defines the characteristics and properties of Ignitable substances, Corrosive substances, Reactive substances, Toxic substances and Wastes or unusable materials.
- Defines the analysis method

Special case: import of ambiguous waste, this notification is applied, e.g. cleaned CRT cullet.



Sample Cases

- For Resale: import of 7 types of used E-products is prohibited. (older than 3 years old)
- For repair/refurbish, disassembly or recycle/recovery:
 - Refrigerator using CFCs is definitely banned.
 - Other products – depending on the economic value, certified quality, capacity of facility and shipping back of unmanageable residues to the exporting country.
- * For recycling/recovery, comply with PIC procedure and domestic permit system when the amended notification is effective.



Challenges

- Inspector's manual for random test of used e-products (at port of entry)
- Quantitative identification of ambiguous waste

