The Workshop 2010 of the Asian Network for Prevention of Illegal Transboundary Movement of Hazardous Wastes

> November 30 – December 2, 2010 Siem Reap, Cambodia

Session 3: Mapping of ESM facility and its criteria in Thailand

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Presentation outline

- 1. Practices for ensuring ESM of imported hazardous wastes in Thailand
- 2. Capacity and performance of ESM facilities in Thailand
- 3. Conclusion

1. Practices for ensuring ESM of imported hazardous wastes in Thailand

Training course on law and regulation to import and export of hazardous waste

- Subject
 - Basel Convention
 - □ Hazardous Substance Act and related regulation
 - Having Possession (Storage / Transportation)
 - Import
 - Export
 - □ Hazardous waste list
- Target group : 94 participants (April 2, 2010)
 - □ Importer/Exporter
 - □ Waste Generators
 - □ Waste Processors
 - □ Experts/speakers

Training course on law and regulation to import

and export of hazardous waste

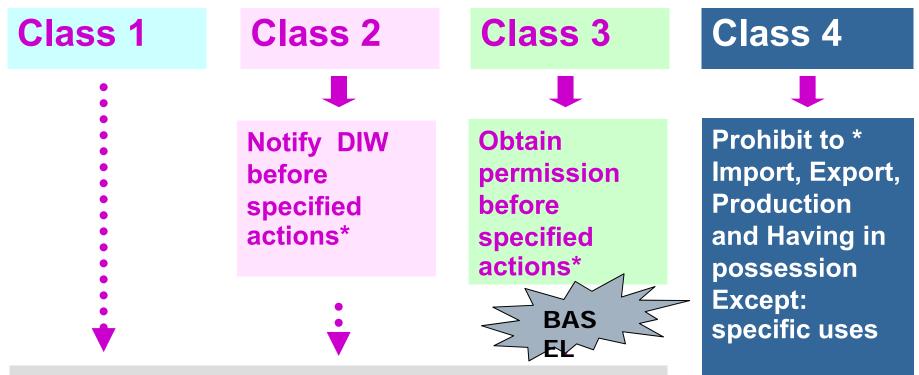


(Hazardous Substance Act)

- **Criteria to import of hazardous waste**
 - **For only used as raw material in industry**
 - Annual plan
 - □ Waste composition
 - Source and process to generate imported waste
 - Production process
 - Quantity of Imported Waste
 - Product
 - □ Safety and environmental protection system
 - Waste Disposal System

Hazardous Substance Act A.D. 1992

Classification of Hazardous Substances



Inform DIW before import and export



Basel Convention (Basic information)

- Thailand is a member of Basel Convention.
- Import and export of hazardous waste is controlled under Basel Convention.
- Importer and exporter must obtain a consent from the government of designation country (i.e., DIW).
- Prohibition of importing and exporting hazardous waste to a non-member country.

Hazardous Substance Lists

- Chemical wastes (62 items)
 - 61 items: Hazardous waste in Annex 8, List A of the Basel Convention (Class 3 Hazardous Substance)
 - 1 items: Dry cell batteries containing Hg and Cd (Class 4 Hazardous Substance)
- Used electronic and electrical equipments/parts (2 items)
 - Equipments (Class 3 Hazardous Substance)
 - Parts (Class 3 Hazardous Substance)



Used electronic and electrical equipments/parts - DIW Notification

- Import of Used EEE is allowed only for objectives
 - Reuse
 - Repair
 - Refurbish as it original purposes (must be used ≤ 5 yrs for photocopier & its parts, except toner cartridge and fuser module; must be used ≤ 3 yrs for others)
 - Disassembly and recycling/recovery (Under the Basel Convention)



Import of controlled waste

- □ **Plastic scraps**
 - Prohibit unclean and unsorted plastic scraps
 - Cleaned plastic scraps shall be smaller than 2 cm in size except plastic using as raw material for polyester factories and electronic and electrical factories.
- Used tires and scraps
 - Prohibit used tires and scrap
- □ Used electronic and electrical equipments/parts
 - Must be less than 3 years old
 - Must be in usable or refurbishable or fixable condition
- Used acid-lead batteries
 - Prohibit used acid-lead batteries (whole and parts)

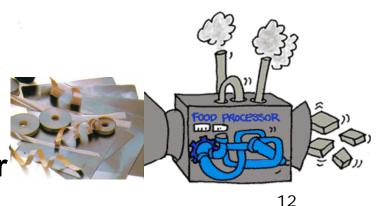
3. Capacity and performance of ESM facilities in Thailand

Waste Treatment	113 Factories
Incinerator	
 Co-Incinerator 	9 Factories
 Specific Incinerator 	2 Factories
 General Waste Incinerator 	14 Factories
 Infectious Waste Incinerator 	2 Factories
Sorting	1,077 Factories
Landfill	
 Secure Landfill 	5 Sites
 Sanity Landfill 	16 Sites
 Recycling facilities 	338 Factories

Source: Department of Industrial Works, June 27, 2010

Factory that use waste from others factory as raw materials (Recyclable wastes)

- Waste Oil Refining
- Waste Oil Separation
- Precious Metals Recovery
- Solvents Recovery
- Acids / alkali Regeneration
- Catalysts Regeneration
- Fuel Substitutes
- Fuels Blending
- Raw Material Substitutes
- Clean or Repair Container
- Etc.



Waste Processor

Waste management facilities:

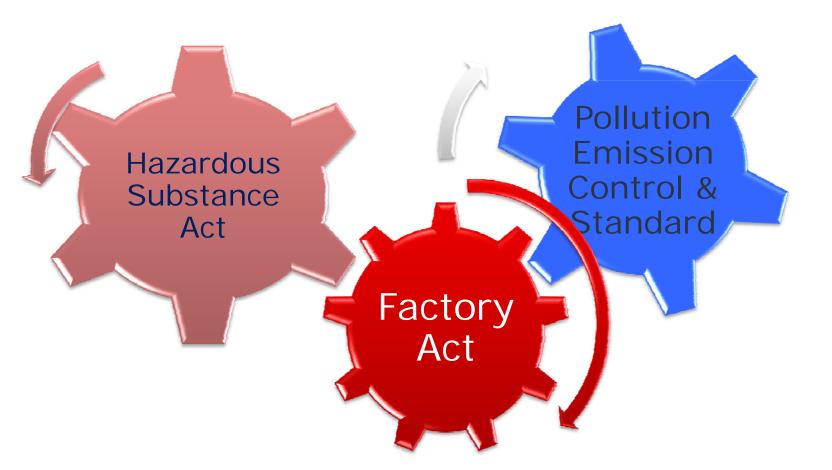
- Type 101Central Waste Water Treatment Plant orHazardous Waste Incinerator
- Type 105Industrial Waste Sorting Plant or Landfill
- Type 106Waste Recycling Plant
- Other types of Industry that utilize common wastes, for example, paper, glass, metals, and plastics as raw materials

Waste processor's responsibility (Factory Act)

- □ Test incoming waste before accepting
- Reject waste that can not be treated at the facility
- □ Conduct a good practice business
- Follow EIA guideline and report to regulatory agencies
- Conform with emission standards
- Report accepted amount of each waste type to DIW yearly

Conclusion & Recommendation

Moving the Regulations



Thank you

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