Management of transboundary movement and Recycling of wastes (e-wastes) in Thailand

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Presentation Outlines

- Statistics of wastes import/export
- Illegal Traffic of E-wastes and Others
- Activities on HZW and E-waste management
 - Household hazardous waste collection project
 - Mobile phone batteries and fluorescent lamps take back program
 - **■** E-waste inventory
 - Recycling facilities
- Major challenges

Waste Statistics

2002

2003

2004

2005

0

1998

1999

2000

2001

2006Year



Exporting Country/Origin

- SingaporeJapan



Import Amount





Importing Country/Destination

- Netherland
- Germany
- **■France**
- Canada
- Belgium
- **UK**
- Japan
- Philippines
- Singapore
- **■**Korea

Thailand's Experience on Illegal Traffic of E-wastes and Other Wastes



Illegal export of used tires, used car bodies/parts and used lead acid batteries (23.45 tons) from UK to Thailand (Dec. 2001 - Feb. 2003)











Illegal export of plastic wastes and others (17.7 tons) from Netherlands to Thailand (Sep. 2003 –Apr. 2004)











Illegal import of used boards of pinball game (46.2 tons) from Japan to Thailand (Jan. 2004 - 2005)











Illegal export of used monitors (19, 15.6, 16.75 tons) from Thailand to China (Feb., Apr., May 2004 - present)





Illegal export of E-wastes (18.18 tons) from Thailand to Hong Kong (Dec. 2005 - present)











Procedures for the Investigation and Cooperation on Illegal Traffic of Wastes

False declaration/ unclaimed goods

> Inform agent/ consignee

Set up investigation team

Investigation

Legal actions

- Discrepancy in documents (false declaration) or unclaimed goods (> 2 months) were found by Customs
- Customs inform shipping agent /consignee within 15 days
- If no one claimed the goods, Customs will set up the investigation team incl. Customs & environment investigators, port officers & other agencies
- Team will investigate the shipment & other relevant evidences
- Submit all evidences to the authorized agencies for further legal actions



Training Course on Identification and Prevention of Illegal Traffic of Wastes



Legislation for controlling the HW import



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การฝึกอบรมเชิงปฏิบัติการ

Environmental and waste sampling

Site visit at the port and waste facilities

Illegal shipment Inspection

Current Activities on Hazardous Waste and E-waste Management in Thailand



Household HW collection scheme

















Drop off Or Special Collection day



Collection to transfer station





Waste containers



Container for dry-cell batteries, aerosol cans, cleaning liquid bottles. (Separate container for different type of waste)

Drop-off
Bin
Installed
in
commun
ity
centers



Container for 100 straight FL



Regional Training Workshop for the Environmentally Sound Management of E-wastes, Siem Reap, 13-15 Mar 2007: "E-waste management in Thailand"







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Collected hazardous waste









Mobile Phone Battery Tack Back Project





Pilot Project on Fluorescent Lamp Recycling





























E-Waste Inventory Development

- Scope of inventory covers PC, Notebook, TV, air conditioner, mobile phone, refrigerator.
- Tool: Questionnaires
- Samples
 - Households: 400 samples
 - Offices: 400 samples (companies, institutions, hotels, apartments)
 - Recyclers: 400 samples (collectors, second-hand shops, repair shops, dismantlers, and recyclers)
- Sampling Method
 - Stratify household income by province and number of population
 - Select number of samples by population size



E-Waste Inventory Development

- Data are being analyzed and verified.
 - ■Purchase / use pattern
 - Amount of used e-product discarded at present and in future
 - Amount of used e-product exported, repaired/ reassembled and dismantled
 - •Generation and management of residues generated from repair/reassembling, dismantling, processing

Recycling of Hazardous Waste in Thailand

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Pb acid batteries









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On-site service













Courtesy of Wongpanit Group



Destruction of Hard Disk





Courtesy of Wongpanit Group





Destruction of other secret parts





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FL Recycling (Toshiba)



Major Challenges



Major Challenges

- Different definitions of e-waste among countries
- Some concerns about Free Trade Agreement
- Lack of domestic facilities to manage internally without exporting to other countries (in terms of number and types of products)

For more information

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