

# E-waste Issues in Thailand

by

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# Asian Regions

- East Asia: China, Japan, Korea
- Asean: 10 countries
- South Asia: India, Pakistan, Bangladesh, Sri Lanka

**Population:** China 1,200 Million

Japan 200 Million

India 1000 Million

Pakistan 80 Million

Bangladesh 120 Million

Asean 500 Million

**[Half of the world population]**

# Asian Regions

**Main world manufacturers of EEE.**

**Growth engine of the world economy**

**GDP Growth: China 10%**

**India 7-8%**

**Main world consumers**

**Main world industrial production**

**Food self sufficient**

**Net food exporters**

# Main Interest

- **National inventory**  
(To know the stream of E-waste)
- **Segregation and collection**
- **Repair, refurbish, and recycle**
- **Training and awareness raising**  
(Disseminating the good practice)
- **Policy formation**

# Status of E-waste Projects (2006-2009)

- \* Cambodia (Inventory, Training)
- \* India (Partnership)
- \* Indonesia (Inventory, Study for collection, recycling)
- \* Philippines (Inventory)
- \* Malaysia (Inventory, Collection, Recycling)
- \* Philippines (Inventory)

# Status of E-waste Projects (2006-2009)

- \* Sri Lanka (National Plan)
- \* Thailand (Inventory, Training)
- \* Vietnam (Inventory, Collection, Recycling)
- \* China (BCRC, TBM of used EEE and E-waste)
- \* South East Asia BCRC in Indonesia  
(Training and Guideline for Inventory and 3-Rs)

# Asian Network

## Present Cooperation of Asian countries on used EEE and E-waste

### 1. Pilot projects

- Segregation and collection
- Repair, refurbish and recycling
- Certificating environmentally sound facilities

# Asian Network

## **Present Cooperation of Asian countries on used EEE and E-waste**

- 2. Training and awareness raising**
  - Training for stakeholders
  - Developing tools
  - Developing database for environmentally sound facilities & technology

# Asian Network

## **Present Cooperation of Asian countries on used EEE and E-waste**

### **3. Guidelines**

- For legal framework development
- For environmentally sound repair, refurbish, recycling and disposal
- For certificating environmentally sound facilities

# TBM of Hazardous Waste

**Within Asian Network countries**

Based on report from importing countries, 105,000 Tons per year.

Based on report from exporting countries, 40,000 Tons per year.

# **TBM of Hazardous Waste**

**Within Asian Network  
countries**

**Conclusion: Import > Export**

**Net waste importing countries**

# **Main exporter countries in Asia**

**Singapore**

**Philippines**

**Thailand**

**Japan**

# **Main importer countries in Asia**

**Malaysia**

**South Korea**

**Philippines**

**Japan**

# **HZW imported by EU Countries (2005)**

**Germany 2.6 Million tons/yr.**

**Italy 1.3 Million tons/yr.**

**France 930,000 tons/yr.**

**Belgium 805,000 tons/yr.**

**Netherlands 330,000 tons/yr.**

# TBM of used EEE in Asia

## **Main exporters:**

China > Indonesia > Malaysia >  
Japan

## **Main importers:**

Hong Kong > Singapore >  
Philippines > Thailand

# TBM of used color TV sets in Asia

**Main exporters:**

China > Indonesia > Japan

**Main importers:**

Hong Kong > Singapore > Thailand

# TBM of used air conditioner sets in Asia

## **Main exporters:**

China > Japan > Malaysia >  
Thailand > Indonesia > Philippines

## **Main importers:**

Hong Kong > Thailand > Indonesia

# **TBM of used refrigerator sets in Asia**

## **Main exporters:**

Thailand > China > South Korea

## **Main importers:**

Singapore > Indonesia > Thailand

# TBM of used desktop PC sets in Asia

**Main exporters:**

Indonesia > China

**Main importers:**

Hong Kong > Thailand

# TBM of used Laptop PC sets in Asia

**Main exporters:**

Thailand > China

**Main importers:**

Hong Kong > Malaysia > Singapore



# **Current situation of used EEE recycling in Asian countries**

# Life Cycle of used EEE

1. Repair for re-use
2. Dismantling for
  - 2.1 metal recovery
  - 2.2 parts for re-use
  - 2.3 materials for recycle
3. Disposal

# Problems of used EEE for Asian import countries

- While some used EEE are repaired for direct reuse and the parts from used EEE are utilized, some recycling activities are conducted not environmentally sound manner.

# Problems of used EEE for Asian import countries

- Illegal import is presumed to be some source for used EEE non environmentally sound recycled and disposal.

# Problems of used EEE for Asian import countries

- Non environmentally sound disposal of remaining parts/waste/unused.

**(These are common problems for importing developing countries in Asia and Africa.)**

# Major E-waste problems in Asian countries

- Lots of junk shops, lack of good practice facilities
- No waste segregation/mixed waste
- Rapid increase in consumption (newer models)

# Asian proposal of good practice for used EEE

1. Good practice for strengthened cooperation with customs and relevant stakeholders:
  - Information sharing meeting
  - Joint operation with customs
  - formulating new strategy and action plans with customs

# Asian proposal of good practice for used EEE

- Electronic system to share information on custom clearance

# Asian proposal of good practice for used EEE

2. Good practice for awareness raising and training activities:
  - IEC material (leaflet, poster, handbook, etc.) for importer/exporter

# Asian proposal of good practice for used EEE

- Training, workshop, seminar
- Consultation service/dedicated hotline

# Asian proposal of good practice for used EEE

3. Good practice for efficient and user-friendly import/export procedure:

- Uploading necessary documents to website

# Asian proposal of good practice for used EEE

- Dedicated consultation service for quick advice

# Asian proposal of good practice for used EEE

- Sending notification documents by electronic means

# Summary of used EEE and E-waste in Asia

Main Asian countries have many good practices for implementation of the Basel Convention (including used EEE)

# Summary of used EEE and E-waste in Asia

It is valuable to share good practices in order to make use of lessons learned for improving relevant activities in each country with the purpose of enhancing the overall implementing capability of the region.

# Summary of used EEE and E-waste in Asia

Moreover, through establishing a system to share good practices more effectively and constantly, synergy effects on enforcement activities can be expected by promoting cooperation among Asian countries.

# Initiative of Asian countries

E-handbook for good practice

The information will be  
uploaded to websites and can  
be accessible and  
downloadable from all Asian  
countries

# Benefit of e-handbook of good practice

- Countries can learn and duplicate successful cases of other countries in an efficient manner
- When starting new activities, advice or support can be obtained from well experienced countries

# Benefit of e-handbook of good practice

- Mutual understanding about the Basel import/export procedure among Asian countries can be enhanced.
- In total, implementation capacity of the Basel Convention can be strengthened in the region.



Website: [www.bcrc-sea.org](http://www.bcrc-sea.org)

Thank you for your  
attention.