

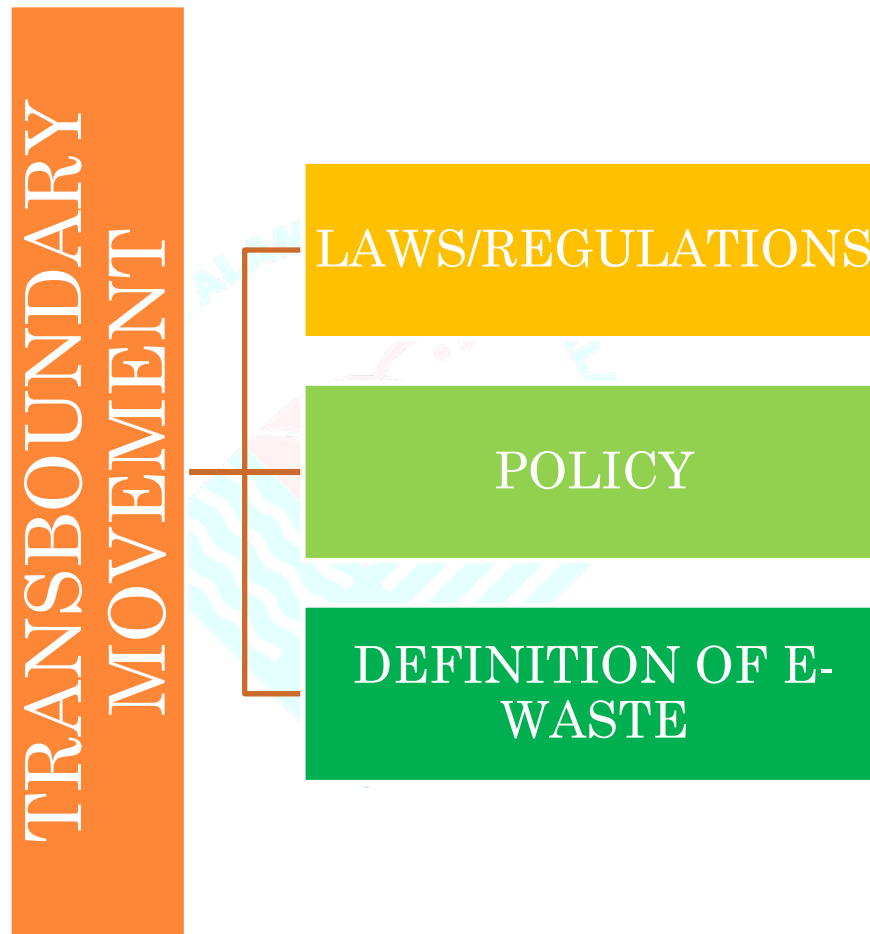


ASIAN NETWORK WORKSHOP 2013

Correlation between Transboundary Movements and Environmentally Sound Management of Hazardous Wastes

**Hazardous Substances Division
Department of Environment
Malaysia
21 November 2013**

TRANSBOUNDARY MOVEMENT OF E-WASTE



LEGAL REQUIREMENT

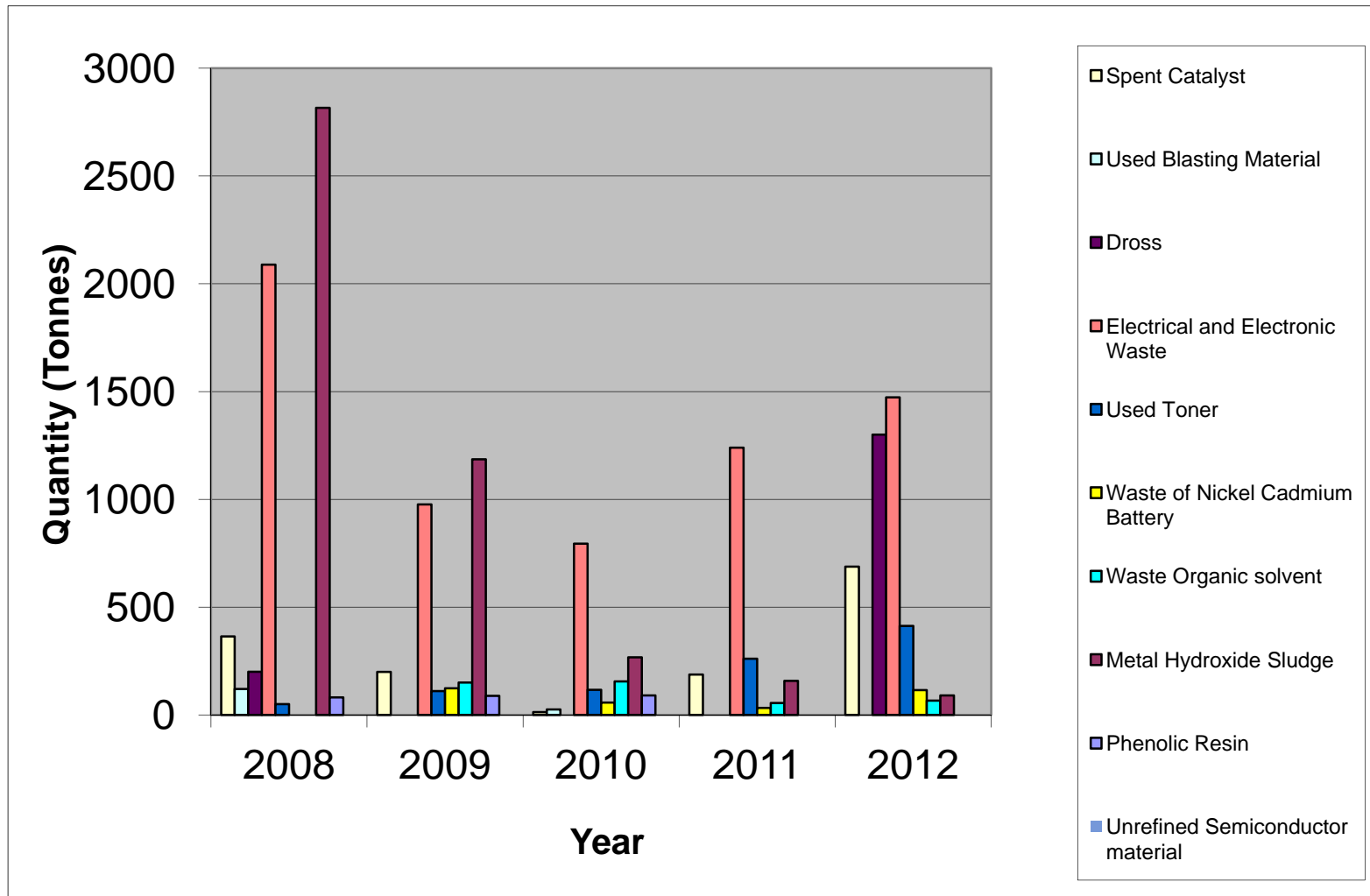
- Section 34A – Environmental Impact Assessment requirement for all disposal/treatment/recovery facilities
- Section 34B, Environmental Quality Act 1974 - Director General Written Approval Prior to any movement
- Environmental Quality (Scheduled Waste) Regulations 2005 - List of Scheduled Waste and managing the waste
- Custom Prohibition (Import) Order 2012
- Custom Prohibition (Export) Order 2012
- Import/Export with the DG of Environment approval
- Guidelines For The Classification of Used Electrical and Electronic Equipment in Malaysia, 2010
- Describing Used EEE - < 3years & Good Condition
- Communications And Multimedia Act 1998 (Communication & Multimedia Technical Standards Regulations 2000) – equipment with LAN, WIFI (networking apparatus)

POLICY FOR IMPORT AND EXPORT OF SCHEDULED WASTE

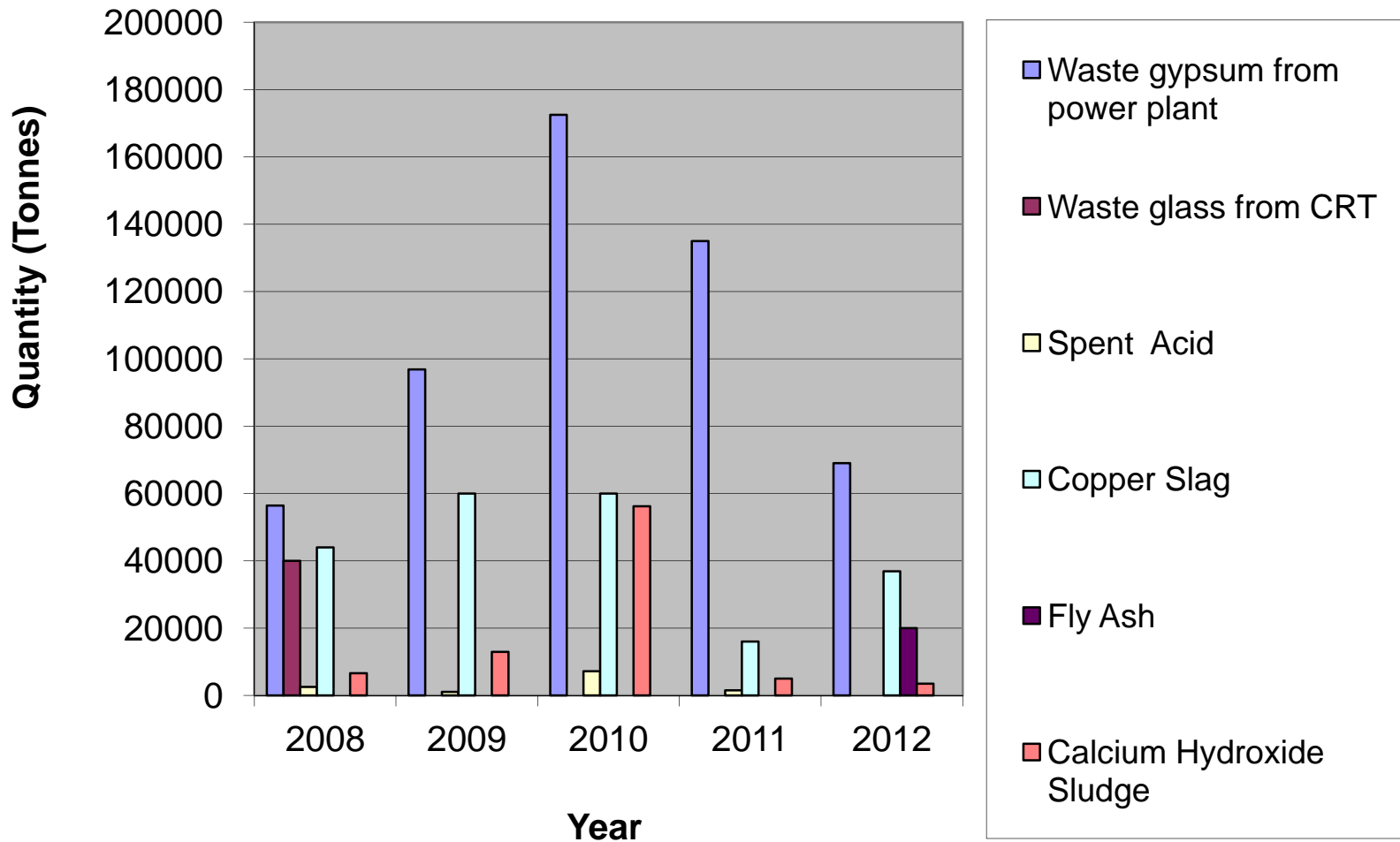
- Base on The Principal Of Basel Convention :
- Malaysia does not allow any importation of hazardous waste/scheduled waste including e-waste for recovery and disposal; (complying the BAN amendment)
- Used EEE that less than 3 years (< 3years) and in good condition can be imported for direct re-use only;
- Exportation of e-waste/scheduled waste will be possible when no technology or recovery facilities available in Malaysia;



MALAYSIA : QUANTITY OF SCHEDULED WASTES EXPORTED (TONNES) BY TYPE OF SCHEDULED WASTE 2008 - 2012



MALAYSIA : QUANTITY OF SCHEDULED WASTES IMPORTED (TONNES) BY TYPE OF SCHEDULED WASTE 2008-2012



OECD ESM CORE ELEMENTS

○ Facilities should:

- BE PROPERLY AUTHORIZED/LICENSED
- HAVE AN EMS SYSTEM IN PLACE
 - MEASUREABLE OBJECTIVES/TARGETS
 - REGULAR REVIEW OF PROGRESS
 - COLLECTION & REVIEW OF EH&S DATA
 - REGULAR AUDIT/INSPECTION PROGRAM
 - PERIODIC FACILITY REPORT ON PROGRESS
 - SIMPLIFIED PROCEDURES FOR SMALL FIRMS



OECD ESM CORE ELEMENTS

○ Facilities should:

- **SUFFICIENTLY PROTECT WORKERS & THE ENVIRONMENT**
- **HAVE MONITORING, RECORDKEEPING, REPORTING**
 - COMPLIANCE WITH SAFETY REQUIREMENTS
 - EFFLUENTS AND EMISSIONS
 - INCOMING, STORED & OUTGOING WASTE & MATERIALS
- **HAVE AN ADEQUATE TRAINING PROGRAM**
- **HAVE AN ADEQUATE & UP-TO-DATE EMERGENCY PLAN**
- **HAVE A CLOSURE/POST-CLOSURE PLAN**
 - ADEQUATE FINANCIAL GUARANTEE, IF REQUIRED



PROMOTING ENVIRONMENTALLY SOUND MANAGEMENT

- Taking all practicable steps to ensure that hazardous wastes are managed in a manner which will protect human health and the environment against the adverse effects which may result from such wastes
- A study on e-waste recovery facilities with objectives to developed ESM criteria for those facilities, to determined the best method/technology that suits Malaysian scenario – e-waste quantity/financial/technology and to determined the future direction of e-waste management in the country



ENVIRONMENTALLY SOUND MANAGEMENT (IMPORTERS)

- The Facilities must have Environmental Impact Assessment, and to be licensed by Department of Environment
- The waste to be used directly in the production and no residue will be generated from the process
- Eg. – gypsum in cement plant as alternative material, copper slag as blasting material and then to cement plant, fly ash as construction material etc
- Malaysia does not allowed any import for recovery and disposal



ENVIRONMENTALLY SOUND MANAGEMENT

- Competent person for every facilities/ waste generator on their pollution control such as Industrial Effluent Treatment System (CePIETSO), Air Pollution Control (CePSO / CePFBO) and Schedule Waste Management (CePSWAM)
- Environmental Institute of Malaysia organise the training and certified the competent person



ESM FACILITIES : E-WASTE


- E-waste – Full and Partial Recovery Facilities
- Full Recovery Facility :
 - *Physical and Chemical Treatment
(wet chemical processes & electrolysis)
 - *16 licensed facilities
- Partial Recovery Facility (licensed with No EIA):
 - *Physical Segregation/ Separation
 - * 122 licensed facilities (previously were scrap vendor for electronic item)



MEASURES TO ENSURE STABILITY AND PREDICTABLE SUPPLY TO ESM FACILITIES

- To control the number of ESM Facilities vs the generation rate of any scheduled waste e.g limit license given to ULAB recovery facilities
- To control the leaking of scheduled waste out of country where CA and Customs need to work closely as well as the Customs of receiving country – to avoid shortage supply in the country
- Note : Malaysia does not allowed any import of scheduled waste for recovery and disposal





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