

Department Of Environment Ministry of Natural Resources and Environment

3R INITIATIVE ON SCHEDULED WASTE MANAGEMENT IN MALAYSIA

SENIOR OFFICER MEETING ON 3R INITIATIVE, TOKYO, JAPAN

PRESENTED BY MR. ZARMADI MOHAMED DEPARTMENT OF ENVIRONMENT, MALAYSIA

DOMESTIC LEGAL AND INSTITUTIONAL MEASURES

- Section 34B, EQA on control of scheduled wastes
- Environmental Quality Act (Scheduled Waste) Regulation 2005
- Environmental Quality Act (Prescribe Activities) Order 1989
- Customs (Prohibition of Export) Order 1998
- Customs (Prohibition of Import) Order 1998

Exports/Imports through Customs be accompanied by a permit issued by DOE (BASEL CONVENCTION PROCEDURE)

LEGAL REQUIREMENT (DOMESTIC)

Section 34B (1) EQA 1974:

No person shall -

(a) place, deposit or dispose of, or cause or permit to place, deposit or dispose of, except at prescribed premises only, any scheduled wastes on land or into Malaysian waters;

(b) receive or send, or cause or permit to be received or sent any scheduled wastes in or out of Malaysia; or

(c) transit or cause or permit the transit of scheduled wastes without any prior written approval of the Director General

ENVIRONMENTAL QUALITY (SCHEDULED WASTE) REGULATION 2005

Treatment of Scheduled Wastes (Regulation 5)

On-site or **at prescribed premises only**

Recovery of Scheduled Waste (Regulation 6) On-site or at prescribed premises only

Residuals shall be disposed at prescribed premises

ENVIRONMENTAL QUALITY (PRESCRIBE ACTIVITIES) 1989

- Activities 18
 WASTE TREATMENT AND DISPOSAL Toxic and Hazardous Waste
 - i) Construction of incineration plant
 - ii) Construction of Recovery plant (off-site)
 - iii) Construction of waste water treatment plant (off-site)
 - iv) Construction of secure landfill facility
 - v) Construction of storage facility (off-site)

REUSE/RECOVERY/RECYCLE

 PROCEDURE FOR RECOVERY/REUSE/RECYCLE FACILITIES

Environmental Impact Assessment Report (EIA)approved by Director General on the Environment

Approval on construction (sitting and zoning)

Licensing on operation

Import & Export of Schedule Waste

All import and export activities need to follow BASEL Convention procedure **Consideration for import** Not enough supply at local sources CLicencing with DOE **Consideration for export** OThere is no domestic recovery facility Approval from recipient country

Handling Of Scheduled Wastes, 2000 - 2004

	FACILITY					
BIL		Quantity (Tonne)				
		2000	2001	2002	2003	2004
1	DISPOSAL	84,321.000	76,334.000	85,797.000	81,358.820	88,268.000
2	EXPORT TO FOREIGN	4,879.520	2,675.000	3,110.000	2,361.880	3,354.000
	FACILITIES					
3	DELIVERED TO LOCAL	120,570.960	123,670.000	204,666.000	250,260.450	272,419.590
	OF-SITE RECOVERY FACILITES					
4	OFF-SITE CLINICAL WASTE	3,780.820	7,863.000	17,779.000	5,239.420	12,840.540
	INCINERATORS					
5	ON-SITE TREATMENT	0.000	156,619.000	15,458.000	68,052.930	53,061.300
6	ON-SITE STORAGE	130,998.040	53,037.000	36,207.000	53,592.240	39,640.640
-	TOTAL	344,550.340	420,198.000	363,017.000	460,865.740	469,584.070

Quantity of Scheduled Wastes Exported (Tonnes) by Type of Waste 2000 – 2004

Tahun/ Year Jenis Buangan / Type of Waste	2000	2001	2002	2003	2004
Metal Hydroxide Sludge	1,678	1,795	1,537	212	2494
Spent Catalyst	2,905	816	1,365	693	722
Copper Oxide			142	1,209	
Used Blasting Material	36	19			25
Cadmium Nickel Oxide	108		67	30	1
Aluminium Dross	10				
Nickel Cadmium Battery				217	103
Glass Cutlet	141	45			-
Used drums containing chemicals					10
Total (Tonnes)	4, <mark>87</mark> 8	2,675	3,110	<mark>2,361</mark>	3354

ISSUES

Electric and electronic waste

Code SW 110 - Waste electrical and electronic assemblies containing components such as accumulators, mercury-switches, glass from cathoderay tubes and other activated glass or polychlorinated biphenyl-capacitors, or contaminated with cadmium, mercury, lead, nickel, chromium, copper, lithium, silver, manganese or polychlorinated biphenyl.

Improper recovery (partial and full recovery)
Local sources vs importation
Differentiate between second hand and waste
Brand, packaging ?



SENIOR OFFICERS MEETING ON 3R INITIATIVES

6-8^{тн} MARCH 2006, ТОКҮО, JAPAN

WASTE MINIMISATION PROGRAM IN MALAYSIA

HISTORICAL BACKGROUND

- Resource recovery and recycling is practiced ever since, as demanded by local industries.
- 1988 Action Plan for Beautiful & Clean (ABC) Malaysia was formulated;
- ABC indicate the need to reduce and recycle solid waste.
- 1993 1st Recycling Program was launched.

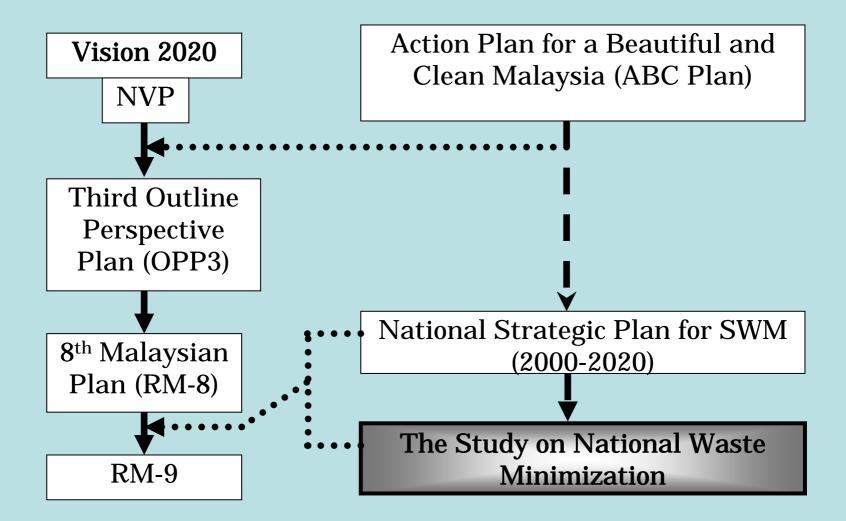
National Recycling Program

- Launched in November 2000
- Long term Objective : to inculcate the habit of recycling among the population,
- Reduce operation cost of solid waste management.
- > Minimize the volume of waste disposed by landfill.
- Reduce utilizations of raw materials.
- To improve awareness and cooperation among stakeholders.

National Strategic Plan for Solid Waste Management- 2005

- 1. Determination of SWM priority.
- 2. Rapid and Comprehensive Development of the necessary Legal and Institutional Framework.
- 3. Development of Public Participation in SWM.
- 4. Provision of Sustainable Technologies to Manage Solid Wastes in Malaysia.
- 5. A comprehensive Approach to Develop the Waste Reduction, Reuse and Recovery Elements of SWM.
- 6. A socially Acceptable SWM System that calls for substantial Initial Government Intervention with Gradual Shift towards Full Cost Recovery.

Development of 3R Program in Malaysia



Development of National Waste Minimisation Master Plan - 2006

(1) Objective	To Provide visions, strategies, policies, institutional mechanisms and roles of stakeholders to minimize the amount of solid waste disposed in Malaysia
(2) Target Waste	Municipal Solid Waste, which is generated from household and various business entities.
	As to the other types of waste (industrial waste, construction/demolition waste, etc.), M/P only provides recommendations regarding the institutional mechanisms with the proposed allocation of task among the relevant government ministries and agencies.
(3) Target Area	Whole Malaysia
(4) Target Year	2006-2020

<M/P Strategies>

Enhancement of Awareness	Strengthening of Partnership	Development of Institutions				
Action-1: Awareness Raising Activities under NRP Action-2: 3Rs Activities in School	Action-3: Source Separation Action-4: Networking and partnership Activities of NGOS/ CBOS	Action-5: Legal & Reg. Mechanism Action-6: Financial Incentives Action-7: Capacity Development				

Pilot Projects

THANK YOU