

Japan's Analysis of ESM Standards based on the Situation in Asia

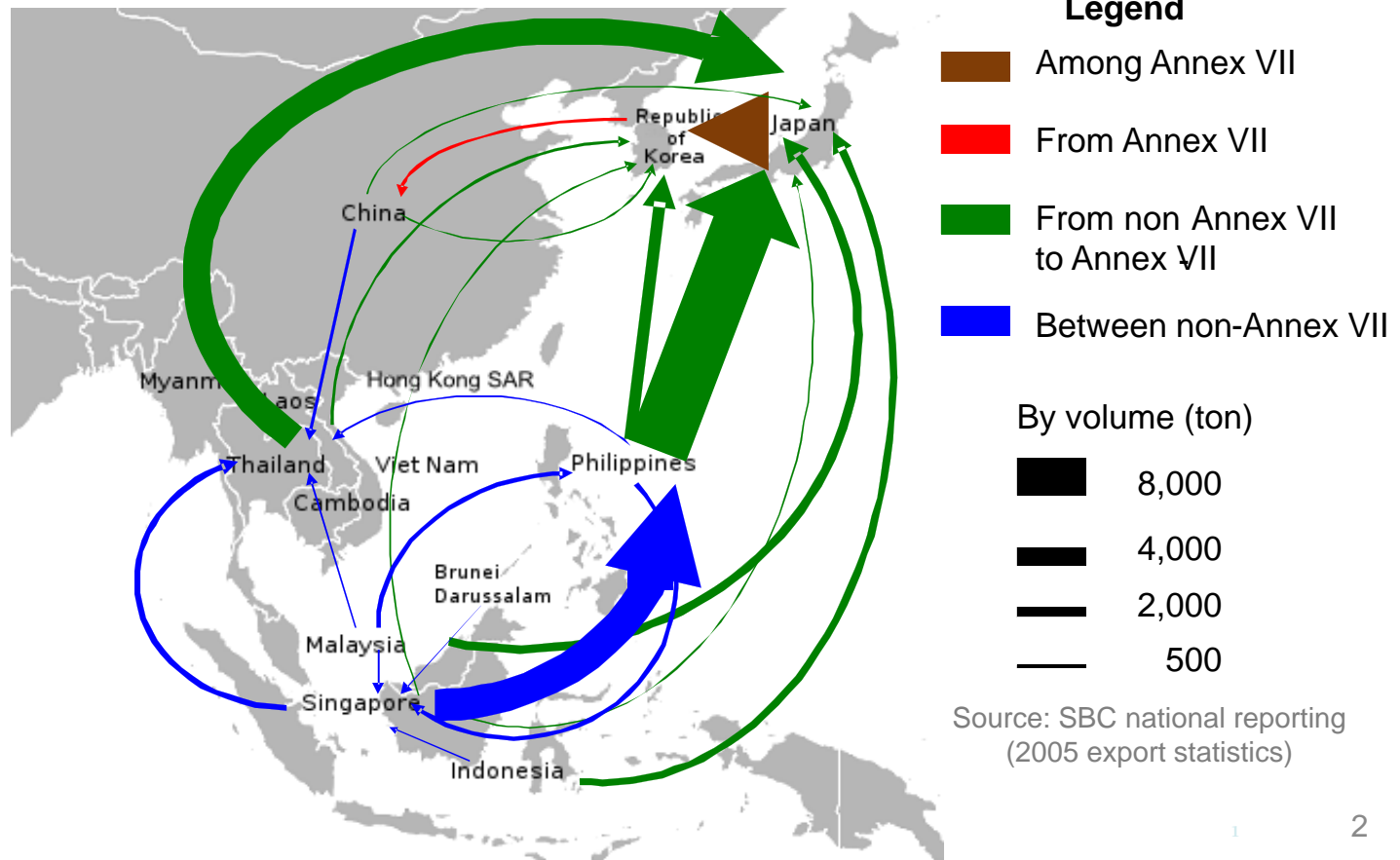
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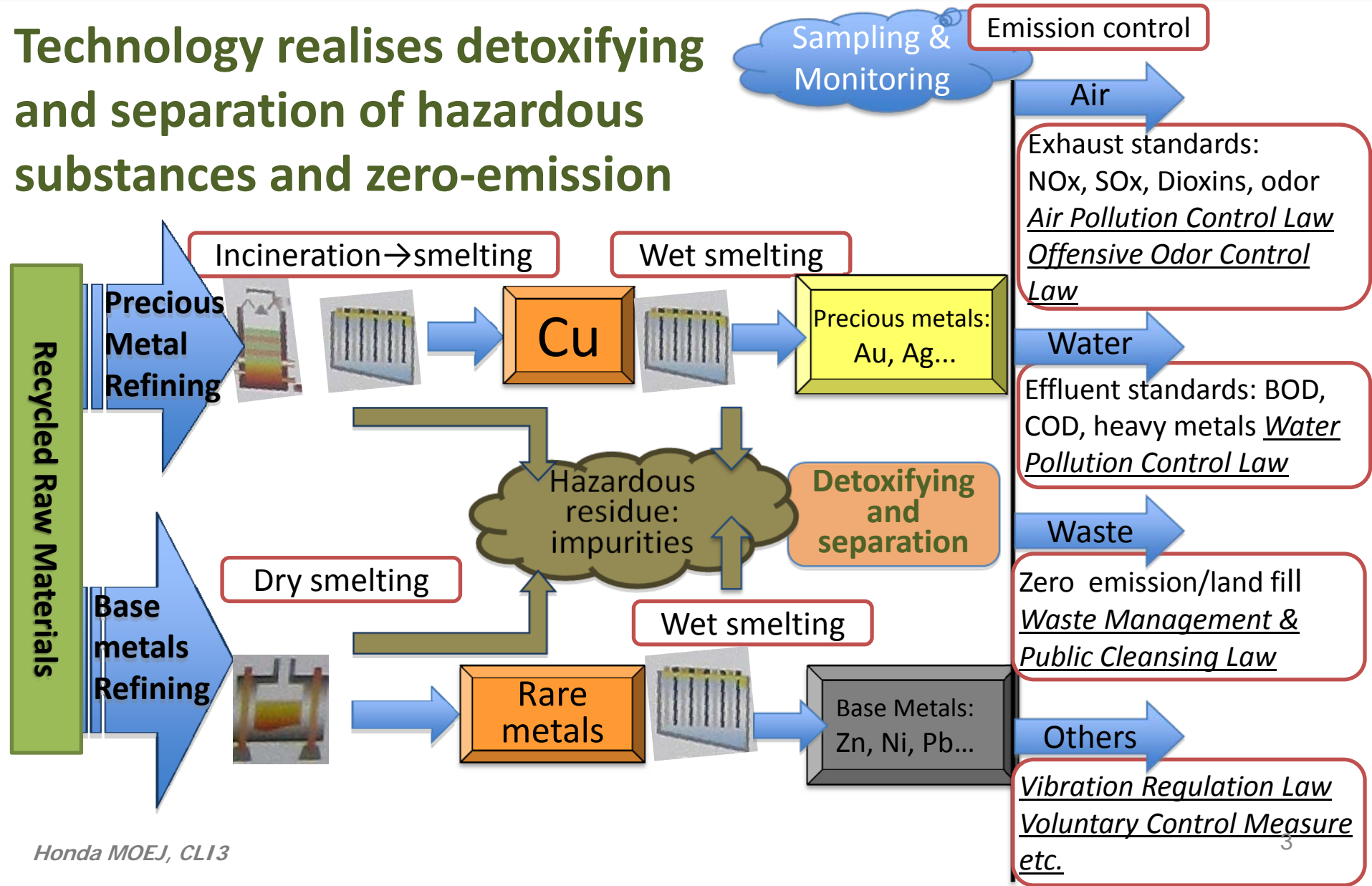
Introduction: Overall Trend of TBM in Asia(2005)

- ◆ Small amount exported from **Annex VII**
- ◆ Majority traded from non-Annex VII to **Annex VII** and among non-Annex VII
- ◆ Recyclable HW: Non-Annex VII ↔ **Annex VII**
- ◆ Difficult-to-treat HW: Non-Annex VII → **Annex VII**



Example in Japan: Material Recycle and Environmental Management :

Technology realises detoxifying and separation of hazardous substances and zero-emission



Problem Awareness

Serious health and environmental impacts caused by inadequate waste management exist in Asia.

- Causal analysis of such problems is needed.
 - TBM from Annex VII to non-Annex VII?
 - Illegal TBM?
 - TBM of e-waste for reuse?
- To avoid such problems,
 - Improper export should be controlled.
 - Development of guidance for identifying ESM facility to treat hazardous wastes is needed.

Japan's Policy for Export of Hazardous Wastes -How to Ensure ESM-

Japan's Policy on Export: Criteria

Japan's legislation **permits export** of hazardous wastes **only under certain conditions** - “Basic Matters”.

- Lack of technical capacity or necessary facilities in Japan *or* Special need for materials for recycling or recovery in the state of import
- Consent of the state of import
- Achievement of environmental standards that meets Japan's domestic standards through transport and recycle/disposal
- Presence of guarantee for transport and disposal such as insurance coverage, bond etc. or a sufficient financial base and technical capacity

Japan's Policy : Export to Non Annex VII

There are specific procedures for the export of hazardous wastes to a Non Annex VII country

- The export is conducted under the Basel Convention with the consent of the state of import.
- Prior document examination to confirm whether the facility handling wastes would meet Japan's domestic environmental standards (water/air pollution controls).
- Site examination might be conducted additionally, with cooperation of the importer, according to the results of the prior document examination.

Background: Status of Asia

Cross border industrial collaboration is ongoing
/ Establishment of ESM facilities in Asian region

- Rapid development of recycling facilities in Asia
- Some countries have introduced ESM standards for recycle and disposal procedures at those facilities

Progress in Recycling Activity

Recycling activity with no pollution control



Harmful air



Hazardous liquid

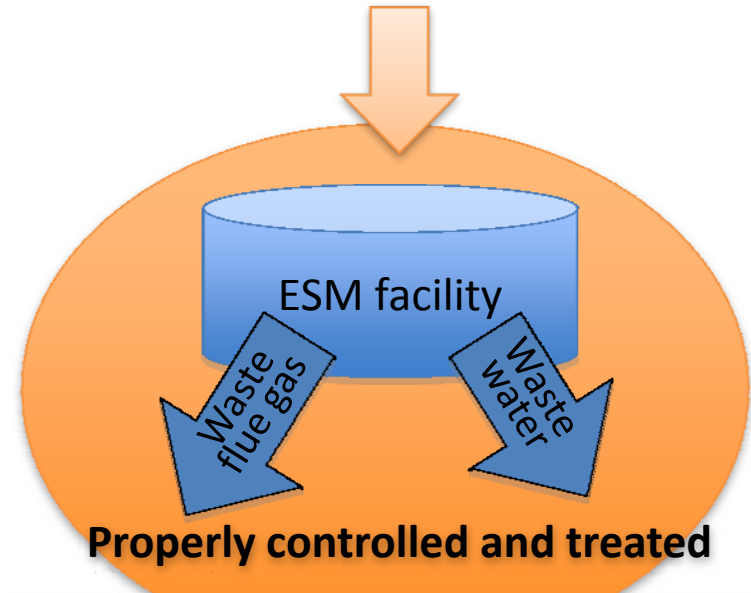


Health impact

Photo: Yoshida(2010)

Air, soil, water contamination and even health effect caused

Recycling activity at ESM facility



Sufficient labor safety measures and proper operational management

Air, soil, water pollution is controlled
Labor safety is secured

Should be shifted toward this direction

Survey for Criteria on Import of Hazardous Wastes/Other Wastes in Asian Countries

The survey tells that some Asian countries have introduced concept of ESM in import/export permit criteria , and/or facility licensing requirement.

▶ Survey Purpose : Identification of requirement or criteria being currently practiced in Asian countries for ensuring those imported wastes (especially, E-waste) which are recycled or treated in environmentally sound manner.

▶ Target : **Competent Authorities** to the Basel convention in the following countries which permit import of hazardous wastes and other wastes only if certain **ESM conditions (ESM standards) are met.**

⊕ *Republic of Korea*

⊕ *Philippines*

⊕ *Singapore*

Result of Questionnaire Survey

| Major ESM components in each country's criteria for ensuring ESM of exported/imported wastes | Japan (export case) | Republic of Korea | Philippines | Singapore |
|--|------------------------|----------------------|-------------|-----------|
| Occupational and environmental health safety | X | X | X | X |
| Monitoring, Record, Reporting | X | X | X | X |
| Awareness and competency of worker | X | X | X | X |
| Emergency response | In Basic Matter | X | X | X |
| Securing of finance | X | | X | X |
| Evidence of downstream use and recycling | | X | X | X |

Topics:

ESM Standards at Multinational Enterprises

Leading multinational manufacturers have their own unified ESM criteria (standards) and conduct prior evaluation & post audit of the recycle/disposal facility for their products

- Such enterprises have their own Environmental Management System to evaluate & audit their counterparty facilities for implementing producer's responsibility
- Such system is unified and applied to all regions in the same way.
- Such enterprises do not set a boundary between countries

Example: Multinational Enterprise Evaluation of Facilities

- **Prior examination**
 - Treatment of chemical materials
 - Residue generated from procedures
 - Labor security policy
 - Compliance, penalty record
- **Site examination**
 - Review of facility, meeting with operators
 - Commitment of executives for environmental management
 - Sufficiency facility for treatment of chemical materials
 - Standard operation procedures, data record
 - **Management system for secondary and tertiary disposing**

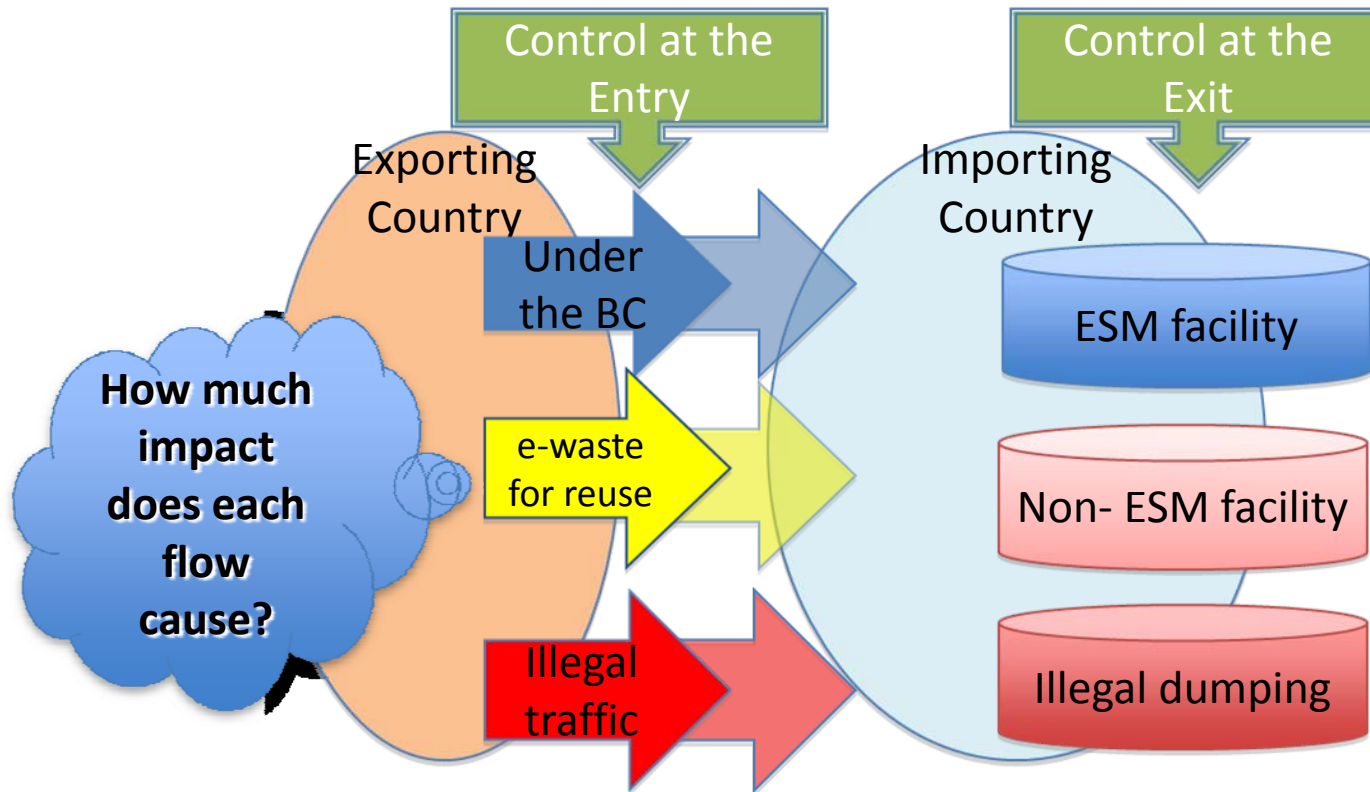
Summary: ESM standards

Introduction of ESM standards should be considered on **the facility basis**.

- Considering Asian economic situation, activities for resource recovery from waste will likely be developed in a borderless manner.
- In such situation, **facility-based ESM standards** to identify facility which can treat wastes will become essential.
- Introduction of ESM standards (or certification scheme) can support **manufacturers which need** ESM facilities as well as highlight such enterprises' activities.
- **Consideration of ESM standards under the Basel Convention** should learn from experience of leading multinational manufacturers to avoid applying double standards.

Analysis of Reasons: Inadequate Waste Treatment

Both Control at the entry and exit are needed



- Control at the Entry : Clear Distinction between wastes and non-wastes
Interdiction at customs
- Control at the Exit : ESM facility standards

Thank you !!