Waste Management Policies and Practices in China

Outline

• Waste Management Legislation in China
• Hazardous Waste Management
• E-Waste Management
• Municipal Waste Management
• Waste Import & Export Management
Waste Management Legislation in China

- **Laws**
  - Environmental Protection Law of the PRC (issued in 1989)
  - Cleaner Production Promotion Law of the PRC (issued in 2002)
  - Circular Economy Promotion Law of the PRC (issued in 2008)

- **Administrative Regulations**
  - Hazardous Waste, Medical Waste, E-Waste

- **Department Rules**

- **Local Regulations**
Solid Waste Management Framework in China

1. Reduce, recycle and Environmentally sound
2. Extended producer responsibility
3. Agriculture solid waste
4. Enhance management of HSW

Constitution

Environmental Protection Law
Law on Prevention of Environment Pollution Caused by Solid Waste
Cleaner Production Promotion Law
Circular Economy Promotion Law

Measures on Management to Hazardous Waste Operation Permits
Regulations on Management to Medical Waste
Regulations on Management to Waste Electric and Electronic Equipment

Department Rules
National Technology & Economy Policy
Standards and Specifications

Local Regulations

International Conventions

1. Promote cleaner production
2. Increase the efficiency of the utilization rate of resources
3. Reduce and avoid the generation of pollutants

Solid Waste Management Framework in China

Hazardous Waste Management
Hazardous Waste Management System

- **National Hazardous Waste Catalogue**
  - 49 categories of hazardous waste & 498 types of waste hazardous chemicals
- A **distinguishing mark** of hazardous waste is required
- Generators of hazardous waste shall have **hazardous waste management plans**, and report periodically
- The State practices **license control system for the units involved in collection, storage & treatment** of hazardous waste
  - Hazardous waste collecting, storage, recycling & disposal units shall have operation record and periodically report

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Hazardous Waste Management System

- **Centralized treatment facilities & sites** for hazardous wastes are planned
- Centralized treatment facilities & sites shall draw **decommissioning expense in advance**
- Preventive measures for **accidents & emergency plans** are required
- Hazardous waste transportation is implemented through the use of **waste manifest**
- Transfer hazardous waste via the territory of the PRC is prohibited
- Medical waste is a kind of hazardous waste and shall be complied with the Regulations on Management to Medical Waste
The 12th National 5-year Plan on Prevention of Pollution Caused by Hazardous Waste

- **The first national plan concerning HW**
- Lists the measurable goals that China will achieve to manage hazardous waste from 2011 to 2015
  - Risk control and prevention caused by HW
  - Reducing the generation of HW
  - Promoting the development of HW reuse, recycle and disposal industry
  - Strengthening environmentally sound management to medical waste
  - Seeking solutions to hazardous waste generated from public area and household
- **Stakeholders:** Central Administrations, Provinces, Local Governments, Industry Associations, Academic Institutions, Enterprises, Public groups and communities

中华人民共和国环境保护部
Ministry of Environmental Protection of China
E-Waste Management System

- Regulations on Management to Recovery and Treatment of Waste Electrical and Electronic Equipment (Issued in 2008, will be enforced in 2011)
  - Catalogues of waste electrical and electronic equipment
  - WEEE are collected by multi-channels for centralized treatment
  - The treatment facilities of WEEE should be licensed
  - The State establishes fund for WEEE treatment, which could be used as WEEE treatment subsidy
  - The treatment of WEEE should be planned by related provincial authorities
  - Provincial governments could set up WEEE centralized treatment sites

Home Appliance Trade-in Policy

- From June 2009 to the end of 2011
- 10% subsidy in old-for-new consumption
- All replaced home appliances shall be returned to designated collectors
- Every province shall designate dismantling and recycling facilities to treat the collected waste home appliances
Municipal Waste Management System

- The principle of reduce, recycle and environmentally sound treatment
- Polluter pays principle
- Charging system of MSW treatment
- Bidding and qualification in sweeping, collecting, transporting, and disposing of MSW
Guidance on Integrated Control of Municipal Waste

- MEP and related administrations have drafted a guidance on the management to municipal waste
  - Encouraging the reduction of generation
  - Advancing separation, collection and transport system
  - Selecting applicable treating methods – sanitary landfill, clean incineration and biological treatment
  - Strengthen the management to food waste in urban area and to household waste in rural area
Waste Import and Export Management System

- A part of Basel Convention
- Principle:
  - To prevent the pollution caused by import wastes, and to protect the domestic environment and human health
  - To utilize import recyclable wastes, and to meet the demand for raw materials
  - The export of hazardous waste must fulfill the requirements of the Basel Convention on the prior notification procedure and of the destination

Waste Import and Export Management System

- Dumping, storage and disposal of import wastes are prohibited
- A ban is imposed on import wastes that cannot be used as raw materials or used in an environmentally sound manner
- It is forbidden to transfer hazardous waste via the territory of the PRC
- Import license is required for any waste importation
Closed loop management system

- Overseas Suppliers
- AQSIQ-License
- MEP-License
- Pre-shipment inspection by CCIC
- Unqualified solid waste shipped back by Customs
- Environmentally sound recovery by recycling facilities
- Domestic consignee License by AQSIQ

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