

An Overview of Korea's Waste Export & import Management

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Table of Contents

- 1 Management of Hazardous Wastes
- 2. Management of Non Hazardous Wastes
- 3. Wastes Export & Import Last 5 yrs
- Imported Wastes Overall Treatment Monitoring
- **5.** Customs Check
- 6. About E-waste

Basel Convention

- Adoption(3.20. '89)

 Effectivation(5.5. '92)
- o Korea Joining(2.28. '94) ⇒ implementation(5.29. '94)

System of Domestic Implementation

- Focal Point: MoE Resource Recirculation Bureau
- Competent Authority: 7 river basin environmental office and regional environmental office

River Basin Envtl' Office(4)

- Han River
- Nakdong River
- Kum River
- Youngsan River

Regional Envtl' Office(3)

- Daegu
- Wonju
- Jeonju



Current Status of Implementation in Korea

- Establishment of Korean Basel Act (Act on the Control of Transboundary Movement of Hazardous Wastes and Their Disposal)
 - proclamation(12.8. '92) → enforcement(5.29. '94)
- Introduction of Wastes Export & Import Permission System
 - Import&Export of Hazardous waste must be permitted by related basin environmental office and regional environmental office
 - Obligation of Electronic Invoice (Allbaro System)
 - prohibition of reexport the waste which remains origin shape

[permission prerequisite for export]

- 1 In case of no domestic techniques & facilities that might lead environmental management
- 2 In case of Import country needs the waste for recycling

[permission prerequisite for import]

- 1 In case of domestic techniques & facilities that might lead environmental management are in domestic market
- ② In case of the country needs the waste for recycling

Notice of Catalog of Hazardous wastes

▶ List of Basel Convention A(61), Code Y (2), List of OECD (22) Total 86

WASTES	Note
A. Metal and metal-bearing wastes	22type
Metal wastes and waste consisting of alloys of Antimony, Arsenic, Cadmium, Lead and Mercury	
Wastes having as constituents or contaminants of Arsenic, Mercury and Thallium	
Waste liquors from the pickling of metals	
Waste lead-acid batteries, whole or crushed	
Precious metal ash from incineration of printed circuit boards not included on list B	
 Waste metal cables coated or insulated with plastics containing or contaminated with coal tar, PCB, lead, cadmium, other organohalogen compounds or other Annex I constituents to an extent that they exhibit Annex III characteristics 	
B. Waste containing principally inorganic constituents, which may contain metals and organic materials	12type
Glass waste from cathode-ray tubes and other activated glasses	
Waste catalysts but excluding such waste specified on list B	
Waste asbestos (dusts and fibres)	
Sands used in foundry operations	

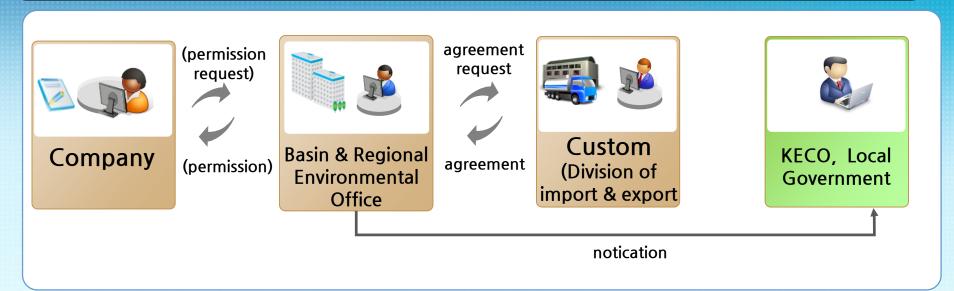
C. Wastes containing principally organic constituents, which may contain metals and inorganic materials	30type
Waste from the production or processing of petroleum coke and bitumen	
 Wastes from production, formulation and use of resins, latex, plasticizers, glues /adhesives excluding such wastes specified on list B (Note the related entry on list B[B4020])) 	
Fluff-light fraction from shredding	
Waste non-halogenated organic solvents but excluding such wastes specified on list B	
Waste halogenated organic solvents (antifreeze, CFC)	
D. Wastes which may contain either inorganic or organic constituents	20type
 Wastes from the production, preparation and use of pharmaceutical products but excluding such wastes specified on list B 	
 Clinical and related wastes; that is wastes arising from medical, nursing, dental, veterinary, or similar practices, and wastes generated in hospitals or other facilities during the investigation or treatment of patients, or research projects 	
 Waste acidic or basic solutions, other than those specified in the corresponding entry on list B (Note the related entry on list B[B2120])) 	
E. Others	2type
Wastes collected from households	
Residues arising from the incineration of household wastes	

Catalog of Banned Waste

- List of hazardous waste which has difficulty to management in domestic market
 - Waste contains asbestos over 1%
 - Medical Waste(only medical waste that being used for medicine is permitted)
 - "Designated waste contains PCBs"
- Liquid waste contains hazardous material
 - Illegal imports of liquid waste such as waste oil is not able to be treated

- Items that are hardly managed in domestic industries
 - In case of there is difficulty to fit waste recycling standard
 - In case of capability of contracted domestic company is inadequate for treating the waste

Import & Export Procedure for Hazardous waste



- General Wastes Export & Import Report Certificate system
 - Implementation of "Export & Import Certificate System" for Non Hazardous Waste('08.8.4)
- Obligation of Electronic Invoice
- Prohibition of reexport the waste which remain origin shape
 - related legislation : Waste Management Act § 24-3

Notice of Catalog of Non Hazardous wastes

➤ Notification of Ash, Slag, Wasted tire as report-needed waste(25 items)

No.	Waste
1	Highly polymerized compound
2	Sludge
3	Slag
4	Dust
5	Refractories and pottery shards
6	Cinder
7	Stabilized and solidified matters
8	Catalysts waste: that has transition metal or the rare-earth elements metal
9	Absorbent waste
10	Paint and spray waste
11	Fat oil waste
12	Plaster and lime waste

No.	Waste			
14	Waste stone			
15	Waste tire			
16	Waste cooking oil			
17	Animal and plant residues			
18	Electronic equipment waste			
19	Rice hulls and rice bran			
20	Waste Wood			
21	Waste Soil and sand			
22	Waste Foundry sand and sand			
23	Waste fiber			
24	Metals waste			
25	Waste Glass			

Import & Export Procedure for General waste



Hazardous Wastes

➤ Export Status('10-'14)

	'10	'11	'12	`13	`14.6
Total	609	556	275	364	246
E-waste	609	549	275	277	246
Catalyst Waste	-	7	_	78	_
Alkali Waste	-	-	-	9	_
Fraction from car shredding	-	-	-	-	-

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Non Hazardous Wastes

➤ Export Status('10-'14)

	'10	'11	'12	`13	`14.6
Total	202,835	212,288	286,863	298,756	147,082
Highly polymerized copound	183,097	162,600	232,185	217,914	114,616
Sludge	605	10,002	7,674	7,512	5,043
Waste Catalysts	1,316	9,459	10,855	27,527	5,399
E-waste	5,683	8,736	1,169	3,285	2,793
Slag	2,136	7,642	2,055	15,983	5,523
Dust	2,160	6,990	17,027	5,032	3,895
Waste wire	270	4,253	6,930	8,644	4,797
Waste metal	295	1,630	2,793	865	446
Animal and plant residues	7,201	680	1,998	5,991	954
Waste glass	72	220	40	5406	3,591
Waste Tire	_	-	4,117	_	-
Otehrs	-	76	20	597	25

Hazardous Wastes

➤ Import Status('10-'14)

	'10	'11	'12	`13	`14.6
Total	324,577	275,835	255,890	406,636	224,851
Waste Batteries	304,258	252,185	216,984	365,234	207,587
Scrap of leads	_	3,320	3,675	3,004	-
E-waste	6,004	12,431	26,321	14,490	1,112
Waste metals	1,310	5,950	1,888	5,054	-
Sludge	2,611	1,450	2,750	11,297	6,415
Nikel-cadmium Cell	728	417	232	968	159
Highly polymerized copound	_	82	_	4119	6,793
Slag	5,540	_	1,187	638	-
Glass of CRT	2,305	_	-	73	110
Dust	1,812	_	1,573	38	289
Others	9	-	1280	1721	2213



Non Hazardous Wastes

▶ Import Status('10-'14)

	'10	'11	'12	`13	`14.6
Total	1,380,661	1,615,707	1,921,463	2,121,699	792,065
Combustion residues(cinder	963,681	1,118,857	1,231,434	1,347,639	558,290
Animal and plant residues	247,643	279,632	287,338	312,910	30,264
Highly polymerized copound	47,394	62,888	87,522	113,454	39,714
Waste wood	23	10,717	50,711	65,115	17,225
Waste tire	35,320	81,449	184,757	150,549	70,517
Waste Cooking oil	41,237	29,892	25,641	60,774	48,934
Waste Catalysts	11,288	11,233	13,573	23,733	8,851
Waste fiber	9,099	11,151	9,593	16,021	5,303
Slag	6,339	6,130	5,611	8,766	2,325
Dust	654	1,024	1,024	1,294	2,410
Waste metal	10,954	985	9,855	15,811	6,343
E-waste	5,365	1,216	2,000	1,554	1,145
Waste glass	1,524	273	6,571	9	-
Sludge	140	260	5,833	3,990	744
Others	-	-	-	80	-

4. Imported Wastes Overall Treatment Monitoring

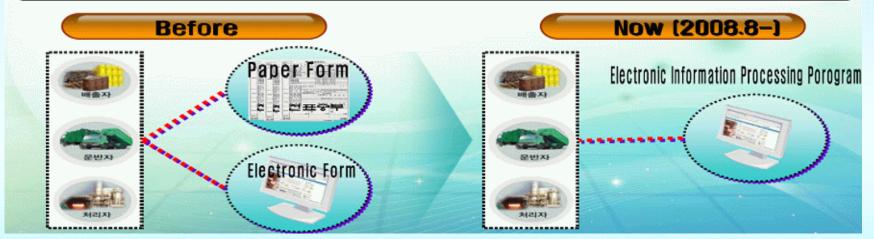
Allbaro System

➤ Manage entire process of handling wastes from waste discharging, transporting to final treatment by IT-based techniques

10. Allbaro System

IT-based comprehensive management for industrial wastes from generation through transportation to final disposal

Waste Control Act Article18 (3) A person who discharges, transports, or disposes of any commercial wastes specified by the Ordinance of the Ministry of Environment shall transmit matters concerning the delivery and receipt of wastes into the electronic information processing program



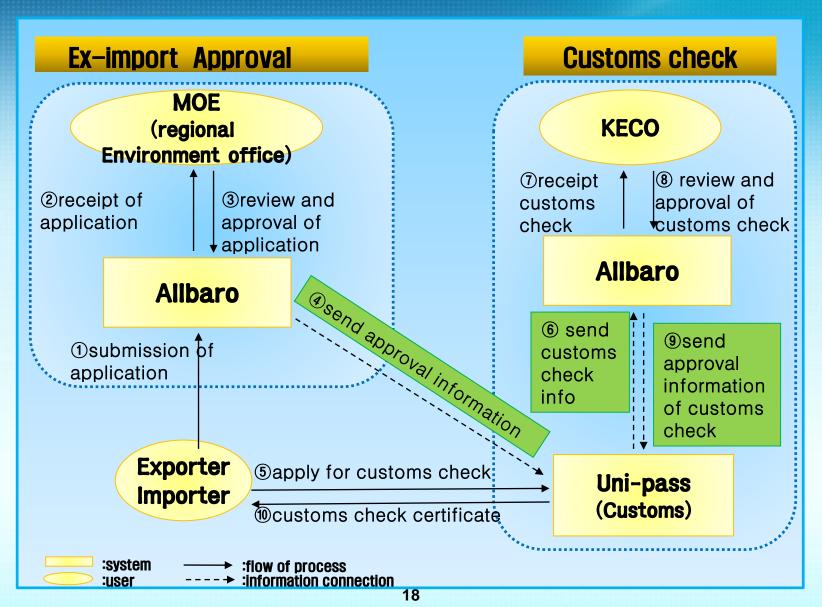
5. Custom Check

Custom Check

- Classifying HSK Code according to waste category → Notifying it as Wastes that need Customs Confirmation
 - Wastes are to get export&Import permission, or report certificate before clearing customs
 - Real-time based management through "Allbaro system" and "UNI-PASS" (Korea Customs Service, Electronic customs system)

5. Custom Check

Flow of custom check process



6. About E-waste

Secondhand Goods & Waste Identification Criteria

Secondhand E-goods

- In case of contract and invoice notifying that the item is transferred or will be sold for reuse
- In case of being attached of evaluation form from export division as a proof that the item is secondhand

E=waste

- In case the item is being imported for only recycle or diposal
- In case the item has difficulty to proper operation
- In case of the certain component which is prohibited by domestic legislation
- Discarded electrical electronic goods for only component reuse

6. About E-waste

Revised Korea's Comments on Technical Guideline

Secondhand E-goods

- (i) used equipment is sent back as defective for repair under warranty with the intention of reuse
- (ii) used equipment is sent for refurbishment or repair under a valid contract with the intention of reuse
- (iii) defective used equipment is sent for root cause analysis under a valid contract

Warranties

the legal and consumer guarantees [...] as well as warranties provided by manufacturers and sellers in relation to business to business transactions involving EEE.

The term also covers additional contractual undertakings, e.g. extended warranties, or obligations undertaken in the context of sales, service, maintenance and repair agreements.

6. About E-waste

How to Identify WEEE: Plan to make domestic criteria

- Regarding with identification of electric or electronic equipment that can be remanufactured.
- 4 Criteria: Durability life, Efficiency of energy, Functional test,
 Visual test

Thank you