

An Overview of Korea's Waste Export & import Management

11.29. 2011

Ministry of Environment

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1.

Management of Hazardous Wastes

1. Management of Hazardous Wastes

▶ Basel Convention

- Adoption(3.20. '89) ⇒ Effectivation(5.5. '92)
- 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



1. Management of Hazardous Wastes

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

1. Management of Hazardous Wastes

【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

1. Management of Hazardous Wastes

Notice of Catalog of Hazardous wastes

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

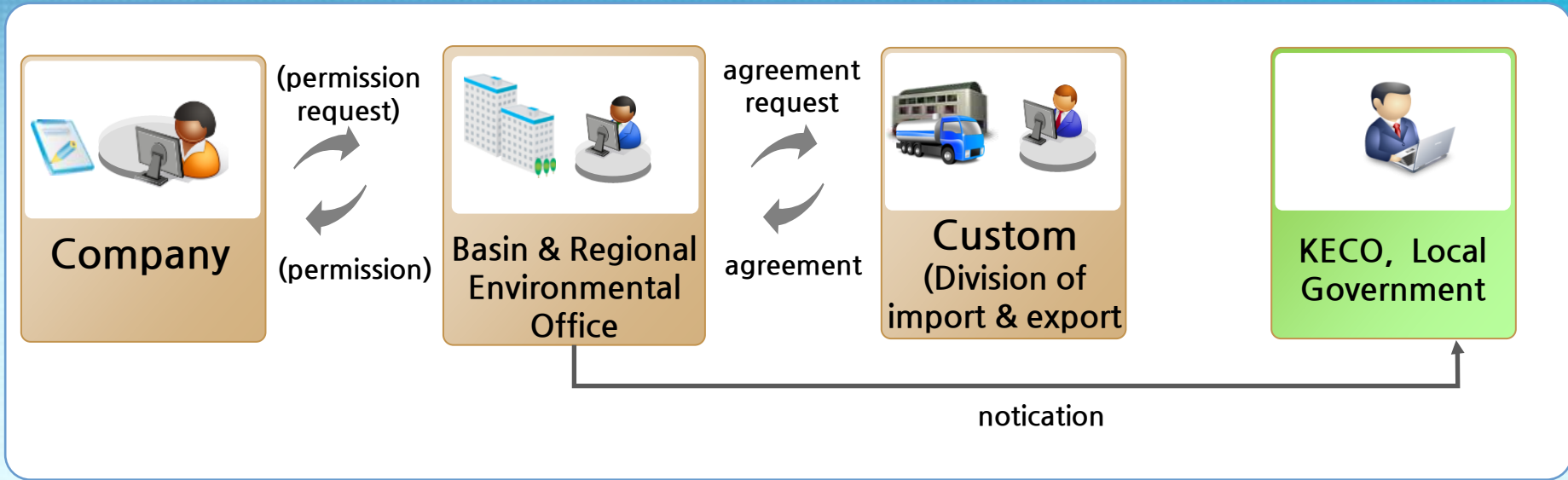
| WASTES | Note |
|--|---------------|
| A. Metal and metal-bearing wastes | 22type |
| <ul style="list-style-type: none">○ Metal wastes and waste consisting of alloys of Antimony, Arsenic, Cadmium, Lead and Mercury○ Wastes having as constituents or contaminants of Arsenic, Mercury and Thallium○ Waste 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 |
| <ul style="list-style-type: none">○ 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 | |

1. Management of Hazardous Wastes

| | |
|---|---------------|
| C. Wastes containing principally organic constituents, which may contain metals and inorganic materials | 30type |
| <ul style="list-style-type: none"> ○ 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 |
| <ul style="list-style-type: none"> ○ 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 |
| <ul style="list-style-type: none"> ○ Wastes collected from households ○ Residues arising from the incineration of household wastes | |

1. Management of Hazardous Wastes

Import & Export Procedure for Hazardous waste



2.

Management of Non Hazardous Wastes

2. Management of **Non** Hazardous Wastes

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**

2. Management of **Non** Hazardous Wastes

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 |

2. Management of **Non** Hazardous Wastes

Import & Export Procedure for General waste



3.

Imported Wastes Overall Treatment Monitoring

3. Imported Wastes Overall Treatment Monitoring System

Allbaro System

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

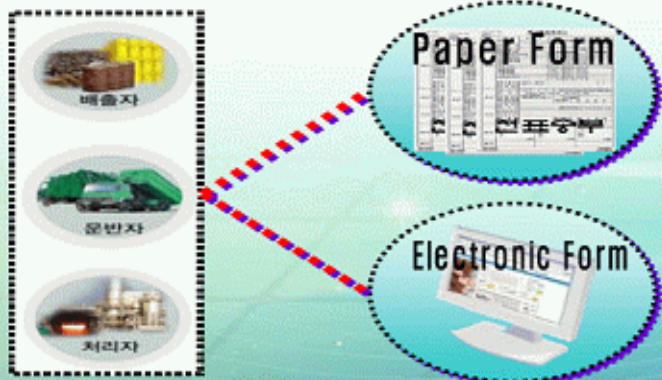
10. Allbaro System

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

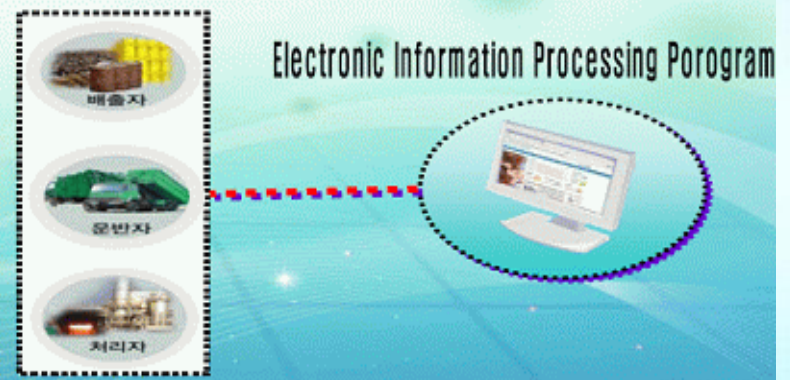
Waste Control Act
Article 18 (3)

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

Before



Now (2008.8-)



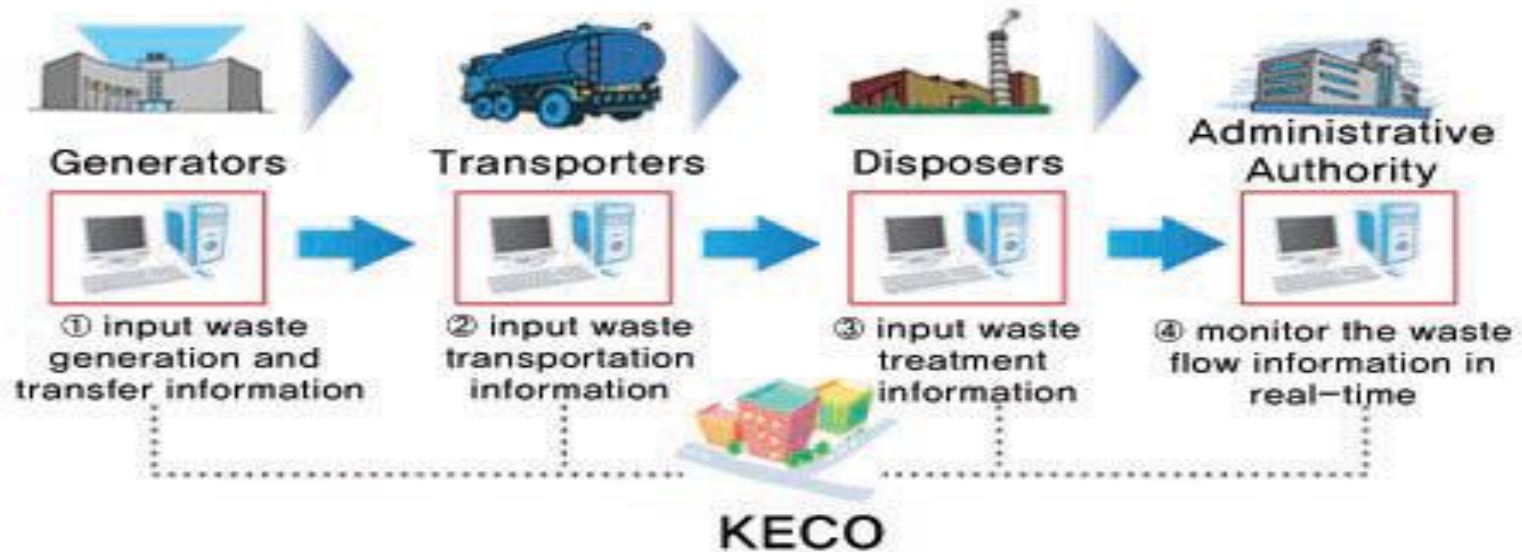
3. Imported Wastes Overall Treatment Monitoring System

Feature

- Possible to check the waste treatment process on a real-time basis
- Possible to prevent illegal disposal and neglected waste
- Improvement in effectiveness by reducing cost(human resources, time)

Target Users

- waste generators
 - hazadous(including medical waste) /general / construction waste
- waste transporters and disposers



3. Imported Wastes Overall Treatment Monitoring System

Allbaro System



“Since 2010”

Exported and Imported waste

“Since 2002”

Hazardous waste

General(non-hazardous) waste

Construction waste

Medical waste

3. Imported Wastes Overall Treatment Monitoring System

Exported and Imported Waste Management System

The purpose of the imported and exported waste management system is to control the export and import of hazardous wastes in accordance with the Basel Convention and OECD Requirements in order to prevent environmental pollution caused by wastes export and import and improve international cooperation.

A system built to handle a **export and import permission, customs confirmation, using e-manifest, and submitting annual outcome report on waste.**



4.

Exporting and Importing Waste Portal System

4. Exported and Imported Waste Portal system

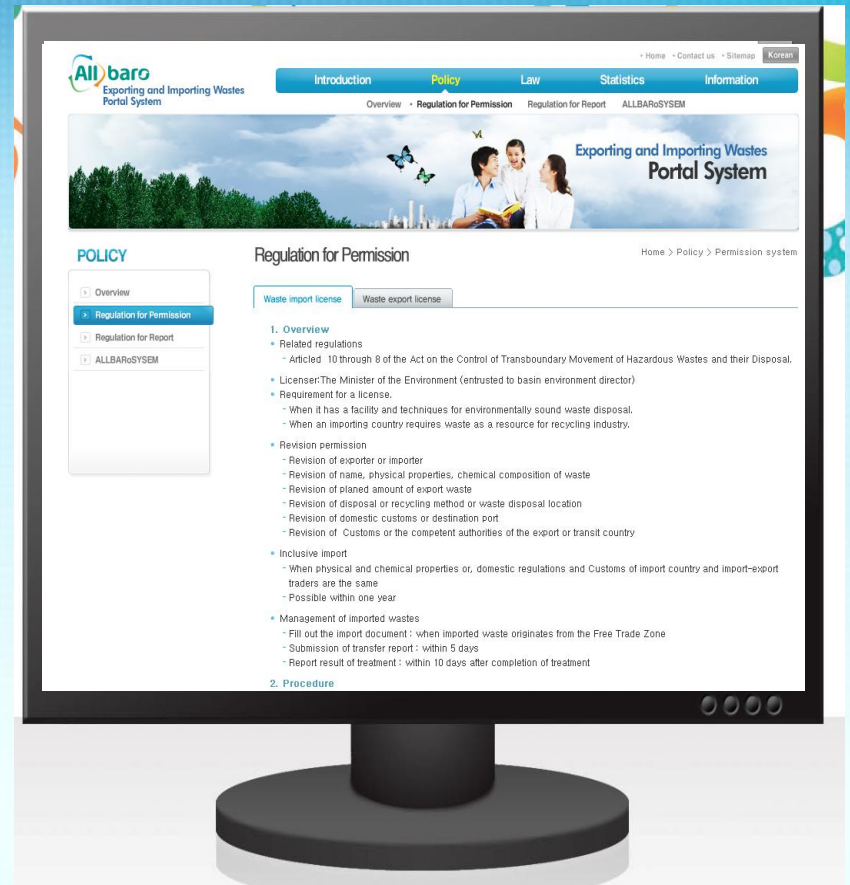
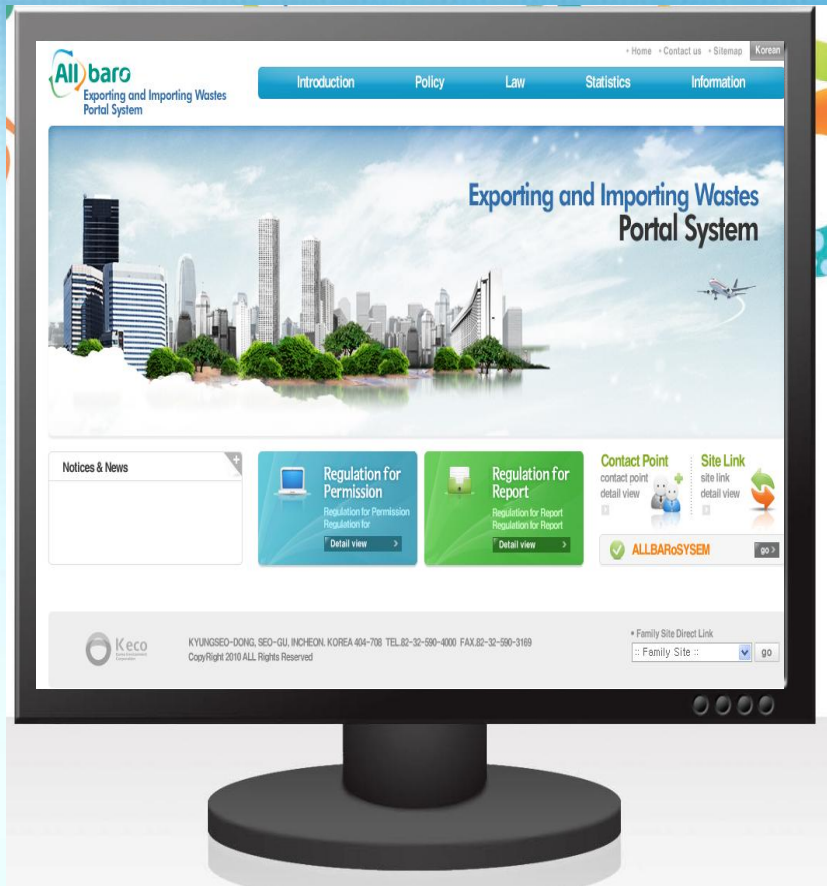
Exported and Imported Waste Portal System

The purpose of this system is to provide **diverse and reliable information about domestic import-export schemes, self-judgment function for permission and report , statistics and legislations of waste, etc.** to foreigners for seamless import-export of waste.

exim.allbaro.or.kr



4. Exported and Imported Waste Portal system



4. Exported and Imported Waste Portal system

Self-judgment function

exim.allbaro.or.kr

Click self-judgment menu

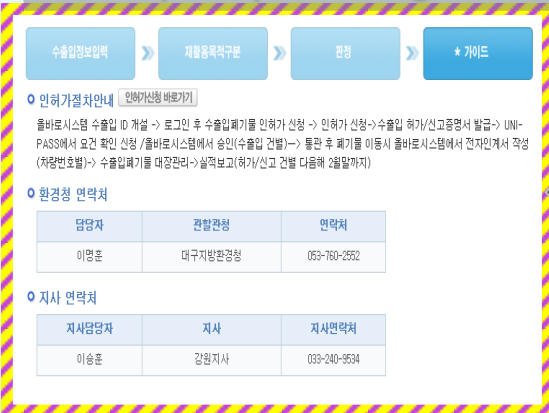
1step : input export and Import waste information



4step : read the waste ex-import process guide

3step : Check the judgment result

2step: input the purpose of waste im-export



5.

Customs Confirmation

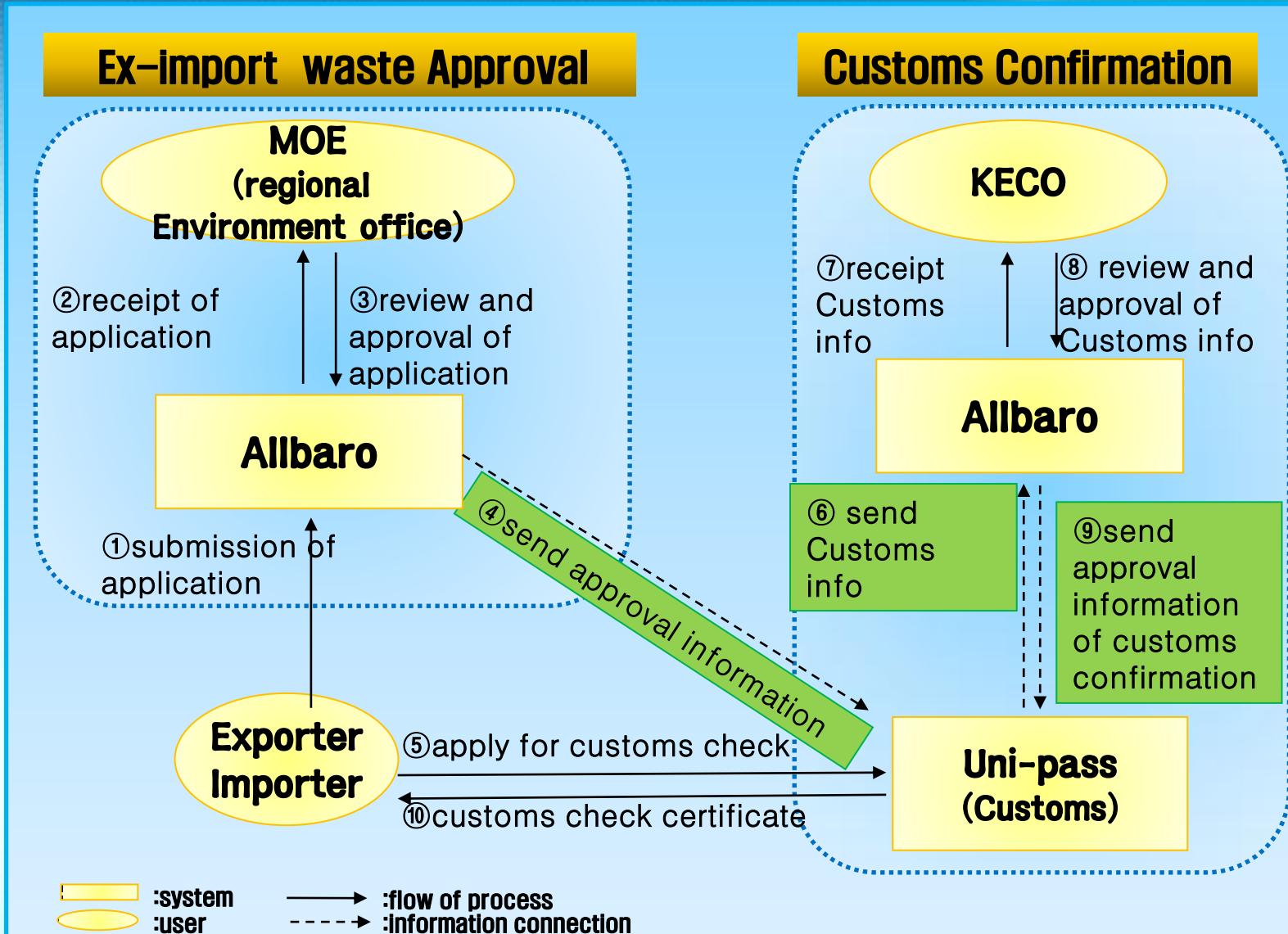
5. Customs Confirmation

Custom Confirmation

- ▶ **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. Customs Confirmation

► Flow of custom confirmation process



5. Customs Confirmation

Check customs information related to waste HS Cord in real-time in export and import management system



기초정보관리

전자인계서 관리

대장관리

실적보고 관리

감량계획/실적 보고 관리

부가서비스 관리

순환골재 관리

건설처리자 처리용역관리

비교분석 정보 조회

홈페이지컨텐츠 관리

용역이행능력평가 관리

RFID

수출입폐기물관리

- 인허가관리
 - 인허가 신청
 - 인허가 처리결과
 - UNIPASS비밀번호관리
 - 업체영문정보관리
- 처리완료통보서관리
- 수입폐기물처리완료통보

수출입이동서류관리

- 수출이동서류
- 수입이동서류

요건확인신청관리

- 수출통관결과조회
- 수입통관결과조회

| 수출신고번호 | 수리일자 | 통관결과 | 요건승인번호 | 제조사 상호 | 제조사 주소 | 목적국 | 조 |
|--------------|------------|------|--------|--------|-------------------|------|-----|
| 050101100117 | 2011-06-01 | 신고수리 | | 프... | 울산 울주군 응촌면 검단리 | 중국 | 부산항 |
| 014101100604 | 2011-06-01 | 신고수리 | | 에... | 경기도 안산시 단원구 북대... | 일본 | 인천항 |
| 131101100246 | 2011-06-01 | 신고수리 | | (주 | 경기 의왕시 미동 328 | 중화민국 | 인천항 |
| 020151101682 | 2011-06-01 | 신고수리 | | (주 | 인천남동구교간동 390-10 가 | 중국 | 인천항 |
| 130101100806 | 2011-06-01 | 신고수리 | | (주 | 서울 구로구 오류동 123 | 일본 | 부산항 |
| 030091100456 | 2011-06-01 | 신고수리 | | 우 | 부산 강서구 강동동 29-46 | 네덜란드 | 부산항 |
| 020151101682 | 2011-06-01 | 신고수리 | | 와 | 경기도 성남시 수정구 신흥동 | 중국 | 인천항 |
| 030151101894 | 2011-06-01 | 신고수리 | | 대 | 부산 사하구 신평동 486 | 베트남 | 부산항 |
| 030151101892 | 2011-06-01 | 신고수리 | | (주 | 부산 사하구 신평동 486 | 중국 | 인천항 |
| 030091100456 | 2011-06-01 | 신고수리 | | 미 | 부산 사상구 과법동 517-19 | 미국 | 부산항 |
| 011101100116 | 2011-06-01 | 신고수리 | | 서 | 경기 남양주시 별내면 광전 | 온두라스 | 부산항 |
| 040151104245 | 2011-06-01 | 신고수리 | | (주 | 서울 강서구 공항동 1370 | 태국 | 인천공 |
| 030091100457 | 2011-06-01 | 신고수리 | | 제 | 서울 송파구 문정동 516 가 | 과테말라 | 부산항 |
| 020151101687 | 2011-06-01 | 신고수리 | | 뉴 | 서울시 강남구 개포동 주공 | 카메룬 | 인천공 |
| 040151104245 | 2011-06-01 | 신고수리 | | 뉴 | 서울 강서구 공항동 1370 | 태국 | 인천공 |
| 020151101681 | 2011-06-01 | 신고수리 | | (주 | 경기 남양주시 화도읍 창현 | 일본 | 인천항 |
| 130101100807 | 2011-06-01 | 신고수리 | | (주 | 서울 강남구 세곡동 32 | 인도 | 인천항 |
| 030151101884 | 2011-06-01 | 신고수리 | | 대 | 부산광역시 기장군 정관면 | 홍콩 | 부산항 |

6.

Hazardous Wastes Identification Guide Line

6. Hazardous Wastes Identification Guide Line

Preparing legal directives for distinction of Hazardous imported-waste, list of import-prohibited items, distinction between secondary & E-Waste

① Distinction standard for permission-report

- ▶ **(1st) Basel and List of OECD**
 - Basel A, OECD yellow list : **Permission**
 - Basel B, OECD green list : **Report**

- ▶ **(2nd) European Waste Catalog**
 - Absolute Entry : **Permission**
 - Mirror Entry : **Permission** in case of it exceeds designated waste's criteria
 - General Entry: **Report**



6. Hazardous Wastes Identification Guide Line

② 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 disposal
- 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. Hazardous Wastes Identification Guide Line

③ Catalog of Banned Waste

1 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”

2 Liquid waste contains hazardous material

- Illegal imports of liquid waste such as waste oil is not able to be treated

3 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

Thank you

**Ministry of Environment
Republic of Korea**

