

# Close to Nature, Close to People 자연 가까이 사람 가까이 & ③ ⑧

## Market Stimulation Strategies Through Recycled Materials Certification System

## Korea Environment Corporation

Recycled Materials Management Center Task Førce 2024.9.27.





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# 1. Current Status of Recycled Raw Materials

## **01** Current Status of Recycled Raw Materials



Global Trends in Recycled Raw Materials



## **01** Current Status of Recycled Raw Materials

Related National Agenda and Government Policies

#### National Agenda 89 (Completing the Circular Economy through Recycling)

Mandate the use of recycled plastic raw materials and increase the public procurement of related products, develop a certification system for recycled material usage based on international standards.

Joint Ministries' Strategy for Industrial Growth through Promoting the Circular Economy (June 21, 2023)

Increase the use of recycled raw materials and establish a certification system.

Develop a Korean certification system for tracking recycled material usage to ease the burden of overseas certification for domestic companies.

#### Joint Ministries' Full-Cycle Plastic Reduction Strategy (October 20, 2022)

### Promote the use of recycled products.

Develop an internationally recognized certification system for tracking recycled material usage that can be adopted by the EU and other countries, label products containing a certain percentage of recycled materials and establish a preferential purchasing system for these products by local governments.





**01** System Definition

A system that enables manufacturers of products or containers made with a certain percentage or more of recycled raw materials from domestically sourced waste plastics to display the usage percentage on the product or packaging.

The consumption of recycled-material products can be encouraged.

Companies can promote their eco-friendly practices.



### **02** Legal Basis

- (Effective from March 29, 2024) Article 33-2 (Indication of Percentage of Use of Recycled Raw Materials) of the Act on the Promotion of Saving and Recycling of Resources
- (Effective from July 10, 2024) Article 23-4 (Indication of Recycled Raw Material Percentage, etc.) of the Enforcement Rule of the Act on the Promotion of Saving and Recycling of Resources
- Ceffective from April 11, 2024) Ministry of Environment Notice No. 2024-65 (Standards and Methods for Indicating Recycled Raw Material Usage Percentage)
- (Effective from August 29, 2024) Ministry of Environment Established Rule No. 751 (Guidelines for Conducting Duties Related to the Indication of Recycled Raw Material Usage Percentage)



### **Definition of Recycled Raw Materials**

- Resource Recycling Act, Article 2 (Definitions) 7-2. The term "recycled raw material" means any raw material wholly or partially made from recyclable resources reused after reconditioning, as prescribed by the Ordinance of the Ministry of Environment.
- Enforcement Rule of the Resource Recycling Act, Article 1-2 (Scope of Recycled Raw Materials) The term "as prescribed by Ordinance of the Ministry of Environment" in Article 2, Subparagraph 7-2 of the Act on the Promotion of Saving and Recycling of Resources (hereinafter referred to as the "Act") refers to the following:
  - 1. Glass powder processed and manufactured from waste glass bottles
  - 2. Metal raw materials manufactured by compressing and crushing waste metal cans
  - 3. Recycled raw materials processed and manufactured from waste polyethylene terephthalate (PET), waste expanded synthetic resin, and synthetic resin products and packaging materials
  - 4. Rubber powder processed and manufactured from waste tires
  - 5. Glass powder processed and manufactured from glasses such as fluorescent lamp glass
  - 6. Recycled raw materials manufactured by compressing and crushing LED chips, chip mounting boards, and other parts separated from LED lighting
  - 7. Other raw materials recycled according to standards and methods <u>determined and announced by the</u> <u>Minister of Environment</u>.

03	Progression			
~ 2023	(Indicat (Nov. 2023) Prior a	lment to Article 33-2 of the Resource Recycling Act tion of recycled raw material usage percentage) nnouncement of Article 23-3 of the Enforcement Rule of the same Act dures for verifying and indicating recycled raw material usage)		
2024 ~	betwee	g of MOU to establish a Korean recycled raw material usage management system on the K-eco and ISCC ration for mutual recognition of recycled raw material certification)		
	<ul> <li>(Mar. 2024) Implementation of the recycled content percentage labeling system</li> </ul>			
	betwee	g of MOU to establish a high-quality recycling system for recycled raw materials on the K-eco, KORA, and Control Union Korea ration to promote recycled raw material certification)		
	betwee	of MOU and promotion of product monitoring to recycle colorless PET bottles n 13 organizations, including the Ministry of Environment, and manufacturers.		

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### **04** Application Process

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### **Applicant Company**

Submits application for labeling

#### (at least 30 days before the intended start date)

Submits document

Issues confirmation certificate

### **Ministry of Environment**

- Reviews documents and conducts on-site verification
- (may request correction within a period of 10 days)
- Issues confirmation certificate (within 30 days from the application date)

 Note: Processing times exclude periods stipulated in Article 11 of the Administrative Procedures Act.

### **Review Criteria**

- Usage percentages differentiated by products and containers.
- Target percentage verified based on calculation data.
- Confirmation that raw materials were collected separately and recycled from domestically sourced plastic waste after use by end consumers.
- Appropriateness of the method used to calculate the recycled content percentage.



### Application Status

05



Photo Source: Lotte Chilsung Beverage Icis, Coca-Cola, Aromatica.

8 companies, including Company L and Company C, with 124 products.

The total amount of recycled raw materials applied for is approximately 470 tons





Plan for Expanding the Use of Recycled Materials in Major Countries

01

Proposal to expand mandatory recycled content rates by product category, considering international standards

Category			EU	USA	Proposal to Expand Mandatory in Korea
	PET bottles		30%(2030-) → 65%(2040-)		30%(2030-) → 65%(2040-)
Packaging	Other plastics (containers/trays)	PET	30%(2030-) → 50%(2040-) 35%(2030-) → 65%(2040-)	15%(2023-) → 25%(2026-) → 50%(2031-)	30%(2030-) → 50%(2040-)
and Containers		Non-PET	10%(2030-) → 50%(2040-) 35%(2030-) → 65%(2040-)		
	Other plastics (films/sheets)		35%(2030-) → 65%(2040-)	-	35%(2030-) → 65%(2040-)



Expansion of Recycled Content Scope

02

### Imposing Usage Obligations

Introduce mandatory recycled content requirements for end-product manufacturers to encourage the use of recycled materials (from 2025)



### Increasing Mandatory Usage Rates

Gradually expand the scope of obligated entities and increase the mandatory usage rates to align with international standards





Expansion of Recycled Content Scope

STEP

02

Management of obligated entities: Set annual mandatory usage rates and enforce obligations

STEP

02

STEP Set a 03 imple

Set annual mandatory usage rates by the expanded product categories and implement the system

Finalize the expanded list of target products and present a roadmap for mandatory usage rates Select target products based on international trends - and domestic conditions and assign obligations by material types

Assess plastic demand, supply, and waste generation by product category

Annually expand target products and develop criteria for calculating mandatory usage rates



Mandatory Usage Target Setting and Management System



Ministry of Environment

03

Oversees overall policy, including assigning mandatory recycled content rates for each product category based on production output, considering recycling performance and conditions.

Manufacturer

Verifies and validates the recycled content usage, and implements follow-up measures, including adjustments to mandatory amounts based on recycled content performance.

K-eco

Ensures compliance with mandatory recycled content rates and submits reports on implementation performance.



Monitoring Recycled Content in Colorless PET Bottles

Building a foundation for market activation by assessing the recycled material supply stability and monitoring the quality of recycled-content products.



#### ① Monitoring of Recycled Material Usage

(Usage) Track current usage, compare with the previous month, and monitor manufacturers.

#### **②** Quality Monitoring

04

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(Contents and packaging) Monitor the quality of contents and packaging(containers) (R-PET, V-PET) (Preforms) Monitor the quality of preforms(made by recycled plastics)

## Analyzing Recycled Material Usage Statistics and Carbon Reduction

(Statistics) Review production and consumption statistics (including international data such as EU and OECD)

(Carbon reduction) Analyze the carbon reduction effects of using recycled materials



Global Recycled Standard

Major International Recycled Content Certifications



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**ISCC Plus** (ISCC: International Sustainability and Carbon Certification) A certification system that proves sustainability for the bioeconomy and circular economy.

> **GRS** (Global Recycled Standard) A certification system that verifies recycled content in textile raw materials and clothing production, applicable to products containing at least 20% recycled materials.



RCS (Recycled Claim Standard)

A certification system for products containing at least 5% recycled content, verifying the amount of recycled material in final products.



06 Enhancement of Certification System

Changing the certification structure for the recycled content percentage labeling system (from 2<sup>nd</sup> party to 3<sup>rd</sup> party certification)





# 4. Conclusion



## 04 Conclusion



## **01** Future Implementation Plans

#### 1. Product categories expansion, target setting, and development of implementation plans

Calculate mandatory rates and present annual targets based on recycling market analysis for expanded target products, gather stakeholder opinions

for expanding mandatory usage targets

### 2. Compatibility and mutual recognition

Establish cooperation framework between the K-eco and major international certification systems (by 2025)



### 3. Establish incentives

Promote preferential purchasing of products using recycled materials by public institutions,

encourage expanded use on the consumer side by incorporating target products into the carbon point system (by 2025)



purchases

include multiple products such as ecofriendly certified agricultural products



# 감사합니다 Thank you

