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# About This Report

## Report Overview

K-eco\* is a public institution that promotes the transition to a carbon-neutral society by preempting environmental pollution, safeguarding the environment, facilitating resource circulation, and reducing greenhouse gas (GHG) emissions to cope with the climate crisis. The 2025 Sustainability Report has been published to transparently disclose K-eco's ESG initiatives and outcomes and to strengthen communication with stakeholders. Based on ESG disclosure standards, the report systematically compiles both financial and non-financial performance, with key issues identified via assessment dealt in detail through a highlight section. Marking its 10th publication since its inaugural edition in 2011, this report reaffirms K-eco's firm commitment to and concrete actions toward sustainability in the environmental, social, and governance dimensions. K-eco will continue to actively listen to the valuable opinions of its stakeholders and reflect them in its management practices, thereby advancing its pursuit of sustainable management.

\* K-eco: English abbreviation for Korea Environment Corporation

## Reporting Period & Scope

This report covers K-eco's activities and achievements from January 1, 2024, to June 30, 2025. Quantitative performance data from the past three years (2022–2024) are also included to facilitate trend analysis. The reporting scope encompasses all business operations nationwide, including the head office, eight regional environmental headquarters, and business units.

## Inquiries

This Sustainability Report is available for viewing and download in PDF format on the K-eco website. Additional information regarding K-eco's ESG management can also be found online. For further inquiries or details, please contact us using the information below. K-eco welcomes and values the diverse feedback and perspectives of its stakeholders.

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## Reporting Criteria

This report was compiled in compliance with the following key domestic and international sustainability standards and frameworks to ensure transparency and quality at a global level:

### Non-financial Information

- GRI (Global Reporting Initiative) standards 2021
- UN Global Compact principles
- IFRS (International Financial Reporting Standards) S1, S2
- TCFD (Task Force on Climate-related Financial Disclosures) standards
- UN SDGs (United Nations Sustainable Development Goals) indicators

### Financial Information

- K-IFRS (Korean Adopted International Financial Reporting Standards)

## Verification Assurance

To enhance the credibility, quality, and accuracy of the contents of this report, K-eco has attained a verification assurance based on the Four Principles of AA1000AP from the Institute for Public K-ESG, an accredited certification agency. The details of the verification process can be found in pages 145 and 146.

Publication date: July 2025

## Interactive PDF

This report takes the form of an interactive PDF,  
featuring internal navigation to relevant pages within  
the report as well as direct links to related web pages.

**Website**  
[www.keco.or.kr](http://www.keco.or.kr)



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2011



### Happy Realization

Publication of K-eco's  
First sustainability report / GRI G3.1 /  
ISO 26000 / AA1000AS(2008)

2012



### Special Thinking Box

GRI G3.1 / ISO 26000  
AA1000AS(2008)

2013



### Journey Toward Sustainable Environment

GRI G4 / ISO 26000

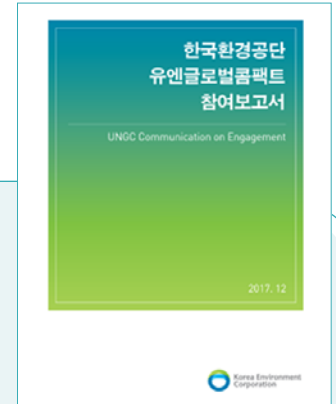
2014



### Closer to People & Nature

GRI G4 / ISO 26000  
AA1000AS(2008)

2016



### UNGC Communication on Engagement

K-eco's first report of its performance  
of the Ten Principles  
of the UN Global Compact

2018



### Laying the Foundation for Sustainable Management

Establishment of the SDGs  
strategy / UN SDGs  
GRI Standards(ISO 26000)

2021



### Achieving Carbon- Neutrality by 2050

GRI Standards UN SDGs, TCFD

2022



### Leading the Way to Carbon Neutrality

GRI Standards / ISO 26000, TCFD,  
UNGC, UN SDGs AA1000AP(2018)

2023-2024



### K-eco for Protecting Sustainable Future

GRI Standards 2021 UN SDGs,  
TCFD, K-IFRS, AA1000AP(2018)

2025



### K-eco, a Global Leader for Sustainable Environment

GRI Standards 2021  
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“K-eco promises to guide you through the journey of trust and innovation toward a sustainable future.”

**Dear esteemed citizens and stakeholders,**

Today, the climate crisis and environmental challenges are among the most pressing issues facing humanity. The World Economic Forum has also identified extreme weather, biodiversity loss, and ecosystem change as major global risks. These threats are fundamentally reshaping our social and economic paradigms, making carbon neutrality and the circular economy not a choice, but an imperative.

**K-eco is committed to advancing environmental welfare by leading the transition to carbon neutrality and a circular economy—key global priorities of our time.**

Over the past four decades, the Korea Environment Corporation (K-eco) has cultivated expertise in core environmental sectors such as air and water quality management and resource circulation. With public safety as our highest priority, we are at the forefront of efforts to address the climate crisis. We operate major national greenhouse gas reduction systems such as the Climate Response Fund, the GHG Reduction-Conscious Budgeting System, and the Emissions Trading System. In addition, we actively support carbon neutrality initiatives across all sectors of society, including green technology transitions for small and medium-sized enterprises and carbon neutrality master plans for local governments.

Amid the growing momentum of circular economy built on the principles of “reduce, reuse, and recycle,” we are also strengthening efforts to recover value from waste. At the same time, we are expanding air quality monitoring networks, reinforcing fine dust surveillance systems, and building basin-based water quality management systems to ensure a clean and safe environment for all.

**We will open a sustainable future through enhanced trust and transparent governance.**

Through digital transformation, K-eco is leading data-driven public administration and expanding access to environmental information. We have also enhanced management transparency by introducing an employee-elected director system and fostering citizen participation through the Civic Innovation Group and an open suggestion platform. In addition, we are investing in the future by supporting youth entrepreneurship in the environmental sector and cultivating global environmental talent.

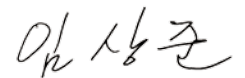
**We aim to reaffirm our role as a leading global environmental institution.**

K-eco has obtained major international certifications across all ESG domains and established a performance-based ESG management framework grounded in the PDCA (plan, do, check, act) cycle. As a result, we received several government commendations and global awards last year in areas such as sustainable management, safety, knowledge management, and innovation procurement. Building on these achievements, we will drive the global expansion of Korea’s environmental industry and strengthen ESG management support for developing countries.

K-eco has grown together with the public, dedicated to solving environmental challenges and advancing sustainable development. With an unyielding spirit of innovation and resolve, we will continue striving to become a world-class environmental institution. I kindly ask for your continued interest and support. Thank you.

July 2025

**Lim Sang-jun** Chairman of K-eco



# K-eco Overview

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**K-eco is committed to improving quality of life and leading the era of carbon neutrality as a global environmental institution dedicated to environmental conservation and a sustainable future.**

K-eco is proactively preventing environmental pollution through an integrated management system for air, water, and soil, supported by advanced monitoring technologies. By operating the Circular Resources Information Center and enhancing the value of waste resources, the corporation is accelerating the transition toward a resource-circulating society. Its greenhouse gas reduction projects and management of the Emissions Trading System (ETS) contribute to achieving the national goal of carbon neutrality. At the same time, it helps restore healthy aquatic ecosystems through comprehensive water management and the reduction of non-point source pollution. K-eco is also addressing global environmental challenges by advancing environmental technologies and expanding international cooperation. Through innovative environmental services and effective policy implementation, it is working to build a sustainable future where people and nature coexist in harmony.



# About K-eco

## Overview

K-eco is a public institution under the Ministry of Environment, established in January 2010 through the integration of the Korea Environment & Resources Corporation and the Environmental Management Corporation. In accordance with the Korea Environment Corporation Act, K-eco is dedicated to preventing environmental pollution, improving environmental quality, promoting resource circulation, and advancing greenhouse gas reduction initiatives in response to the climate crisis, thereby effectively implementing a transition to a carbon-neutral society and contributing to national development

## General Status

(As of Mar 2025)

<b>Institution name</b>	Korea Environment Corporation (K-eco)	<b>Institution type</b>	Quasi-governmental agency/ public corporation (outsourcing type)
<b>Date of establishment</b>	Jan 1, 2010	<b>Ground for establishment</b>	Article 1 of the Korea Environment Corporation Act (Law No. 20172)
<b>Competent authority</b>	Ministry of Environment	<b>Head office location</b>	Comprehensive Environmental Research Complex, 42, Hwangyeong-ro, Seo-gu, Incheon
<b>Head of the institution</b>	Im Sang-jun	<b>Employees</b>	3,372 members (executive staff + regular employees + fixed-term employees)

## Financial Status

(As of Mar 2025)

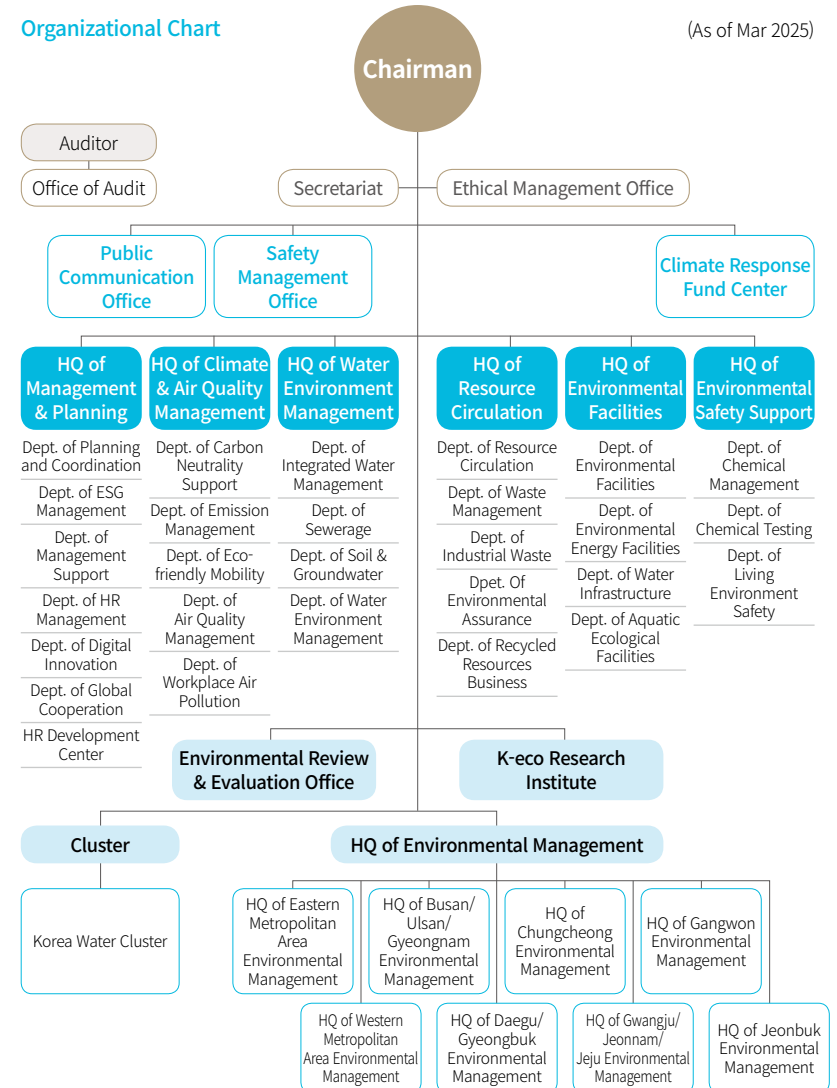
<b>Assets (KRW)</b>	<b>Turnover (KRW)</b>
193,164 million	1,833,216 million
<b>Debt (KRW)</b>	<b>Net profit (KRW)</b>
97,742 million	94,696 million

## Organizational Status

K-eco's organizational structure consists of a head office, eight regional environmental headquarters, and various business units.

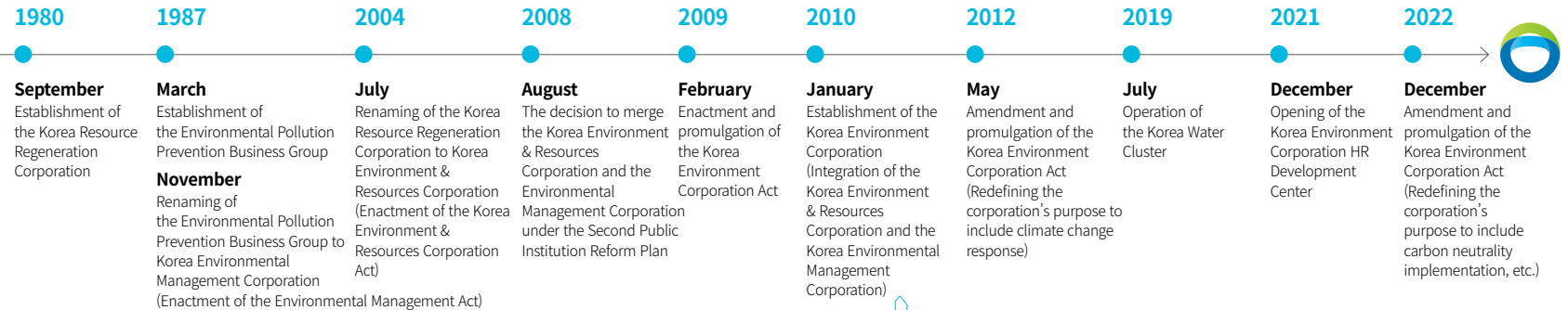
## Organizational Chart

(As of Mar 2025)

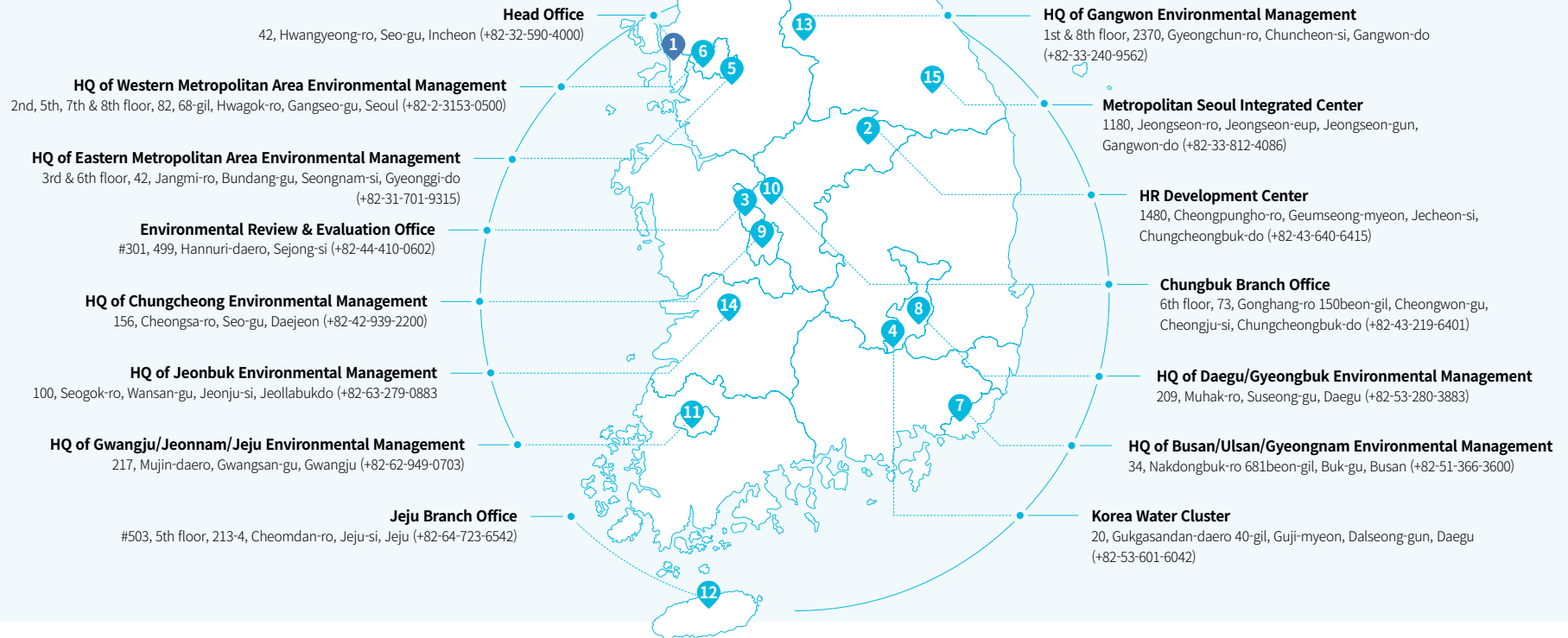


# About K-eco

## Corporate History



## K-eco Head Office & Regional Headquarters



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## Management Strategy Framework

Guided by the mission of achieving “a sustainable future, an environment shared by all” and the vision of becoming a “global environmental institution leading the carbon-neutral era,” K-eco has established a management framework for sustainable development based on the core values of trust, expertise, safety, and innovation. The corporation pursues five strategic objectives: achieving carbon neutrality and clean air, creating a healthy water environment, facilitating the transition to a circular economy and society, creating a safe and sustainable living environment, and advancing management innovation and ESG practices. Through these objectives, K-eco contributes to addressing the climate crisis, strengthening air quality monitoring, enhancing water management and resource circulation systems, ensuring the safety of chemicals and facilities, and improving the quality of life for the public. K-eco’s strategic framework is developed in collaboration with its employees, and the corporation is committed to working with the public to build a sustainable future.

### Mid-to-Long-Term Goals & Strategies

Mission	A sustainable future, an environment shared by all				
Vision	A global environmental institution leading the carbon-neutral era				
	Core Values		Management Policies		
	Trust / Expertise / Safety / Innovation		Future / Communication / Safety / Innovation		
Strategic objectives	Realizing carbon neutrality & clean air	Creating a healthy water environment	Transitioning to a circular economy & society	Creating a safe & sustainable living environment	Management innovation & ESG management practice
Management goals	Limiting GHG allowance via the ETS (below 567 million tons/year)	Reducing watershed pollutant load (85% achievement rate of target river BOD levels)	Achieving a 84.5% circular utilization rate	Zero defect accidents in chemical facilities	Achieving top score in public trust index
Strategic tasks	Climate crisis response / carbon neutrality initiatives / Strengthening advanced atmospheric environment monitoring	Smart water management for a sound water industry / Enhancing the sustainability of the water environment	Strengthening the life-cycle resource circulation management system / Strengthening waste management	Enhancing safety in chemical and facility management / Enhancing quality of life by improving the living environment	Strengthening foundations for sustainable growth / expanding ESG practices / contributing to a dynamic economy

## Derivation of Strategic Management Objectives

Strategic Goal I	Achieving carbon neutrality & clean air
	Reflecting the transition to a carbon-neutral society in line with the corporation’s founding purpose
	Strengthening support for government policies to achieve carbon neutrality, including GHG reduction projects for climate crisis response, and enhancing clean air management to protect public health
Strategic Goal II	Creating a healthy water environment
	Fostering a safe and healthy water environment in the era of climate crisis
	Building a climate-resilient and safe water environment and healthy aquatic ecosystem through basin and integrated water management, and strengthening support to foster domestic water companies for enhanced global competitiveness
Strategic Goal III	Transition to a circular economy
	Advancing the shift to a circular economy and establishing a safety net against illegal and hazardous waste
	Promoting waste reduction and circular use throughout the production–distribution–consumption cycle, establishing safe and appropriate waste management systems, and operating an eco-friendly battery cluster to foster a circular ecosystem
Strategic Goal IV	Fostering a safe & sustainable living environment
	Establishing a public safety net and improving quality of life
	Creating safe and fulfilling workplaces for the public and workers, strengthening early monitoring and management systems for environmental hazards, and providing environmental services with tangible benefits to the public
Strategic Goal V	Managing innovation & practicing ESG
	Enhancing sustainability through efficient management and realizing public value through ESG management
	Improving productivity by focusing on core capabilities and eliminating inefficiencies, and promoting ESG management and support for a dynamic economy



# Core Operations

K-eco leads efforts to improve the environment and promote resource circulation, thereby safeguarding a clean and safe living environment for the public. The corporation undertakes the development of environmental infrastructures and research and development, centering on climate and air (greenhouse gas reduction, air quality improvement), water environment (management of water, soil, and groundwater pollution, support for the water industry), and resource circulation (waste reduction, promotion of recycling). It also contributes to enhancing environmental welfare by implementing environmental impact assessments, enforcing integrated environmental management systems, providing everyday environmental services, managing chemical substances, and inspecting environmental pollutants. Under the slogan “Closer to People, Closer to Nature”, K-eco actively supports diverse environmental policies aimed at realizing carbon neutrality and transitioning to a circular economy and society.

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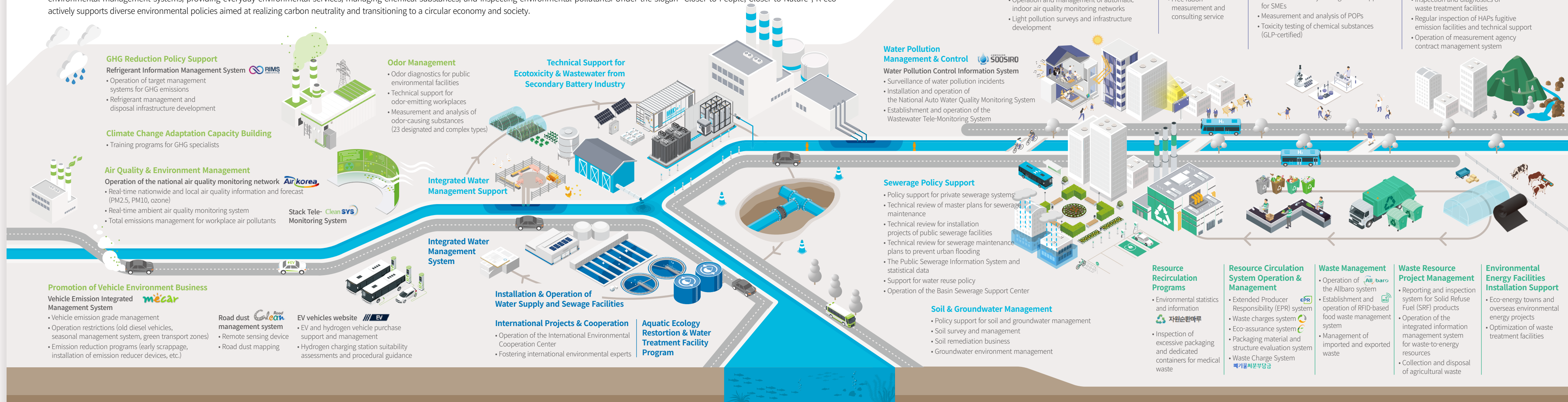
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### Life-Based Environmental Services

Operation of Environment Love Exhibition & Education Hall

Operation of Among Neighbors Center for Floor Noise

- Operation and management of noise and vibration monitoring networks
- Operation and management of automatic indoor air quality monitoring networks
- Light pollution surveys and infrastructure development

### Environmental Public Health Services

- Asbestos safety management
- Asbestos survey and analysis
- Free radon measurement and consulting service

### Hazardous Materials

- Operation of the chemical hazard information notification and confirmation systems
- Support for joint registration and exemption verification for chemical substances
- Inspection, safety diagnostics, and reduction consulting for hazardous chemical facilities and chemical safety management support for SMEs
- Measurement and analysis of POPs
- Toxicity testing of chemical substances (GLP-certified)

### Prevention & Reduction of Pollutant Discharge

- Inspection of vapor collection facilities
- Inspection for low-NOx burner installation support program
- Inspection of environmental monitoring devices
- Inspection and diagnostics of waste treatment facilities
- Regular inspection of HAPs fugitive emission facilities and technical support
- Operation of measurement agency contract management system



# ESG Management

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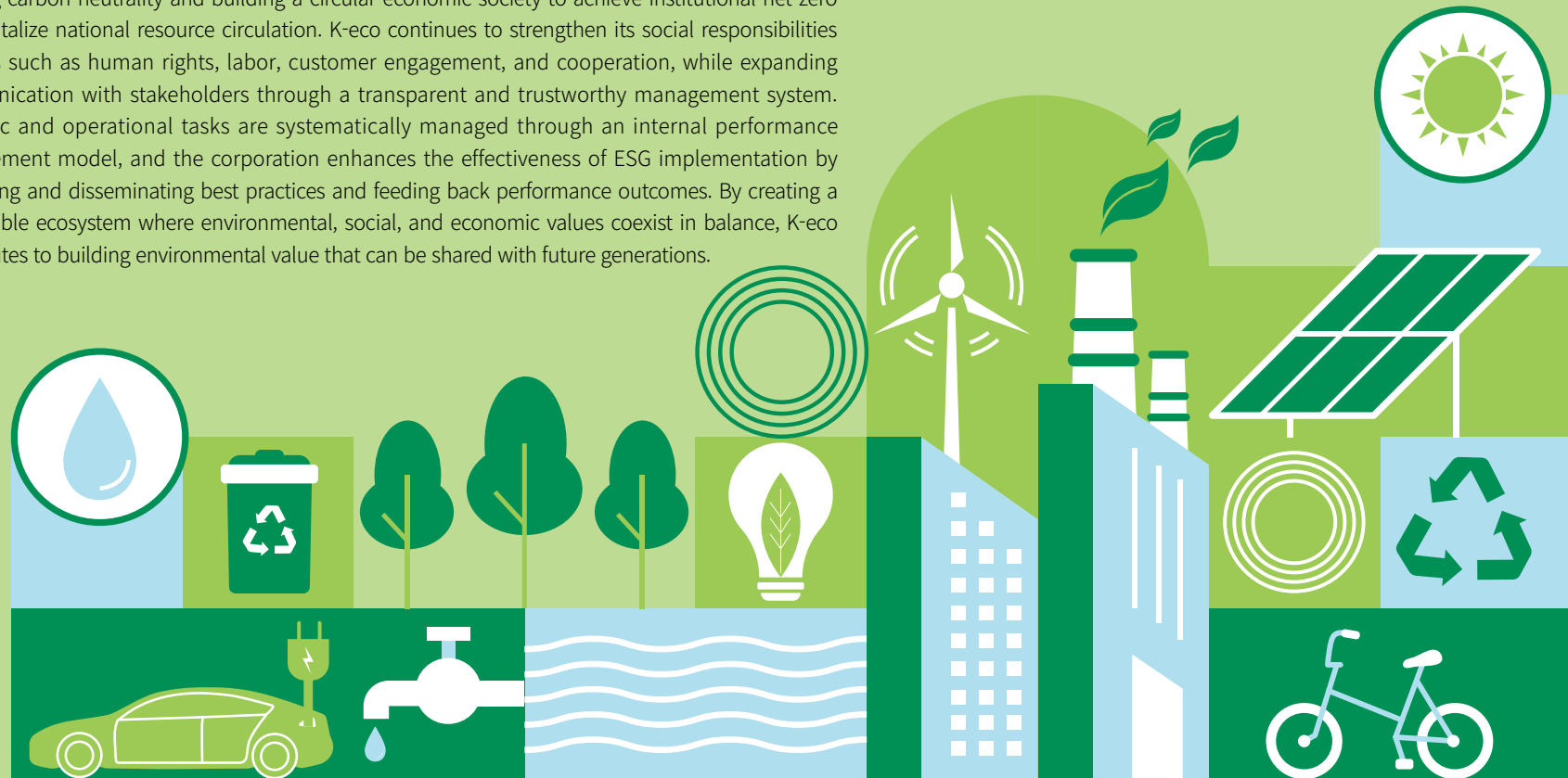
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**K-eco is committed to creating a sustainable future founded on the core values of ESG, promoting the harmonious development of the environment and society.**

K-eco has established a mid-to-long-term ESG management strategy for 2024–2028, taking the lead in realizing carbon neutrality and building a circular economic society to achieve institutional net zero and revitalize national resource circulation. K-eco continues to strengthen its social responsibilities in areas such as human rights, labor, customer engagement, and cooperation, while expanding communication with stakeholders through a transparent and trustworthy management system. Strategic and operational tasks are systematically managed through an internal performance management model, and the corporation enhances the effectiveness of ESG implementation by identifying and disseminating best practices and feeding back performance outcomes. By creating a sustainable ecosystem where environmental, social, and economic values coexist in balance, K-eco contributes to building environmental value that can be shared with future generations.



# K-eco, Guiding the Way to a Sustainable Future

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## Mid-to-Long-Term ESG Strategy

K-eco has formulated a mid-to-long-term ESG strategy spanning 2024 to 2028 to establish a foundation for sustainable growth. In the environmental (E) sector, the corporation is advancing carbon neutrality and promoting a circular economy to achieve institutional net zero by 2040 and attain 84% of the national resource circulation target. In the social (S) sector, K-eco aims to earn the highest shared growth and safety management ratings by fulfilling its social responsibilities in human rights, labor practices, customer service, and collaborative partnerships. In the governance (G) sector, the corporation strives to build a transparent and accountable management system by securing the top rating in the comprehensive integrity assessment and achieving excellence in the comprehensive information disclosure evaluation. Grounded in 12 strategic tasks, K-eco is dedicated to leading carbon neutrality, delivering specialized environmental services, and strengthening trustworthy and transparent governance to generate lasting environmental value for the future.

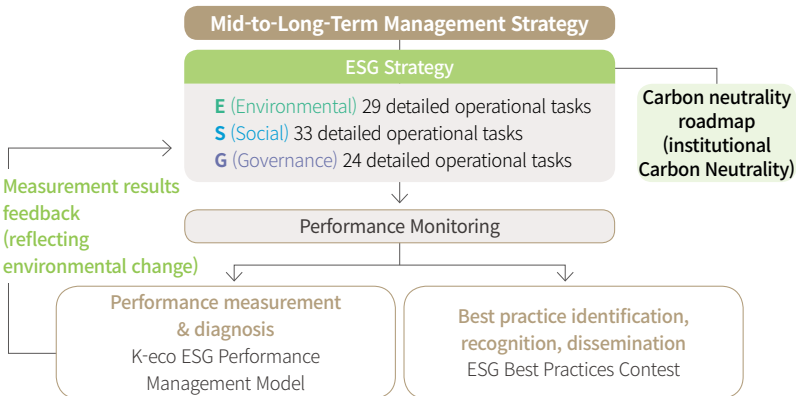
## Mid-to-Long-Term ESG Strategy (2024-2028)

	E Environmental	S Social	G Governance
Key Goals	Achieve <b>net-zero</b> emissions at the institutional level & national resource circulation target of <b>84%</b> by 2040	Achieve <b>top ratings</b> in shared growth evaluation and safety management	Achieve <b>top grades</b> in the comprehensive integrity assessment and information disclosure assessment
Strategic Objectives	Lead the transition to carbon neutrality	Fulfill social responsibilities through professional environmental services	Strengthen trust-based, transparent governance
10 Key Issues	Carbon neutrality, circular economy, environmental management	Human rights, labor (jobs), customer satisfaction, mutual cooperation	Board of directors, anti-corruption and ethical management, communication
12 Key Strategic Tasks	<ol style="list-style-type: none"><li>1. Achieving net-zero emissions at the institutional level by 2040</li><li>2. Supporting national transition to carbon neutrality</li><li>3. Prompting circular economy &amp; waste-to-energy</li><li>4. Leading climate crisis response through advanced environmental services</li></ol>	<ol style="list-style-type: none"><li>5. Strengthening human rights management system</li><li>6. Ensuring fair recruitment and happy workplace</li><li>7. Advancing safety management and information security</li><li>8. Providing customer satisfaction &amp; support for SMEs and local communities</li></ol>	<ol style="list-style-type: none"><li>9. Reinforcing board governance</li><li>10. Promoting ethics, legal compliance, anti-corruption</li><li>11. Expanding information disclosure and stakeholder communication</li><li>12. Improving management efficiency &amp; sustainability</li></ol>

## ESG Performance Measurement & Management

Based on its mid-to-long-term management strategy, K-eco has developed a customized internal performance management model tailored to the institution's characteristics, allowing for systematic evaluation, measurement, and management of ESG outcomes. The corporation continuously monitors performance on 86 detailed operational tasks across the environmental (E), social (S), and governance (G) sectors, including progress on its carbon neutrality roadmap. It conducts precise assessments and measurements, identifies and rewards best practices, and facilitates their broader adoption. By feeding back measurement outcomes and adapting to changing environmental conditions, K-eco continues to take the lead in shaping a sustainable future.

## PDCA-Based ESG Management & Performance Evaluation Process



## External Awards

★ **Minister of Trade, Industry and Energy Award**  
for Excellence in Sustainable Management



★ **ESG Innovation Award Grand Prize by the Korean Association for Policy Studies**  
Project name: Improving Environmental Services (E) and Realizing Social Responsibility (S) through Transparent Governance (G)



★ **Platinum Award (highest achievement)**  
by the LACP\* Vision Awards in the U.S.



\* LACP (League of American Communications Professionals)

# K-eco ESG Highlight

## ESG International Certification Grand Slam

with the acquisition of Environmental Management System (ISO 14001) Certification

- ✔ **ISO 14001 Certification** Environmental Management System (from Mar 2025)
- ✔ **ISO 45001 Certification** Occupational Health & Safety Management System (from Nov 2022)
- ✔ **ISO 37001·37301 Dual Certification** Anti-Corruption & Compliance Management System (from Sep 2023)

## E Environmental

### K-eco, Steps Toward Protecting the Earth

#### Carbon Neutrality

**Expansion of scope 3 disclosure and establishment of a foundation for all-category emissions calculation and management**

2022: 2 categories (492 tCO<sub>2</sub>eq; 2023 calculation)  
➡ 2023 categories (954 tCO<sub>2</sub>eq; 2024 calculation)  
Disclosed emissions **increased by 462 t (94%)** year over year

**Improved GHG reduction effects based on the enhanced efficiency of the Climate Response Fund**

2024: 1.52 million tCO<sub>2</sub>eq ➡ 2025: **1.73 million tCO<sub>2</sub>eq** (estimate)

**Operation of the GHG Reduction-Conscious Budgeting System**

Reduction effect based on 2023 settlement: 3.44 million tCO<sub>2</sub>eq  
➡ Estimated reduction effect for 2025: **4.33 million tCO<sub>2</sub>eq**

**Carbon neutrality master plans completed by all 17 metropolitan governments** (as of Apr 2024)

#### Future Mobility

**Expansion of EV and hydrogen vehicle charging infrastructure**

- Electric (fast) + 8,321 units
- Electric (slow) +190,727 units
- Electric (fast, subsidized) +1,483 units
- Smart-controlled slow chargers +45,868 units
- Hydrogen + 232 units

※ All figures are cumulative totals

## S Social

### K-eco, Growing with People

#### Safety Management

**“Excellent” safety rating for 2 consecutive years**

Ministry of Land, Infrastructure, and Transport

Safety management system advancement throughout entire construction process and reinforced on-site implementation

**Prime Minister’s Award at the 2024 Korea Safety Technology Awards**

Ministry of the Interior and Safety

Establishment of a flood preparedness system through development, improvement, and dissemination of the “manhole Keeper”

**Improved safety management rating**

Ministry of Economy and Finance

Grade 3 ➡ **Grade 2**

**Zero serious accidents for 2 consecutive years**

**Outstanding institution in Safety Activity Level Assessment (Grade A)**

Ministry of Employment and Labor

System effectiveness enhancement through **integration of regional branches’ KOSHA-MS Certifications**

#### Equitable Recruitment

**Selected as Reliable Employer for Persons with Disabilities for 2 consecutive years** Ministry of Employment and Labor

- **4.8%** employment rate of persons with disabilities
- Development of suitable positions and continued expansion of employment

#### Facility Access

**Recognition as an “Outstanding Institution” & Deputy Prime Minister’s Commendation for public facility and equipment access**

Ministry of Economy and Finance

Expanded public access to facilities in support of Neulbom School operations and local cultural events

#### Work-Life Balance Culture

**Certified as family-friendly institution for 12 consecutive years**

Ministry of Gender Equality and Family (2013–2024)

#### Human Rights Management

**Certified human rights management system for 5 consecutive years**

- Human rights promotion activities in environmentally vulnerable areas
- First public institution to introduce AI Human Rights Impact Assessment

#### Shared Growth

**2024 Korea SME Regulatory Innovation Awards**

Ministry of SMEs and Startups

Alleviation of burdens on SMEs and private-sector growth support through regulatory reforms (e.g. relaxed chemical registration standards)

**CBAM Help Desk Operation**

235 technical consultations / Publication of **guidebooks** (steel (revised), aluminum, cement, fertilizer, hydrogen)

#### Information Security

**Top rating in NIS information security management assessment for 3 consecutive years**

Ranked **No.1** among all public institutions

**“Grade A” in cyberattack response training** National Intelligence Service

2023: 84.48 points ➡ 2024: **91.99 points**

**“S Rating” in personal information protection level assessment**

Personal Information Protection Commission (Apr 2024)

- Top **1.9%** among assessed public institutions
- Strengthened life-cycle management of personal information

**Smart eco-factory construction project**

GHG reduction and environmental facility improvement support (98 companies)

**Win-Win Cooperation Demonstration Program**

Environmental technology demonstration support (KRW 13.9 billion for 19 SMEs)

**GHG reduction**  
2023: 73,000 tCO<sub>2</sub>eq  
➡ **2024: Approx. 90,000 tCO<sub>2</sub>eq**

## Governance

### K-eco, Reliable Governance

#### Governance

**Expanded board management recommendations and 100% implementation**

2023: 34 recommendations ➡ 2024: **36 recommendations**

**Enhanced application of ethical management standard model and improved implementation rate**

Ministry of Economy and Finance

2023: 82.5% ➡ 2024: **85.3%**

**Full implementation of employee-elected director system**

from Jul 2024

#### Data Disclosure

**Top rating (Excellent) in public data provision and operation assessment for 5 consecutive years**

Ministry of the Interior and Safety

- Open API share of public data (2023: 11% ➡ 2024: **22%**)
- Public data quality management score (2023: 94 points ➡ 2024: **99 points**)

**Zero errors in management disclosure for 2 consecutive years**

**Designated National Priority Data for 2 consecutive years** Ministry of the Interior and Safety

Full-cycle information disclosure on waste recycling

**Top rating in data-based administration assessment for 3 consecutive years**

Ministry of the Interior and Safety

### K-eco, Going Global

### Global Green K-eco



**Strengthened global environmental communication and cooperation**

- Launching of “Green Talk ,” a dedicated communication platform for developing countries
- **2.7x** increase in foreign delegation visits (2023: 50 visitors ➡ 2024: **135 visitors**)
- Hosting of **INC-5** international conference
- **75%** increase in number of companies advancing overseas via international cooperation platform (2023: 4 companies ➡ 2024: **7 companies**)
- **111%** growth in overseas environmental project expansion (2023: KRW 3.3 billion ➡ 2024: **KRW 7.0 billion**)

**Fostering of Global Water Companies and Advancements in the Water Industry**

- **66%** increase in budget (2023: KRW 7.4 billion ➡ 2024: **KRW 12.3 billion**)
- **130%** increase in participating companies (2023: 63 companies ➡ 2024: **145 companies**)
- **27%** increase in revenue of supported companies (2023: KRW 328.4 billion ➡ 2024: **KRW 416.8 billion**)

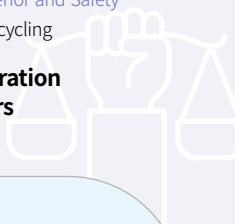
**Establishment of an international standard on eco-driving**

**First international standard in the environmental sector: ISO 23795-2:2024**

Based on estimation of GHG emissions based on driving habits

**Global expansion of the K-circular resource system**

- Development of global-level **certification system** for use of K-recycled materials
- Strengthened support for exports in the recycling industry ➡ **35.6%** increase in exports of recycled materials to developing countries



# K-eco's Implementation of the UN SDGs

As a global environmental institution, K-eco remains committed to ESG management through continuous innovation and fulfills its social responsibility in alignment with the UN Sustainable Development Goals (SDGs). Adopted in 2015, the UN SDGs present a global action agenda aimed at eradicating poverty and hunger, protecting the environment, and ensuring peace and prosperity by 2030. The SDGs encompass three interconnected dimensions of sustainability—economic growth, social inclusion, and environmental protection—across 17 goals and 169 specific targets. Key areas include eradicating poverty, ending hunger, providing quality education, achieving gender equality, and responding to climate change. K-eco actively contributes to this global agenda by leveraging its expertise in environmental services to build a more sustainable future.

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## Key K-eco Activities Aligned with the 17 UN SDGs

SDGs	Indicators	Key Activities
	<b>Goal 1</b> No Poverty	<ul style="list-style-type: none"> <li>Named Best Institution for social contribution two years in a row</li> <li>Earned highest rating in the Local Community Contribution Certification</li> <li>Voluntary donation campaign by employees ("Cheonmi-manmi")</li> </ul>
	<b>Goal 2</b> Zero Hunger	<ul style="list-style-type: none"> <li>Green ODA projects for improving water and sanitation infrastructure in Uganda and Mongolia</li> <li>- Installation of fecal sludge treatment facility in Busukuma, Uganda</li> <li>- Sanitation improvement and desertification prevention project in the Ger District of Ulaanbaatar, Mongolia</li> </ul>
	<b>Goal 3</b> Good Health & Well-Being	<ul style="list-style-type: none"> <li>Identification of asbestos hazards targeting imported consumer goods and aging slate-roofed buildings</li> <li>Monitoring of persistent organic pollutants (POPs)</li> <li>Enhancement of the integrated indoor air quality information system</li> <li>Expansion of the inter-floor noise mediation service</li> </ul>
	<b>Goal 4</b> Quality Education	<ul style="list-style-type: none"> <li>Stable education system based on the K-eco competency model (restructuring and expansion of 140 leadership skill courses)</li> <li>Uzbekistan environmental education and digital learning infrastructure support</li> <li>Pine Tree Home study spaces for children in vulnerable groups</li> </ul>
	<b>Goal 5</b> Gender Equality	<ul style="list-style-type: none"> <li>Gradual increase in the proportion of female executives and managers</li> <li>Exceeded targets for female hiring</li> <li>Enhanced work-life balance support (expanded parental leave, rest entitlements, etc.)</li> </ul>
	<b>Goal 6</b> Clean Water & Sanitation	<ul style="list-style-type: none"> <li>Reliable TMS water quality monitoring system for data</li> <li>Introduced sewer safety grading system in the Hangang River basin</li> <li>ICT-based total water pollution load management</li> <li>Dual-track reduction for agricultural non-point pollution</li> <li>Improved standards for calculating capacity of private sewage systems</li> <li>Enhanced capacity of small water enterprises in managing non-point source pollution</li> </ul>
	<b>Goal 7</b> Affordable & Clean Energy	<ul style="list-style-type: none"> <li>Smart lighting and standby power reduction devices</li> <li>Energy self-sufficient net-zero buildings</li> <li>Adoption of eco-friendly shared mobility</li> </ul>

SDGs	Indicators	Key Activities
	<b>Goal 8</b> Decent Work & Economic Growth	<ul style="list-style-type: none"> <li>Support for private sector innovation and growth</li> <li>Expansion of core services to address environmental change and digital transformation</li> <li>Support for youth entrepreneurship in environmental sectors</li> </ul>
	<b>Goal 9</b> Industry, Innovation & Infrastructure	<ul style="list-style-type: none"> <li>Establishment of Incheon Sharing ESG Impact Fund (I-SEIF) to support socially responsible companies' ESG initiatives</li> <li>New business models for waste reuse with social cooperatives</li> <li>Emissions control for major air pollution sources</li> <li>Support for smart and hydrogen charging infrastructure</li> <li>Expanded private sector involvement in hydrogen charging infrastructure development</li> <li>Expansion of future mobility convenience</li> </ul>
	<b>Goal 10</b> Reduced Inequalities	<ul style="list-style-type: none"> <li>Intergenerational symbiosis and gender-balanced hiring</li> <li>Equitable hiring for diverse social groups</li> <li>Inclusive training for vulnerable groups in GHG management</li> </ul>
	<b>Goal 11</b> Sustainable Cities & Communities	<ul style="list-style-type: none"> <li>Open access to the facilities and equipment of the HR Development Center</li> <li>"Neulbom School" for retired professionals</li> <li>K-eco Smart Eco-Factory initiative</li> <li>Carbon neutrality leadership in the public sector and local governmental outreach</li> <li>Promotion of biogas and renewable energy industries</li> </ul>
	<b>Goal 12</b> Responsible Consumption & Production	<ul style="list-style-type: none"> <li>Digital optimization for collection systems</li> <li>Enhanced vehicle waste recycling through collection center upgrades</li> <li>Designation and notification system for recyclable resources</li> <li>Stabilization of recycling markets using AI</li> <li>Expansion of high-quality recycled material collection</li> <li>Public-private collaboration for converting food byproducts into premium feed</li> <li>Biofuel production from coffee grounds</li> <li>Improvement of collection systems for agricultural vinyl and paper cartons</li> <li>Promotion of public participation in everyday circular resource practices</li> </ul>

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SDGs	Indicators	Key Activities
	<b>Goal 13</b> Climate Action	<ul style="list-style-type: none"> <li>Establishment of a year-round water disaster response system</li> <li>Predictive modeling of ground subsidence in aging pipelines</li> <li>Enhanced groundwater management in response to water scarcity</li> <li>Improved management systems for rainwater reuse facilities and treated water supply</li> <li>Expanded Scope3 disclosures and comprehensive emissions accounting and management across all sectors</li> <li>Enhanced national carbon neutrality execution to achieve GHG reduction targets</li> <li>Promotion of emission reduction activities through the Emissions Trading System</li> <li>Digital transformation of refrigerant management (DX)</li> </ul>
	<b>Goal 14</b> Life Below Water	<ul style="list-style-type: none"> <li>Automatic water quality monitoring networks to enhance data reliability</li> <li>Collection of data from national statistics-certified and trusted tele-monitoring systems (TMS) for water quality</li> <li>Support for wastewater treatment in the secondary battery industry</li> <li>Expansion of sewage infrastructure in island regions</li> </ul>
	<b>Goal 15</b> Life on Land	<ul style="list-style-type: none"> <li>Advancement of the "Allbaro" waste tracking platform</li> <li>Real-time waste management through expanded on-site information transmission</li> <li>Illegal waste prediction and prevention using big data</li> <li>Systematic management of groundwater and soil contamination</li> <li>Support for youth startups engaged in endangered plant restoration</li> <li>Streamlined systems for recycling and managing decommissioned elevator batteries</li> <li>Restoration of ecological rivers to create biodiversity habitats</li> <li>Waste plastic plying campaign</li> </ul>
	<b>Goal 16</b> Peace, Justice & Strong Institutions	<ul style="list-style-type: none"> <li>Implementation of INTOSAI internal control standards</li> <li>Integrated certification of ISO 37001 and ISO 37301</li> <li>Operation of a three-tier conflict of interest management framework (individual-business-high risk business)</li> </ul>
	<b>Goal 17</b> Partnerships for the Goals	<ul style="list-style-type: none"> <li>Participation in the World Bank Environment and Climate Governance meeting (co-development of EPR policy in the Philippines)</li> <li>Cooperation with UNDP Plastic Task Force and Arab Secretariat (co-development of digital environmental management initiatives)</li> </ul>

## K-eco's Commitment to the Ten Principles of the UN Global Compact

### The Ten Principles

Since joining the UN Global Compact (UNGC) in 2010, K-eco has fully adhered to the Ten Principles spanning human rights, labor, environment, and anti-corruption.

#### Human Rights



- Principle 1** Businesses should support and respect the protection of internationally proclaimed human rights; and
- Principle 2** make sure that they are not complicit in human rights abuses.

#### Labor



- Principle 3** Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining;
- Principle 4** the elimination of all forms of forced and compulsory labor;
- Principle 5** the effective abolition of child labor; and
- Principle 6** the elimination of discrimination in respect of employment and occupation.

#### Environment



- Principle 7** Businesses should support a precautionary approach to environmental challenges;
- Principle 8** undertake initiatives to promote greater environmental responsibility; and
- Principle 9** encourage the development and diffusion of environmentally friendly technologies.

#### Anti-Corruption



- Principle 10** Businesses should work against corruption in all its forms, including extortion and bribery.



# Stakeholder Communication

## Stakeholder Involvement

### Stakeholder Definition

K-eco classifies its major stakeholder groups and actively shares its management activities and relevant issues with each group through dedicated communication channels. In addition to sharing its key achievements across environmental, social, governance, and economic dimensions, K-eco seeks to align its long-term direction with stakeholder interests. Feedback gathered through these channels is proactively reflected in the corporation's operations and decision-making processes.

### Communication Channels

K-eco engages in open, transparent communication with key stakeholders—customers, employees, subsidiaries, local communities, partner companies, and potential customers—through a range of platforms and dialogue channels. The corporation strives to incorporate stakeholder voices, fill identified gaps, and enhance satisfaction. For this 10th sustainability report, K-eco conducted a stakeholder survey targeting customers and employees, in addition to holding expert interviews across the economic, social, and environmental sectors. These inputs helped the corporation define future priorities and areas for improvement in its sustainability practices. K-eco will continue to diversify its channels to ensure active and open stakeholder involvement.

### Evolving K-eco Stakeholder Typologies & Communication Strategies

Stakeholder Groups	General Public, Customers, Environmentally Vulnerable Groups	National Assembly, Government Ministries, Local Governments, Media	Partner Companies, Business Sites, Affiliated Organizations, Local Communities	Research Institutes, Universities, Academic Societies, Environmental NGOs	Employees, Labor Unions
Value Typologies	Value Sharing & Habituation	Value Impact & Dissemination	Value Sharing & Mutual Growth	Value Collaboration & Contribution	Value Generation & Creation
Communication Strategies	<b>Citizen-involved communication</b> Ensuring access to information and user-friendly environments	<b>Strengthening the execution of national agendas</b> Generating policy outcomes and disseminating public value	<b>Mutual growth through technical support</b> Mutual growth through technical cooperation and regulatory innovation	<b>Creating shared outcomes</b> Creating shared outcomes via collaborative networks and partnerships	<b>Open, intergenerational communication</b> Fostering a horizontal organizational culture through dialogue
Communication Channel	<ul style="list-style-type: none"> <li>Social media (new media)</li> <li>Civic Innovation Group</li> <li>Open environmental data</li> </ul>	<ul style="list-style-type: none"> <li>Policy roundtables</li> <li>Joint briefings</li> <li>Private consultative bodies</li> </ul>	<ul style="list-style-type: none"> <li>Shared benefit partnership programs</li> <li>Customized consulting</li> <li>Technical assistance</li> </ul>	<ul style="list-style-type: none"> <li>Future Development Committee</li> <li>MOUs</li> <li>Expert forums</li> </ul>	<ul style="list-style-type: none"> <li>Management Strategy Meetings</li> <li>Empathy &amp; Communication Day</li> <li>Labor-management councils</li> </ul>



Civic Innovation Group launch ceremony (Apr 9, 2024)



Customized consulting (WePlant mentoring)



Empathy & Communication Day (CGV Deungchon, Feb 21, 2025)

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#### ESG Committee

Sejong University

**Jeon Eui-chan** Chair Professor  
Committee Member



#### ESG Committee

Gyeonggi Research Institute

**Go Jai-kyeong** Senior Researcher  
Committee Member



#### ESG Committee

Yulchon LLC

**Yoon Yong-hee** Lawyer  
Committee Member



The ESG Committee is dedicated to establishing a robust ESG management framework and leading K-eco's greenhouse gas reduction initiatives. ESG and carbon neutrality are not only complementary concepts but also essential pillars of a sustainable future. As Committee Chair, I am committed—together with internal and external members—to ensuring K-eco's role in leading environmentally sustainable national development. K-eco has achieved notable results across a wide range of environmental sectors from air and water quality management to resource circulation and infrastructure development. We are also focused on expanding renewable energy use and improving operational efficiency through digital transformation. By strengthening our global environmental cooperation networks and actively adopting innovative technologies, the corporation is creating a model for social value that goes beyond simply addressing environmental issues. Moving forward, I will continue to work alongside the Chairman and all K-eco employees to create environmental value for the nation, for businesses, and for future generations. Together, we will strive to position K-eco as a global leader in sustainable environmental management.

K-eco is leading the way in carbon neutrality and sustainable management as a globally engaged environmental institution. Of particular note is its organization-wide effort to internalize and mainstream ESG values. As a member of the ESG Committee, I have seen how K-eco's systematic and strategic approach to achieving net zero by 2040 is not simply a declarative goal but deeply embedded in its organizational culture and management strategy. What is most commendable is the extent to which ESG values have been integrated into daily operations and decision-making processes across the organization. This is a true example of meaningful culture change. K-eco supports corporate GHG reduction efforts, proactively prepares for the EU's Carbon Border Adjustment Mechanism (CBAM), and actively assists SMEs in adopting eco-friendly facilities. The corporation also plays a critical role in helping local governments draft and implement tailored carbon neutrality plans while building cooperative governance frameworks to contribute to the effectiveness of national climate policy. I look forward to K-eco continuing to expand its partnerships with the private sector and reinforce its commitment to social responsibility.

As a member of K-eco's ESG Committee, I commend the corporation's sincere and well-executed efforts to promote sustainable management and achieve carbon neutrality. K-eco has served as a catalyst for change by providing effective and proactive support for corporate GHG reduction projects, SME transitions to eco-friendly facilities, and the development of tailored carbon neutrality plans for local governments, which reflect the corporation's strong environmental expertise. I also wish to highlight the significance of K-eco's commitment to achieving net zero emissions from its own operations by 2040. As a public institution, this is both a forward-thinking and exemplary target. K-eco has made substantial contributions to expanding the practice of sustainable management and carbon neutrality in Korea, and I am committed to continuing my support as an ESG expert so the corporation can advance with even greater momentum.

# Stakeholder Communication

## Partner Organization

Korea Energy Agency

**Lee Su-hyun** Team Leader

Signed MOU with K-eco for  
carbon neutrality



## Local Community

Jeonbuk Carbon Neutrality Support Center

**Chang Nam-jeong** Director

Local government support program  
for carbon neutrality



## Academia

Seoul National University of  
Science and Technology

**Lee Jong-wook** Professor

Former Management Evaluation Committee  
Member



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K-eco is at the forefront of key policies aimed at achieving carbon neutrality, including the Emissions Trading System, the Climate Budgeting System, eco-friendly factory initiatives, and hydrogen energy transition projects. The corporation is setting and implementing systematic reduction targets with a clear strategic direction. In particular, maximizing greenhouse gas reduction in the building and transportation sectors requires both improved energy efficiency and the expansion of renewable energy use. To achieve this, concrete support measures and tangible outcomes are essential to encourage private sector participation. In May 2024, K-eco and the Korea Energy Agency strengthened their partnership by committing to information sharing and coordinated efforts across both public and private sectors to meet national greenhouse gas reduction targets. This collaboration also extends to promoting and expanding ESG management practices. One notable initiative is the Zero Energy Building Optimization Consulting Program, which helped a K-eco-owned facility achieve zero-energy building certification. Such efforts demonstrate how public institutions can lead by example in the transition to carbon neutrality. We believe that through continued, close cooperation, our two agencies can help bring Korea closer to achieving net zero by 2050.

At the Jeonbuk Carbon Neutrality Support Center, we are working closely with K-eco to support Jeonbuk Special Self-Governing Province in achieving its goals for carbon neutrality and green growth. In developing basic carbon neutrality plans for local municipalities, we have actively utilized K-eco's education programs for municipal staff, planning guidelines, and consultations on draft reports. K-eco has also been instrumental in providing information on key policy issues, such as monitoring implementation status, developing and applying emission reduction coefficients, and evaluating reduction potential, which are critical to local carbon neutrality efforts. Moreover, the corporation plays a central role in facilitating communication between regional centers, the Ministry of Environment, and other stakeholders, contributing greatly to the formation of a robust carbon neutrality network. With this continued partnership, the Jeonbuk Carbon Neutrality Support Center aims to serve as a control tower in leading local carbon neutrality. We hope that K-eco will further strengthen its role as a bridge between central and local governments, connecting municipalities and citizens alike, to help realize both regional and national carbon neutrality targets.

K-eco stands out as a model public institution that effectively balances public responsibility with sustainability in both its operations and management. In today's public sector, striking a balance between autonomous management and accountable governance is increasingly important. K-eco epitomizes this balance, continuously working to improve the quality of services it delivers to the public. The corporation's proactive response to the pressing demands of our time—carbon neutrality and ESG management—while maintaining a strong emphasis on organizational expertise and efficiency is particularly noteworthy. The performance of public institutions should not be evaluated by financial indicators alone but also by the social value they create and the quality of public services they provide. In this regard, K-eco's diverse environmental programs make a meaningful contribution to improving quality of life and building a sustainable future. We hope K-eco will continue to strengthen communication with stakeholders and further enhance transparency and accountability. At the same time, we expect it to maintain its founding mission of environmental expertise, pursuing independent and innovative management practices as a leading public institution.

# Stakeholder Communication

## Citizen

Seoul National University

**Kim Jae-woo** Student

Civic Innovation Group



## Youth

Greenwave

**Baek Mi-yeon** Manager

Graduate of the 2024 2nd Greenhouse Gas Management Training Program



## Youth

UNDP DESA

**Kim Song-jung** JPO

Graduate of the 2023 International Environmental Expert Training Program



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K-eco's approach to carbon neutrality extends beyond science and technology, advancing innovatively into the social and cultural realms. Today, ESG is no longer merely a moral appeal to individuals or corporations; it is widely understood in the context of corporate management and social responsibility. At K-eco, ESG is practiced not only at the corporate and technological levels, but also through close engagement with diverse stakeholders, including local communities and residents. In this context, the role of the Civic Innovation Group is particularly vital. The group advises on innovation plans that incorporate public opinion and helps identify and promote new initiatives. Comprising members from various age groups and regions, the group reflects regional environmental issues through local outreach activities and contributes to tangible outcomes that the public can experience firsthand. In particular, the group serves as a vital bridge between K-eco and the public in achieving ESG management goals such as carbon neutrality and a circular economy. Through these efforts, K-eco continues to deliver citizen-centered environmental services and take the lead in advancing the Sustainable Development Goals (SDGs). I hope K-eco will continue to support civic participation and environmental education so that citizen ideas and involvement can play a greater role in environmental protection and in addressing local and regional challenges.

After completing K-eco's Greenhouse Gas Management Professional Training Program, I was fortunate to secure a position at Greenwave, where I completed my field training. The program's 600-hour curriculum was instrumental in equipping me with the practical skills necessary for the workplace. From theoretical education on climate change and GHG issues to hands-on training in emissions calculation, mitigation technologies, and emissions trading systems, the program provided a comprehensive, experience-based foundation critical for my professional development. K-eco has firmly established its reputation as a public institution fulfilling the important social responsibility of cultivating professional talent and advancing environmental education. As the corporation pursues carbon neutrality and a sustainable future—including its institutional net zero goal by 2040—I hope it will continue to expand and strengthen practical training programs. Such initiatives are crucial for developing the next generation of GHG management professionals and will play a key role in supporting businesses and local governments as they formulate and implement their own carbon neutrality strategies. Ultimately, this work will enhance K-eco's standing as a trusted institution among the Korean public.

K-eco's Global Environmental Leader's Program greatly enhanced my understanding of global environmental cooperation and policy. The lectures and hands-on sessions covering a wide range of topics—climate change, international policy trends, environmental treaties, resource management, plastic waste, energy, governance, loss and damage, urban environment, and polar diplomacy—significantly strengthened my competencies. Structured policy education and project-based learning proved especially valuable in my current role as a JPO at UN DESA under the UNDP. Programs such as guest lectures by international officials, discussions with former interns, group projects, and mock interviews also provided practical insights for young professionals aspiring to work on the global stage. The program played a critical role in building my expertise and paved the way for my internship at the UNCCD and current position at the UNDP. That said, I believe the program could offer a wider range of collaboration opportunities with relevant institutions to help participants gain a deeper understanding of policy implementation and on-site applications. I hope K-eco will continue expanding collaboration with developing countries, lead global environmental solutions through digital innovation, and actively supporting young environmental professionals entering international organizations.

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Midsize Enterprise

dhSteel

**Kang Geun-wook** CEO

Partner company in the Smart Eco-Factory Development Project



dhSteel became the only firm in the steel and metals industry to receive certification as an outstanding business under the Energy Efficiency Target Management System in 2021. Building on that milestone and a track record of ESG-related accolades, we have since joined K-eco's smart eco-factory initiative. Often regarded as a representative "anti-ESG" industry, the steel sector faces considerable skepticism when it comes to sustainability. dhSteel is challenging this perception by leading ESG-driven innovation in the manufacturing sector. Through this program, we are working toward a transformation of our production processes—enhancing energy efficiency, reducing pollutant emissions, and promoting resource circularity. K-eco's support was instrumental, especially in enabling the integration of smart technologies into our production lines and providing expert consulting services. This has allowed us to build a system that maximizes manufacturing efficiency while minimizing environmental impact. We are set to continue receiving K-eco's support in 2025, and this sustained partnership is a key driver in our pursuit of sustainable management and ESG goals. We hope to serve as a meaningful example of how modern industry can shift toward eco-friendly practices and realize sustainable growth with institutional support.

Woman-Owned Enterprise

NIT KOREA Co.,Ltd.

**Jeon So-young** CEO

Partner Company in the Mutual Growth Demonstration Program



At NIT Korea, we provide comprehensive air quality solutions, ranging from fine dust reduction devices to indoor air quality systems and air pollution control facilities. Our participation in K-eco's Win-Win Cooperation Demonstration Program provided not only financial support for environmental technology development but also valuable networking opportunities with various research institutions, significantly enhancing our technological capabilities. K-eco's professional support was especially helpful during the demonstration stage of our air pollution reduction technology. Through this project, we gained experience in forming effective consortia with partner organizations and benefited from public outreach efforts that positively influenced follow-up business contracts. Based on these achievements, we aim to establish ourselves as a national leader in eco-friendly air quality management technologies by 2025 and lay the groundwork for entering the global market. We believe that the continued expansion of K-eco's support for smart green technologies and international environmental certification programs will allow SMEs like ours to take significant leaps. We look forward to ongoing collaboration with K-eco as we work to lead innovation in air environment technology and contribute to creating cleaner air for all.

Social Enterprise

We Plant Co., Ltd.

**Kim Seong-jung** CEO

Youth startup in the environmental sector



With support from K-eco's youth start-up initiative, WePlant has grown into a social enterprise contributing to post-wildfire restoration and carbon neutrality. Based on corporate sponsorship and citizen participation, our tree-planting project is supported by a digital platform offering a tree map, which quantitatively tracks restoration progress and impact, allowing us to publicly share the value of ESG management. This platform enables companies to visually assess restored areas and the associated economic and social benefits, facilitating a structured approach to ESG implementation. Citizens, meanwhile, are empowered to engage in environmental protection efforts and build awareness of sustainability. Thanks to K-eco's support and network, we have expanded our vision beyond wildfire recovery to include the protection of endangered plant species and biodiversity enhancement. We hope that more young entrepreneurs will be empowered to realize their innovative ideas for a sustainable future through continued attention and support from K-eco.

# Stakeholder Communication

## Government

Ministry of Environment

**Yeom Jeong-seok**

Director of Climate Strategy Division



## International Stakeholder

UNDP Seoul Policy Center

**Arnaud Debaugé**

Policy Specialist



## National Assembly

Environment and Labor Committee

**Lee Seong-gon**

Environmental Policy Researcher



As climate change—extreme rainfall, heatwaves, and other climate-related events threatening human safety and lives—becomes part of our daily reality, countries around the world are accelerating their transition to carbon-neutral societies. The Korean government is also keeping pace with this shift by implementing a range of policies to address the climate crisis. As a key policy partner of the Ministry of Environment, K-eco plays a central role in executing and delivering results from these policies. In accordance with the Framework Act on Carbon Neutrality, K-eco supports the operation of the Korea Emissions Trading System (K-ETS) and manages the climate response fund, while also building cooperative frameworks with local governments and industry to support carbon neutrality efforts. K-eco has helped establish basic carbon neutrality plans for metropolitan governments through regional carbon neutrality support centers and is now extending this work to local municipalities. With new global trade barriers such as the Carbon Border Adjustment Mechanism (CBAM) emerging, close public-private collaboration has never been more important. This is an era when the capacity to respond to climate change directly correlates with national competitiveness. We hope K-eco will remain at the forefront of Korea's transition to a carbon-neutral society, enabling our country to enhance low-carbon competitiveness and achieve sustainable development.

At the UNDP Seoul Policy Centre (USPC), we work to share South Korea's environmental expertise and experience with developing countries by promoting knowledge exchange and catalyzing innovative development solutions. Since USPC's establishment in 2011, our partnership with K-eco has grown increasingly robust. Notable joint initiatives include a wastewater management project in Indonesia and a waste management project in Mongolia. Together, we have also developed knowledge products that apply Korea's environmental know-how and historical experience to provide practical solutions for developing countries. Building on the success of this collaboration, we are expanding our partnership in the fields of sustainable low-carbon growth and climate action. In 2025, we plan to launch a pilot project on carbon markets and emissions trading (K-ETS) with Mongolia, along with a new waste management demonstration project in cooperation with K-eco. A key goal of this partnership is to provide insights from Korea's experience with K-ETS development, particularly as Mongolia prepares to adopt a new climate finance law this year. We aim to promote knowledge exchange in this area and continue working closely with K-eco to support environmental solutions and sustainable development, contributing to the achievement of the UN Sustainable Development Goals (SDGs).

K-eco has long played a crucial role in implementing national environmental policies across areas such as waste treatment, greenhouse gas reduction, and hazardous substance management. K-eco's contribution to promoting a circular economy and laying the foundation for carbon neutrality in close coordination with local communities is particularly noteworthy. As the climate crisis renders more complex and multi-layered, the National Assembly expects K-eco to go beyond project execution and take a proactive and integrated role in building the nation's environmental response capacity. To this end, we emphasize the importance of enhancing the digital integration of environmental data, strengthening the planning function for combined mitigation and adaptation projects, expanding local governance support for carbon neutrality, and increasing tailored assistance to address environmental disparities between regions. To implement effective policies, we urge the corporation to reinforce its collaboration with the National Assembly and central government and actively serve as a bridge linking legislation with policy execution in the evolving landscape of climate governance.

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# Double Materiality Assessment

## Materiality Assessment Overview

The double materiality assessment is a methodology that equally considers the impact a company has on society and the environment (impact materiality) and the impact societal and environmental factors have on the company's business performance (financial materiality). In line with the recommendations of GRI and ISO 26000, K-eco identifies key ESG issues and develops a sustainable ESG management strategy through a comprehensive analysis of stakeholder perspectives and the interconnections among various issues.

## Double Materiality Assessment Process

To identify key ESG issues, K-eco conducts a systematic assessment based on the GRI principles of sustainability context, materiality, completeness, and stakeholder inclusiveness. Potential issues are identified through internal and external environmental analyses, and an advanced set of evaluation criteria and diverse stakeholder input are incorporated into the double materiality assessment process, thereby enhancing the effectiveness of ESG management.

### What is Double Materiality?

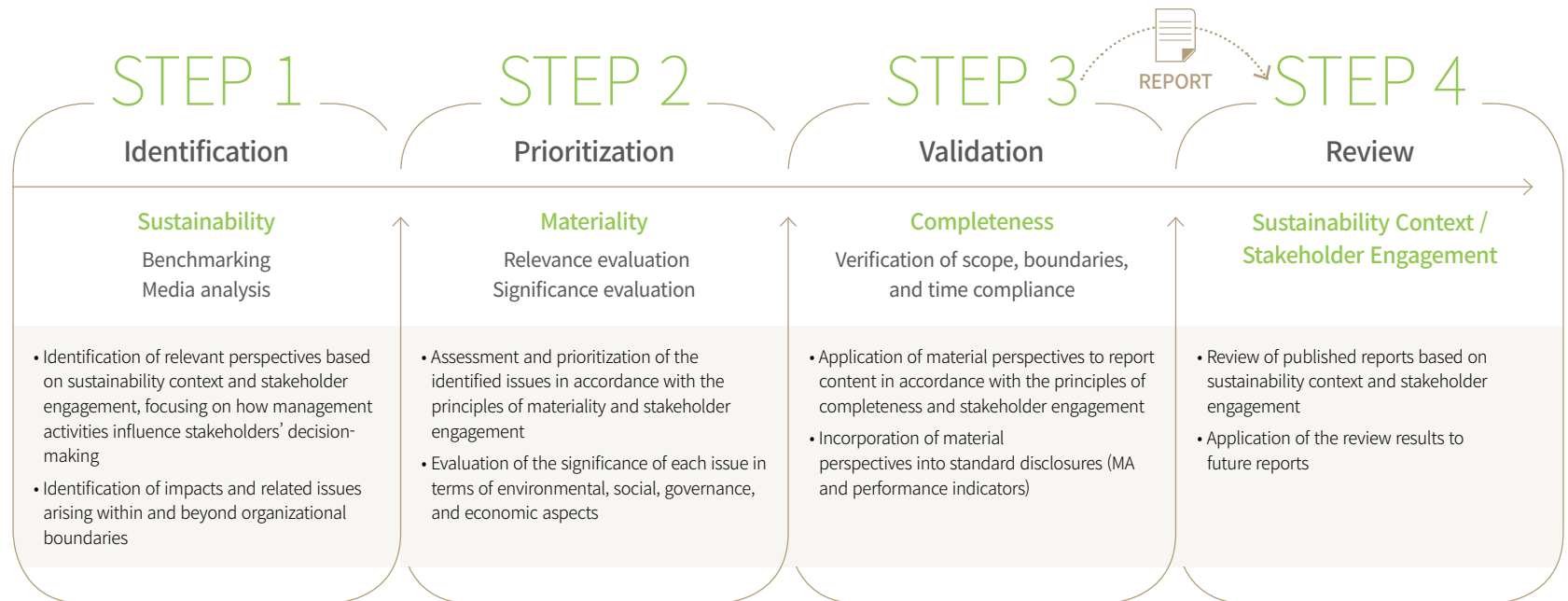
Double materiality is a concept that considers both impact materiality and financial materiality and is central to recent efforts to standardize sustainability disclosures. Under this framework, **GRI** prioritizes the significance of an organization's impact on economic, environmental, and social systems, while **SASB** defines materiality in terms of financial information relevant to investor decision-making.

#### GRI Standards

"... the organization prioritizes reporting on those topics that reflect its most significant impacts on The economy, environment, and people, including Impacts on human rights ..."

#### SASB

"... material if there is substantial likelihood that the ... fact would have been viewed by the reasonable investor as having significantly altered the 'total mix' of information made available ..."



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# Double Materiality Assessment

## Benchmarking

K-eco analyzed sustainability performance based on the GRI reporting principles and the sustainability reports of leading domestic and international companies known for their excellence in ESG management. Through this benchmarking process, the corporation identified additional issues it should proactively address.

## Key Stakeholder Interviews

Interviews were conducted with representatives from K-eco's primary stakeholder groups, defined along the organization's value creation flow. Interviewees included both internal and external stakeholders who could represent their respective groups. Their feedback and shared values were thoroughly examined and incorporated into the identification of core issues.

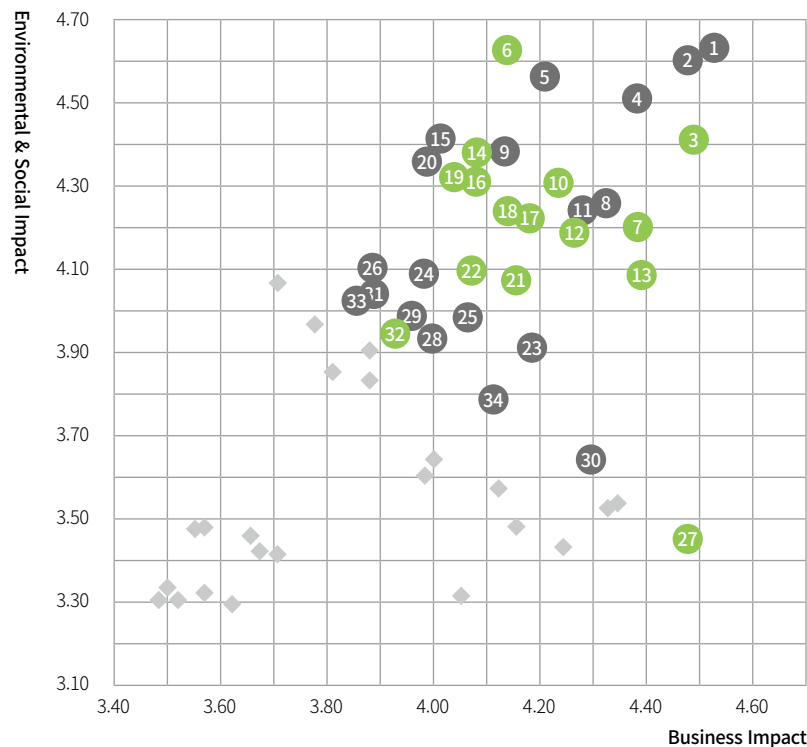
## Media Analysis

To objectively assess public perception of K-eco's key ESG issues, the corporation analyzed media coverage from January to December 2024, identifying relevant topics.

## Stakeholder Survey

A stakeholder survey was conducted with employees, customers, partner companies, and local communities, considering their legal, financial, and operational relationships to and influences on K-eco's management. ESG issues identified by these stakeholders were integrated into the materiality assessment.

## Materiality Assessment Matrix\*



\* A comprehensive evaluation approach used across various fields that incorporates multiple criteria to reflect a wider range of information and perspectives, thereby reducing reliance on single-criterion assessments

## Materiality Assessment Results

Category	Priority	Relevant Issues	GRI Index
E	1	Expansion of policy support for climate change response	GRI 302, GRI 305
E	2	Management of air emissions (GHGs, hazardous pollutants)	GRI 305, GRI 416
G	3	Rising demand for transparency	GRI 2-1-2-29
E	4	Odor control and air quality improvement	GRI 305
E	5	Wastewater and waste discharge management and expanded recycling	GRI 303, GRI 306
S	6	Ensuring worker safety	GRI 403
S	7	Growing importance of global environmental professionals	GRI 404, GRI 405
E	8	Global expansion of environmental projects	GRI 201, GRI 203
E	9	Expanded adoption of renewable energy	GRI 302, GRI 305
S	10	Increased materiality of mutual growth with partner companies	GRI 204, GRI 308, GRI 414
G	11	Anti-corruption (integrity)	GRI 205, GRI 206
S	12	Increased accessibility to information (Internet, social media, etc.)	GRI 417, GRI 418
S	13	Growing need to respond to various laws and systems (government policies, subsidies, etc.)	GRI 2-27
E	14	Strengthening of environmental regulations	GRI 307
E	15	Environmental protection and restoration of natural habitats	GRI 304
E	16	Expanded support and investment in environmental sectors	GRI 201
S	17	Need to strengthen social contributions for marginalized groups	GRI 203, GRI 413
E	18	Environmental degradation	GRI 304, GRI 307
E	19	Intensifying competition for resource acquisition	GRI 203
E	20	Adoption of eco-friendly, high-efficiency vehicles and equipment	GRI 302, GRI 305

※ Issues where K-eco affects external factors (impact) / Issues where external factors (trends) affect K-eco

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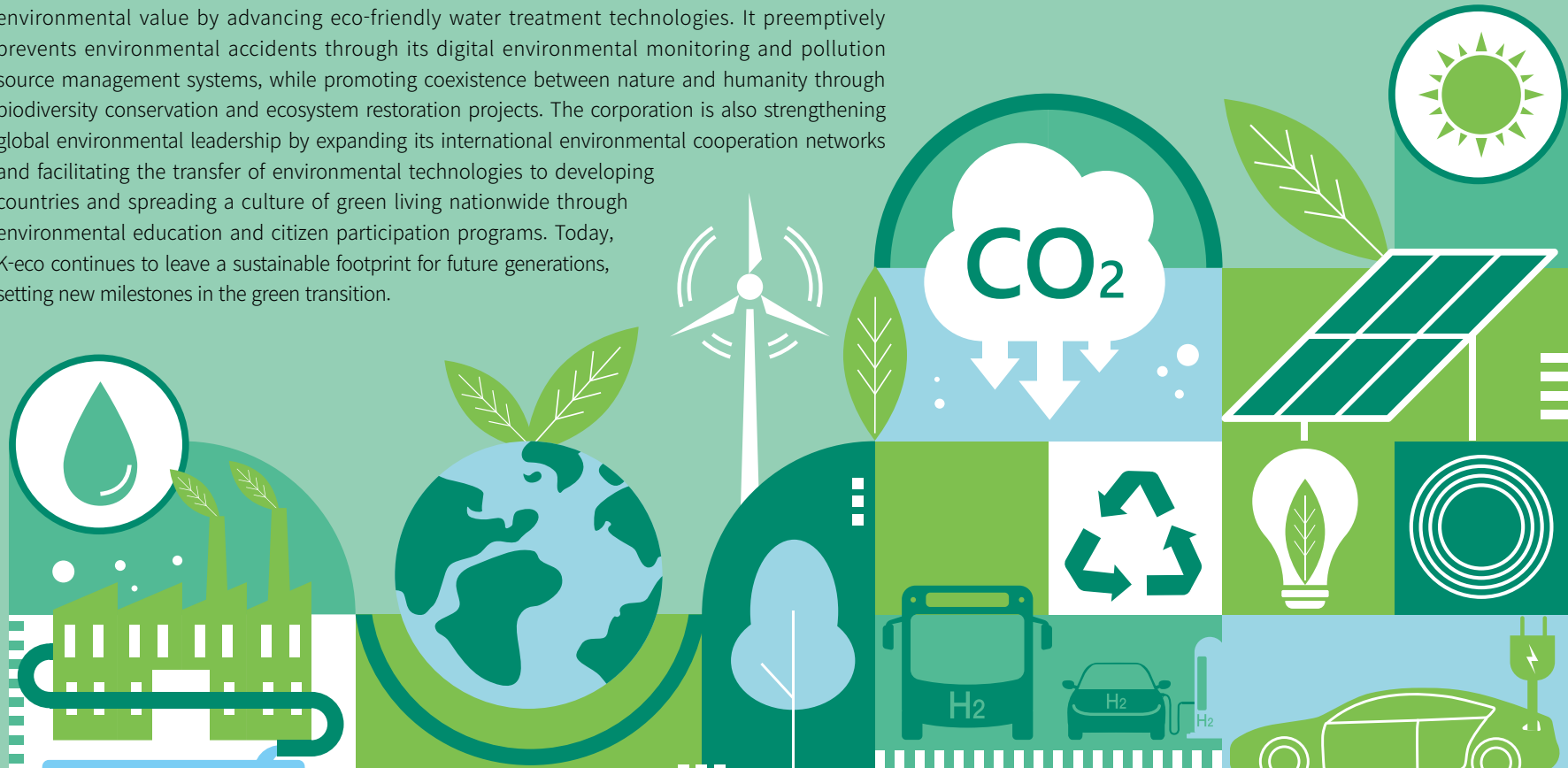
### Global Green K-eco

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**In the face of the climate crisis, K-eco is taking proactive steps to safeguard the global environment and lead the transition to a carbon-neutral society.**

As a key agent in the national environmental management system, K-eco operates the Emissions Trading System (ETS) to achieve national greenhouse gas reduction targets, supports low-carbon technological innovation, promotes a circular economy for waste resources, and creates sustainable environmental value by advancing eco-friendly water treatment technologies. It preemptively prevents environmental accidents through its digital environmental monitoring and pollution source management systems, while promoting coexistence between nature and humanity through biodiversity conservation and ecosystem restoration projects. The corporation is also strengthening global environmental leadership by expanding its international environmental cooperation networks and facilitating the transfer of environmental technologies to developing countries and spreading a culture of green living nationwide through environmental education and citizen participation programs. Today, K-eco continues to leave a sustainable footprint for future generations, setting new milestones in the green transition.



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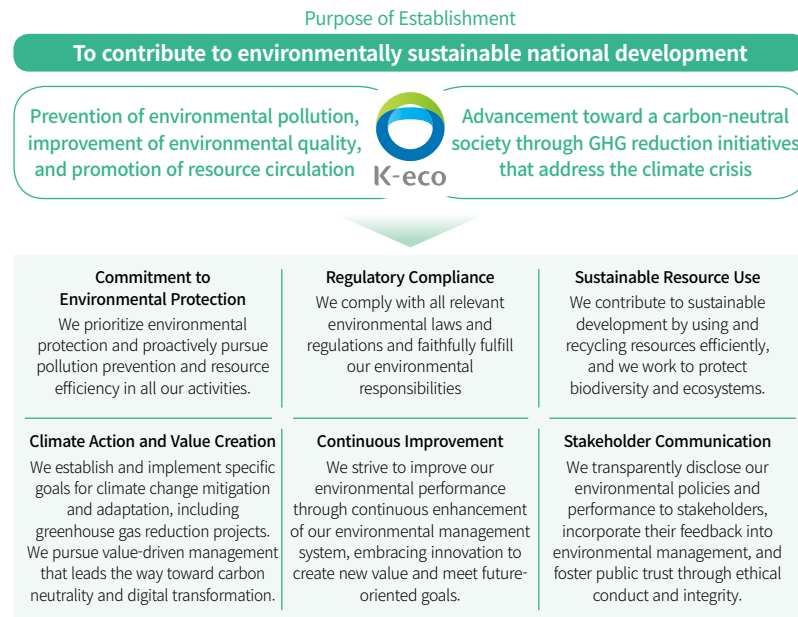
**Appendix**

# K-eco's Environmental Management System

## Environmental Management Policy

K-eco is a public institution leading the transition to a carbon-neutral society through the prevention of environmental pollution, promotion of resource circulation, and response to the climate crisis including greenhouse gas reduction. The corporation is committed to sustainable environmental management that contributes to eco-friendly national development. Grounded in its core values—trust, expertise, safety, and innovation—K-eco has set its management principles as future-oriented management, communicative management, safety management, and innovation-driven management to strengthen its environmental management system. The corporation continues to improve its environmental management system to enhance environmental performance and uphold its responsibility in organizational operations. Going forward, K-eco will continue to play a central role in realizing carbon neutrality and environmental conservation, paving the way for a sustainable future and expanding its presence as a global environmental institution.

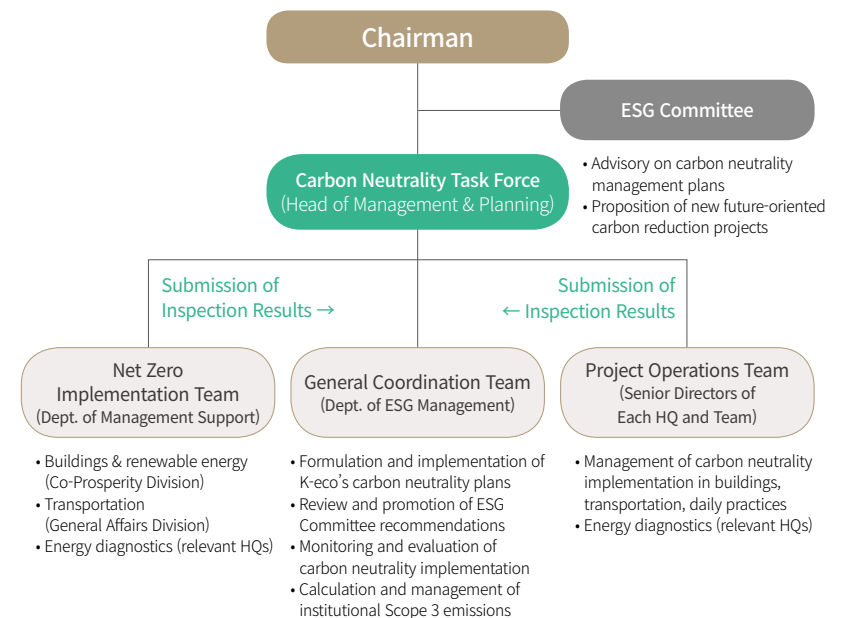
## K-eco's Environmental Management Framework



## Environmental Management Implementation System

K-eco operates a carbon neutrality task force with the goal of achieving carbon neutrality through environmental management. Led by the Head of Management & Planning, the task force comprises a General Coordination Team, Net-Zero Implementation Team, and Project Operations Team. Together, they systematically manage all efforts from reducing greenhouse gas emissions in buildings and transportation to overseeing the achievement of major project goals. More than just an operational unit, the environmental management framework functions as a strategic organization executing key initiatives toward carbon neutrality. Through regular meetings, it establishes plans, monitors performance, and solidifies K-eco's commitment to achieving its carbon-neutral goals.

## K-eco Carbon Neutrality Task Force Implementation Framework



# Environmental Management Performance

## Environmental Management System Certification

K-eco is leading the way in environmental management by setting proactive environmental targets to achieve carbon neutrality by 2040, establishing sector-specific strategic frameworks, pursuing energy self-sufficiency, and introducing eco-friendly shared mobility systems. Leveraging its expertise across the water, air, and resource circulation sectors, the corporation contributes to national carbon neutrality and improved quality of life for the public. In March 2025, K-eco achieved ISO 14001 Environmental Management System certification, thereby completing the ESG international certification grand slam and further solidifying its status as a global environmental authority.

**Minister of Environment Award**

2024 Environmental Data Analysis & Application Contest

**Minister of the Interior & Safety Award**

2024 Government Innovation in Digital Administration

**Minister of the Interior & Safety Award**

13th Korea Knowledge Awards

**Minister of the Interior & Safety Award**

13th Administrative Information Sharing Awards

**Award Winner**

2024 Oslof Energy Global Net Zero

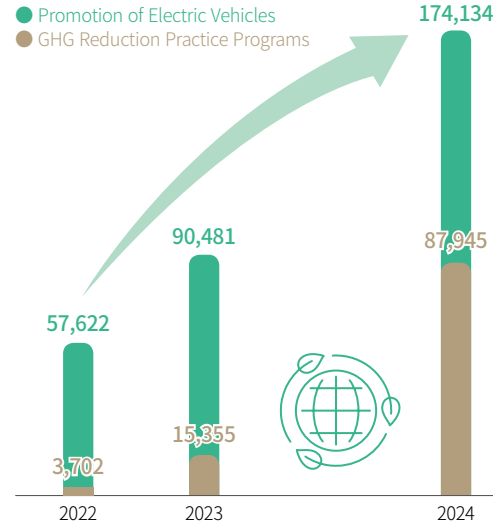


ISO 14001 Certification (Environmental Management System)

## Reduction Performance

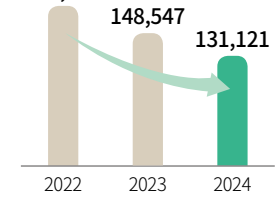
### GHG Reduction

(Unit: Ton)



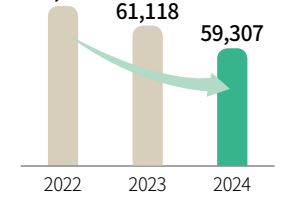
### Nitrogen Oxide Emissions

(Unit: Ton)



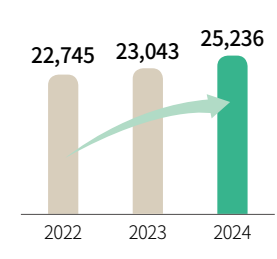
### Sulfur Oxide Emissions

(Unit: Ton)



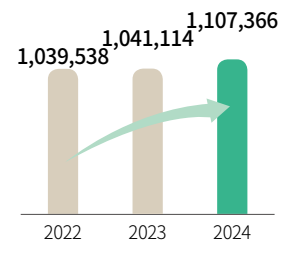
### Biogas Conversion

(Unit: CO<sub>2</sub>Ton)



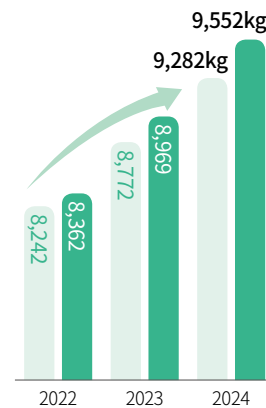
### Energy from Waste Resources

(Unit: TOE)

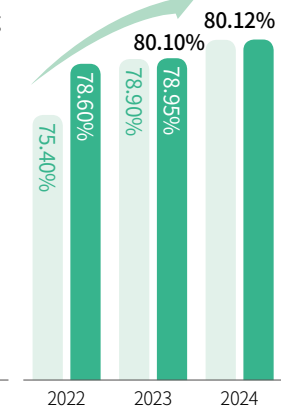


● Target ● Performance

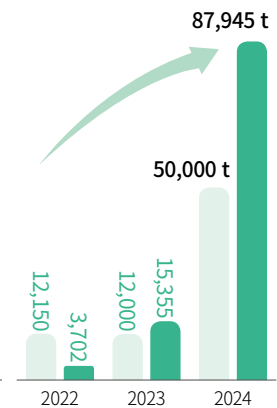
### E-waste Recycling Performance per Capita



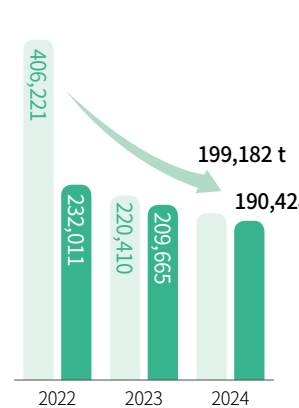
### National Resource Circulation Target Achievement



### Carbon Reduction from Carbon-Neutral Equipment Support



### Reduction in Air Pollutant Emissions from Business Sites



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# Environmental Management Performance

Target & Performance by Task, Climate Risk Analysis

○(0%)–◐(50%)–●(100%)

Strategic Tasks	Subtasks	Unit	2024	2025	2026	2027	2028	2029	Climate Risk Analysis (Achievement Rate Against 2024 Targets)			
			Performance	Target					Flood	Drought	Abnormal Temp.	Typhoon
Organizational Net-Zero by 2040	① Implementation of carbon neutrality scenario roadmap	Achievement of reduction targets (%)	9.3	17.9	28.8	38.0	47.5	49.1			◐	
	② Achievement of GHG target management system for public institutions	GHG reduction rate (%)	22.5	15.2	17.4	20.1	23.7	28.1			◐	
	③ Certification and management of environmental management system (ISO 14001)	Certification and maintenance (Head Office)	Establish foundation	Certification	Maintenance	Maintenance	Re-Certification	Maintenance			●	
	④ Operation and internalization of employee action model	Carbon emission reduction amount (t)	47	48	49	50	50	50			◐	
Support for National Carbon Neutrality Implementation	① Enhancement of GHG reduction-conscious budgeting system	GHG reduction volume for target projects (1,000 tCO <sub>2</sub> eq)	4,334	3,661	3,771	3,883	3,999	4,119			◐	
	② GHG reduction through refrigerant recovery	Carbon reduction volume (1,000 tCO <sub>2</sub> )	824	592	606	620	634	648			●	
	③ Advancement of Emissions Trading Scheme operations	Allocated amount (million t)	567	567	4th phase allocation (2026–2030) scheduled						●	
	④ Expansion of support for carbon neutrality basic plan	Consultations through carbon neutrality support center	47	57	78	100	100	100			●	
	⑤ Technical review of hydrogen charging stations installation plans	Technical reviews (units, cumulative)	216	273	319	365	411	457			●	
	⑥ Construction and operation of EV charging infrastructure	GHG reduction performance through promotion of EV (tCO <sub>2</sub> eq)	174,134	119,434	131,378	144,516	158,967	174,867			●	
Expansion of Circular Economy & Waste-to-Energy Initiatives	① Contribution to achieving national circular economy goals	Achievement of national circular economy targets (%)	80	81	82	83	Establishment of 1st basic plan for circular economy				●	
	② Advancement of future waste resource collection hub centers	Recycling performance of waste batteries (no. of batteries)	317	413	579	869	1,390	2,363	Excluded from analysis due to changes in measurement criteria			
	③ Strengthening of waste collection and recycling management	High-quality recycling volume (t)	3,476	1,780	1,958	2,154	2,369	2,606			●	
	④ Operation of packaging EPR (extended producer responsibility)	Recycled volume by packaging item (t)	1,551	1,574	1,598	1,621	1,644	1,667			●	
	⑤ Operation of environmental assurance system for electrical and electronic products	Waste electrical and electronic products recycling performance (kg/person)	9.55	8.79	9.19	9.60	10.01	10.48	Excluded from analysis due to changes in measurement criteria			
	⑥ Operation of recyclability evaluation system	Incineration/landfill reduction rate (%)	10	10	10	10	10	11			◐	
	⑦ Integrated biogas conversion and green hydrogen production from organic waste	Installation of production facilities (sites)	4	6	8	10	12	14			●	
Environmental Services in Response to Climate Crisis	⑧ Demonstration project for pyrolysis-based chemical recycling of agricultural waste vinyl	Chemical recycling volume (1,000 t)	Complete facility installations	Begin operation (June) 3.60	7.20	7.20	8.60	8.60				
	① Establishment and operation of basin sewage support centers	Technical support for sewerage by basin (cases)	112	115	120	125	130	135	●			●
	② Laying the foundation for a metropolitan reclaimed water supply network	Technical support for water reuse (cases)	94	98	102	106	110	114	●	●		
	③ Development and provision of flood risk maps	Development of flood risk maps (sites, cumulative)	10	20	30	40	50	60		●		●
	④ Total management of workplace air pollutant emissions	Achievement rate of reduction targets (%)	100	100	100	100	100	100			●	
	⑤ Establishment of real-time monitoring system using IoT for small-scale workplaces	Remote monitoring workplaces (sites)	21,724	50,000	50,000	50,000	50,000	50,000			◐	
	⑥ Implementation of restrictions on operation of aged vehicles	Restriction performance (10,000 vehicles)	158	147	121	109	97	85			◐	

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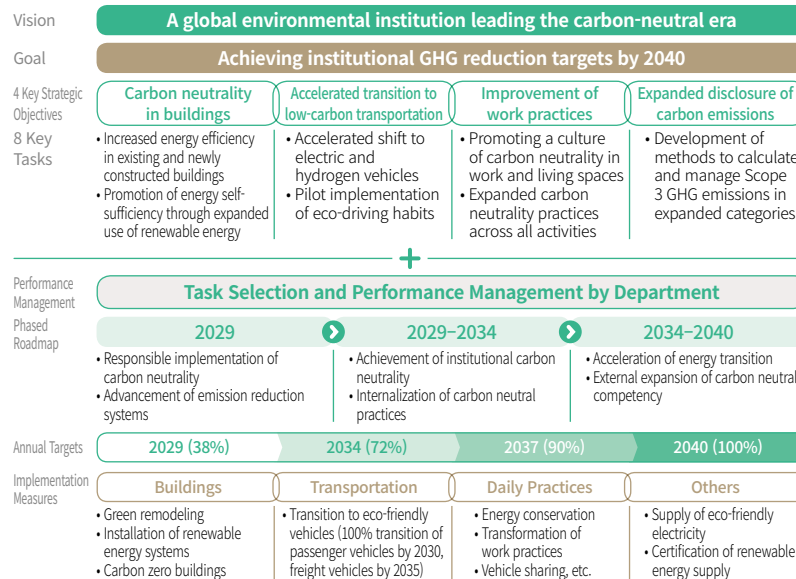
# Carbon Neutrality by 2040

## Strategy for Identifying Climate-Related Risks & Opportunities

### From 2050 to 2040: A Proactive Carbon Neutrality Framework

K-eco is implementing a structured carbon neutrality roadmap aimed at reducing greenhouse gas emissions by 100% by 2040. Through a comprehensive analysis of emission sources across the organization, K-eco develops optimal reduction scenarios and builds department-specific execution frameworks based on voluntary participation to achieve real reductions. Grounded in the IFRS S2 framework, the corporation proactively identifies physical and transition risks posed by climate change and assesses their short-, medium-, and long-term business impacts, which are then reflected in K-eco's mid-to-long-term business strategy. Sector-specific strategies—covering buildings, transportation, and daily practices—link internal reduction efforts with external drivers to enhance the execution of mid-to-long-term strategies. To effectively meet carbon neutrality goals, K-eco also operates a feedback mechanism that incentivizes performance by awarding mileage and recognizing best practices, thereby reinforcing motivation and continuous improvement.

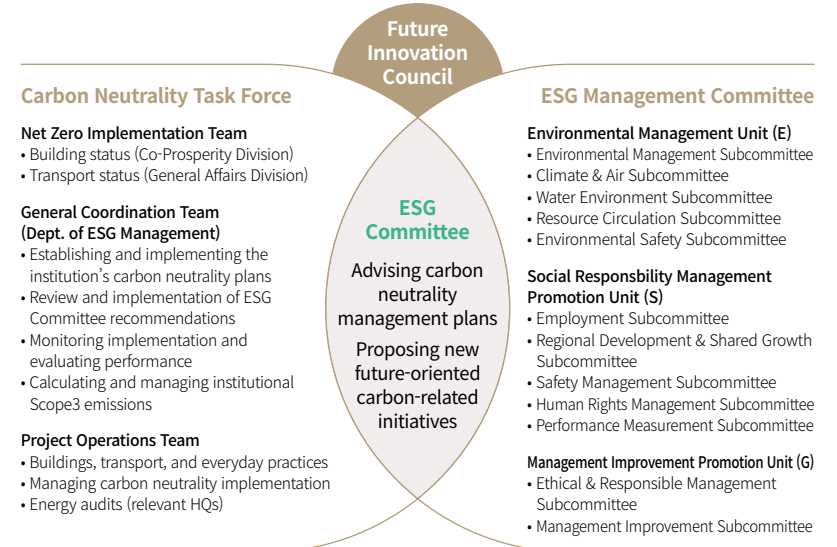
### 2040 Carbon Neutrality Strategy & Roadmap



### Climate Change Response Governance

To respond to environmental changes and foster future growth, K-eco operates an ESG Committee comprising 25 internal and external experts. This committee monitors the implementation of ESG goals and advises on major carbon neutrality strategies, while also supporting national-level initiatives such as the operation of the Climate Response Fund and the Emissions Trading System (ETS). The committee's work is integrated with the expertise of the Future Innovation Council, forming a governance model that links technology and management. Discussions and recommendations from the committee are reported to the Board of Directors and incorporated into corporate decision-making.

### Roles of the Board and Management in Overseeing Climate Change Risks & Opportunities



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# Carbon Neutrality by 2040

## Toward Net-Zero Buildings: An Energy-Self-Sufficient, Carbon-Neutral Air Quality Monitoring Station Model

To promote energy self-sufficiency starting with small-scale energy-use facilities, K-eco has developed a model for an energy-self-sufficient, carbon-neutral air quality monitoring station. Among the 810 air quality monitoring stations nationwide, the corporation operates 197 stations that emit approximately 1,500 tons of carbon annually (7.6 tons per station). Including 613 stations managed by local governments, the total annual carbon emissions amount to 4,685 tons. Given that each monitoring station occupies a compact space averaging 12 pyeong (approx. 39.7 m<sup>2</sup>) yet consumes more than five times the electricity of a typical household, K-eco sought to overcome solar panel installation constraints and maximize power generation through optimal efficiency analysis. By improving HVAC system performance and minimizing energy usage, the corporation has demonstrated a model of a NET-ZERO energy-self-sufficient building. This pilot project is positioned as a leading example, promoting carbon neutrality by expanding to all 810 monitoring stations nationwide across both K-eco and local governments.

### Air Quality Monitoring Station

#### Renewable Energy Generation

Analysis of structure and solar exposure by station

Selection of sites suitable for energy self-sufficiency and installation of additional solar panels

Hwasun monitoring station achieved energy self-sufficiency with six consecutive months of zero electricity costs

#### Energy Use Reduction

Analysis of auxiliary facilities, structure, and solar exposure

44% reduction in HVAC space at 15 stations / Installation of rooftop solar-reflective structures at 18 stations

Monthly energy savings: 4,093 kWh (equivalent to 1.9 tons of carbon per month)

### Design & Completion of Energy-Self-Sufficient Monitoring Stations

Installation of 12kW power generation systems, Zoning of HVAC-only areas, IoT-based energy management

A scalable carbon-neutral station model for expansion from K-eco to local governments



## Smart Lighting & Standby Power Reduction Devices

K-eco has proactively adopted smart lighting systems and standby power reduction devices, achieving a 31% reduction in electricity consumption and setting a model example of leveraging innovative technologies to reduce greenhouse gas emissions. Despite challenges such as 84% of facilities being leased properties and the need for constant operation of IT and laboratory equipment, the corporation successfully applied the latest energy-saving technologies with measurable impact, complemented by heightened staff awareness and broader technology dissemination. In particular, the introduction of smart lighting in the Chairman's and executives' offices is expected to reduce greenhouse gas emissions by an additional 679 tons annually when expanded across the organization—equivalent to approximately 5% of K-eco's total emissions.

### Smart GHG Reduction Technologies

#### Office Lighting Individual Control System

More than 40% of ceiling lights turned off in vacant desks during business trips, leave, etc.

#### Digital Timer Switches for Individual Power Outlets

Automatic power cut-off during lunch hours and at the end of the workday / Standby power automatically disabled



Korea Government Expo (popular characters and booths)

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# Carbon Neutrality by 2040

## Leading the Way to Carbon Neutrality through Eco-Friendly Shared Mobility Solutions

K-eco has become the first public institution to introduce eco-friendly shared mobility solutions into its operations, establishing itself as a leader in carbon neutrality. By expanding SOCAR vehicle sharing among its 1,888 employees and offering discounted rates, the corporation reduced vehicle usage by 10%, resulting in an annual reduction of 10.7 tons of carbon emissions. Additionally, in partnership with Kakao Mobility, it encouraged employees and their families to use shared bicycles, achieving an additional 2.2-ton reduction. In total, these efforts cut 12.9 tons of carbon—equivalent to the annual carbon sequestration of 92 pine trees—and have since been adopted by the National Institute of Environmental Research, setting a benchmark for carbon neutrality in the public sector.

### Achievements in Eco-Friendly Shared Mobility

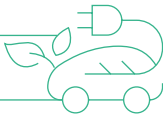
No. of Employee & Family Users	Total Trips / Distance Traveled		<ul style="list-style-type: none"><li>Total eco-friendly travel distance: 127,952 km (equivalent to planting 92 pine trees)</li><li>Fleet reduction: 23 vehicles (introduction of vehicle quota management system)</li></ul>
6,350	4,502 trips / 16,449 km		
No. of Employee & Family Users	Total Trips / Distance Traveled		
6,350	937 trips / 111,503 km		

## Limiting Carbon Emissions through Fleet Management

To meet its carbon neutrality goals, K-eco has implemented strict fleet size management and actively encouraged the transition to eco-friendly vehicles. Over the past four years, it has reduced its fleet by 25 vehicles and replaced 39 internal combustion engine vehicles with low-emission alternatives, curbing total vehicle mileage and emissions. Additionally, low-usage vehicles were converted to shared use, and eco-friendly models were prioritized in new purchases. These systematic fleet management practices have yielded tangible reductions in transportation-related carbon emissions.

### Achievements in Eco-Friendly Vehicle Introduction

A total of **980,000** km in vehicle mileage reduced, annual emissions reduced by **534 tCO<sub>2</sub>eq**



## Expansion of Scope3 Disclosure & Comprehensive Emissions Management

As part of its responsibility as a specialized environmental institution, K-eco significantly expanded its Scope 3 emissions disclosure in 2023 from selected items to all categories. In addition to previously reported areas such as business travel and commuting, the scope was expanded to include upstream transportation and waste, resulting in additional calculation of 210 tons. The reflection of over 20,000 data entries resulted in the increase of another 312 tons. As a result, K-eco's total Scope 3 emissions for 2023 reached 954 tons (based on 2024 calculations), marking a 94% increase from the previous year. This detailed carbon footprint analysis of all corporate activities strengthens the foundation for systematic carbon management and will guide the K-eco's leadership in future Scope 3 disclosures.

### Roadmap for Scope 3 Emissions Management

2024 Establish basic plan	2025–2026 Calculate emissions across all categories	2027–2029 Manage emissions
<p>Prepare measures for expanded disclosure &amp; emissions management</p> <p>Conduct full survey of Scope 3 management areas / Phased expansion of disclosure</p>	<p>Expand scope of estimation criteria (15 categories)</p> <p>Establish Scope 3 estimation criteria (by 2025) and complete organization-wide estimation (by 2026)</p>	<p>Prepare measures for expanding disclosure &amp; managing emissions</p> <p>Develop management plans per category and track emissions reduction performance</p>

### Disclosure Categories & Estimation Data

Criteria	Expanded Scope	Expanded Data Points	Improved Reliability
	2 additional categories (+ 210 t)	Expansion to cover all business travel and waste data (26,000 additional data points, + 312 t)	Use of emission factors with higher reliability (- 60 t)
Previous (2022, based on 2023 calculations)	2 categories (business travel, commuting)	(Travel) 256 cases, international flights (Waste) 5,650 cases, Head Office waste only	Factors used: US EPA (travel), KEITI Q&A (volume-based waste density: 0.25)
Improved (2023, based on 2024 calculations)	4 categories (business travel, commuting, upstream transportation/ distribution, waste)	(Travel) 22,000 cases, all transportation types (Waste) 10,253 cases, organization-wide	Factors used: ICAO (travel), Ministry of Environment statistical basis (volume-based waste density: 0.171)

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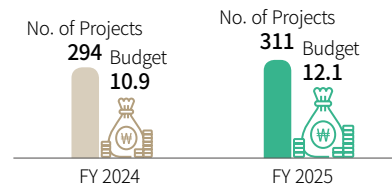
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# Saying Goodbye to Carbon spearheading Carbon Neutrality

## Leading Carbon Neutrality in the Public Sector & Expanding Local Implementation

K-eco supports the achievement of national greenhouse gas reduction targets through the systematic planning and management of carbon neutrality budgets. A total of 85 new projects contributing to greenhouse gas reduction were identified, and both the number of projects and budget size were expanded from the previous fiscal year. The first round of reduction-informed settlements was conducted, and performance analyses of budget planning and execution were carried out to enhance the effectiveness of the system. The operational structure of the Climate Response Fund was also improved to enhance project efficiency, and standardized methodologies for calculating greenhouse gas reductions as well as optimized budget formulation guidelines were provided to reduce the administrative burden on government ministries. As a result, the volume of greenhouse gas reductions increased by 13.8%, from 1.522 million tCO<sub>2</sub>eq to 1.732 million tCO<sub>2</sub>eq compared to the previous year. K-eco will continue to manage carbon neutrality budgets efficiently and maximize GHG reduction effectiveness, taking the lead in the realization of carbon neutrality.

### Expansion of Projects Covered by GHG Reduction-Conscious Budget System

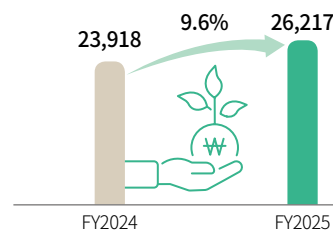


### First Settlement Results of the Reduction-Conscious Budget System (FY2023)

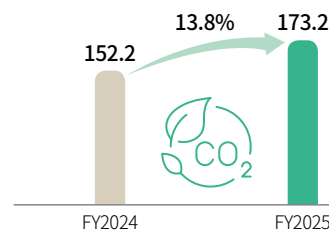
No. of Projects	287
Execution Rate	91.5% of KRW 11.6 trillion
Reduction	(Single year) 3.44 million t (103% overachievement)

### Climate Response Fund Efficiency Improvement

#### Climate Response Fund Budget (KRW 100 million)



#### GHG Reduction Effect of Climate Response Fund (10,000 tCO<sub>2</sub>eq)



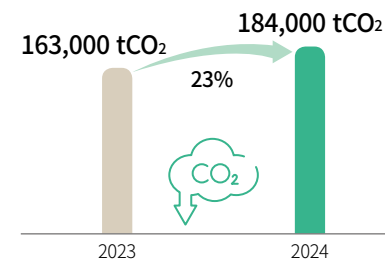
## Leading Carbon Neutrality in the Public Sector & Reaching Out to Local Governments

In line with the national NDC (Nationally Determined Contribution) targets, K-eco revised greenhouse gas reduction goals for 804 agencies and 36,000 facilities subject to the target management system. A practical model of the “Smart Energy Control Office” was launched to verify its greenhouse gas reduction effects, with the aim of scaling it as a public-sector implementation model under the “Smart ECO” framework. Following the enactment of the Framework Act on Carbon Neutrality and Green Growth for Coping with Climate Crisis in 2022, legal obligations for carbon neutrality were imposed on local governments. In response, K-eco supported the development of basic plans for carbon neutrality and green growth for 243 local governments and organized the nation’s first local carbon neutrality implementation council. Customized technical support was provided to match local conditions, thereby strengthening regional reduction capacity and actively contributing to the realization of locally driven carbon neutrality. As a result, these efforts for carbon neutrality and green growth were recognized with a presidential commendation.

### Smart Energy Control Office Practical Model Performance

Lighting	Establishment of IoT-based smart lighting system	A Practical Model for Public Sector Reduction	
Office Equipment	PCs off during lunch and standby power auto-off at night/weekends	Entire Corporation	31% energy reduction, 679 tCO <sub>2</sub> expected reduction
Monitoring	Real-time monitoring and analysis of electricity use	Expansion to Public Sector	80,740 tCO <sub>2</sub> expected reduction

### GHG Reduction through Public Sector Target Management



Presidential commendation for carbon neutrality and green growth

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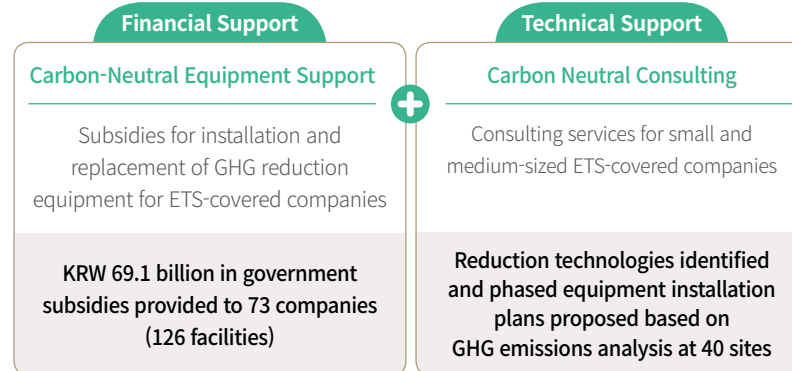
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# Saying Goodbye to Carbon Spearheading Carbon Neutrality

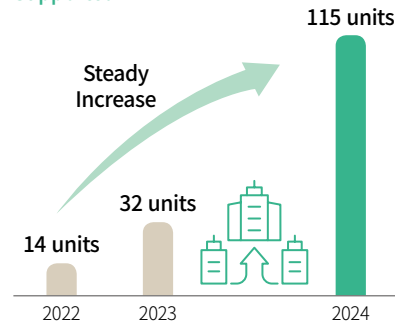
## Tailored Support for Corporate GHG Reduction

K-eco provides financial and technical support tailored to business needs, aiming to ease the burden on companies during the greenhouse gas reduction process and ensure substantial results. Through its carbon neutral equipment support program, approximately KRW 69.1 billion in national subsidies were provided to 73 companies to facilitate the adoption of greenhouse gas-reducing equipment. Carbon neutrality consulting services were offered to 40 business sites, analyzing their emission status and suggesting phased reduction strategies. These efforts helped reduce the economic and technical burdens on companies and enhanced the effectiveness of greenhouse gas reduction.

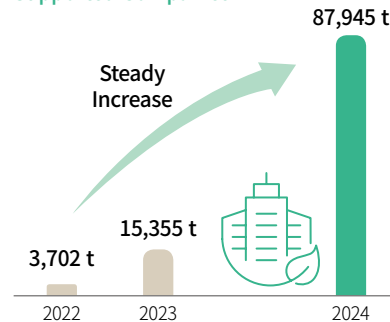
### Corporate Support Activities



### No. of GHG Reduction Equipment Supported



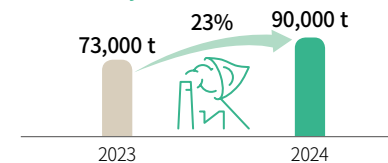
### GHG Reduction Achieved by Supported Companies



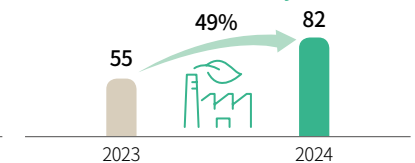
## Enterprise & Citizen Involvement Toward a Carbon-Neutral Society

K-eco is expanding green management by fostering collaboration between large corporations and SMEs and encouraging the transition to eco-friendly factories through pre-consultations and briefings. A total of KRW 79.3 billion in subsidies was provided to 98 companies, and customized project management was implemented to realize greenhouse gas reduction. Participation in the carbon neutral point (energy) system was expanded by 49%, and new incentives (10% consumer reimbursement) were introduced for small business owners, increasing citizen participation. As a result, the number of participants in the point system grew by 880,000. K-eco will continue to expand support and cooperation to build a carbon-neutral society driven by both enterprises and citizens.

### GHG Reductions from Transition to Eco-Friendly Factories



### No. of Companies Participating in the Carbon Neutral Point System



Carbon Neutral Point/Practicing Green Life website

※ Under the Ministry of Economy and Finance's public institution innovation plan, the operation of the carbon neutral point system will be transferred from K-eco to KEITI in 2025.

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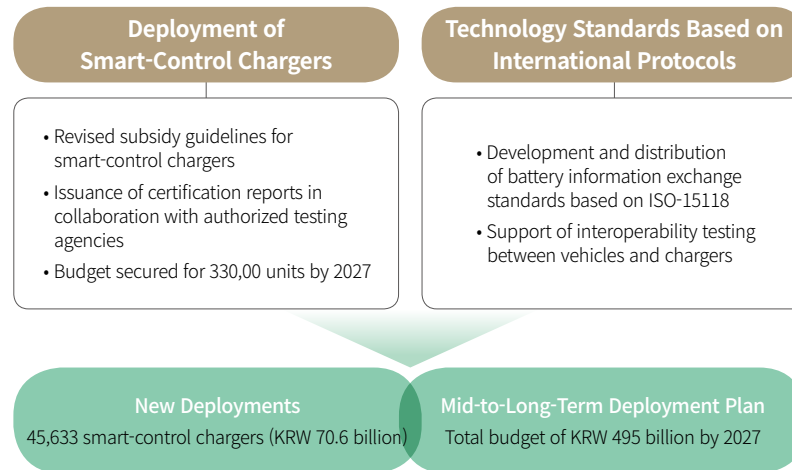
# Saying Goodbye to Carbon Future Mobility

## Support for Smart Charging Infrastructure

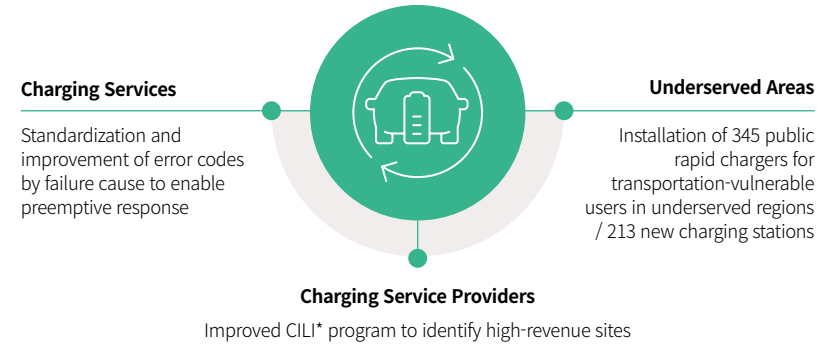
To ensure the safety and reliability of electric vehicle charging, K-eco is promoting the dissemination of smart-controlled chargers\* and the establishment of technical standards based on international protocols. Systematic subsidy program management is being strengthened through institutional improvements, enhanced business oversight, and training, allowing for transparent use of national subsidies and efficient administration of EV charging incentives. Support for site identification is expanding the participation of private charging service providers, and public charging stations are being installed in underserved areas to address gaps in charging infrastructure. Countermeasures such as error code standardization and preventive inspections of aging chargers are also being implemented to reduce charger malfunction. These efforts aim to activate the private charging ecosystem, eliminate blind spots, and establish a stable charging infrastructure that supports EV proliferation.

\* Smart-controlled chargers: Devices that enable communication between electric vehicles and chargers to collect battery information and manage charging processes

### Stable EV Charging Infrastructure

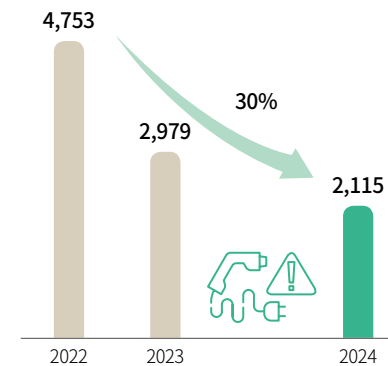


## Improvements to Activate the Private Charging Ecosystem



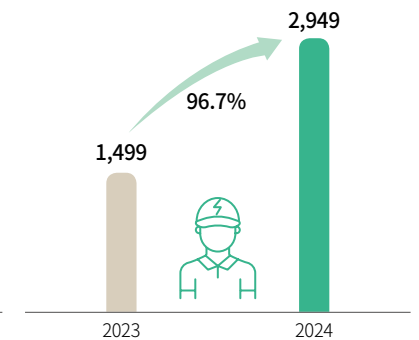
\* CILI (Charging Infrastructure Location Index): An index that classifies candidate sites for EV chargers into Grades 1 through 5 based on projected demand

### No. of Charger Malfunctions (Cases)



### No. of Participating Private Rapid-Charging Service Providers

As of 2024 application data for private charging operators



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# Saying Goodbye to Carbon Future Mobility

## Expanding Private Participation for Hydrogen Charging Infrastructure

In accordance with the Hydrogen Charging Station Strategic Deployment Plan (November 2021), K-eco is expanding support for the private sector to achieve mid-to-long-term targets\*. Efforts include identifying suitable sites and improving regulations to enhance the convenience and reduce the burden on private businesses. These initiatives are strengthening the foundation for a stable hydrogen charging environment and promoting private-sector cooperation to accelerate the hydrogen economy.

\* Hydrogen charging station targets (cumulative): 385 by 2024 → 450 by 2025 → 660 by 2030 (Hydrogen Economy Committee)

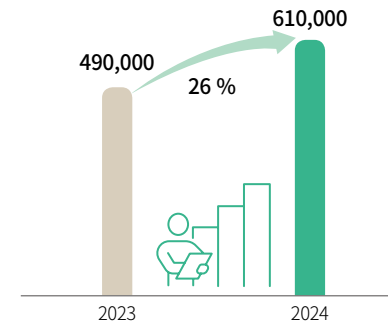
### Hydrogen Charging Infrastructure Support Program

Initiatives		Achievements
<ul style="list-style-type: none"> <li>Proposition of revised subsidy standards to support a wider range of hydrogen vehicle models (including mobile, storage-type, and on-site production models), with adjustments reflecting inflation and material cost increases</li> </ul>		Draft revision of subsidy criteria for hydrogen stations
<ul style="list-style-type: none"> <li>Help Desk operation via official website to connect landowners, local governments, and developers, encouraging participation from both public and private landholders</li> </ul>		49 land suitability reviews conducted, 17 installation plans approved
<ul style="list-style-type: none"> <li>Regulatory improvements proposed to facilitate station construction by reducing technical review period from 15+ days to within 10 days</li> </ul>		Drafts revision of manuals and regulatory reforms (10 cases)
<ul style="list-style-type: none"> <li>Information session on hydrogen bus transition for metropolitan commuter buses (1 session)</li> <li>Workshops to expand hydrogen charging infrastructure (2 sessions)</li> <li>Promotional videos for enhancing public perception of hydrogen stations (3 videos)</li> </ul>		Three outreach sessions held for responsible personnel, plus promotional video production

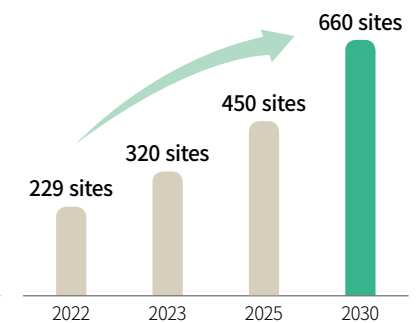
## Enhancing Convenience for Future Mobility

To promote the adoption of future mobility solutions, K-eco is improving its integrated online platform to provide uninterrupted service and expanded information access. In October 2024, big data analysis features were introduced to offer customized services for electric vehicle users and charging service providers, resulting in increased platform usage. A Disaster Recovery Center was established in April 2024 to prepare for emergencies, with biannual drills and response manual updates to reinforce service stability. Additionally, internationally standardized eco-driving information is being provided to promote daily practices of greenhouse gas reduction, marking a first in the global environmental sector.

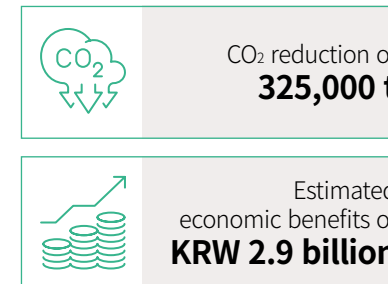
### No. of Platform Users



### Hydrogen Charging Station Constructions (Cumulative)

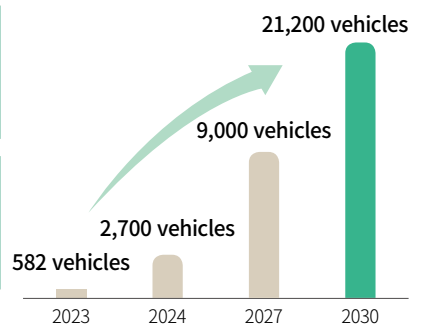


### International-Standard Eco-Driving Effects



※ Based on 2023 registered vehicle count and emissions trading price

### Hydrogen Bus Deployment



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# Saying Goodbye to Carbon Promoting Carbon Neutrality

## Promoting Reduction Activities through the Emissions Trading System

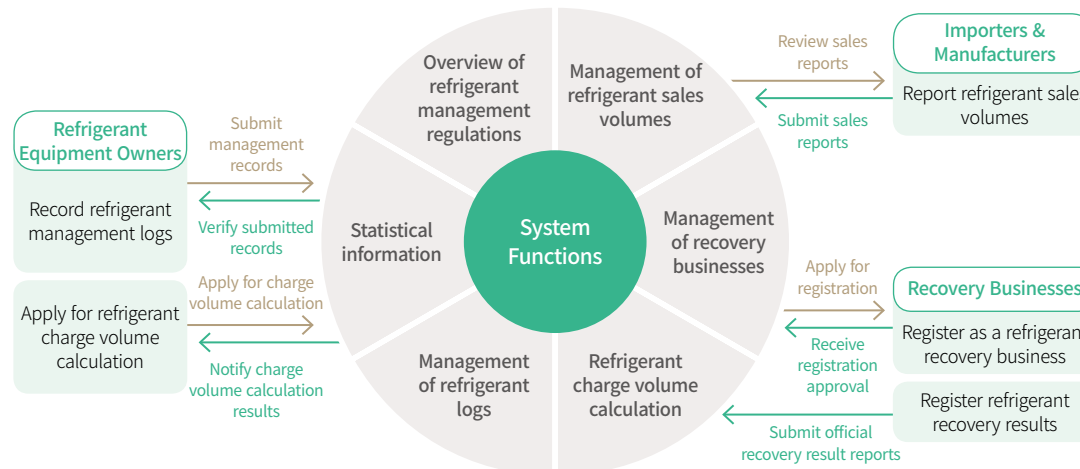
K-eco contributes to the achievement of national greenhouse gas reduction targets through robust management of the Emissions Trading System (ETS), which manages the source of more than 70% of the country's greenhouse gas emissions. International best practices are analyzed and adapted to improve the system, including incentives that promote the transition from coal to cleaner fuels such as LNG, resulting in a 16.5 million ton CO<sub>2</sub> reduction in the power generation sector. K-eco also issues monthly carbon market newsletters, supports the registration of new reduction methodologies, and provides technical reviews for emerging reduction technologies, establishing a foundation for corporate participation in new reduction activities. Ongoing institutional refinements aim to expand reduction activities and enhance evaluation reliability, thereby accelerating the realization of national carbon neutrality.

\* Power generation sector GHG reduction: 214 million tCO<sub>2</sub>eq 2023 → 197 million tCO<sub>2</sub>eq 2024, 8% decrease

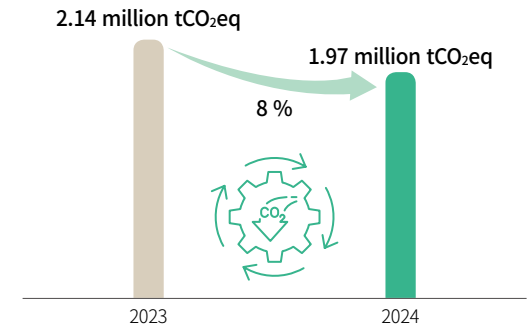
## Digital Transformation of Refrigerant Management

To lead refrigerant management in the public sector, K-eco has established a digital management system for non-regulated refrigerant equipment, which were previously managed manually. The new system enables full-cycle tracking of refrigerant recovery, refilling, and disposal. The digitization of refrigerant equipment management is being further expanded to build a comprehensive refrigerant inventory and promote national refrigerant management and regional carbon neutrality.

### Refrigerant Information Management System ([www.rims.or.kr](http://www.rims.or.kr))



## Emissions from Coal-to-Alternative Energy Transition (Tons)



ETS-INSIGHT  
(a monthly newsletter covering the ETS and the carbon market)

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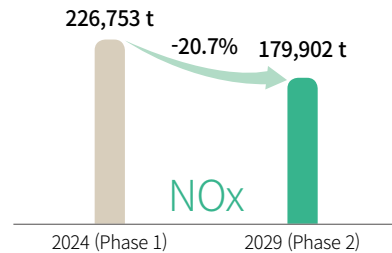
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## Reduction of Air Pollutants at Large-Scale Emission Sites

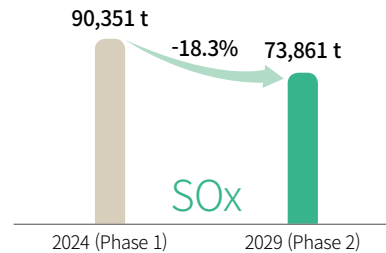
In preparation for the second phase of total pollutant emission allocation (2025–2029), K-eco is enhancing tailored support for large-scale emission sites. By refining the classification system for emission facilities and optimizing allocation criteria based on industry-specific characteristics, the risk of over- or under-allocation has been minimized. In addition, the system has been made more flexible by introducing mechanisms such as emission borrowing and external reduction activities, thereby alleviating the burden on businesses. K-eco also provides technical support and full-cycle, integrated management for pollution facilities, achieving a 32% reduction in air pollutant emissions and reducing fugitive dust emissions to 0.1 tons per storage yard. Through strengthened management of major emission sites, K-eco continues to contribute to improved air quality.

### Total Emissions Cap Reduction

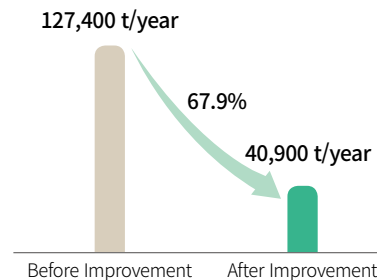
#### Nitrogen Oxides



#### Sulfur Oxides



### Compliance Monitoring for PM2.5 Emission Standards



### Join Inspections with regional offices (174 sites)



Non-compliant sites (6 sites)  
 ▶ Secondary monitoring and guidance on improvements

## Fostering the Biogas Industry Ecosystem

K-eco is leading the development of a biogas industry ecosystem that utilizes organic waste resources such as livestock manure and food waste. Designated as the exclusive institution responsible for the operation and management of the biogas production target scheme to be launched in 2025, K-eco has established a dedicated center and is building an implementation framework for target achievement. To expand biogas production and use, efforts are underway to increase the number of integrated biogas facilities, revise relevant urban gas regulations, and initiate public calls for hydrogen production projects. Through full-cycle management from production to utilization, K-eco is successfully fulfilling its role as the biogas control tower and aims to reduce annual greenhouse gas emissions by 1 million tons and generate LNG substitution benefits worth KRW 299.4 billion by 2026.

### Management Framework to Implement the Biogas Production Target Scheme

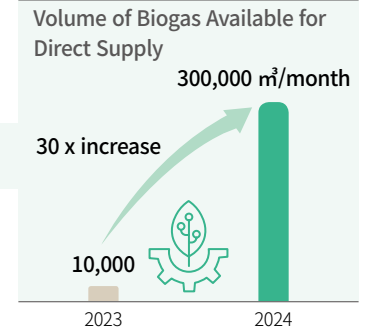
Category	Achievements
Standards (Regulations)	Establishment of detailed guidelines for the biogas production target scheme (Dec 2024)
Organization (Center)	Opening of a biogas center within K-eco (Oct 2024)
Tools (Systems)	Initial development of Bio-Gas Smart System (BGSS) underway (Jan 2024)



The Biogas Center opening ceremony

### Full-Cycle Biogas Management

Category	Achievements
Production	Expansion of integrated biogas production infrastructure (8 facilities)
Distribution	Revision of the Enforcement Rules of the City Gas Act (Oct 2024)
Utilization	Competitive selection for 2 new facilities and launch of a feasibility study on high-value utilization of biogas (Sep 2024)

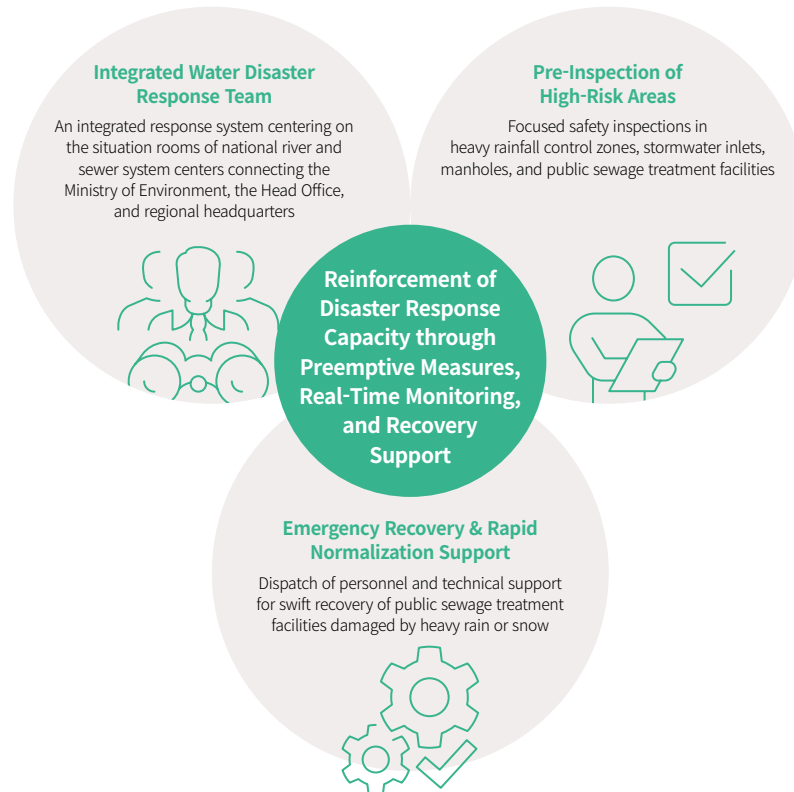


# Climate Crisis Response

## Proactive Water Disaster Prevention through a Year-Round Response System

To preemptively address the impacts of climate change, K-eco has established an integrated water disaster response team, which remains on standby to respond to disasters such as heavy rainfall. The corporation conducts pre-inspections of high-risk areas, including those prone to flooding and designated as heavy rainfall control zones, and provides technical assistance to ensure rapid restoration of damaged public sewage treatment facilities. This comprehensive system covering prevention, real-time monitoring, and post-disaster recovery continues to strengthen K-eco's ability to respond to water-related disasters caused by climate change.

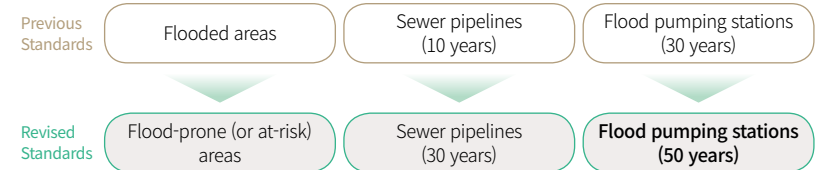
### K-eco's Year-Round Water Disaster Response System



## Zero Urban Flood Damage

K-eco implements customized countermeasures to prevent urban flooding caused by extreme rainfall. The corporation has carried out regulatory reforms by strengthening the minimum design frequency standards for sewer systems and flood pumping stations and expanding the designation of priority management zones for sewer maintenance. As a result, areas where urban flood prevention projects have been completed (57 sites) have reported no flood damage. K-eco has also developed flood risk maps based on rainfall simulation models and distributed them to local governments and construction site managers. By conducting simulation-based training, clearing stormwater inlets in high-risk areas, and facilitating evacuation and traffic control when flooding is expected, the corporation is enhancing the practical utility of these maps and safeguarding the public. K-eco proactively identifies high-risk zones and minimizes harm to residents, thereby taking the lead in building safer urban environments free from flood risk.

### Regulatory Reforms



Public awareness campaign for urban flood prevention in Gwangmyeong-si

**Minister of Environment Award (Grand Prize)**  
for developing a predictive model for ground subsidence in aging sewer pipelines

2024 Environmental Data Analysis & Application Contest



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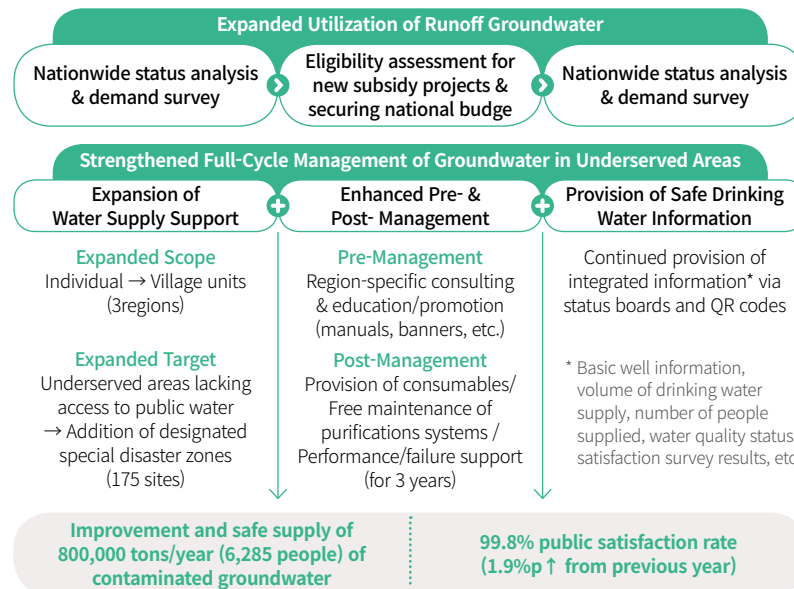
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# Climate Crisis Response

## Establishing a Sustainable Water Management System

To address potential water shortages caused by the climate crisis, K-eco is strengthening groundwater management to establish a sustainable water management system. Each year, approximately 124 million tons of runoff groundwater go unused. To turn this into an alternative water resource, K-eco secured a national budget of KRW 4 billion annually over four years to support 40 facility projects, with the 2025 project sites already selected. The program is expected to supply 500,000 tons of groundwater annually for heating and cooling, clean roads, and park development. In particular, when used for heating and cooling, this initiative is projected to reduce carbon emissions by 205 tons per year and generate economic benefits worth KRW 7.3 billion. In 2025, K-eco plans to expand the national subsidy program for runoff groundwater utilization facilities. To ensure safe drinking water, K-eco also designated underserved regions lacking access to public water as special disaster areas. By reinforcing full-cycle management, it improved and safely supplied 800,000 tons of contaminated groundwater per year, achieving a 99.8% satisfaction rate among residents.

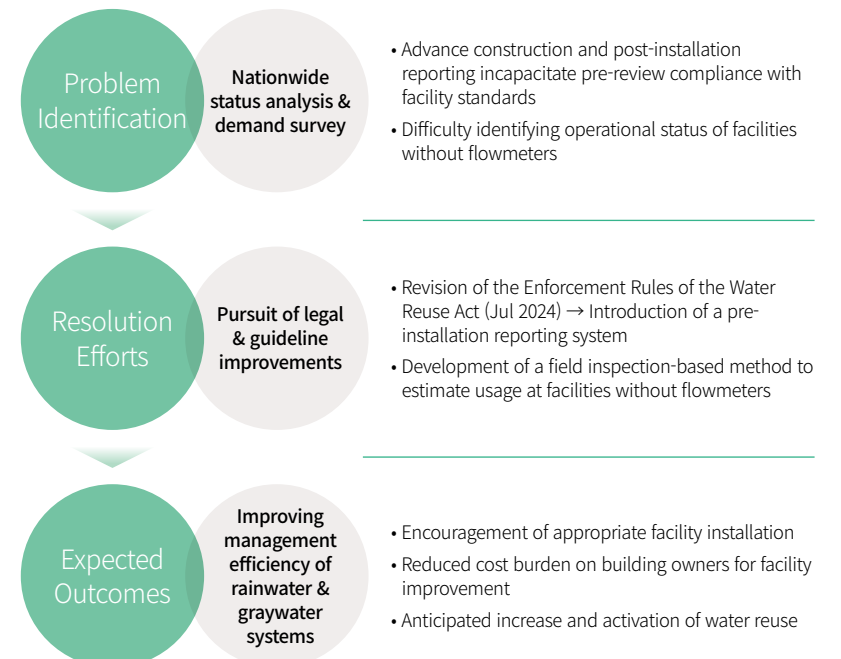
### Strengthening Groundwater Management to Address Water Shortage



## Improving Management of Rainwater Harvesting & Graywater Systems

K-eco is working to revitalize water reuse through improved management of rainwater harvesting and graywater systems. While the number of rainwater and graywater water facilities has steadily increased, average annual usage has grown by only 1.5%, indicating limited practical utilization. To address this, K-eco revised the Enforcement Rules of the Water Reuse Act in July 2024, shifting the facility registration process from post-installation to pre-installation reporting. The corporation also updated its operational guidelines for water reuse facilities, including guidance on estimating usage in facilities lacking flow meters based on field inspections. These regulatory improvements aim to ensure appropriate facility installation, promote active water reuse, and establish a stronger foundation for managing rainwater and graywater systems effectively.

### Streamlined Management System for Rainwater Harvesting & Graywater Reuse Facilities



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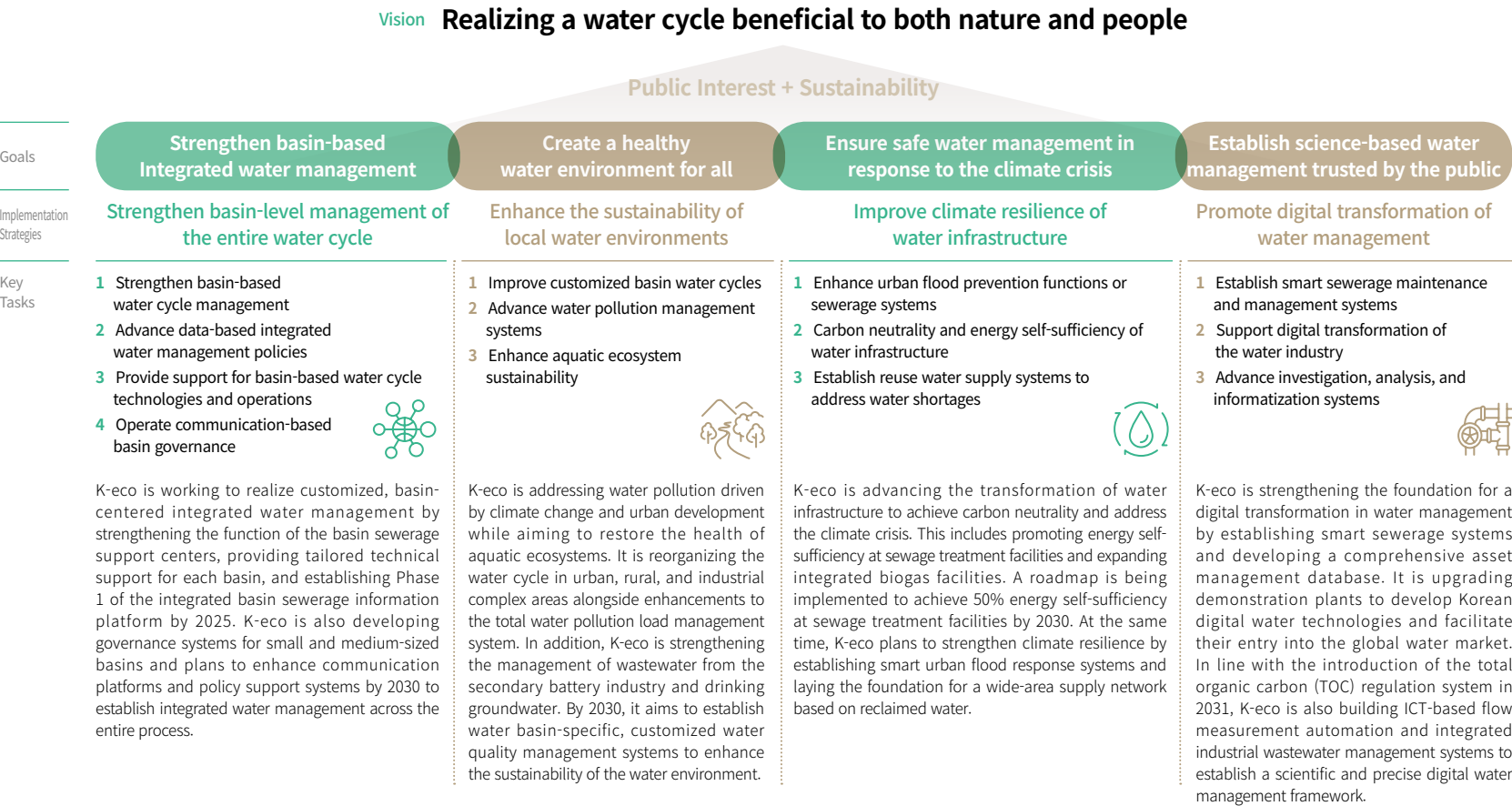


# Integrated Water Management

## K-eco's Integrated Water Management System

K-eco is advancing a comprehensive and sustainable transformation of the entire water cycle, building on the unification of national water management functions and the enactment of the Framework Act on Water Management. Guided by the vision of “realizing a water cycle beneficial to both nature and people,” K-eco is implementing a phased plan through 2030 to strengthen basin-based integrated management, establish a healthy water environment, build climate-resilient water infrastructure, and upgrade data-driven scientific water management. K-eco will continue to broaden stakeholder engagement and strengthen data-based governance, aiming to develop a carbon-neutral, disaster-resilient water management system. The corporation seeks to reinforce the public nature and sustainability of water resources based on scientific and technological innovation and enhanced inter-agency cooperation. K-eco remains committed to realizing a smart integrated water management system that coexists with nature and serves future generations.

### Integrated Water Management System: Goals & Strategies



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# Integrated Water Management

## System for Reviewing Consistency with Water Management Plans\*

K-eco reviews the alignment between higher-level plans and 31 types of water management plans established by central government agencies and local governments and supports the consistency review process conducted by the national and basin water management committees. Through comprehensive reviews covering the entire spectrum of water management, K-eco contributes to the achievement of target biochemical oxygen demand (BOD) levels for mid-area rivers. In 2024, consistency reviews were conducted for 14 national and 85 basin-level water management plans, ensuring that the direction of higher-level water policies is reflected across 31 subordinate plans. As a result, the achievement rate for target BOD levels in mid-area rivers rose by 6.9 percentage points year-on-year, reaching 86.9%.

\* Consistency Review System: A system that incorporates strategies from higher-level plans (such as the national water management plan and basin water management master plans) into subordinate plans to establish a coherent, policy-aligned water management framework.

### Consistency Review System

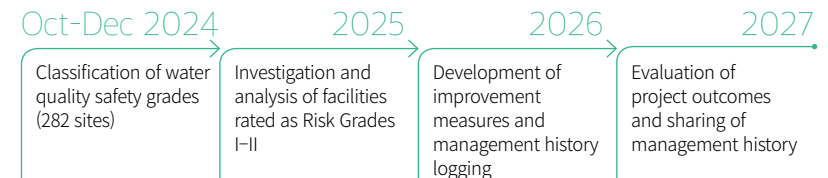


## Introduction of a Sewerage Safety Grading System in the Hangang River Basin

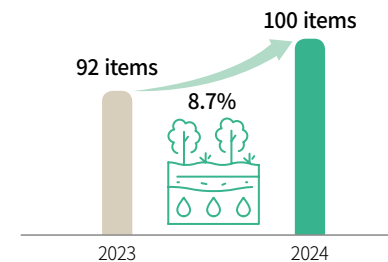
Despite a national sewerage coverage rate of 95.4% as of 2023, exceedances of effluent water quality standards at treatment facilities continue to occur. In response, K-eco is developing and implementing corrective measures. A pilot project was launched in the Hangang River basin to introduce a sewerage safety grading system, and tailored management strategies were developed for public sewage treatment facilities. Beginning in October 2024, this grading system will be fully implemented to enhance the operational efficiency of these facilities, improve water quality safety, and contribute to the restoration of water quality in the Hangang River basin.

### Hangang River Basin Sewerage Intensive Management Plan

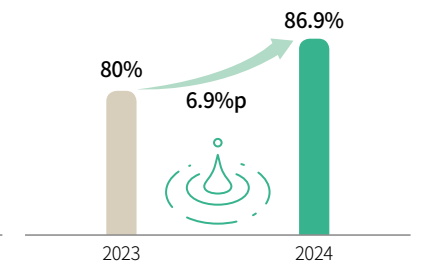
#### Introduction and operation of a sewerage safety grading system to enhance water quality safety in the Hangang River basin



### Target BOD Level Achievement in Mid-Area Rivers (Item Count)



### Target BOD Level Achievement Rate in Mid-Area Rivers (%)



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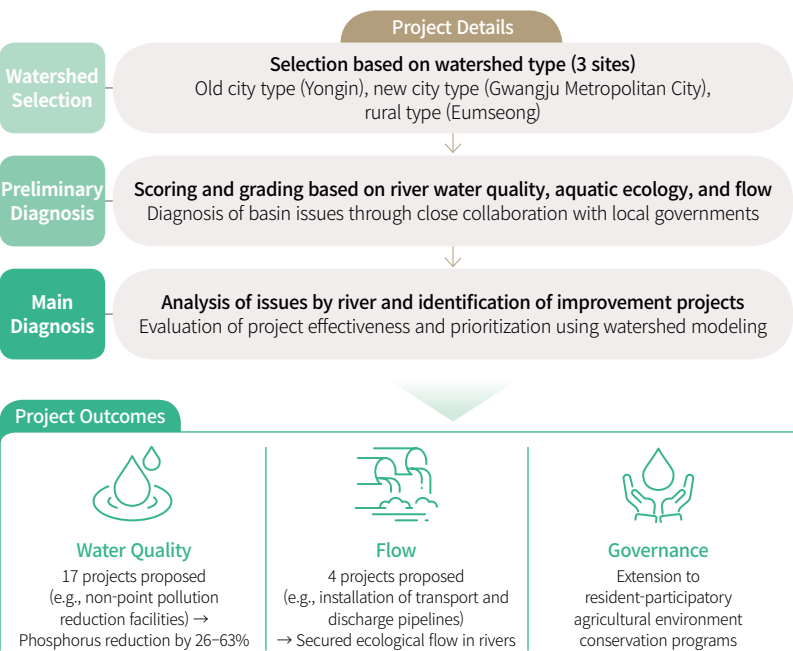
# Integrated Water Management

## Expansion of Watershed Diagnostics\* to Local Rivers

Following the implementation of the watershed diagnostic system—an essential element in the rehabilitation of polluted rivers—K-eco recognized the need to provide concrete case studies to local governments lacking understanding or expertise. Based on the official watershed diagnostic manual, pilot projects were conducted in three polluted local rivers. These led to six improvement projects, including the restoration of covered urban streams, improving aquatic ecosystem health to Grade 1 (“Good” in fish assessment). By presenting detailed case examples by pollution type, the projects laid the foundation for wider adoption of watershed diagnostics led by local governments. These efforts are expected to promote more autonomous and systematic water quality improvement in local rivers, with K-eco continuing to support capacity-building initiatives.

\* Watershed Diagnostics: A comprehensive evaluation framework that considers various watershed elements (e.g., water quality, aquatic ecosystems, flow volume, governance), rather than focusing solely on the water quality of individual rivers.

### Pilot Watershed Diagnostics



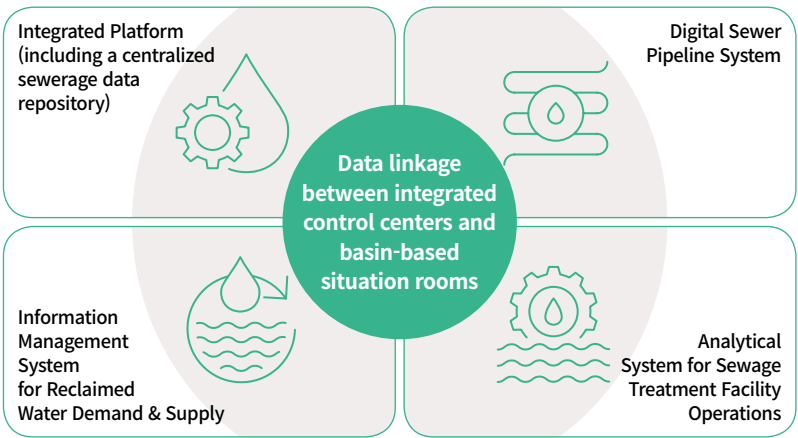
## Establishment of Integrated Sewerage Control Centers & Digital Transformation of Sewer Systems

K-eco is building an integrated sewerage platform to enable comprehensive management and real-time monitoring of all sewerage processes. To support real-time communication and coordination by watershed, integrated control centers have been established in three basins. As part of the platform’s first phase, three integrated systems are under development: a ChatGPT-based unified data repository, a monitoring system for rainfall and discharge threshold exceedances, and systems for digital sewer pipelines, reclaimed water information management, and operational data analysis of sewage treatment facilities. These developments are expected to enhance operational efficiency by enabling real-time data linkage between centralized control centers and regional facilities, and by creating databases of facility performance and water quality data for disaster preparedness and continuous monitoring.

### Real-Time Basin Communication Infrastructure

Timeline	Establishment of Integrated Control Centers
Jan 2024	Designation of dedicated personnel to form task forces for each basin-level control centers
Dec 2024	Integrated control centers in Hangang, Geumgang, and Nakdonggang River basins

### Integrated Basin Sewerage Platform



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# Integrated Water Management Total Water Pollution Management & Facility Support

## Total Pollution Load Management & ICT-Based Cap System

Following revisions to the Enforcement Rules of the Water Environment Conservation Act, K-eco was designated as the operator of the Total Water Pollution Management System, a key instrument for executing the nation's top-tier water policy. By leveraging the tele-monitoring system (TMS), K-eco is working to improve the speed and responsiveness of total load management. To ensure accurate calculation of baseline flow rates—key data used in the system—manual measurements (traditionally conducted 36 or more times annually) are being replaced by ICT-based real-time automatic monitoring at five-minute intervals. As total organic carbon (TOC), an indicator used to monitor non-biodegradable organic matter in rivers, continues to rise, K-eco is undertaking a pilot initiative to integrate TOC into total load management in an effort to address the limitations of existing management approaches. This initiative lays the groundwork for policy and institutional adoption of TOC-based load management.



## Expansion of Sewerage Infrastructure in Island Regions

K-eco is promoting the expansion of sewerage infrastructure to improve water welfare in Ulleung-gun, one of Korea's representative island regions with a sewerage coverage rate of only 8.8%. An entrusted contract was signed to upgrade and repair the Nari and Hyeonpo sewage treatment facilities in Buk-myeon, aiming to improve water services for approximately 40% of the population within the service area and to enhance environmental services for island communities..

## Second Battery Industry Wastewater Treatment Support

K-eco is intensifying customized technical support for companies in response to the expansion of the secondary battery industry and the associated risk of high-concentration saline wastewater. Proactive technical support has been provided to facilities that are newly built or planning expansion. In collaboration with public-private consultative bodies, the saline discharge certification system has been revised and relevant legal amendments have been completed. For the first time, guidelines have been developed for the acceptance criteria of saline wastewater into public treatment facilities. New projects combining discharge monitoring and technical support have also been secured, contributing to the resolution of environmental conflicts.

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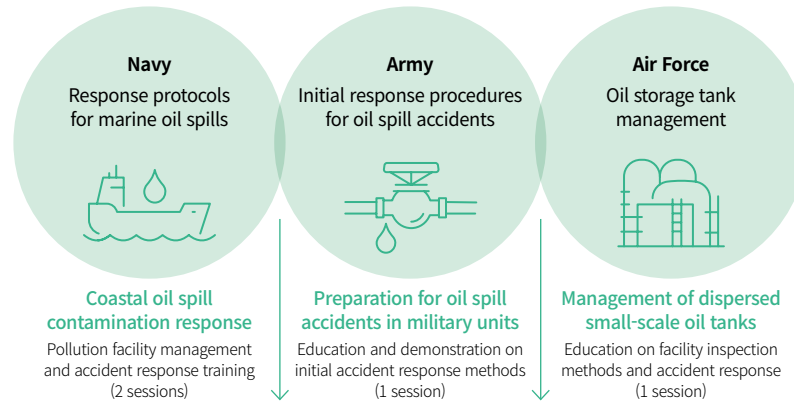
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# Integrated Water Management Soil/Groundwater Conservation

## Systematic Management of Groundwater & Soil Pollution

K-eco conducts tailored environmental consulting for vulnerable regions to systematically manage groundwater and soil pollution. For military bases, a comprehensive program including on-site inspections and theoretical and practical training was implemented, covering a total of 500,000m<sup>2</sup> across Army, Navy, and Air Force facilities. The initiative enhanced in-house management capabilities and raised awareness of environmental responsibilities. In addition, new investigation methods were introduced in potentially contaminated sites such as aging industrial complexes and abandoned mines to identify pollution early and carry out rapid, safe, and complete remediation processes. As a result, 182,745m<sup>2</sup> (equivalent to 72,000m<sup>3</sup> of soil) were remediated, generating social and economic value and contributing to a healthier environment.

## Customized Groundwater & Soil Management for Military Units



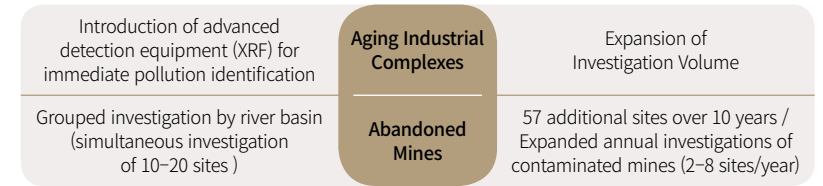
Systematic process management enabled a 1.5x increase in remediation volume compared to the previous year (72,000m<sup>3</sup> treated)  
2023: 120,609m<sup>3</sup> / 2024: 182,745m<sup>3</sup>

New safety management systems /  
Active implementation of explosive response training → zero accidents  
Installation of monitoring and spread prevention facilities → zero contamination spread

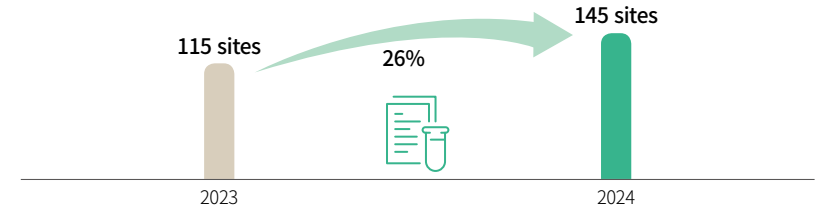
**Social Effect** Transformation of remediated sites into welfare spaces such as medical centers, libraries, and parks  
**Economic Effect** Creation of approx. 5,000 jobs and stimulation of local economy by approx. KRW 50 million/day

## Systematic Groundwater & Soil Management Framework

Management Areas	Performance (2024)	Mid-Term Goal (2025–2027)	Long-Term Goal (2028–2031)
Prevention	Groundwater pollution monitoring (190 sites) and prevention in vulnerable areas (military bases)	Groundwater pollution monitoring (220 sites) and expanded prevention in vulnerable areas (military units, industrial complexes)	Enhanced groundwater pollution monitoring (260 sites) and strengthened prevention in vulnerable areas (pollution-prone areas)
Investigation	Survey of soil and groundwater in pollution-prone areas (2,032,000 m <sup>2</sup> )	Expanded survey of soil and groundwater in pollution-prone areas (6,084,000 m <sup>2</sup> )	Further expanded survey of soil and groundwater in pollution-prone areas (7,828,000 m <sup>2</sup> )
Remediation & Post-Management	Remediation volume 72,000 m <sup>3</sup> / Post-monitoring (13 sites)	Remediation volume 326,000 m <sup>3</sup> / Strengthened post-monitoring (42 sites)	Remediation volume 1,505,000 m <sup>3</sup> / Strengthened post-monitoring (56 sites)



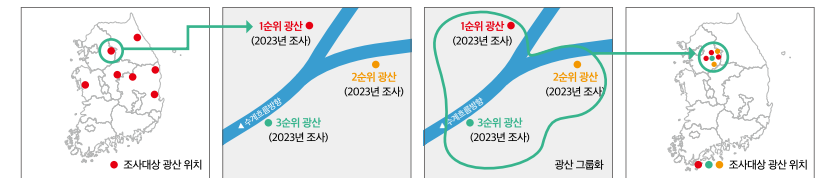
## Soil Pollution Investigation Volume



## Improved Investigation of Abandoned Mines

Scattered investigation based on individual mine pollution ranking

Grouped investigation by river basin



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# Integrated Water Management Pollution Source Management

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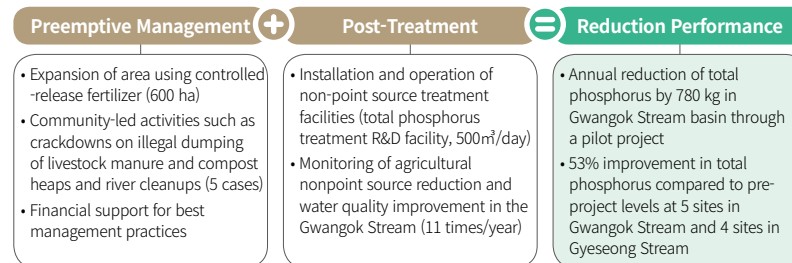
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### Two-Track Strategy for Reducing Agricultural Non-Point Source Pollution

To address water safety challenges exacerbated by climate change and recurring algal blooms in rivers, K-eco is taking the lead in managing non-point source pollution in rural areas, which have historically lacked effective oversight. In response to the runoff of high-concentration pollutants such as livestock manure and compost during rainfall, a two-track strategy combining preventive measures and post-treatment was implemented. As a result, water quality in the Gwangokcheon Stream, located in the upper Nakdonggang River basin, improved from "Slightly Polluted" to "Moderate" based on BOD. Water quality in agricultural drainage channels also improved, with pollutant levels reduced by 53% compared to before the project, contributing to the creation of healthier river ecosystems.

### Two-Track Approach to Reducing Agricultural Non-Point Source Pollution



### Improvement of Capacity Calculation Standards for Individual Sewage Treatment Facilities\*

K-eco revised capacity calculation standards to enhance the proper operation and management of the growing number of individual sewage treatment facilities. In June 2024, the standard method for estimating sewage generation by use and the number of persons subject to septic tank treatment was revised to better reflect actual water usage. For example, the standard for hospitals was adjusted from 40L/m<sup>2</sup> to 20L/m<sup>2</sup>, while for military bases it was increased from 200L/person to 300L/person. An administrative manual was also developed and distributed to local governments to improve administrative efficiency, support the rational operation of underperforming facilities, and strengthen pollutant source management.

\* Individual sewage treatment facilities: Facilities installed by property owners to treat sewage on-site in areas not served by public sewage systems

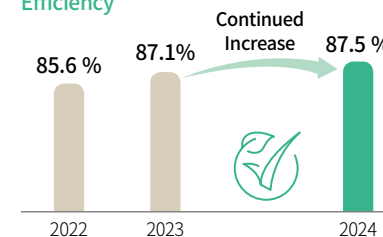
### Capacity Building for SMEs in Non-Point Source Pollution Management

K-eco is strengthening institutional foundations for small and medium-sized water companies through technical support and the provision of standardized templates for non-point source pollution reduction plans. Additional support includes pre-installation consultations, performance inspections, and specialized training for non-point source reduction facilities. In cooperation with basin and local environmental offices, 49 facilities that reported installations were inspected to ensure proper operation. These efforts have improved the efficiency of institutional implementation through customized technical and administrative support. Verified facilities are expected to reduce approximately 9,741 tons of pollutants (based on suspended solids) annually. In recognition of these efforts, K-eco received a commendation from the Governor of Jeju-do for its contributions to non-point source pollution management.

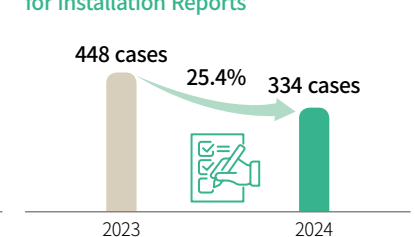


Commendation from Governor of Jeju-do for cooperation

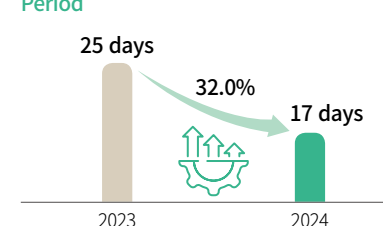
### Continued Increase in Reduction Efficiency



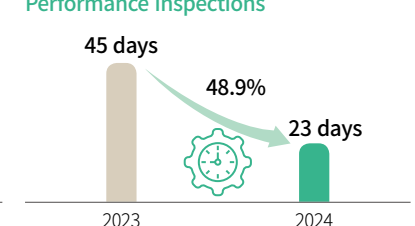
### Decrease of Supplementary Requests for Installation Reports



### Shortened Installation Report Review Period



### Shortened Testing Period for Performance Inspections



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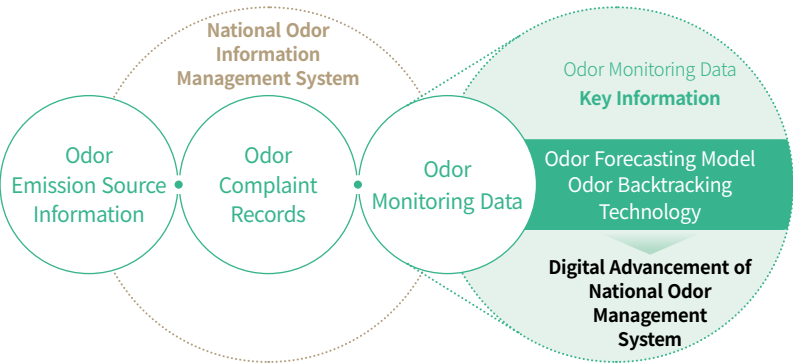
## Designation as a Quality Assurance Institution to Enhance Reliability of Stack TMS

To ensure the credibility of test and analysis data, K-eco obtained official accreditation for relative accuracy testing. The corporation established quality documents and revised operational manuals based on ISO 9001 standards, laying the foundation for quality assurance. It also improved infrastructure by securing expert personnel and expanding equipment and laboratory facilities by medium. To enhance quantitative analytical capabilities, equipment-based quality control and analyst proficiency testing were conducted to strengthen practitioner competence. As a result, in September 2024, K-eco was newly designated as a quality assurance institution for eight stack TMS items, including hydrogen chloride.

## Proactive Digital Odor Information Management for Rapid Response

K-eco has established a digital odor information management system to enable rapid and systematic response. The system, developed through expert consultations and public hearings, was piloted in 10 local governments, resulting in 26 error resolutions and 72 functional enhancements. In addition, a weather data-based odor forecasting technology was introduced and tested, improving forecast accuracy to 65%. K-eco will continue to enhance public complaint handling and expand a proactive odor management system through scientific, platform-based approaches.

### National Odor Information Management System



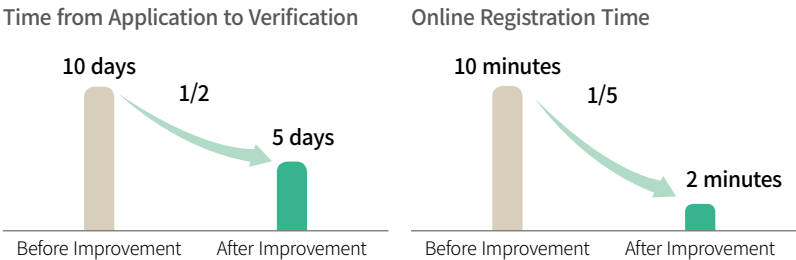
## Real-Time Monitoring of Small-Scale Businesses Using IoT Sensors

To strengthen real-time air pollution monitoring at small-scale business sites, K-eco is expanding the installation of IoT monitoring devices. By June 2025, it will be mandatory for all facilities, establishing a real-time emissions monitoring system. To date, devices have been installed at 21,724 sites, marking a 72% increase year-over-year. Field inspections were conducted at 58 sites, with 92 corrective actions and 20,216 technical support cases. A real-time alert function was also developed to enable businesses to self-detect and address abnormal conditions, thereby minimizing unnecessary administrative burden. K-eco plans to accelerate the digital transformation of air quality management through IoT and continuously strengthen autonomous environmental management capabilities and effective air pollution surveillance systems.

## Digital Management of Mobile Pollution Sources

To enhance digital management of mobile pollution sources, K-eco collaborated with the Ministry of Land, Infrastructure and Transport and two other agencies to integrate information for 550,000 construction machines into the vehicle emissions system (MECAR). This integration enables centralized management of registration, specifications, and inspection data, with an online system provided for the public and local governments. A simplified inquiry service on low-emission retrofit progress was also introduced. Leveraging this integrated data, errors are proactively prevented, and analysis of emissions trends by equipment type allows for the identification of high-priority aging construction machines. These efforts support systematic management of one of the main contributors to fine dust emissions and maximize reduction impacts.

## Processing Time for Low-Emission Retrofit Measures for Construction Equipment



# Incorporating New Technologies

## Automated Water Quality Monitoring for High-Quality Data

K-eco operates 75 automated water quality monitoring stations across major rivers and lakes of Korea's four major river basins to observe water quality changes in real time and manage the water pollution alert system. Annual quality assurance programs are implemented to enhance data reliability, and international proficiency testing has resulted in the highest rating. To bolster monitoring in tributaries adjacent to industrial complexes and other major pollution sources, 60 small-scale monitoring stations have been installed and are now in operation.

### Automated Water Quality Monitoring Stations in Operation

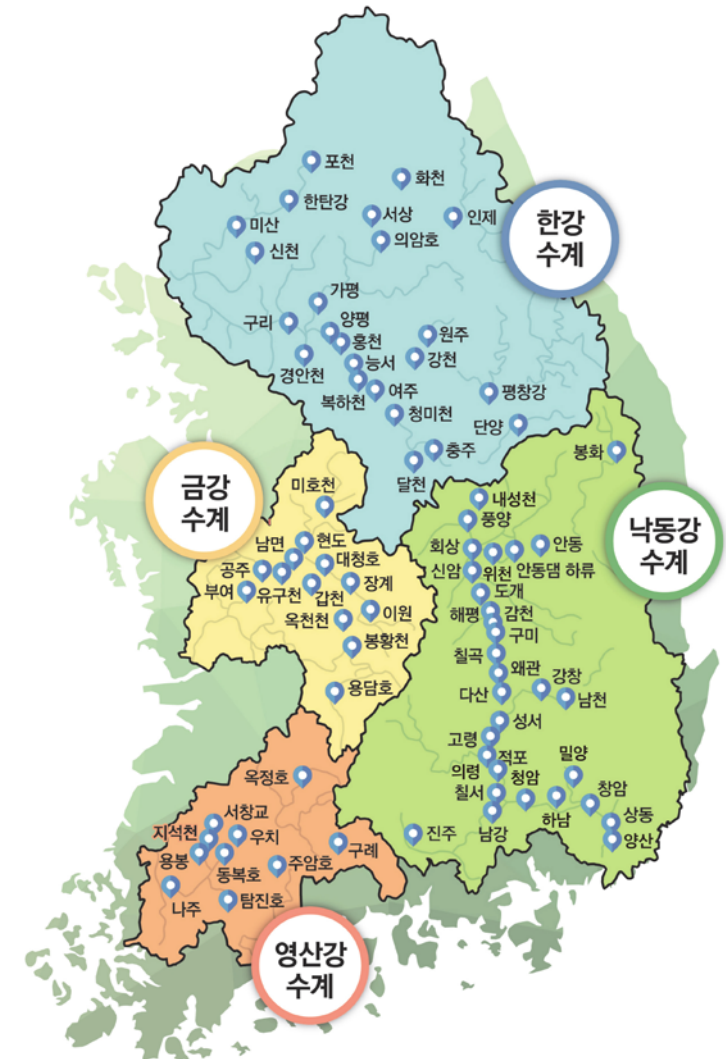
(Unit: Sites)

Category	River	Lake	Total
Hangang River Basin	22	1	23
Geumgang River Basin	10	3	13
Nakdonggang River Basin	29	-	29
Yeongsanggang River Basin	6	4	10
Total	67	8	75



National automated water quality monitoring network

### Map of the National Automated Water Quality Monitoring Network



※ Small-Scale Monitoring Networks : 20 sites in Hangang River basin, 20 sites in Geumgang River basin, 20 sites in Nakdonggang River basin

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# Incorporating New Technologies

## National Statistics Approval for Reliable Water TMS Data

K-eco's water tele-monitoring system (TMS) data has been officially approved as national statistics, earning higher credibility and applicability. Through comprehensive quality management including discharge monitoring of wastewater treatment facilities, oversight of non-compliant operations, efficient control center operations, and data verification system enhancement, K-eco has prevented intentional data tampering at business sites for five consecutive years. Improvements in system reliability and data automation have led to a 100% data reception rate. The TMS data, now publicly available as national statistics, enhances accessibility and utility for the public. These efforts have also contributed to the discovery of 24 exemplary application cases.

### Official Approval as National Statistics

Affiliated Title	National Statistics on Water TMS Data
Statistics Title	Status of Emissions from Water TMS-Designated Business Sites
Items / Frequency	pH, TOC, SS, T-N, T-P / Quarterly
Publication Channels	KOSIS, SOOSIRO



### Outstanding Application of Monitoring Data

#### Grand Prize

for developing optimal management strategies for a wastewater treatment facility, achieving a 42% reduction in total nitrogen discharge concentration

#### Top Prize

for analyzing pollution loads by production line to optimize treatment per facility, ensuring compliance with legal and regulatory standards while increasing production by 250 tons/day



K-eco's water TMS

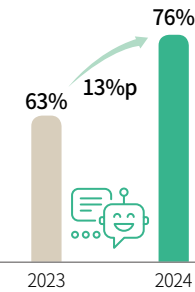


TMS installation status

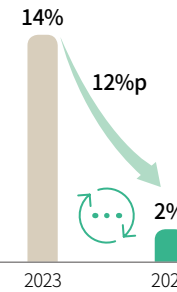
## Upgrading the "Allbaro" Industrial Waste Platform

K-eco has upgraded the digital waste management platform Allbaro by integrating advanced technologies such as AI, a chatbot powered by a GPT model specialized in resource circulation, voice bots, and OCR combined with RPA. These technologies have reduced response times and administrative workload, increased customer service rates, and lowered unanswered chatbot queries. Additionally, automatic linkage of waste transfer records and management ledgers, as well as system integration with the Health Insurance Review and Assessment Service, reduced corporate burden. These advancements achieved administrative efficiency gains of 20,000 hours annually and cost savings of KRW 3.3 billion. A next-generation Allbaro system is under development (2024-2028) to integrate dispersed permitting processes across the Ministry of Environment, local governments, and K-eco, improving processing efficiency and expanding data integration with the private sector.

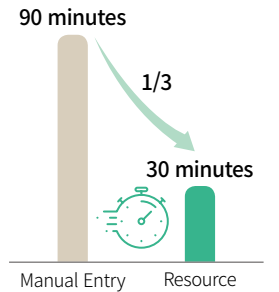
### Customer Service Rate



### Rate of Unanswered Chatbot Queries



### Time Required for Drafting Responses



(As of March 2025)



Next-generation "Allbaro" system development (2024-2028)

- Expansion of electronic data interchange (EDI) services
- Adoption of automation and new technologies
- Broader data integration with private sector systems

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### Expansion of On-Site Information Transmission for Real-Time Waste Tracking

To prevent illegal waste activities such as falsified reporting, K-eco has gradually expanded the scope of its on-site information transmission system and improved regulations to reflect the characteristics of general and import/export waste sites. These improvements were informed by on-site and online briefings, field surveys at 120 processing facilities, consultations, remote technical support, and customer service. Furthermore, revisions to the relevant notification (August 2024) expanded the recognition of measured values and introduced license plate recognition for export and import vehicles, establishing a comprehensive tracking system for various modes of transport. This contributed to the establishment of a full-cycle, real-time waste management framework, fundamentally blocking illegal dumping.

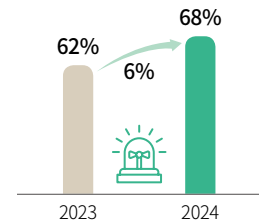
#### Gradual Expansion of On-Site Information Transmission System Scope



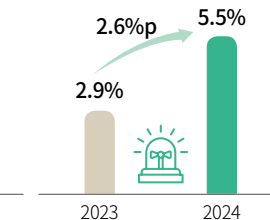
### Prediction & Prevention of Illegal Waste Using Big Data

Using big data, K-eco has enhanced the prediction and prevention of illegal waste activities. By analyzing on-site business waste data alongside electronic transfer records, companies suspected of improper disposal were identified in advance. Customs data was also used to detect anomalies in import/export transactions, which were further investigated through joint inspections. These proactive measures resulted in year-over-year increases in the detection rate of business sites violating industrial waste intake regulations, the number of inspections of illegal waste imports and exports, and the detection rate of such violations in 2024.

#### Violation Detection Rate



#### Illegal Import/Export Detection Rate



#### Minister of the Interior & Safety Award

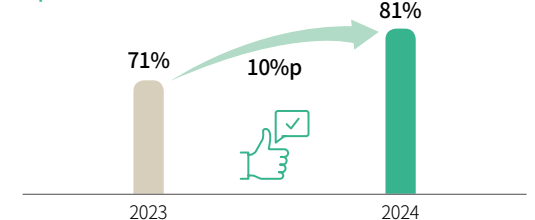
13th Korea Knowledge Awards 2024, hosted by the Ministry of the Interior and Safety



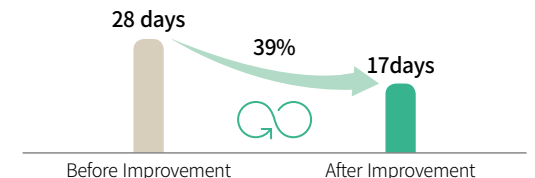
### Fundamental Prevention of Improper Waste Generation

To eliminate the risk of waste leaks from abandoned or non-compliant landfill facilities, K-eco conducted joint inspections and proposed improvement measures after analyzing risk factors at three sites. These measures prevented accidents related to landfill mal-operation and suppressed the generation of 63,000 tons of leachate. For food waste treatment facilities, site-specific technical support facilitated early normalization of operations, improving pass rates in management evaluations and shortening the re-inspection period for non-compliant sites by 39%. These efforts contributed to the prompt normalization of waste treatment facilities and the fundamental prevention of improper waste generation.

#### Compliance Rate of Waste Treatment Facility Operations



#### Reinspection Period for Non-Compliant Treatment Facilities





# Sustainable Resource Circulation circular Economy

## A Step Toward a Circular Economy

In response to national policy shifts such as the enactment of the Act on Promotion of Transition to Circular Economy and Society and the Biogas Act, K-eco is diversifying waste recycling strategies and reinforcing resource circulation systems. The phased advancement of the next-generation national waste management integration system (Allbaro system) is underway, alongside the expansion of integrated biogas and clean hydrogen initiatives to establish a virtuous cycle for waste resources. In addition, by transferring the seized goods business to the private sector, K-eco aims to enhance life-cycle product management efficiency. Through digital-based cooperation across public, private, and academic sectors, the corporation is committed to realizing a sustainable resource circulation society that delivers tangible benefits to citizens and businesses.

### Circular Management System Goals & Strategies

Goal			
Transition to a circular economy			
Tasks (National Agenda)	Strengthening life-cycle resource circulation management system (realization of a circular economy through recycling)		Thorough waste management (establishment of scientific carbon neutrality implementation plans)
	Promotion of transition to a circular economy through strengthened product life cycle management system	Expansion of resource recovery and carbon reduction through diversification of recycling methods	Reinforcement of management systems for proper waste treatment
Performance Goals			
Target Projects	Recycled material usage ratio labeling and certification project, EV waste battery recycling project, etc.	Recycling of household and business waste, chemical recycling of waste plastics, etc.	Establishment and operation of waste management systems, operation of a proper treatment center, etc.
Implementation Tasks	Minimization of waste at the product design and production stages / Globalization of K-resource circulation	Promotion of new resource recovery from discarded waste	Reduction of waste generation through expanded public-private cooperation
	Improve collection and recycling management systems for used products to drive the growth of the recycling industry	Expand recycling methods by converting waste into eco-friendly energy and raw materials	Build a digital platform for waste using advanced technologies such as AI
	Promote public participation in resource circulation practices and provision of information	Induce high-value recycling through high-quality resource recovery	Create a safe living environment free from improperly managed waste

## Fostering a Green Renewable Energy Ecosystem

K-eco is actively fostering the biogas industry as a means of environmentally sound energy conversion from waste. Through the enactment of the Biogas Act, introduction of a production target system, formation of a dedicated task force, and establishment of an integrated digital management system, the corporation has laid a comprehensive foundation for systematic governance. Ahead of the full implementation of the new legal framework in 2025, K-eco is enhancing institutional effectiveness through nationwide facility surveys and public information sessions. Eight additional high-efficiency treatment facilities are being established, and the revision of the Urban Gas Business Act has enabled an annual biogas supply capacity of 300,000m<sup>3</sup>. K-eco is also promoting high-value applications such as hydrogen production. As the control tower of the biogas industry, the corporation is reducing greenhouse gas emissions by one million tons annually and generating an estimated economic benefit of KRW 229.4 billion through LNG substitution.

### Life-Cycle Management of Biogas



Biogas information portal

Integrated biogas information system

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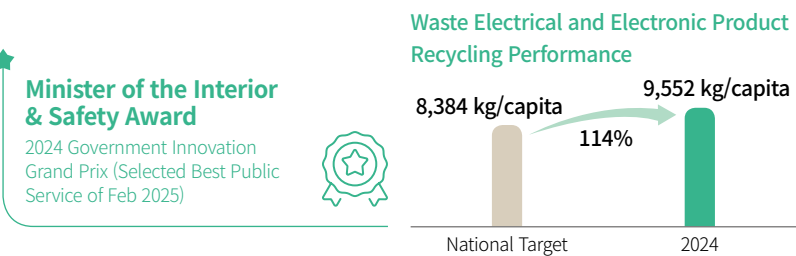
## Record-High Recycling through Enhanced Collection System

K-eco has achieved its highest-ever recycling performance by upgrading digital-based collection systems for waste electrical and electronic equipment. A business agreement was signed with a private-sector apartment management app used by 6.2 million residents nationwide to build a more accessible collection network. A real-time waste electronics collection and recycling system was also implemented in connection with Onbid\*, expanding participation by private companies to 391 firms—an increase of 111% from the previous year. In addition, K-eco announced a legislative preview of the amended Act on Resource Circulation of Electrical and Electronic Equipment and Vehicles, which expands the scope of mandatory collection to cover all product categories. As a result, the corporation became the first organization to exceed the national recycling target (achieving 114% of the per capita goal) and received the Minister of the Interior and Safety Award in recognition of this achievement.

\* Onbid: An asset disposal system for public institutions operated by the Korea Asset Management Corporation (KAMCO)

### Advancement of Digital-Based Recovery System

Businesses	Foundation – Expansion – Advancement	Public
Recovery systems by product category	2022	Deployment of small-and medium-sized collection bins
Individual agreements with waste-generating business sites	2023	Provision of location information for small-/medium-sized bins
Recovery and recycling processes linked with Onbid	2024	Collection services linked to apartment management app



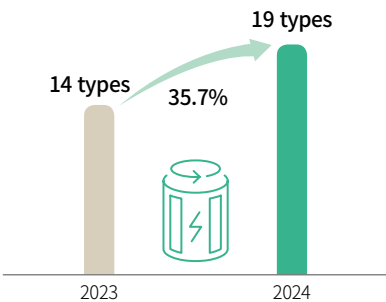
## Strengthening Regional Collection Centers for Recycling Future Automotive Waste

Through improved management and functionality of regional collection centers, K-eco is enhancing the recycling performance of future automotive waste resources. In 2024, the corporation proactively addressed a slowdown in the circular economy caused by low recovery rates and volatile prices of electric vehicle batteries. It implemented a phased management framework that raised battery recovery rates to 85%, with total recovery volume increasing by 115.5% compared to the previous year. Beginning in June 2024, K-eco mandated the return of replaced fuel cell stacks to regional collection centers under the hydrogen bus fuel cell stack support program. The returned stacks will be used in the development of recycling and cleaning technologies, laying the groundwork for recycling across the national fleet of hydrogen vehicles (38,000 units as of 2024).

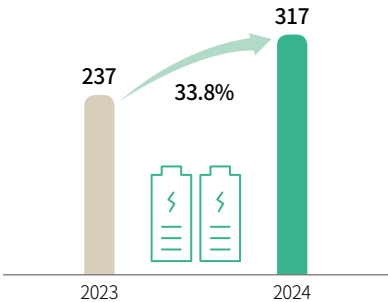
### Phased Battery Management Framework

Recovery	Performance Evaluation	Supply	Safety Management
Integrated tracking from battery subsidy payment to return / MECAR purchase subsidies / Management of future waste battery information under EcoAS	Expansion of small- and module-level evaluation / Securing equipment for low-capacity (<100V) battery evaluation	Diversification of supply sources (bid price ceilings, expansion of public contests, bundled bidding system, etc.)	Customized safety management manuals for each of the four regional collection centers / Support for private dismantling yards with facilities for battery separation, discharge, and storage

### Battery Testing



### No. of Batteries Supplied

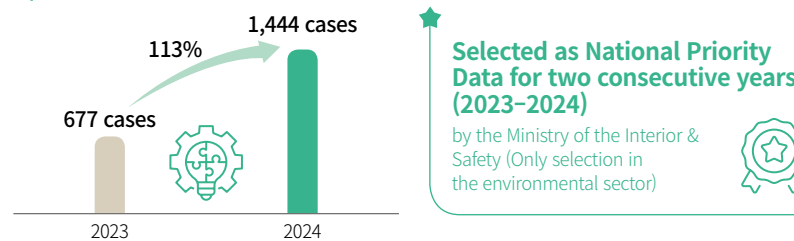


# Sustainable Resource Circulation circular Economy

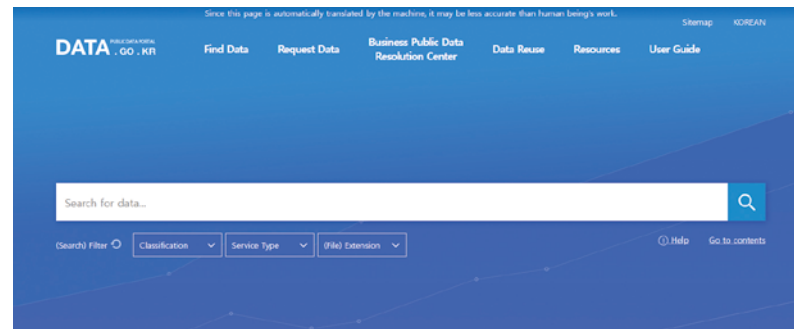
## Expanding Open APIs for Recycling & Increasing Private Sector Utilization

In alignment with the Ministry of the Interior and Safety's public data release policy, K-eco is enhancing accessibility and utility of environmental information. In response to high demand, data related to the full life cycle of recycling has been converted into open APIs. In 2024, K-eco became the only organization in the environmental sector to be selected as a National Priority Data provider for two consecutive years. The scope of information has expanded to five categories, and newly added datasets include collection center data under the high-quality recyclables guarantee system. These open APIs are facilitating new business creation and expanding the use of data in the private sector.

### Open API Utilization Performance



### Ministry of the Interior & Safety Public Data Portal



#### 5 databases related to resource circulation / Total of 24 types of environmental data:

EPR system, Resource Circulation Information Center + waste fee, EcoAS, product data on deposit-return containers, Allbaro system +EPR item-specific recycling methods and standards , sample data on waste hazard classification etc.

## Next-Generation Integrated Waste Resources Information Platform\*

In accordance with the 2023 Informatization Strategy Plan (ISP) roadmap, K-eco is constructing a next-generation integrated information platform for waste-to-energy resources. Six previously separate information systems are being consolidated to improve accessibility, while the scope of data collection has been expanded from four to 10 resource categories, including solid recovered fuels, incineration heat, and biogas. A 24/7 inquiry response system has halved response times to phone inquiries, improving user-centered services. These efforts are generating an estimated annual economic value of KRW 25.6 billion. Following further platform upgrades between 2025 and 2026, the integrated system will be fully implemented by 2027, serving as a public data hub that provides citizens with easy access to waste-to-energy information.

\* Integrated waste resources information platform: A system for managing data on the production, use, import, and inspection of waste-derived energy such as SRF, incineration heat, landfill gas, and biogas

### 3-Stage Roadmap for the Integrated Information Platform

Stage 1 Establishment (2024)	Stage 2 Advancement (2025-2026)	Stage 3 Stabilization (2027-)
<ul style="list-style-type: none"> <li>Build next-generation integrated information platform</li> <li>Lay the foundation for delivering high-quality services</li> </ul>	<ul style="list-style-type: none"> <li>Enhance user convenience and data utility</li> <li>Support execution of waste-to-energy management policies</li> </ul>	<ul style="list-style-type: none"> <li>Enable scientific analysis of future energy sources</li> <li>Support the development of new industries in the waste-to-energy sector</li> </ul>



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## Public Environmental Information Up to Par with Global-Standard Circular Economy Statistics

K-eco is increasing public trust in environmental information by improving the accuracy of circular economy statistics. The corporation revised its survey methods to align with international standards, including those of the EU, clearly distinguishing between material recycling and energy recovery. This enabled the global benchmarking of Korea's high material recycling rate for household waste. Internally, error-checking mechanisms were strengthened by integrating additional internal information systems. Externally, 1,145 records from external systems—such as WEEE, waste lighting, and used batteries—were utilized for the first time in statistical verification. The corporation also enhanced trade and recycled material data and developed standardized survey and analysis manuals to refine annual plastic material flow statistics. As a result, K-eco achieved a record score of 99 in Statistics Korea's statistical quality assessment, earning an "Excellent" rating, and saw a 39.4% year-on-year increase in users of the circular economy statistics system.

**Statistical Quality Assessment Score 99, Rated "Excellent"**  
by Statistics Korea  
(K-eco's highest score to date)

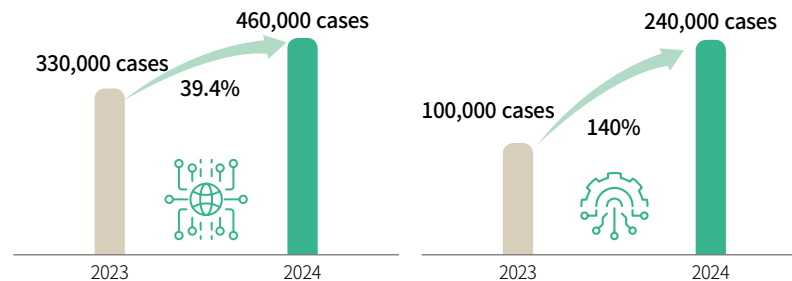


## Comparison of Municipal Waste Material Recycling Rates

UK	Germany	Spain	France	Korea
26%	47%	19%	23%	47%

※ Korea: Based on the 2023 material recycling rate of municipal waste  
Other countries: Latest available data from OECD statistics (as of 2022)

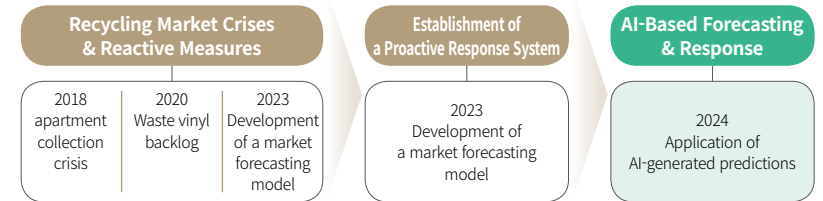
## Circular Economy Statistics System Usage Correction of Data Entry Errors



## Stabilizing the Recycling Market Using AI Technology

K-eco is leveraging AI-based data analytics to proactively manage structural uncertainties in the recycling market. Twenty-seven market analysis indicators were classified into core and general indicators by item based on market influence factors, enabling more precise risk diagnostics. K-eco is continuously enhancing analytical accuracy through cooperation with related agencies and ongoing AI retraining. The scope of management has been expanded from waste paper to five categories including waste plastics. Public-private collaboration supported the export of 20,000 tons of PET (valued at KRW 800 million), contributing to market stabilization. These efforts have enabled K-eco to effectively manage past recycling market crises and prevent public inconvenience, earning the Public Sector Policy Innovation Award at the 13th Korea Policy Awards in 2024.

## Stabilization of the Recycling Market

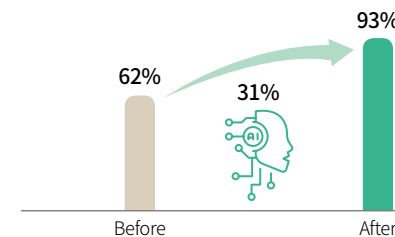


## Public Sector Policy Innovation Award

13th Korea Policy Awards (2024) organized by the Korean Association for Policy Studies



## Accuracy of Diagnostics Before & After AI Model Training



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## Circular Ecosystem for Municipal & Industrial Waste

### Regulatory Innovation in Waste Disposal Charges

K-eco is committed to revitalizing the national circular economy by easing burdens on small enterprises and responding to calls for institutional reform. In consultation with the Ministry of Environment, the National Institute of Environmental Research, and the Ministry of Government Legislation, the Act on Promotion of Transition to Circular Economy and Society was revised and enacted in 2024 to drive regulatory innovation. The exemption from disposal charges, previously limited to small enterprises with annual revenue under KRW 12 billion, was expanded to include medium-sized enterprises with revenue under KRW 100 billion, thereby alleviating financial pressure. In addition, submission requirements were simplified to improve administrative efficiency. A new ex officio imposition system was introduced to promote tax equity and enhance fairness. Thanks to the active efforts of K-eco's Regulatory Innovation Committee, regulatory reform achievements increased 6.3-fold year-on-year in 2024, earning the Minister of SMEs and Startups Award. K-eco will continue to spearhead regulatory innovation to support sustainable business growth and advance the national circular economy.

#### 2024 Amendment & Enforcement of Act on Promotion of Transition to Circular Economy & Society

Regulation	Content
<b>Enforcement Decree Article 33 amended and enforced (Jul 2024)</b>	Expanded exemptions for SMEs Exemption threshold KRW 12 billion → KRW 100 billion
<b>Ministry of Environment regulation amended and enforced (Dec 2024)</b>	Simplified submission requirements Exemption applied through data linkage for waste heat recovery certification between K-eco and NIER
<b>Enforcement Decree Article 36 amended and enforced (Apr 2024)</b>	Closing regulatory blind spots Administrative imposition based on incineration/landfill records from the Allbaro system for deliberate non-reporters

#### Regulatory Innovation Committee

Regulatory innovation outcomes (19 legal provisions, 6.3x ↑ from previous year)

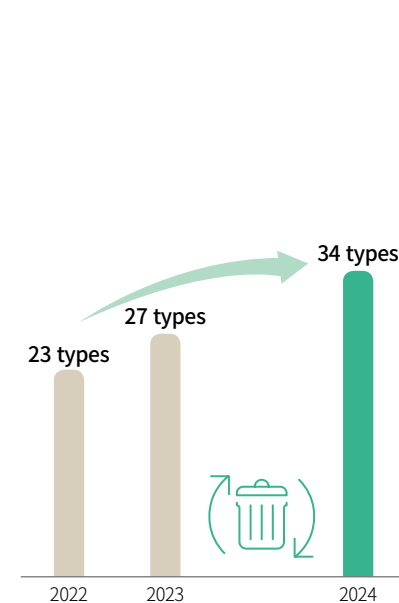
★ Minister of SMEs & Startups Award for regulatory innovation 

### Promoting the Use of Recognized Recyclable Resources

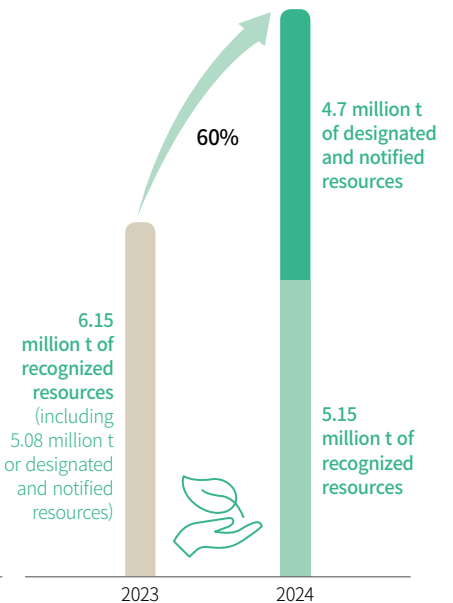
To stimulate the circular economy industry, K-eco has introduced a system for designating and notifying recognized recyclable resources, thereby easing waste regulations. The required documentation was streamlined from 11 types to four, and seven designated materials\* can now be distributed without separate approval. Additional consulting services and the designation of seven new materials expanded the volume of recognized recyclable resources by 60%. These efforts reduced the volume of industrial waste and cut administrative costs by approximately KRW 293 million, delivering tangible regulatory improvements.

\* Designated materials: waste paper, scrap metal, used steel cans, non-ferrous metals (aluminum, copper), waste batteries from electric vehicles, and waste glass bottles

#### No. of Newly Registered Recyclable Resources



#### Volume of Recognized Recyclable Resources





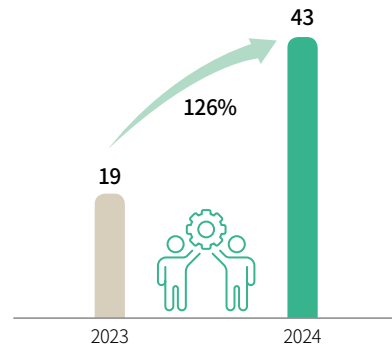
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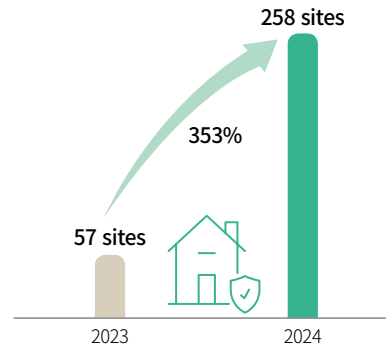
### Expanding Collection of High-Quality Recyclable Materials

To improve collection in areas with low recycling rates, K-eco expanded collection hubs for high-quality recyclables in detached housing areas nationwide. Information on collection locations, schedules, and incentive rates was provided in partnership with Naver, and new hubs were identified through MOUs with local governments, educational programs, and consulting services. Incentives in the form of currency-equivalent rewards increased public participation, resulting in a significant rise in the collection of high-quality recyclables and successful realization of high-value recycling.

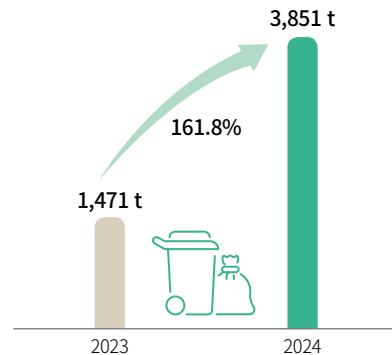
#### No. of Participating Local Governments (Metropolitan Area → Nationwide)



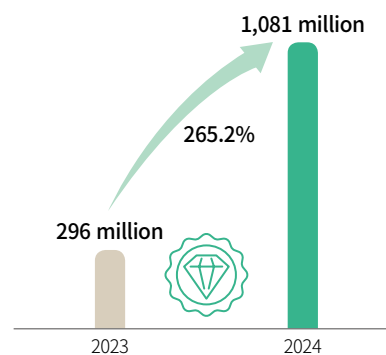
#### New Collection Hubs for Detached Housing Areas



#### Volume of High-Quality Recyclables Collected



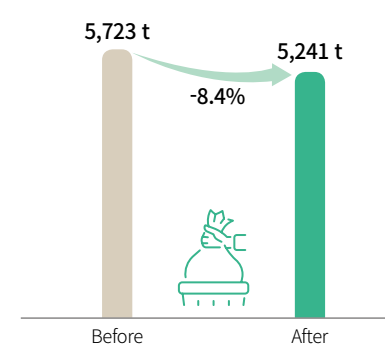
#### Incentive Rewards in Currency Equivalents (KRW)



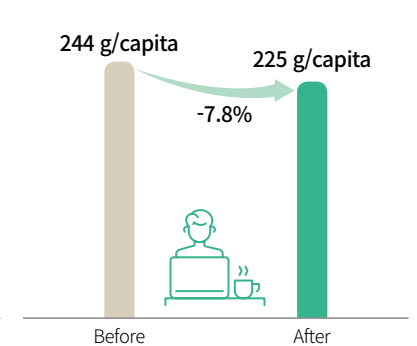
### Voluntary Waste Reduction through Expanded Participation

K-eco expanded public-private cooperation with major waste-generating businesses to build a foundation for voluntary waste reduction. A participatory food service model was implemented in collaboration with Hyundai Green Food, and a pilot project targeting general hospitals was launched to encourage proper waste separation. These initiatives contributed to improved resource efficiency, achieving an 8.4% reduction in food waste (equivalent to approximately 580,000 meal servings) and a 5.4% reduction in medical waste.

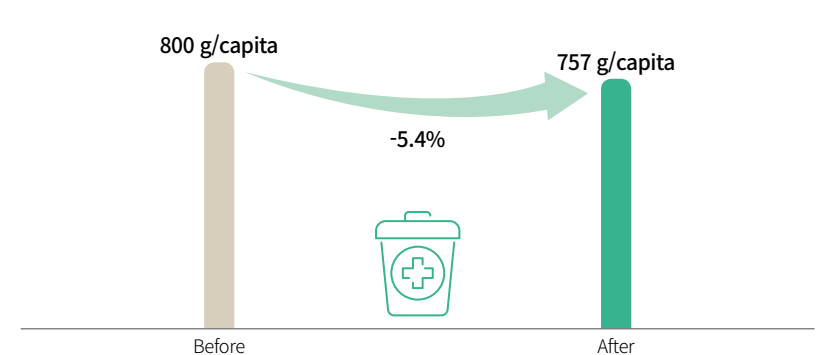
#### Amount of Food Waste Generated



#### Per Capita Food Waste Generation



#### Medical Waste from Participating Hospitals



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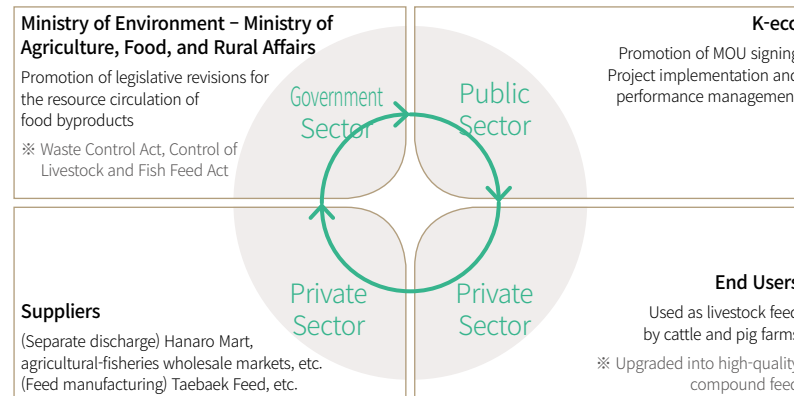
# Sustainable Resource Circulation

## Circular Ecosystem for Municipal & Industrial Waste

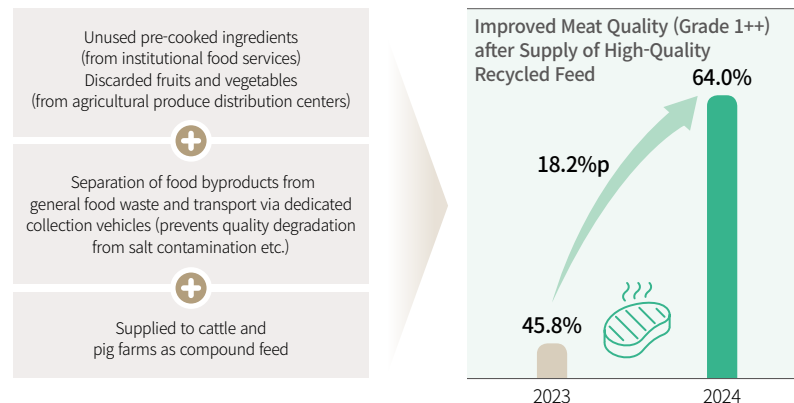
### High-Quality Feed from Food Byproducts through Multilateral Collaboration

To improve the quality of food byproduct recycling, K-eco initiated separate collection of food byproducts previously mixed with high-salinity and decomposed food waste. K-eco seeks to establish a public-private governance model to address the lack of inter-agency coordination and realize a virtuous cycle of converting approximately 116,000 tons of food byproducts—previously treated as waste—into reusable resources through a high-quality feed production process.

#### Governance Structure



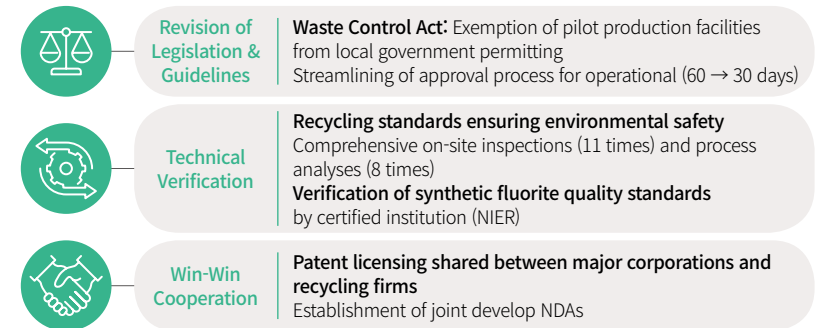
#### High-Quality Feed Production Process



### Transforming Semiconductor Waste into Synthetic Fluorite

To reduce reliance on imported fluorite, a critical resource for the steel industry, K-eco is promoting the commercialization of synthetic fluorite derived from hydrofluoric acid sludge generated in semiconductor manufacturing. Legal and technical barriers were addressed through amendments to relevant regulations and verification of environmental safety. As a result, 16,425 tons—equivalent to 29% of Korea's annual fluorite imports (56,081 tons)—were replaced with recycled material, saving KRW 3.4 billion annually and reducing greenhouse gas emissions by an amount equivalent to planting 1.6 million pine trees.

#### Infrastructure Development for Recycling of Synthetic Fluorite



#### Recycling-Based Fluorite Substitution



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# Sustainable Resource Circulation

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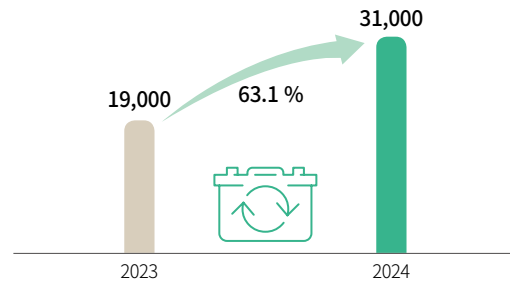
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## Effective Recycling & Management of Elevator Waste Batteries

K-eco established a public-private partnership to create an efficient system for the collection and recycling of elevator waste batteries, extending responsibility for collection and recycling from K-eco and private firms to local governments. Local recycling centers were designated as collection hubs, and a new guideline for recycler selection was developed. As a result, the number of designated recycling firms increased from eight in 2023 to 10 in 2024, leading to a rise in the volume of recovered and recycled batteries. These achievements earned K-eco the Excellence Award at the 5th Public Institution Policy Awards in 2024.

### No. of Elevator Waste Batteries Collected & Recycled



### 2024 5th Public Institution Policy Awards – Excellence Award

Korean Society of Public Enterprise



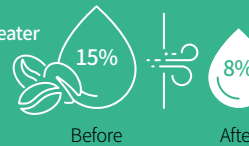
## Coffee Grounds Reimagined as Biofuel

K-eco has converted the 200,000 tons of coffee grounds generated annually into biofuels to reduce disposal costs by approximately KRW 20 billion, cut 1,183 tons of greenhouse gas emissions, and substitute approximately KRW 3.4 billion worth of crude oil each year. Korea's first coffee ground biofuel certified for use in power plants and eco-friendly energy facilities has been commercialized. K-eco is also pursuing joint patents and performance-sharing agreements, including BIO-SRF molding with D&S Eco and eco-friendly charcoal development with ENF Energy, reinforcing competitiveness in the eco-friendly fuel market by earning the top quality rating for solid fuel products.

### Coffee Grounds Biofuel & Technology Patents



Moisture Content after Far-Infrared Heater Processing of Coffee Grounds



### Solid Fuel Product Rated "Top Grade"

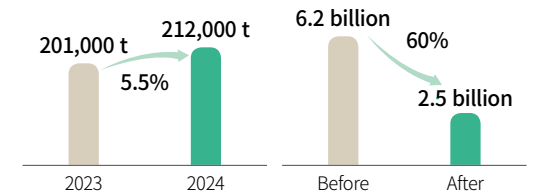


## Improving Soil Recycling Regulations

To promote the recycling of soil mixed into agricultural waste vinyl, K-eco has pursued regulatory improvements to ease the restriction limiting general soil content to 50%. According to survey results, 95% of farmers supported the use of residual soil from agricultural waste vinyl recycling facilities on farmland. A consultative body composed of K-eco, the Ministry of Environment, private companies, and experts conducted on-site inspections and meetings to discuss institutional revisions. Sample analyses confirmed that the residual soil met soil contamination standards, ensuring its safety. As a result, a revised recycling standard was prepared in October 2024, and beginning in 2025, the direct application of this soil by farmers will be eligible for regulatory exemptions. This initiative is expected to recycle 120,000 tons of residual soil annually and reduce recycling costs by KRW 3.7 billion.

### Volume of Agricultural Waste Vinyl Collected

### Waste Soil Recycling Cost (KRW)



Hazard Analysis of Soil Contaminants

Within Regulatory Limits

Expected savings of KRW 3.7 billion

in waste soil recycling cost

Resource recovery of 124,254 tons of agricultural waste soil

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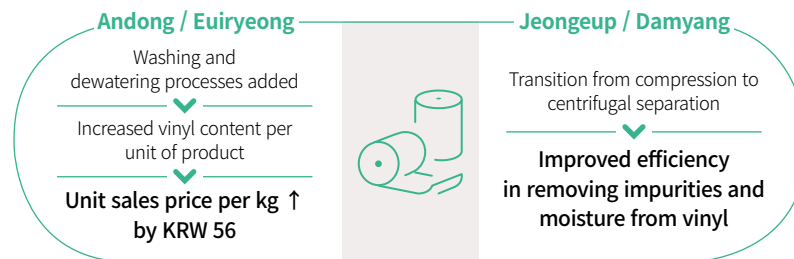
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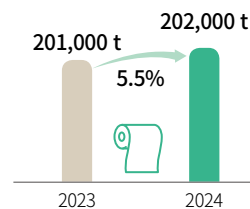
## Expediting Recycling of Agricultural Vinyl & Paper Cartons

K-eco improved the collection system for agricultural waste vinyl and enhanced dewatering processes, yielding savings equivalent to the cost of a new treatment facility (KRW 25 billion) and raising the selling price of the recycled product by 33.5%. In 2024, these efforts led to a record 132,000 tons of agricultural waste vinyl recycled. Facility upgrades are planned for treatment plants in Bonghwa, Seongju, and Anseong in 2025, with improved processes to be applied in future installations. In addition, a public-private pilot project in Daejeon simplified the separation process for paper cartons from four steps to two, resulting in 36 additional tons of recycled material. In September 2024, the Act on the Promotion of Saving and Recycling of Resources was revised to expand the classification of recyclable paper cartons from three to four categories, further promoting recycling.

### Process Improvements for Agricultural Waste Vinyl Treatment Facilities

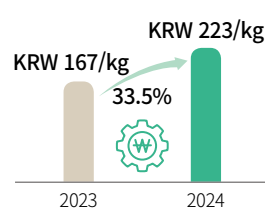


### Volume of Agricultural Waste Vinyl Processed



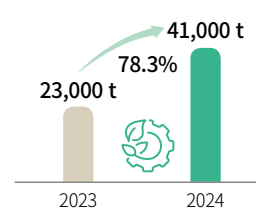
Record high of 132,000 tons of agricultural vinyl recycled in 2024

### Unit Price of Washed & Decompressed Products



2024 revenue KRW 8.9 billion

### Recycling Volume after Enhanced Dewatering (Compression → Centrifugal)

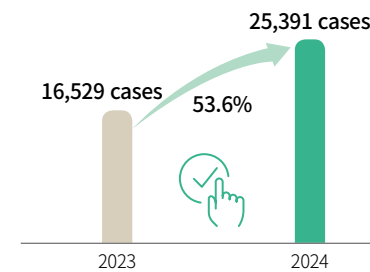


Improved hourly production efficiency (annual processing capacity ↑ by 78%)

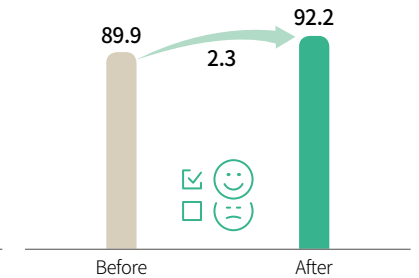
## Public Participation in the Resource Circulation Culture

To overcome the limitations of regulation-driven waste policies, K-eco operates a public participation platform to promote everyday resource circulation practices. By shifting from image-based content such as card news to short-form videos favored by audiences in their teens to 30s, and through collaborations with influencers on Instagram and YouTube, K-eco achieved approximately 1.42 million content views in 2024—about 44 times more than the previous year. These targeted efforts have improved public awareness and participation. In partnership with Naver, K-eco also made collection hub information—previously limited to local apps—accessible via Naver Map's Smart Place platform through searchable keywords such as “recycling,” “collection hub,” and “waste separation.”

### Public Participation



### Targeted Content User Awareness Score





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# Biodiversity (TNFD) K-eco's Biodiversity Conservation Initiatives

## Habitat Creation through Ecological River Restoration

Biodiversity is essential to maintaining ecosystem health and stability, serving as a cornerstone for sustainable development. It plays a critical role in climate change response, the conservation of food and water resources, and the enhancement of human health and well-being. K-eco contributes to building a sustainable and harmonious future by conserving biodiversity through the restoration of aquatic ecosystem health. The corporation is actively carrying out ecological river restoration projects in areas such as Gulpocheon in Incheon, Seokgyocheon in Haman, and Gwangcheon in Uljin. These efforts prioritize not only water quality improvement but also the restoration of degraded habitats and the reestablishment of ecological continuity and integrity in aquatic environments. To this end, K-eco minimizes the use of concrete and applies eco-friendly construction methods such as nature-based riffles, creating migration pathways for aquatic organisms and habitats that support diverse riparian species. In particular, the release of 50,000 sweetfish—a key indicator species—into Gwangcheon in Uljin has contributed to the recovery of the region's unique biodiversity and bolstered the resilience of local ecosystems.

### Ecological Stream Restoration

Target Streams	Project Budget (KRW million)	Project Period (Year)	Project Status
Gulpocheon, Incheon	64,739	2017 -2025	Underway (Environmental HQs of Western Metropolitan Area)
Seokgyocheon, Haman	39,576	2017 -2026	Underway (Environmental HQs of Busan/Ulsan/Gyeongnam)
Gwangcheon, Uljin	4,800	2019 -2024	Completed (Environmental HQs of Daegu/Gyeongbuk)
Yongtancheon, Jeongseon	20,785	2016 -2027	Underway (Environmental HQs of Gangwon)
Geumseokcheon, Anseong	18,000	2020 -2025	Underway (Environmental HQs of Western Metropolitan Area)



Sweetfish release event at Gwangcheon, Uljin

### Before & After Ecological Stream Restoration Project (Gwangcheon, Uljin)

#### Before



#### After



#### Before



#### After



## Youth Startup Support for Endangered Plant Restoration

K-eco provided specialized mentoring to the ESG startup WePlant, which focuses on forest restoration and resource circulation, enabling the establishment of an endangered plant species cultivation facility. This initiative strengthens biodiversity protection efforts by supporting young businesses engaged in post-wildfire restoration and seed utilization expansion.



Endangered plant seed cultivation facility at WePlant



K-eco providing mentoring





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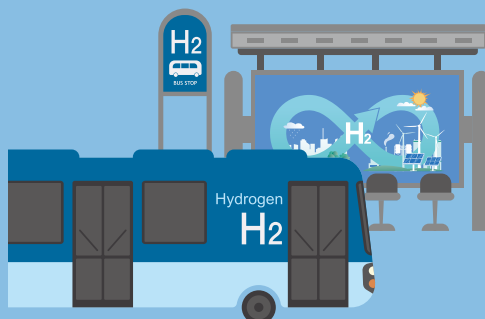
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# Social

## K-eco, Growing with People

**With people at its core, K-eco is striding down the path of shared-growth toward a sustainable future.**

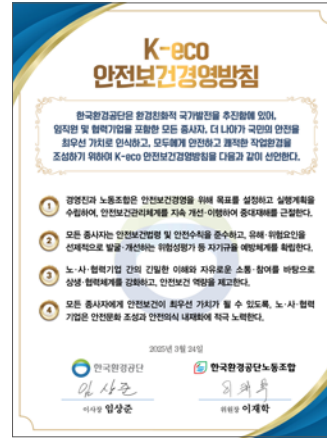
Prioritizing the safety and health of employees as its highest value, K-eco has established a systematic occupational health and safety management system to foster a safe and pleasant working environment. By promoting fair recruitment, human rights management, and family-friendly policies, K-eco is cultivating an organizational culture of mutual respect while creating an inclusive workplace where youth, women, and persons with disabilities can grow together. Cooperation with small and medium-sized enterprises, support for the commercialization of innovative technologies, and job creation for marginalized groups are expanding the environmental industry ecosystem. At the same time, efforts to enhance the quality of environmental services that directly impact daily life and to collaborate with local communities contribute to disaster response and address gaps in environmental welfare. Through communication and collaboration with diverse stakeholders, K-eco supports the realization of a sustainable society in which people and the environment coexist in harmony.



# Safety Management

## Declaration of a New Occupational Health & Safety Management Policy

In March 2025, K-eco formally announced the Chairman's management philosophy of prioritizing safety and hosted a joint labor-management ceremony to declare a new occupational health and safety policy. Finalized through feedback from internal staff, external experts, and deliberation by the Industrial Safety and Health Committee, the policy emphasizes the elimination of serious accidents, improvement of risk factors, labor-management communication, and safety as the organization's highest value. During the declaration ceremony, the Chairman expressed a firm commitment to organization-wide dissemination of safety culture through unified efforts by all employees and partner firms. K-eco plans to use this policy to further establish the foundation for sustainable development, including a safe working environment.



K-eco's new occupational health and safety management policy



K-eco's New Occupational Health and Safety Policy Declaration Ceremony, 2025

## K-eco's New Occupational Health & Safety Management Policy

In pursuing environmentally sound national development, K-eco places the highest priority on the safety of employees, partner companies, all workers, and the public, dedicating its full capacity to ensuring safe and pleasant working environments. Executive management and labor unions jointly set safety and health management goals and systematically implemented action plans, continuously improving the management system to eliminate serious industrial accidents. A self-regulated prevention system is being established through the proactive identification and mitigation of harmful and hazardous risks. A cooperative framework based on close understanding and open participation among labor, management, and partner companies is also being strengthened to enhance safety capabilities. K-eco is actively cultivating a culture of safety and fostering safety awareness so that all members of the organization internalize safety and health as core values, thereby striving toward the realization of sustainable occupational safety and health management.

## K-eco's New Occupational Health & Safety Management Policy

Recognizing the safety of all workers—and ultimately the public  
—as the corporation's highest responsibility and value

Creating a safe and pleasant working environment for all



01

Management and labor unions jointly establish safety and health management goals and execution plans, continuously **improving and implementing the safety and health management system to eliminate serious accidents**



02

Establishing a self-regulating prevention system through compliance with occupational health and safety laws and guidelines, and **proactive identification and mitigation of harmful and hazardous risk factors** through risk assessment



03

Strengthening a cooperative system based on **close mutual understanding and open communication among labor, management, and partner companies**, thereby enhancing overall safety and health capabilities



04

Promoting a **culture of safety and internalizing safety awareness across labor, management, and partner companies** to ensure **safety and health as the foremost value**

# Safety Management

## Operation of the Safety Management Committee

K-eco operates the Safety Management Committee, chaired by the Chairman of the corporation, in accordance with public institution safety management guidelines. The committee comprises 15 members: five internal staff, five union representatives, and five external experts. It deliberates and resolves key issues related to organizational safety, including the establishment of basic safety plans and responses to serious accidents. Regular meetings are held semiannually, with additional sessions convened as needed. Resolutions require the attendance of at least two-thirds of all members and the approval of a majority of those present; in case of a tie, the Chair has the deciding vote. The balanced inclusion of internal and external stakeholders enhances the committee's professionalism and transparency, and its role will continue to be reinforced to promote proactive risk management and foster a pervasive safety culture.

## Safety Management Strategy Implementation System

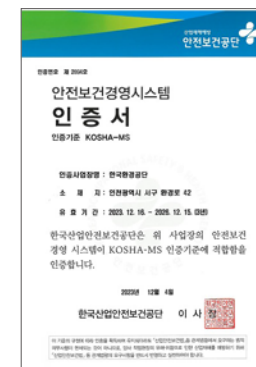


※ Numbers in parentheses indicate the number of members

Regular Meetings	Held twice a year (once per half-year) with prior notice of the schedule and agenda items
Ad-hoc Meetings	Convened in response to urgent matters
Resolutions & Decision-Making	A meeting is considered valid with attendance by at least two-thirds of members / Resolutions are passed with a majority vote of attending members (the Chair has the deciding vote)
Review & Reporting	<ul style="list-style-type: none"> <li>Review of issues related to K-eco's basic safety plan</li> <li>Review of responses and preventive measures following serious accidents</li> <li>Reporting on the previous year's industrial accident statistics</li> <li>Other matters deemed critical to safety</li> </ul>

## Establishment of an Occupational Health & Safety Management System

K-eco has established and operates its own integrated occupational health and safety management system that incorporates the Occupational Safety and Health Act, ISO 45001 international standards, and the International Labour Organization's (ILO) safety and health recommendations. To unify relevant functions, health-related duties were transferred to the Safety Management Office. The corporation has maintained and renewed KOSHA-MS certifications for its Head Office and nine regional branches based on the PDCA (plan, do, check, act) cycle, encouraging voluntary, organization-wide accident prevention efforts. Furthermore, K-eco has obtained and maintained certification for the occupational health and safety management system (ISO 45001) in the construction sector—including planning, design, and construction supervision of environmental infrastructure—thereby elevating its safety and health management system to an international standard through the systematic management and prevention of potential risk factors. These pioneering efforts were recognized in 2024 when K-eco received an “Excellent” (Grade A) rating in the Ministry of Employment and Labor's safety activity assessment of public institutions.



KOSHA-MS Certification  
(occupational health and safety management system)



ISO 45001 Certification  
(occupational health and safety management system)



2024 Prime Minister's Award at the Korea Safety Technology Awards hosted by the Ministry of the Interior and Safety

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## The K-eco Safety 2.0 Master Plan (2024–2026)

Under the vision of “Creating a healthy, safe, and fulfilling workplace,” K-eco is advancing the K-eco Safety 2.0 Project with the goal of achieving zero accidental fatalities through a deeply rooted safety-first culture. The initiative moves beyond passive safety management, systematically implementing four strategic tasks: establishing a self-regulated prevention system, streamlining administration and strengthening support, transitioning to evaluation and incentives, and enhancing protection of workers’ health rights. By restructuring safety management around departments and embedding risk assessment-based autonomous safety practices, all personnel are encouraged to internalize safety awareness. A culture of safety focused on support and rewards—rather than regulation and oversight—is being fostered to uphold safety and health for all stakeholders while generating sustainable environmental value.

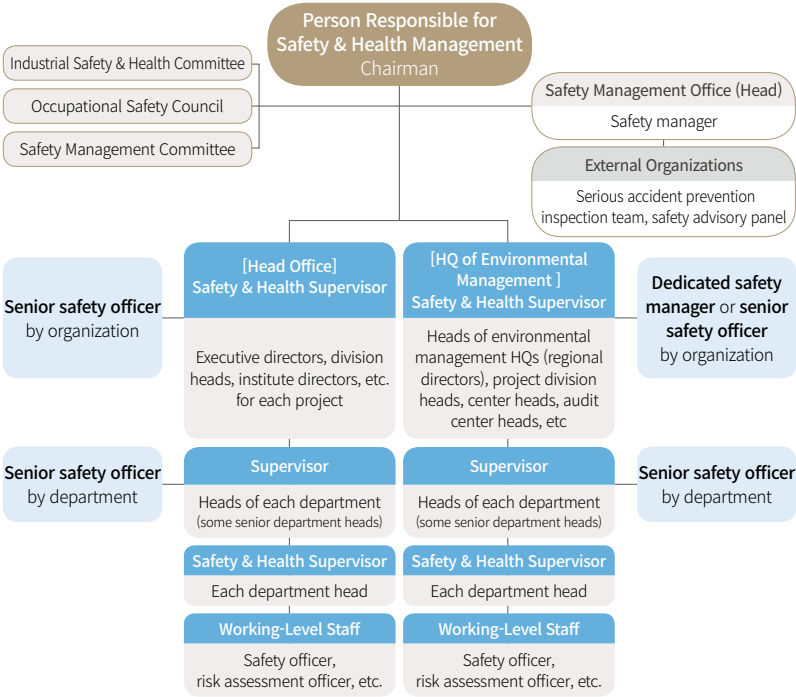
### Safety Management Strategy



## Operational System for Occupational Health & Safety Management

K-eco designates the Chairman as the person responsible for safety and health management and operates a robust governance system through the Safety Management Office, the Industrial Safety and Health Committee, the Occupational Safety Council, and the Safety Management Committee. Safety and health managers are appointed at headquarters, the environmental headquarters, and regional branches to oversee the safety of respective sites, while supervisors and safety and health officers at each department strengthen on-site safety management. In addition, designated safety personnel in each department support operational safety duties, and collaboration with external experts including a serious accident prevention inspection team and a safety advisory panel, further enhances safety management capacity. This systematic approach ensures thorough prevention of safety accidents across all operations.

### Occupational Health & Safety Management Structure

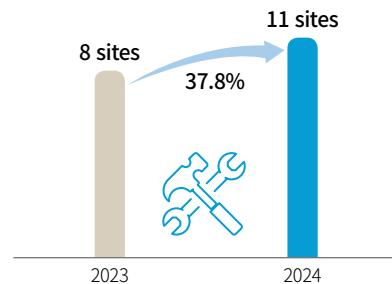


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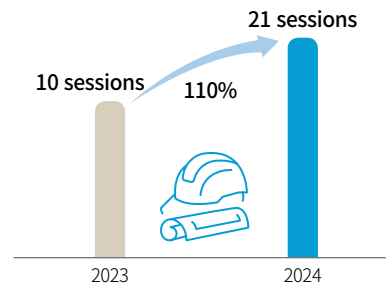
## Advanced Construction Site Safety Management

To “Realize safe and healthy workplaces” at construction sites, K-eco is strategically advancing its safety management framework. Through safety activity evaluations and tailored solutions, potential risks at construction sites are preemptively addressed, with technical support also provided for vulnerable areas. Practical, task-oriented safety training for site supervisors has strengthened capacity, while a risk assessment guide tailored to specific types of construction work has been developed and distributed to enhance on-site applicability. As a result, K-eco became the first public institution to earn the highest “Excellent” safety rating for two consecutive years in the Ministry of Land, Infrastructure and Transport’s 2024 construction site safety management evaluation. These achievements reflect K-eco’s leadership in safety management across the full cycle of construction project commissioning.

### Enhanced Inspections for Preventing Serious Accidents at Construction Sites



### Expanded Safety Consulting Provided at Newly Launched Construction Sites



**Zero Fatal Accidents**  
achieved in 2024 across all contracted and commissioned construction projects

**Record achievement of “Excellent” safety rating for 2 consecutive years**  
Scored 96 points in the 2024 Ministry of Land, Infrastructure, and Transport Safety evaluation



## Comprehensive Safety Training & Participatory Safety Culture

K-eco is strengthening safety capabilities through systematic and wide-ranging training programs that go beyond legal compliance. A 100% completion rate has been achieved for mandatory and risk assessment training across all employees, while region-specific and position-specific customized training has been provided to executives, supervisors, and other staff. To promote a shared safety culture, the 27th of each month has been designated as “Small Yet Certain Safety Day”\* for organization-wide participation in safety activities. In the Disaster and Safety Excellence Case Contest, 67 of the 196 entries (34%) involved partner companies, demonstrating the expansion of safety culture throughout the value chain. Additionally, K-eco has designated the second week of November as its “industrial safety and health emphasis week,” during which a wide range of safety culture programs are implemented. Incentives for zero-accident performance further encourage proactive industrial accident prevention efforts by partner firms.

\*Small Yet Certain Safety Day: Referencing the popular Korean expression *sohwakhaeng* (small yet certain happiness), this day is dedicated to actions such as open safety communication, risk identification, and behavioral safety management that contribute to creating a safe workplace

### “Small Yet Certain Safety Day” with Executive Participation

<b>Safety Communication</b>	Collecting on-site safety concerns and suggestions / Discussing ideas for improvement / Sharing best practices in advanced safety management
<b>Safety Inspections</b>	Checking for high-risk hazards / Identifying danger zones at worksites / Organizing site materials and equipment
<b>Safety Education</b>	Inviting external experts for lectures / Screening safety videos / Disseminating near-miss incident cases
<b>Safety Experiences</b>	VR experiences / Disaster safety simulation / Safety quiz contests / Safety pledge events
<b>Health Activities</b>	Offering health and wellness programs and education / Improving working environments



Small Yet Certain Safety Day

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## Strengthening Crisis & Disaster Management Plans

Based on internal and external environmental analyses in 2024, K-eco established three strategic directions—advancement of safety management systems, securing a safe living environment for the public, and minimizing cyber disasters—along with six key tasks. Through intensive disaster response drills including fire response and comprehensive recovery support in disaster-stricken areas, K-eco successfully achieved zero occurrences of natural disasters, social disasters, and serious accidents for two consecutive years. In 2025, a proactive safety management plan was developed to address emerging disaster trends, including multi-occupancy facility accidents, abnormal weather, and earthquakes. Through 17 initiatives across three focus areas, K-eco continues working toward a goal of zero natural and social disasters, contributing to public safety and the realization of environmental values.

### 2025 Crisis & Disaster Management Implementation Plan

Goal

Zero natural and social disasters

Implementation  
Tasks

1

#### Prevention & Preparedness

1. Conduct safety training for emergency relief activities
2. Strengthen disaster and safety inspections during high-risk seasons
3. Implement fire safety management tailored to each facility
4. Ensure specialized training for disaster management personnel
5. Designate and train managers for disaster management resources
6. Revise and manage K-eco's disaster and safety manual
7. Establish and manage the annual plan in accordance with the Framework Act on Disaster and Safety Management
8. Operate "Safety Inspection Day" programs
9. Update the business continuity plans for core projects
10. Conduct hands-on disaster and safety training for employees
11. Manage seismic retrofitting of existing public facilities
12. Carry out disaster preparedness drills (Safe Korea, routine, civil defense drills)

2

#### Response & Recovery

1. Establish and inspect disaster alert dissemination and reporting systems
2. Operate a disaster support communication channel for local communities

3

#### Other Initiatives

1. Strengthen the capabilities of the disaster and safety situation room
2. Require all departments to draft their own safety management plans for internal events
3. Conduct wartime disaster response training with a crisis management context

## Smart & Site-Specific Safety Management

K-eco operates a Serious Accident Prevention Task Force composed of external safety experts from relevant fields. The task force conducts thorough safety inspections of high-risk sites to identify potential hazards in advance, implements corrective measures, and establishes recurrence prevention plans, thereby strengthening workplace safety management. In response to heightened public concern following the fire at a battery plant in Hwaseong, K-eco conducted targeted inspections of lithium-ion battery facilities, preemptively identifying and eliminating 38 risk factors. By hosting a public-private-administrative policy forum and issuing safety management guidelines for recycling, the corporation ensured safety at 17 sites including scrapyards and achieved zero fire incidents at waste battery hub centers. K-eco also adopted cutting-edge technologies such as drones and ICT-based systems to close safety blind spots and promote on-site safety. These innovations, combined with proactive public service and safety technology development, earned K-eco the Presidential Citation and the Prime Minister's Award at the Ministry of the Interior and Safety's Safety Technology Awards.

### Closing Safety Blind Spots with Advanced Safety Technologies

#### Drone-Based Safety Risk Detection

- Collected visual data, map site drawings, and analyze information  
→ Built a site-specific information database
- Inspected inaccessible or high-risk blind spots

#### ICT-Based

#### Smart Safety System Deployment

- Introduced smart safety systems at agricultural waste processing facilities
  - Provided real-time information enabling workers to detect and respond to hazardous situations
  - Completed safety system installations at four sites, including a recycling facility in Anseong

#### Digital Transformation of Construction Site Safety Management

- Conducted real-time risk assessments at construction sites using a mobile app  
→ Piloted at 7 sites
- Enhanced site monitoring using mobile CCTV units

#### Expansion of Safety Technology Adoption

- Deployed "Manhole Keeper," co-developed with private-sector partners to enhance pedestrian safety
  - Installed at 756 locations across 17 sites including Suwon (KRW 234 million)
  - Achieved zero safety incidents in installation areas during heavy rainfall

# Public Safety

## Role of the Newly Organized Environmental Safety Support Group

K-eco has established the Environmental Safety Support Group to oversee chemical substance management, chemical testing, and environmental safety in daily life, thereby safeguarding public health and safety. In 2024, the group focused on ensuring a seamless transition of newly transferred projects from the Korea Chemicals Management Association, alongside the continued implementation of existing programs. In 2025, K-eco plans to launch the full-scale operation of the hazard information notification system,\* including the review of notification appropriateness, investigation and disclosure of hazard information, and the provision of free consulting services to industry (500 sessions).

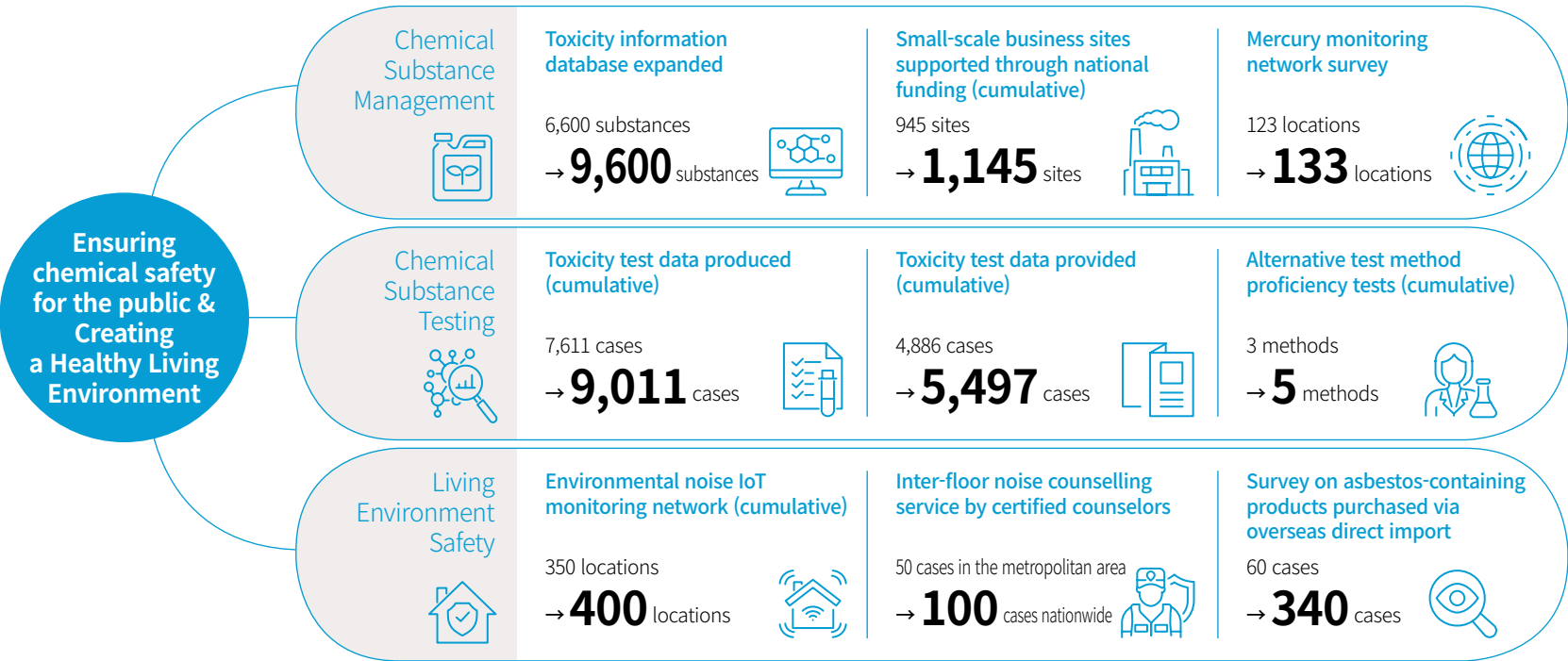
\* Hazard information notification system: A chemical safety management measure introduced following the rationalization of the registration threshold for new chemical substances (from 0.1 tons to 1 ton)

In accordance with the Act on the Registration and Evaluation of Chemical Substances, the government directly produces and provides hazard test data to alleviate the compliance burden on small and medium-sized enterprises. In line with the Ministry of Environment's plan to promote alternative testing in the chemical sector (2022–2030), K-eco is working to obtain GLP\*\* certification and secure advanced testing technologies, aiming to complete construction of an alternative testing facility by 2026. Furthermore, by expanding the scope of the inter-floor noise mediation service, the corporation plans to offer psychological counseling services and a nationwide noise measurement reservation system, extending support to non-apartment residences such as officetels, which were previously excluded.

\*\* GLP (Good Laboratory Practice): Laboratory operation standards defined by OECD member states for toxicity testing and evaluation of chemical substances

## Key Tasks for the Environmental Safety Support Group in 2025

\* Figures represent 2024 performance → 2025 target



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## Reducing Environmental Risk Factors in Daily Life

To ensure the safety of overseas direct-purchase products, K-eco analyzed 60 items purchased via platforms such as AliExpress and Temu for asbestos content. Products exceeding safety thresholds were disclosed via the Consumer24 portal, and their import and distribution were restricted in cooperation with the Korea Customs Service and the Ministry of Employment and Labor, thereby strengthening asbestos safety management. Using newly developed investigative methods, K-eco conducted a survey of aging slate-roofed buildings, identifying previously overlooked asbestos-containing structures and addressing blind spots in asbestos safety. In response to the expansion of regulated substances under international conventions, K-eco converted pilot monitoring items into regular monitoring targets, thereby reinforcing the management of persistent organic pollutants (POPs) at an international level. To improve indoor air quality management in multi-occupancy facilities, K-eco expanded the national measurement network and integrated it with ultrafine dust monitoring in underground stations, strengthening public information through the integrated indoor air quality information system.

## Improving Quality of Life through a Healthy Living Environment

### Addressing Asbestos Blind Spots

Overseas direct purchase<sup>1)</sup> / Aged slate buildings<sup>2)</sup>

- 1) Exceeding asbestos limits identified in 8 products  
→ Information disclosed on Consumer24; import and distribution control measures taken in cooperation with Korea Customs Service and the Ministry of Employment and Labor
- 2) Survey of aged slate buildings conducted in Asan using a newly developed survey method  
→ 2,875 previously unregistered asbestos buildings identified

Strengthening asbestos safety management through the identification of hidden asbestos risk factors

### Monitoring of POPs

Transition to regular monitoring, prioritization, and focused surveys of high-concentration sites

- |   |   |   |
|---|---|---|
| Pilot monitoring items included in regular monitoring | Expanded hazardous substance monitoring (14 types in 2023 → 17 types in 2024) | Joint public-private investigation and follow-up management of high-concentration sites |
|---|---|---|

Contributing to the prevention and reduction of environmental pollution, and successfully implementing international agreements

To support vulnerable populations, such as children, K-eco established a technical and budgetary cooperation framework with the Korea Institute of Civil Engineering and Building Technology (Indoor Environment Management Center), tripling service coverage from the previous year. For 600 daycare centers, the corporation measured and analyzed all ten legally mandated indoor air quality indicators. Following tailored improvements—such as the installation of ventilation systems at 52 centers exceeding legal limits—air pollutants were reduced by an average of 79%, achieving full compliance with legal standards. These efforts saved KRW 480 million in testing costs and contributed to protecting the health of approximately 35,000 children and staff.

Selected as an “Excellent Case of Public-Facing Service Innovation” among public institutions in 2024

Ministry of Economy and Finance



Integrated Indoor Air Quality Management Information Network



InAir Website & Mobile App

Indoor Air Quality Improvement in Facilities Used by Environmentally Vulnerable Groups

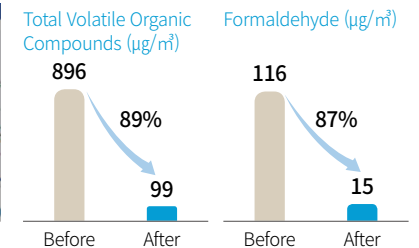


Improvement of Facilities Exceeding Legal Standards



Air purifiers

Reduction in Major Pollutants



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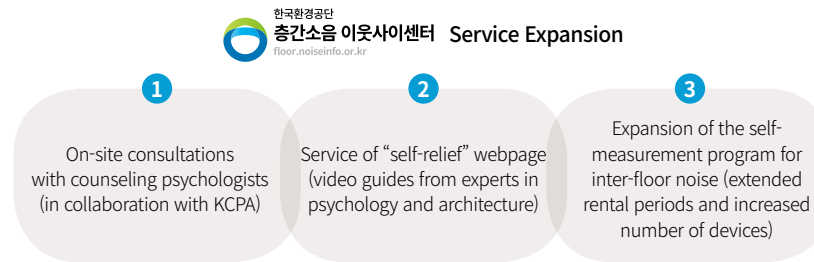
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## Advanced Noise Management System for a Peaceful Living Environment

K-eco is actively addressing various types of environmental noise, such as inter-floor and aircraft noise, to promote a more tranquil living environment for the public. The Inter-floor noise mediation service was enhanced through a partnership with the Korean Counseling Psychology Association (KCPA) to offer joint in-home counseling sessions with professional counselors, along with the establishment of a “self-relief” page and expanded self-measurement services, contributing to early conflict resolution. The corporation also upgraded the manual environmental noise monitoring network to an IoT-based automated system, enabling real-time data collection and expanded public access via the National Noise Information System. In Daejeon—the first city to adopt the IoT monitoring system—K-eco conducted consultations using real-time environmental noise data, supporting local efforts to mitigate noise. Through the SME performance sharing program, K-eco developed an AI-based aircraft noise automatic classification system, enhancing both the efficiency and credibility of noise management while fostering mutual growth by boosting SME sales. These innovative efforts were recognized with the Minister of Environment Prize in the Policy Application category of the 2024 Environmental Data Analysis and Application Contest.

### Diversified, Streamlined, & Advanced Noise Management Services



### Noise Management Using IoT and AI



#### Environmental Noise

Real-time data collection through IoT-based monitoring networks

- Data publicized via the national noise information system
- Utilized for noise reduction consulting in Daejeon



#### Aircraft Noise

Development of an AI-based aircraft noise automatic classification system (SME performance sharing program)

- Achieved 97.4% classification accuracy
- Deployment at 10 monitoring stations (Dec 2024)  
→ Phased expansion to all 88 sites
- 90% cost reduction in outsourcing services upon system deployment

### Minister of Environment Award for policy application

2024 Environmental Data Analysis & Application Contest

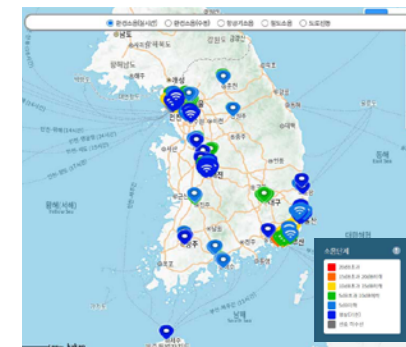


### Self-Relief Page on floor.noiseinfo.or.kr

Video guides from experts in architecture and psychology to improve public understanding of inter-floor noise



### NOISE Info 국가소음정보시스템 National Noise Information System



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## Establishing a Proactive Chemical Substance Management System

In preparation for the revised chemical substance notification system (January 2025) and the public release of hazard information (August 2025), K-eco has strengthened pre-implementation support to facilitate institutional understanding and system adoption. As a result, the corporation secured preliminary hazard information on 6,600 substances and supported companies with the notification process, achieving a 91% satisfaction rate in consulting services. Hazard data were confirmed for 49.7% of new chemical substances circulating in quantities under 1 ton. Jointly produced hazard test data by industry and government were made available to companies not involved in the joint production process, allowing 45 companies to access 176 test reports in 2024 alone and reducing corporate expenses by approximately KRW 1.5 billion. K-eco also provided technical and financial assistance to chemical testing institutions, resulting in two laboratories receiving certifications for three new test items. To secure advanced-level alternative testing capabilities, the corporation became the first domestic GLP-certified institution to receive confirmation of its pathology examination results from an external accredited agency, achieving 97.5% accuracy. Furthermore, K-eco contributed to animal welfare and the reduction of animal testing through implementation of the 3Rs (Replacement, Reduction, Refinement) in line with international ethical standards.

### Maximized Use of Jointly Produced Toxicity Data



### Test Institutions Seeking GLP Certifications Benefits from Highest No. of Test Items (Based on data from the past 5 years)



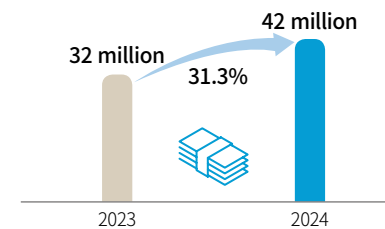
## Strengthening Safety Management for Chemical-Handling Businesses

K-eco is enhancing public safety and environmental protection by improving the hazardous chemical management system and expanding support for SMEs. In 2024, the corporation increased support for comprehensive safety management—including pre-operation inspections, operational monitoring, and post-inspection follow-up—by 12.8% year-on-year. It also improved the chemical safety capacity of high-risk industries through the designation of “chemical safety lighthouse businesses.” As a result, companies participating in K-eco’s support programs achieved zero chemical accidents. Recognizing the need for risk-proportional, rational regulation, K-eco improved the chemical substance management system based on hazard levels and volume thresholds, alleviating the burden on SMEs. Notably, revisions to the Chemical Substances Control Act—such as exemptions from periodic inspections and the relaxation of inspection cycles—are expected to reduce SME costs by approximately KRW 4.2 billion.

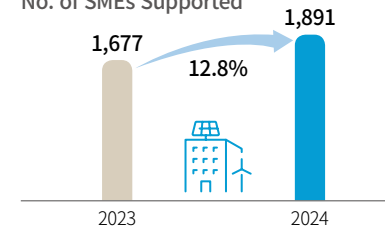
\* Chemical safety lighthouse business: A model site that leads chemical safety management in its sector, much like a lighthouse guiding ships

### Expanded Support for Hazardous Chemical Handling Facilities

Maximum support per enterprise (KRW)

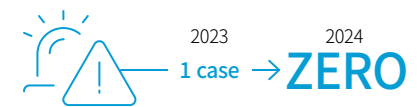


No. of SMEs Supported



### Designation of Chemical Safety Lighthouse Businesses\* by Industry

No. of chemical accidents among participating companies



Dissemination of chemical safety management improvement cases by industry for a total of 24 companies in plating, paint, and metal recycling industries

▶ Participating companies in the support program achieved zero chemical accidents

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## Establishing a Flawless Cybersecurity System

K-eco is committed to ensuring the stable operation of its environmental information system services for the public. To this end, the corporation has reinforced its information security cooperation framework and developed preventive and responsive management systems to minimize cyber risks. Through data recovery training and continuous cyberattack monitoring, K-eco ensures uninterrupted operations 24/7, year-round. It has also created a secure digital environment by building a robust security infrastructure and collaborative system. As a result, K-eco earned the highest rating, Grade A, in its first-ever cyberattack response training, and ranked first among all public institutions with a score of 91.99 in the National Intelligence Service's assessment of information security management, maintaining an "Excellent" rating for three consecutive years.

### Enhanced Information Management for a Safe Digital Cultural Environment

#### Realistic cyberattack response measures

- Expanded cyber crisis alert-level response training from single stage → **four stages** (Attention – Caution – Warning – Severe)
- Scenario-based phishing email training using AI

**Received highest grade 'A' in NIS cyberattack response training**  
(First time for K-eco, improved from grade C → A)

#### K-eco-led joint security activities with multiple institutions

- Hosted vulnerability identification contest in cooperation with private sector
- Identified and disseminated major security vulnerabilities (shared via NIS platform) → 3 times more than NIS evaluation standard (50 cases)

**NIS additional information security activity score**  
1.4 → 2.9 out of 3.0

#### Joint information security audits with the NIS

- Improvement from on-site inspections → **Added pre-remote inspection**

**Audit duration 30% ↓**, easing administrative burden on internal staff  
Paper-based logs digitized, promoting a **paperless environment**

#### Strengthening of security diagnostics through pre-inspections of information systems

- 100% immediate remediation of discovered security vulnerabilities
- Expanded unannounced security audits for IT service contracts
- Introduced document encryption technology to prevent data leaks

**Perfect prevention of information security hacking incidents**

**Ranked No. 1 among all public institutions (top rating for 3 consecutive years)**

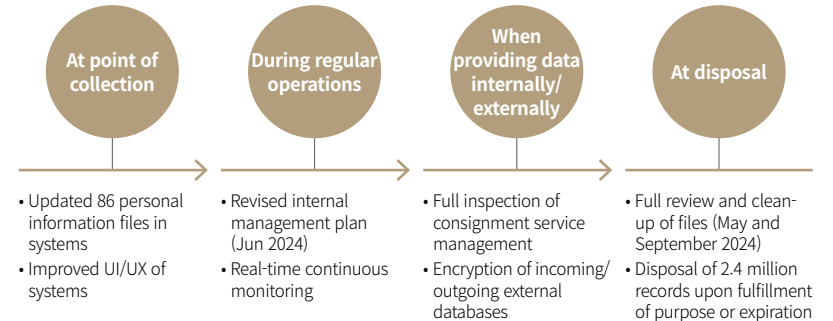
NIS evaluation of information security management: 91.99 points (Excellent)



## Enhanced Full-Cycle Management of Personal Information

In response to the comprehensive amendment of the Personal Information Protection Act and increasing risks of data breaches and leaks, K-eco has strengthened its internal management systems. The corporation has adopted rigorous life-cycle management of personal information to proactively prevent leaks and exposure. This includes enhanced control at every stage from collection to disposal, real-time detection, response to leak incidents, and the establishment of monitoring and logging systems for abnormal activity. Furthermore, the corporation has convened a personal information protection council chaired by its Chairman, introduced and expanded shared crisis response manuals and encryption key management protocols, and offered case-based online and offline training. As a result of these efforts, K-eco achieved the highest "S" rating (top 1.9% of evaluated institutions) in the personal information protection level assessment.

### Reinforcing Life-Cycle Management of Personal Information



#### Additional Personal Information Protection Measures

Advanced prevention of unintentional exposure

Established and expanded organization-wide management guidelines

Chairman-led personal information protection initiatives

Systematic and differentiated training for all staff

**Received "S" (highest rating) in the Personal Information Protection Commission's personal information protection level assessment**

No issues found during on-site inspection



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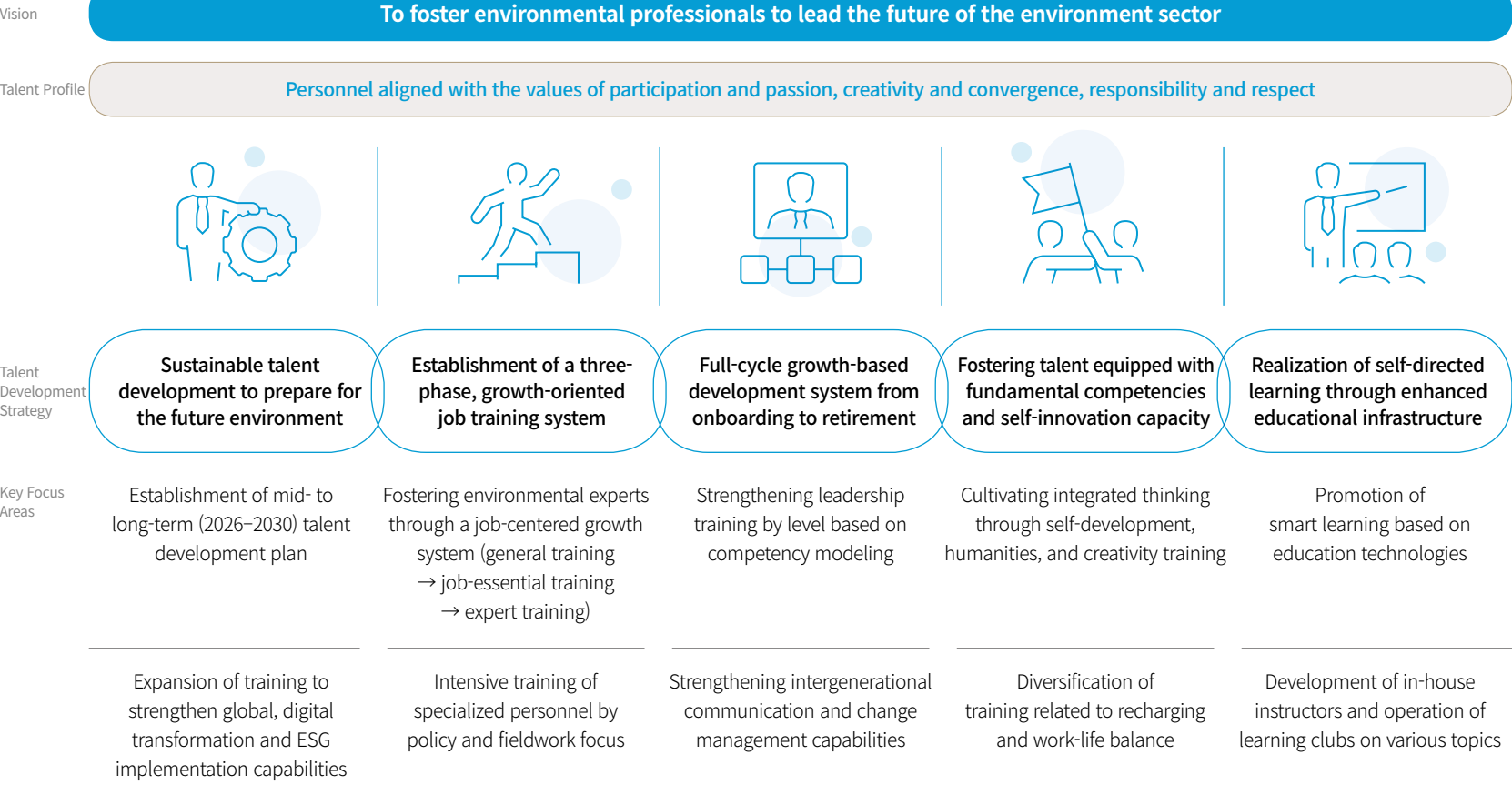
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# Fostering Talent, Respecting Diversity

## Talent Development Strategy & Talent Profile

Under its mission, “A sustainable future, an environment shared by all,” K-eco has established a vision to “foster environmental professionals to lead the future of the environmental sector.” The corporation is building a sustainable talent development framework to cultivate personnel aligned with the values of participation and passion, creativity and integration, responsibility and respect. Strategic initiatives include establishing a three-phase, growth-oriented job training system to prepare for future environmental challenges, implementing full-cycle leadership development from recruitment to retirement, nurturing foundational competencies and self-innovation capacities, and promoting self-directed learning through enhanced educational infrastructure. By fostering experts with the capability to lead environmental policies and projects, K-eco seeks to strengthen institutional capacity and fulfill its public value as a government agency.

### Talent Development Vision, Strategy, & Key Focus Areas



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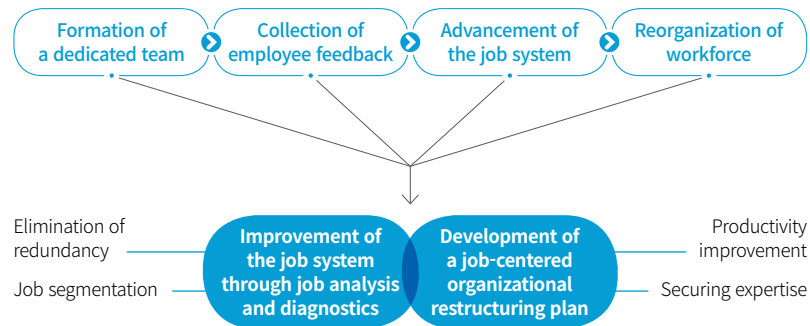
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## Job-Centered Human Resource Redistribution

K-eco is enhancing its job-centered human resource management system to strengthen organizational competitiveness. Through a diagnosis of its job framework, the corporation streamlined 132 redundant and overlapping roles and segmented job classifications based on strategic importance and workload. K-eco improved productivity by consolidating duplicate roles in regional offices while bolstering expertise through the addition of new roles and organizational units. It is also transitioning from a project-centered staffing model to a value-oriented one. In 2024, K-eco adopted job unit-based staffing standards, laying the groundwork for a value-driven allocation system, with plans for phased expansion in 2025. By 2026, job evaluation outcomes will inform personnel distribution and new hires, enabling a more flexible and sustainable staffing framework that accounts for potential shifts in job demands.

### Advanced Job Framework for a Value-Based Staffing System



2023

#### Introduction of job-centered workforce operation

- Adoption of job-based staffing management
- Adjustment of headcount based on job value

2024

#### Expansion of job-centered workforce operation

- Gradual transition to job-based staffing management
- Estimation of grade and staffing by detailed task (vertical differentiation)

2025

#### Expansion to job-centered competency evaluation

- Allocation of human resources based on job evaluation results
- Utilization of evaluation outcomes for recruitment and new talent acquisition

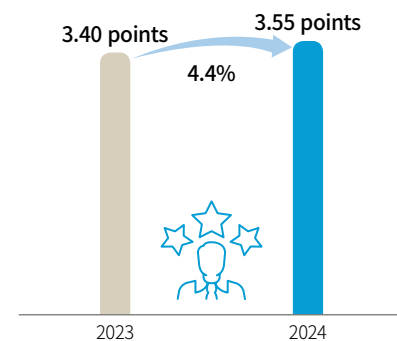
## Job Competency-Based HR Management & Compensation

To enhance fairness and objectivity, K-eco has refined its job-based performance evaluation system. Until 2023, assessments were conducted using standardized job elements, with job competency factors comprising only 50–70% of total evaluation weight. In 2024, evaluation criteria were restructured to emphasize job competencies, with greater granularity in assessment units. The weighting for job competencies was increased by 10%, bringing the ratio to 60% for Grade 3 employees and 80% for Grade 4 and below. In 2025, K-eco plans to expand job competency evaluation units from three to five and increase their weighting by an additional 10%. These improvements have led to more rational promotion and position evaluation systems. K-eco also operates a responsive feedback and rewards system via satisfaction surveys, interviews, and consulting, leading to a 0.15-point improvement in employee satisfaction score and a 6.6 percentage point increase in wage agreement approval rate, reaching 93.3%.

### Job-Centered Competency Evaluation System

–2023	2024	2025
<b>Evaluation using standardized job elements</b> <ul style="list-style-type: none"> <li>• Evaluation based on 2 job elements</li> <li>• Weight of job competencies reflected: 50–70%</li> </ul>	<b>Improvement of job competency evaluation elements</b> <ul style="list-style-type: none"> <li>• Revision of job elements and evaluation units (to 3 units)</li> <li>• Increased weight of job competencies (↑ 10%)</li> </ul>	<b>Expansion to job-centered competency evaluation</b> <ul style="list-style-type: none"> <li>• Increased number of evaluation units by grade (to 5 units)</li> <li>• Further increased weight of job competencies (↑ 10%)</li> </ul>

### Employee Satisfaction with the Evaluation System



### Enhanced Rationality of Promotion & Position Evaluation System

- Early placement of personnel with high job fit into suitable positions
- Establishment of a job-centered evaluation system
- Coaching-participating departments saw an average rank improvement of 1.7 (out of an average of 5.2 groups) / Evaluation satisfaction score increased by 2 points year-on-year (from 81.2 to 83.2 points)

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# Fostering Talent, Respecting Diversity

## Stable, Competency Modeling-Based Training System

Through the design and operation of comprehensive education programs tailored to job functions, career stages, competencies, hierarchy levels, and generational differences, K-eco has built a robust, sustainable training system over the past two years (2023–2024). In 2024, 6,732 employees completed 140 in-person training courses, with improved results across all indicators including satisfaction, applicability to actual work, and hours of training per person, culminating in a significantly improved training performance index of 94.1 points.

### K-eco Full-Cycle Training Flow (Planned for 2025)

#### Leadership Competency Training by Position Level (26 Courses)

	New Employees Grade 6 & Below	Grade 5 Senior Staff	Grade 4 Manager	Grade 3 General Manager	Grade 2 Department Head	Grade 1 Division Head	Employees Approaching Retirement
							
Year 1	Introductory Course / Advanced Course / Digital Competency Enhancement	Promotion Course	Promotion Course	Promotion Course	Promotion Course	ESG & Organizational Culture Innovation Leadership (Annual Training)	Change Management (2 Years Before Retirement)
Year3	Retention (3 <sup>rd</sup> Years) / Competency Development (Public Officials) / Youth Career Path (High School Graduates)	Competency Development (3 <sup>rd</sup> Years)	Competency Development (3 <sup>rd</sup> Years)	Prospective Managers (Competency Evaluation Passers)			Reemployment Training (Year of Retirement)
				Coaching Leadership Lv.1 (1 <sup>st</sup> –3 <sup>rd</sup> Year Department Heads)			
Year6	Level-Up (Public Officials)	Level-Up (6 <sup>th</sup> Years)	Level-Up (6 <sup>th</sup> Years)		Coaching Leadership Lv.2 (4 <sup>th</sup> +Year Department Heads)		
Years 10–30			10 <sup>th</sup> Year Employee Training	20 <sup>th</sup> Year Employee Training	30 <sup>th</sup> Year Employee Training		

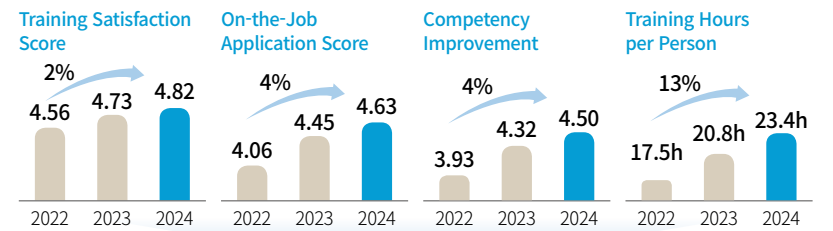
### Job-Specific & General Competency Training (124 Courses; Planned for 2025)

Self-Innovation 3 courses	General Competency 8 courses	Job-Essential Competency 16 courses
Humanities and Cultural Literacy / Emotional Wellness (EAP) / Regional Cultural Exploration	Planning Competency (2 courses) / Office Automation (3 courses) / Creative Job Competency (3 courses)	Policy Fundamentals (5 courses) / Inspection/Diagnostics (6 courses) / On-site Safety Management (3 courses) / Ethical Management (2 courses)
Digital Innovation 17 courses	Job-Expertise 75 courses	Work-Life Balance 5 courses
Digital Transformation (3 courses) / Data Utilization (4 courses) / Fourth Industrial Revolution Technologies (4 courses) / IT Professional Skills (2 courses) / Information Security (3 courses) / Environmental Drones (1 course)	Business Planning (15 courses) / Climate and Air (13 courses) / Water Environment (10 courses) / Resource Circulation (11 courses) / Environmental Facilities (11 courses) / Environmental Safety (9 courses) / Global Affairs (1 course) / Other (5 courses)	Family Environment Safety Camp / Family Global Camp / Working Moms & Dads / Comeback Working / Overcoming Low Birthrate

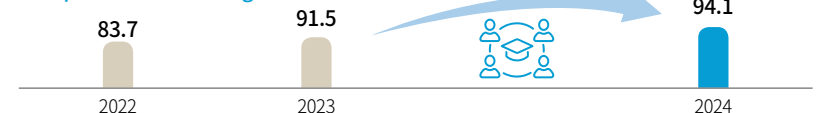
### Second-Year Status of Overall Courses

Category	2022 (Post-COVID Transition Period)			2023			2024		
Total No. of Courses	89			134			140		
No. of Courses by Competency Type	Job	Leadership	General	Job	Leadership	General	Job	Leadership	General
	64	21	4	104	21	9	110	24	6

### Specified and job-centered course structure Restructured and expanded to 140 courses across leadership, job-specific, and general competencies



### Comprehensive Training Performance Index



#### Competency modeling-based training linked to policy support and future tasks

- Digital innovation competencies segmented into four domains with stepwise training (basic → advanced)
- Enhanced carbon neutrality training (introductory → practical → advanced) / ESG management integration through linked training programs

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# Fair & Transparent Recruitment

## Empathetic Recruitment Based on Job Competency

K-eco has established a recruitment system that reflects the voices of employees and stakeholders to ensure a process that garners broad consensus. By conducting a preliminary analysis through the fair recruitment certification process, the corporation has instituted a transparent and fair recruitment system centered on job competency, and strengthened fairness and transparency in the recruitment process by providing detailed job descriptions focused on job seekers, differentiating NCS questions, and offering AI interview training. As a result of these efforts, recruitment satisfaction has increased for three consecutive years, while onboarding programs such as mentoring and S-OJT have contributed to reducing the six-month turnover rate to the 4% range. In recognition of these achievements, K-eco received a score of 92.6 in the 2024 fair recruitment assessment—surpassing the average of 90.5 among 73 participating institutions—and was certified as an “Excellent Institution in Fair Recruitment” for the first time. This follows a 2023 commendation from the Ministry of Economy and Finance, marking two consecutive years of external accolades in the area of fair recruitment and demonstrating the strength of K-eco’s sustainable HR management system.

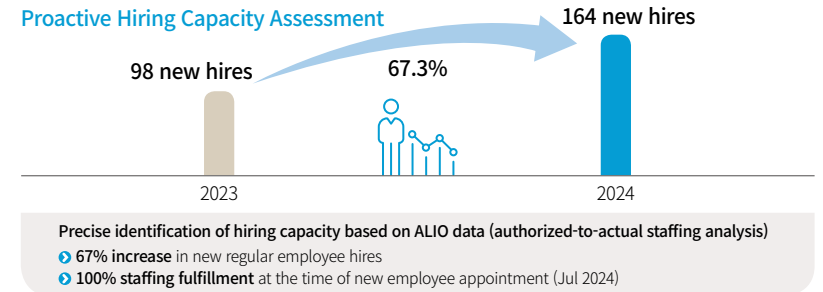
### Empathetic Recruitment Based on Job Competency



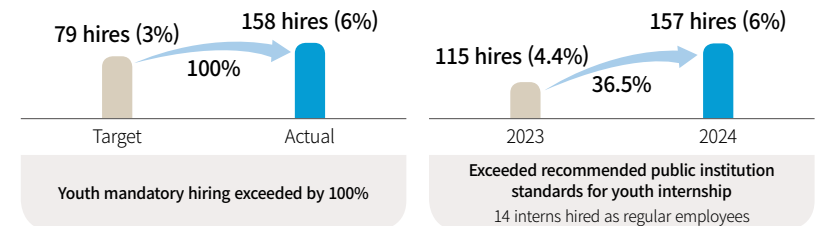
## Expansion of Youth Hiring through a Multi-Faceted Approach

K-eco implemented an aggressive employment policy by setting the regular hiring scale at the maximum level to overcome the employment market crisis caused by the economic stagnation. By conducting a precise workforce analysis based on ALIO data—including projected vacancies due to parental leave, part-time employment, and expected resignations—the corporation identified additional hiring capacity. As a result, K-eco secured 164 new regular hires, marking a 67% increase from the previous year, and expanded inclusive limited-competition recruitment to 36 positions. To increase youth recruitment, the corporation enhanced customized outreach through university job fairs and expanded job categories, actively promoting youth employment to achieve a remarkable 97% surplus in the youth recruitment target. In addition, by expanding both the job categories and scale of high school graduate hiring, K-eco exceeded its high school graduate recruitment target by 46%. Through well-structured internship programs, the corporation also created more pathways to full-time employment, fulfilling its role as a socially responsible public institution.

### Proactive Hiring Capacity Assessment



### Expanded Youth Employment



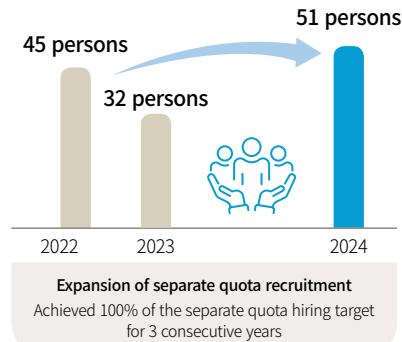


# Fair & Transparent Recruitment

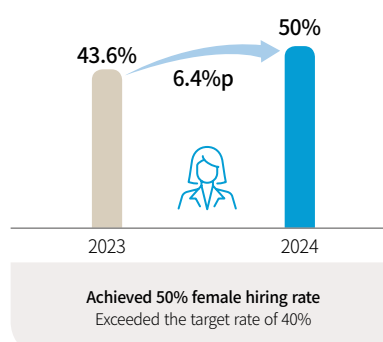
## Intergenerational Cohesion & Gender-Balanced Recruitment

Based on the government's recommendation for wage-peak programs in public institutions, K-eco has implemented the wage-peak system, thereby creating youth employment opportunities and promoting intergenerational solidarity. This system, which guarantees retirement at age 60, applies to general staff within two years of retirement. The labor cost savings generated through this program are reinvested to fund additional youth recruitment outside the regular headcount. K-eco also strictly adheres to blind recruitment principles, ensures gender-balanced composition of hiring committees, and actively operates a targeted hiring program for women with career interruptions. As a result of these efforts, the proportion of women recruited in 2024 reached 50%, surpassing the target of 40% and marking a 6.4% increase from the previous year. This outcome demonstrates the corporation's firm commitment to diversity and inclusion.

### New Hires Under Separate Quota for Wage-Peak System Positions



### Strengthened Female Recruitment



### Winner of the "Best Fair Recruitment Practice" Award

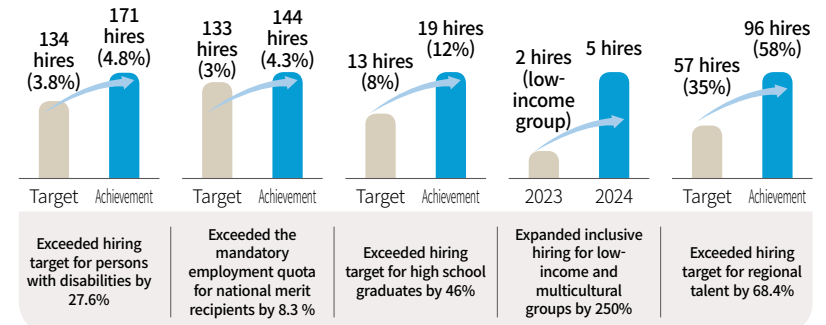
ESG Innovation Best Practice Competition



## Expansion of Equitable Recruitment for Underrepresented Groups

K-eco actively promotes inclusive growth by expanding equitable recruitment for underrepresented groups. The number of limited-competition hires for individuals with disabilities, national merit recipients, and high school graduates doubled from the previous year to 36. The corporation also operated targeted recruitment programs for low-income individuals, North Korean defectors, multicultural families, and women returning to the workforce. These efforts led to a 2-fold increase in the number of applicants from these groups, and the number of hires doubled as well. K-eco also exceeded the regional talent recruitment targets (35%) by a significant margin (58%). In 2024, the corporation prioritized disability employment as a key strategic initiative, granting extra points to former interns with disabilities and hiring nine regular employees with disabilities. As a result, K-eco exceeded its statutory disability employment quota for the fifth consecutive year, achieving a record-high disability employment rate of 4.8%. Post-hiring, the corporation supported stable organizational integration for employees with disabilities, minimizing turnover rates. Recognized for its achievements, K-eco was named a "Reliable Employer for Disability Inclusion" in 2023, and in 2024, it became the only public institution to be designated an "Outstanding Employer for Persons with Disabilities" by the Ministry of Employment and Labor for a second consecutive year.

### Expanded Equitable Hiring



### The only public institution

Selected as Reliable Employer for Persons with Disabilities in 2024 (Ministry of Employment and Labor)



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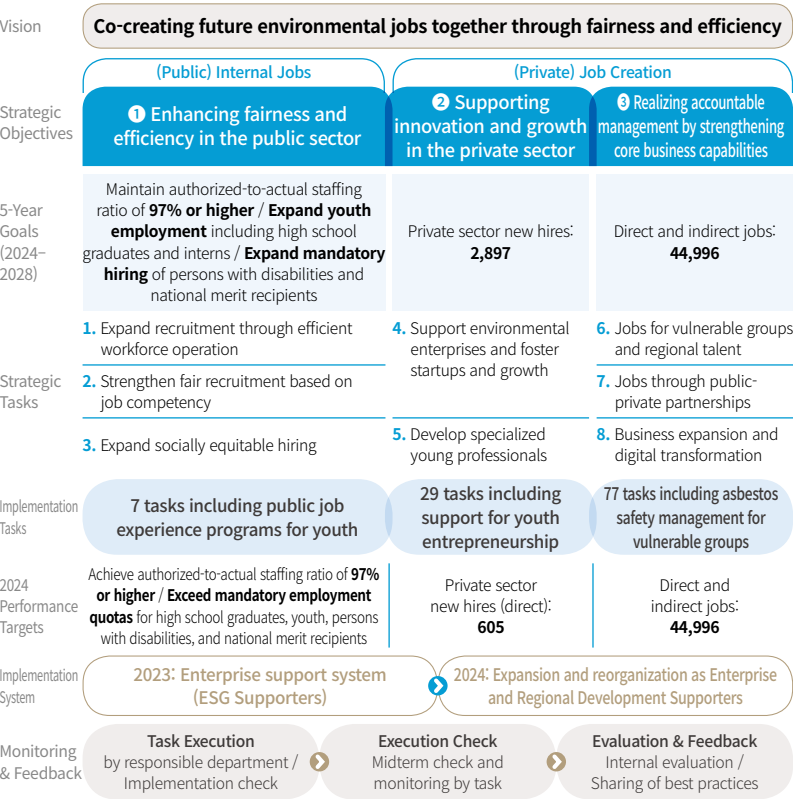
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# Job Creation

## K-eco’s Strategy for Job Creation

Under the vision of ‘co-creating future environmental jobs through fairness and efficiency,’ K-eco has established three strategic objectives: enhancing fairness and efficiency in the public sector, supporting innovation and growth in the private sector, and realizing accountable management by strengthening its core business capabilities. The corporation is systematically implementing five-year goals through 2028, along with eight strategic tasks and corresponding implementation plans. K-eco successfully fulfilled its social responsibility as a public institution in the environmental sector by creating 9,424 private-sector jobs, achieving 101% of its target.

### Future Environmental Job Creation Strategy & Implementation Framework



## Job Expansion for Innovation & Future Environmental Values

To ensure sound institutional operations, K-eco has shifted to a job-centered operational framework and is reallocating resources to prioritize its core functions. A dedicated task force has been established to guide the transition from a seniority-based system toward one centered on fairness and expertise. In response to the growing need for global competitiveness in the environmental industry, the corporation incorporated the addition of 25 new personnel into its 2025 staffing plan to support initiatives such as the EV battery green convergence cluster and the biogas production target scheme. Additionally, K-eco is working to secure nine new staff members for operations that directly enhance public well-being, such as managing the integrated information system of the basin sewerage support centers in the four major river basins, preventing chemical accidents, and improving indoor air quality in facilities used by vulnerable populations. The corporation continues to enhance its capacity to preemptively address emerging environmental challenges through field-based dialogue and consensus-building with the Ministry of Economy and Finance.

### Securing Implementation Capacity through Staffing in Core Projects

Internal function assessment through a bottom-up method of project evaluation led by internal experts (SMEs), followed by resource reallocation focused on core functions (47 personnel)			
Tasks	Essential Personnel for Core Future Projects		
Securing global competitiveness	12 personnel for preparation and operation of the EV battery green convergence cluster		4 personnel for operating the new biogas production target scheme established under the Biogas Act
	4 personnel for operating data-based integrated information systems in two river basins (Geumgang and Yeongsangang/Seomjingang)	4 personnel for operating the chemical substance identification and management system for chemical accident prevention	1 personnel for indoor air quality improvement projects in facilities used by infants and the elderly

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## Job Creation for ESG Value Dissemination & Regional Co-Prosperity

Drawing on its technical expertise, K-eco operates an ESG Supporters program to comprehensively assist environmental management in the private sector. The program facilitates open access to environmental data, provides equipment subsidies for greenhouse gas reduction and eco-friendly process improvement, and offers technical support and consulting for carbon neutrality and circular economy initiatives. To promote balanced regional development and deliver social value, K-eco enforces a regional-priority hiring policy at the Korea Water Cluster and the HR Development Center, and expands employment opportunities for the senior population and other vulnerable groups in remote areas. As a result of these public-private cooperation efforts—including tailored solutions to environmental issues, core business expansion, and digital transformation—K-eco created 8,092 private-sector jobs, achieving 97.2% of its target. The corporation remains committed to advancing ESG management and contributing to regional development through ongoing job creation.

### Private Sector Job Creation Efforts & Outcomes

Created 786 private sector jobs through **comprehensive support for private innovation and growth** (130% of target achieved)

Environmental Information	Financial Support	Consulting	Market Expansion
Supported startups by providing air quality public data to the private sector (108 jobs through app development)	Supported installation of greenhouse gas reduction facilities (73 companies, 55 jobs) / Supported the establishment of smart eco-factories (98 companies, 87 jobs)	Supported youth entrepreneurship in the environmental sector (14 companies, 12 jobs)	K-eco Win-Win Cooperation Program (19 direct and indirect jobs)

Created 546 win-win jobs tailored to **vulnerable groups and local communities** (141% of target achieved)

Senior patrols to prevent flood damage in traditional market sin local neighborhoods	Senior call agents for waste treatment site information transmission	Regional-priority hiring at the Korea Water Cluster's HR Development Center	Job creation through private consignment and discovery of regional employment opportunities
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### Selected as New Project for Senior Job Development by the Ministry of Health and Welfare in 2024

Senior call agents for transmitting waste treatment site information



## Environmental Sector Youth Startup Support Program\*

As part of the 2024 ESG-Eco Expo, K-eco organized a promotional pavilion in collaboration with five youth-led environmental startups. The 2024 Environmental Sector Youth Startup Support Program provided each selected enterprise with full financial coverage for participation and promotional materials—amounting to approximately KRW 24 million—and expanded the number of supported startups to five. K-eco will continue to foster and nurture youth entrepreneurship in the environmental field to promote sustainable growth and stimulate local economies.



Youth startup promotional pavilion at the ESG-Eco Expo Korea

\* Environmental Sector Youth Startup Support Program: A program launched in 2020, leveraging the expertise of environmental institutions to support the innovative growth of young entrepreneurs and create private sector jobs in the environmental field (provides up to KRW 11 million per company along with professional mentoring in environmental knowledge and technology)

Created private sector jobs in the **chemical sector** through consulting, sampling, and analysis

Technical support for chemical safety in small businesses: 71 jobs	Support for the chemical substance hazard information notification system: 112 jobs	Sampling of POPs: 16.3 jobs	Analysis of POP samples: 25 jobs
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Created 164 jobs by **resolving customized environmental issues** through public-private cooperation

Technical support for chemical safety management at small- and medium-scale business sites: 91 jobs	Joint overseas expansion support for private companies: 27 jobs	Asbestos safety management in facilities used by vulnerable groups: 46 jobs
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Created 1,156 jobs through **expansion of core environmental projects** and digital transformation to respond to environmental change

Focused management of urban flood-prone areas: 998 jobs	Installation surveys and construction for EV chargers: 123 jobs	Automated measurement of non-point source pollution reduction: 35 jobs
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## K-eco Work-Life Balance Task Force

To help address Korea's low birthrate through the promotion of a work-life balance culture, K-eco established a dedicated taskforce under the leadership of the Head of HR Management to revise internal regulations and organizational practices. As a result, the number of female employees taking parental leave increased by 7.1% year-over-year, while those utilizing reduced work hours for childcare surged by 30.8%. In addition, the corporation significantly expanded its childbirth and parenting support programs, leading to a 13% increase in users. K-eco now provides up to KRW 2.5 million in childbirth-related support, reinforcing its family-friendly welfare initiatives. These efforts led to K-eco achieving a family-friendly certification from the Ministry of Gender Equality and Family for 12 consecutive years, demonstrating the successful integration of work-life balance into its organizational culture.

## Active Support for Work-Life Balance through Substantive Improvements in Childbirth & Childcare-Related Policies

Category	Initiatives
<b>Pregnancy &amp; Childbirth Support</b>	<ul style="list-style-type: none"> <li>Infertility treatment leave: 3 → 6 days (paid days 1 → 2)</li> <li>Paternity leave: 10 → 20 days, can be taken in up to 3 installments</li> <li>Premature birth maternity leave: 90 → 100 days</li> </ul>
<b>Expanded Childcare Support</b>	<ul style="list-style-type: none"> <li>Childcare time off: Eligibility expanded from children under 5 to under 8 years old; usage period extended from 24 to 36 months (32% increase from previous year)</li> <li>Reduced working hours during childcare period: Eligibility expanded from children under 8 to under 12 years old; minimum usage period shortened from 3 months to 1 month</li> <li>Family care leave: Paid leave days increased by 1 day per child (6% increase from previous year)</li> </ul>
<b>Stronger Guarantees for Rest Rights</b>	<ul style="list-style-type: none"> <li>Bereavement leave: 1 → 3 days in the event of sibling death</li> <li>Long-service leave: Up to 20 days available for autonomous use within annual leave every 10 years of service</li> </ul>

**Certified as family-friendly institution for 12 consecutive years (2013–2024)**

by the Ministry of  
Gender Equality and Family

**Recipient of the Equality Award commemorating the 116th International Women's Day**

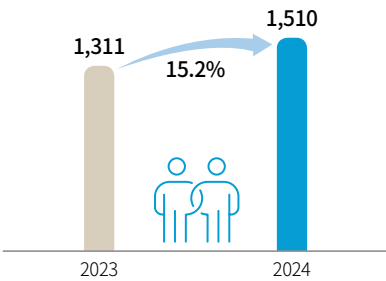
hosted by the Federation of  
Korean Trade Unions



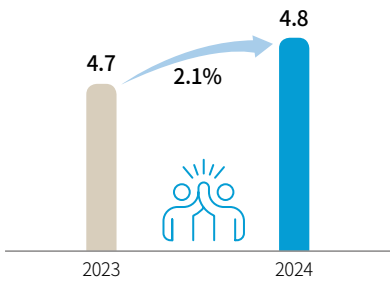
## Reinforcing Work-Life Balance through Family-Friendly Programs

K-eco offers a range of family-friendly education and programs designed to be practically beneficial to its employees. These include thematic education programs—on ecology, culture, local communities, and safety—for employees and their families, as well as working mom/dad courses to support self-management and mitigate work-life conflicts. To foster a virtuous cycle between the joy of work and the happiness at home, K-eco provides comeback training for employees returning from leave and has expanded its emotional manager EAP program to support employees in emotionally demanding roles such as counseling and civil service. Family engagement events and access to resort facilities further embed a family-oriented culture, while activities such as parent-child bonding programs help reinforce household well-being. In addition, K-eco supports the operation of joint childcare centers with six other agencies, helping to build a stable foundation for work-life balance.

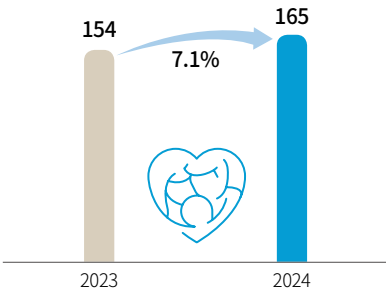
### No. of Participants in Family-Friendly Education



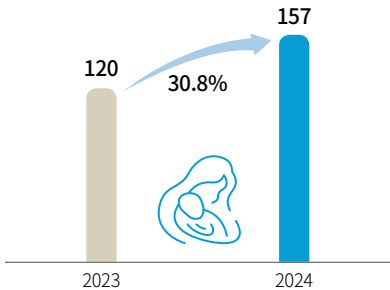
### Family-Friendly Education Satisfaction Score



### No. of Female Employees Taking Parental Leave



### No. of Female Employees Using Childcare Time Off

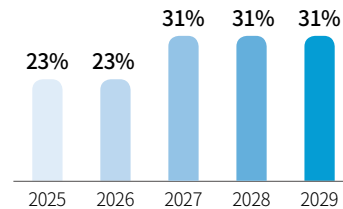


# Organizational Culture

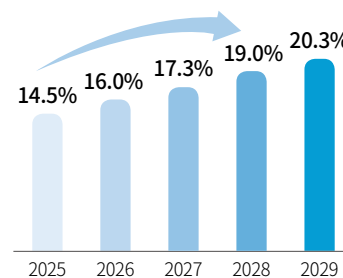
## Promoting Gender Equality through Women's Empowerment

K-eco is committed to building a culture of gender equality by securing and fostering female talent. The corporation sets mid-to-long-term goals every five years and is gradually increasing the ratio of women in executive and managerial roles. It focuses on expanding the pool of internal female executive candidates by promoting more women to senior positions. To that end, K-eco maintains a transparent, non-discriminatory recruitment process and offers support programs that accommodate work-life balance. It also provides gender-balanced training opportunities, selecting women to fill 50% of the participants in long-term training programs for Grades 3 and below in 2024. Female managers are appointed to positions that match their academic background, experience, and job relevance, with fair promotion opportunities based on competence. As a result, the ratio of female employees in Grades 1 to 3 continues to rise. Furthermore, gender balance is considered in convening future-oriented innovation meetings, with more than half of newly appointed committee members in 2024 being women. This effort aims to ensure diversity in future policy discussions and strengthen the foundation of ESG management.

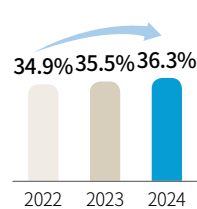
### Mid-to-Long-Term Goals for Female Executive Ratio



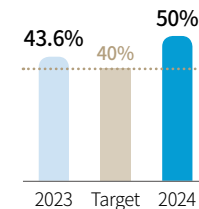
### Mid-to-Long-Term Goal to Expand Female Managers



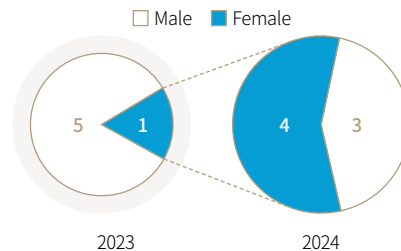
### Female Employee Ratio



### Female Hiring Rate Exceeding Target



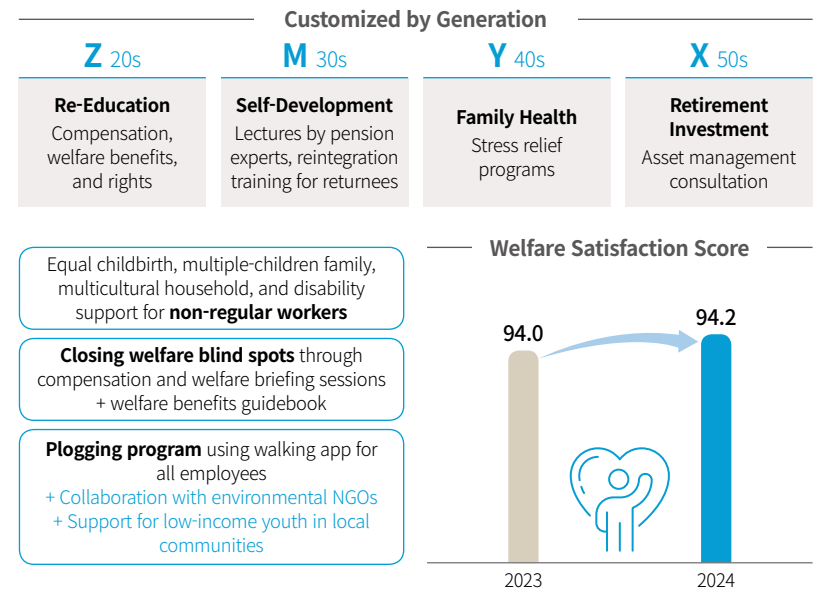
### No. of Newly Appointed Members to the Future Innovation Council (by Gender)



## Rational & Satisfactory Welfare Programs

K-eco manages a rational welfare system that meets public expectations and conducts regular surveys to improve employee satisfaction. Without additional budget allocations, the corporation increased satisfaction through partnerships with mental health centers, retirement consulting firms, shared bicycle services, cinemas, and more. To address accessibility concerns raised by regional and field staff, K-eco introduced a plogging (jogging while picking up litter) program that simultaneously promotes employee health and local environmental protection. The corporation also expanded non-financial, generation-specific welfare offerings and ensured that non-regular workers received equal benefits in areas such as childbirth, multiple-children family, multicultural household, and disability support. By hosting compensation and welfare briefings and distributing a comprehensive welfare guidebook, K-eco has proactively addressed welfare blind spots. As a result, its welfare satisfaction score rose to 94.2 out of 100.

## Customized Welfare Programs for Employee Satisfaction & Realization of Social Value



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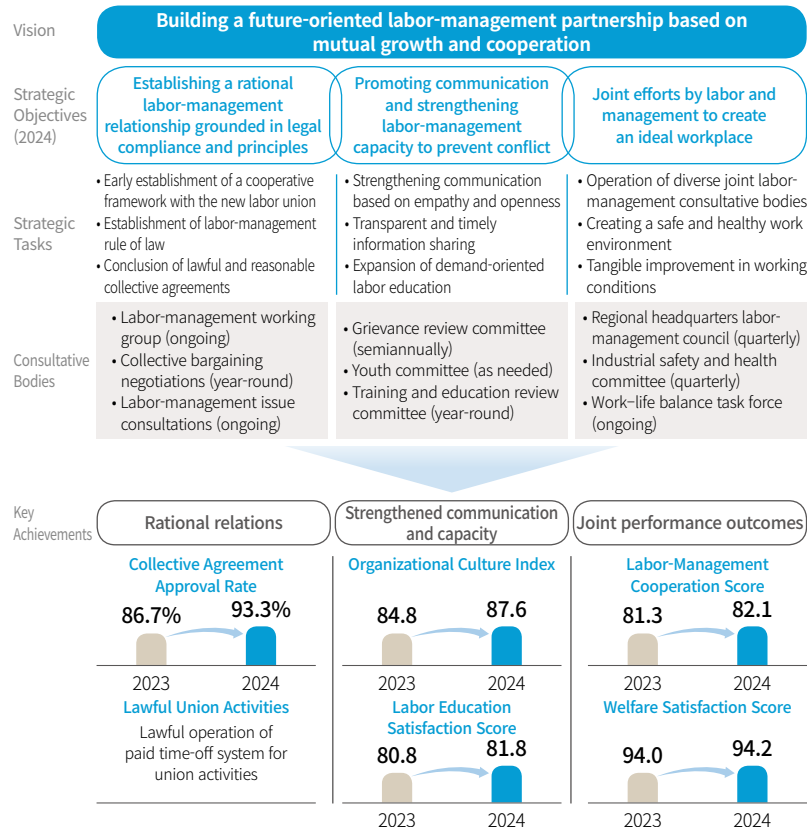


# Labor-Management Communication & Cooperation

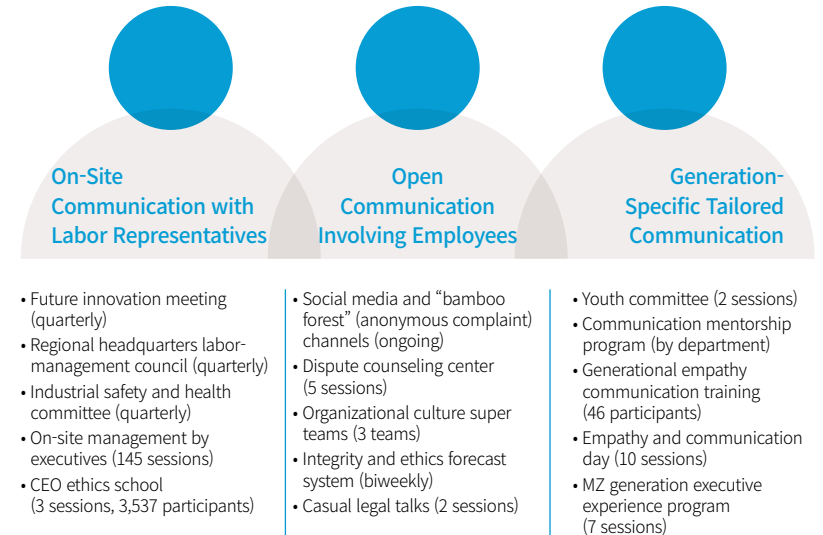
## Building a Labor-Management Partnership for Shared Goals

Under the vision of “building a future-oriented labor-management partnership based on mutual growth and cooperation,” K-eco has established and implemented a new labor-management strategy centering on three strategic objectives and nine strategic tasks. As a result of cultivating a rational labor-management relationship grounded in laws and principles, the approval rate in the union vote on the collective bargaining agreement rose by 6.6 percentage points from the previous year to reach 93.3%. Enhanced communication and strengthened labor management capabilities led to a rise in the organizational culture index to 87.6 points. Additionally, improvements in the accessibility and coverage of labor education raised satisfaction with labor education programs to 81.8 points. Joint labor-management efforts to create an “ideal workplace” resulted in a year-over-year increase in the labor-management cooperation index to 82.1 points and the employee welfare satisfaction index to 94.2 points. This exemplary labor-management partnership has been recognized externally as well, with K-eco being named an “Outstanding Enterprise” for its exemplary labor-management cooperation culture by Incheon Metropolitan City in 2024. The collective bargaining agreement was successfully concluded without strikes, labor disputes, or litigation through efficient resolution of various sources of conflict.

### Labor-Management Strategy & Cooperative Framework



### Communication Channels for Cooperative Labor-Management Partnership



**Awarded as an “Outstanding Enterprise” for labor-management cooperation culture in 2024**

Recognized for exemplary labor-management partnership (Dec 2024, Incheon Metropolitan City)

**Zero strikes, disputes, or lawsuits during wage negotiations**

Effective coordination of various potential conflict factors



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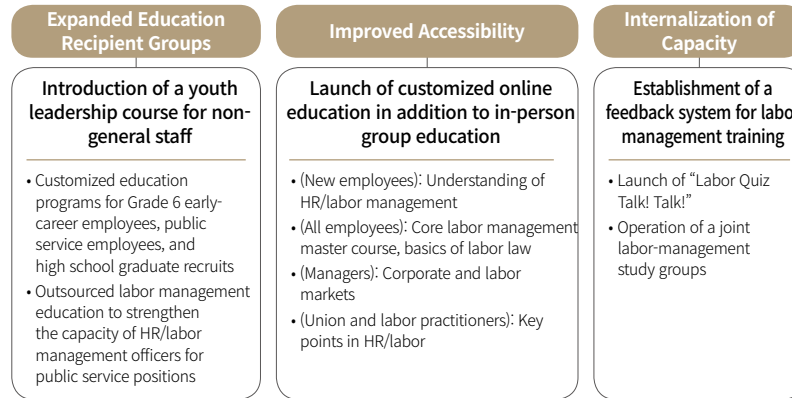
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# Labor-Management Communication & Cooperation

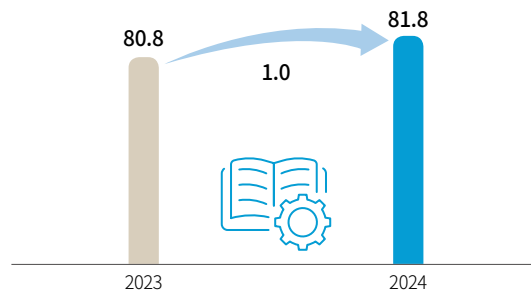
## Labor Management Education for Capacity Building

To strengthen labor management capabilities, K-eco expanded the scope of labor education recipients and improved service accessibility. While labor education had previously focused on general staff positions, the introduction of a youth leadership program and the opening of online courses extended educational benefits to all employees. In addition, on-site labor consulting and outreach services helped close service gaps to improve satisfaction with labor education to 81.8 points. The operation of the “Labor Quiz Talk! Talk!” initiative and labor-management joint study groups enabled feedback mechanisms for field-level application, achieving a field applicability index of 81.7 points. K-eco will continue to enhance labor capacity management to foster a healthy labor-management culture.

### Labor Management Capacity Building System



### Improvement in Labor Education Satisfaction Score



Labor Quiz Talk! Talk!

## Launch of K-eco's First Executive Body of Union Workers

Following the integration of labor unions in 2022 and their subsequent joint administration, K-eco's unified labor union launched its second executive body in January 2024—the first to operate under a single executive system. In March, with the approval of union members, the union was officially renamed the K-eco Labor Union, reflecting the belief that the union members have always been one. The executive body, composed of seven members including the chairman, operates under the mission of union bond, dignified demand, and effective union operations, faithfully upholding the 'Six Promises to Empower Union Members.'



The 2nd executive body of K-eco's unified labor union

### Six Promises to Empower Union Members:

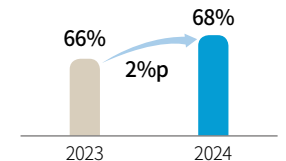
1. Real wage increase
2. Reform of HR system
3. Enhanced welfare
4. Employment stability
5. Improvement of organizational culture
6. Substantiality in training programs

In 2024, the union held five rounds of collective bargaining and nine meetings between labor and management representatives, making substantive progress in improving conditions for its members and strengthening the labor-management relationship through active communication and cooperation.

## Labor-Management Council Meetings\*

K-eco holds quarterly labor-management council meetings at the Head Office and across its eight regional headquarters to proactively address labor-management issues. For unresolved agenda items, joint labor-management responses and continuous monitoring are conducted to develop solutions, promoting a communication-centered labor-management relationship. As a result of these efforts, the adoption rate of key agenda items—such as the expansion of eligibility for parental leave—rose to 68% in 2024, and 76% of total agenda items were successfully implemented. K-eco will continue to enhance the working environment and employee welfare through ongoing labor-management communication and collaboration.

### Adoption Rate of Labor-Management Council Agenda Items



\* Labor-Management Council: A consultative body or communication mechanism established between the workers and employers within an organization to promote mutual benefit through the participation and cooperation, enhance employee welfare, and support the sound development of the organization

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# Human Rights Management

## Advancement of the Human Rights Management System

Under the vision of “A sustainable future, an environment shared by all,” K-eco is committed to advancing its human rights management system to realize its goal of “becoming a leader in human rights management with a vision of a thoughtful and empathetic future.” To this end, the corporation has established three implementation strategies: future-oriented human rights framework, enhanced level of human rights protection, and internal and external dissemination of human rights values. It is implementing specific tasks such as building a sustainable human rights foundation, addressing areas vulnerable to human rights risks, and internalizing a culture of respect for human rights. In addition, K-eco operates a governance system that includes a Human Rights Management Committee and a grievance redress mechanism, and it continuously identifies areas for improvement through internal and external human rights impact assessments and monitoring. Going forward, K-eco will continue to lead human rights management in partnership with all stakeholders and contribute to the realization of a sustainable society.

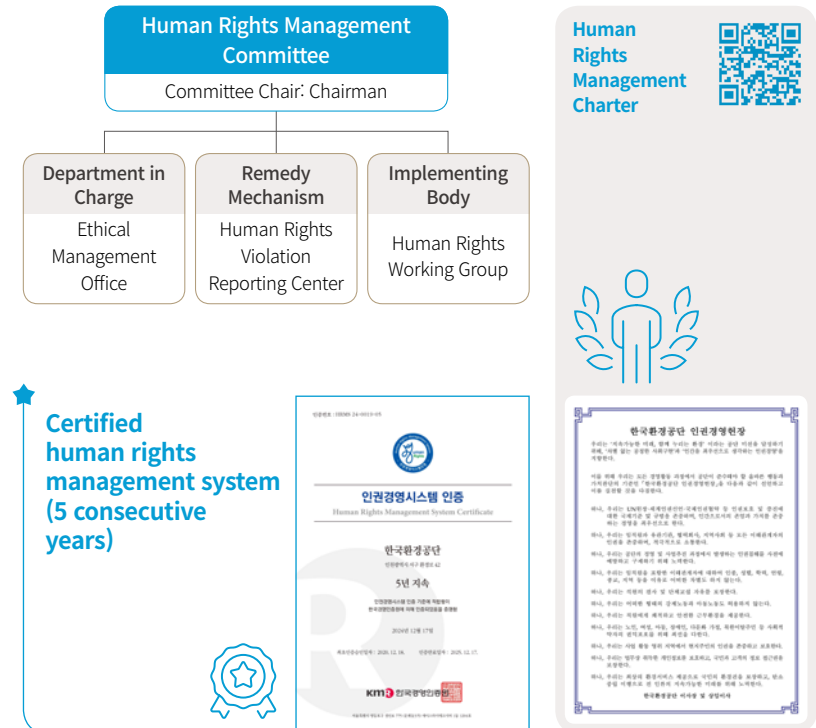
## Advancement of the Humans Rights Management System

Vision	A sustainable future, an environment shared by all		
Goal	To become a leader of human rights management with a vision of a thoughtful and empathetic future		
Implementation Strategy	<b>Future-oriented human rights framework</b> Human rights for tomorrow	<b>Enhanced level of human rights protection</b> Thoughtful and intimate protection	<b>Internal and external dissemination of human rights values</b> Shared values rooted in empathy
Implementation Tasks	1. Establishment of a sustainable human rights foundation 2. Development of a climate and human rights promotion system	3. Provision of accessible and effective remedies 4. Improvement of vulnerable areas in human rights	5. Internalization of human rights-focused organizational culture 6. Dissemination of human rights values to stakeholders
Implementation System	<b>Decision-Making Body</b> Human Rights Management Committee (13 members including Chairman)	<b>Remedy Mechanism</b> 3 major reporting centers including the Human Rights Violation Reporting Center	<b>Implementing Body</b> Coordinated system with related departments via Ethical Management Office/working-level consultative body
Monitoring	<b>[Internal]</b> Human rights and environmental impact assessment, Human Rights Management Committee, Human Rights Violation Reporting Center <b>[External]</b> Human rights management monitoring of partner companies, Human Rights Violation Reporting Center		

## Operation of an Independent Human Rights Management Committee

To improve the effectiveness of its human rights management system, K-eco has strengthened systematic operations centered on an independent Human Rights Management Committee. Chaired by the Chairman of K-eco, the committee is supported by the Ethical Management Office and works in tandem with the Human Rights Violation Reporting Center and a Human Rights Working Group in a horizontally integrated structure. The committee is responsible for establishing and implementing policies to prevent and remedy human rights violations. Through both internal and external stakeholder engagement, these bodies carry out ongoing activities to protect human rights. Through this independent and systematic governance, K-eco is fostering a culture of respect for human rights and contributing to the realization of a sustainable society.

## Human Rights Management Organizational Chart



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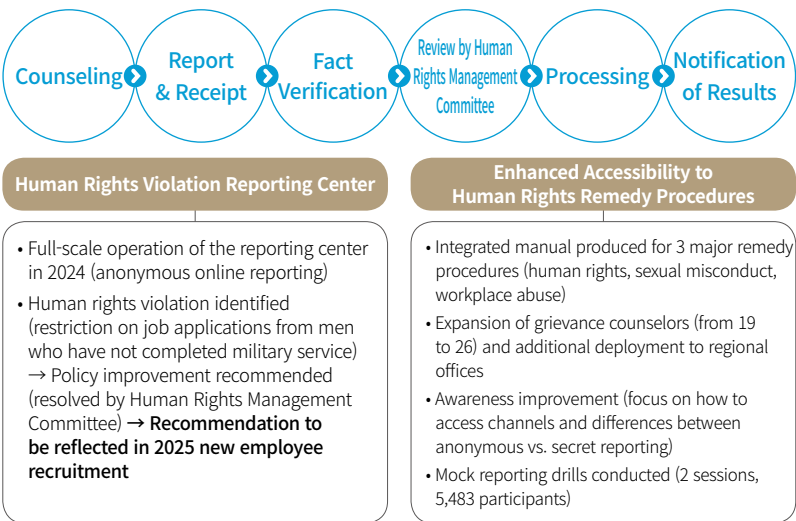
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# Human Rights Management

## Human Rights Violation Reporting & Prevention

In 2024, K-eco significantly strengthened its human rights management system. The Human Rights Violation Reporting Center was upgraded to allow anonymous or secret online reporting. A system was also established to issue immediate institutional improvement recommendations in response to reported cases, enhancing practical outcomes. A unified manual covering three major grievance procedures—human rights violations, sexual misconduct, and abuse of authority—was developed. Accessibility was improved through the expansion of grievance counselors and the addition of local support personnel. Awareness campaigns and simulated reporting exercises helped reduce barriers related to channel accessibility, significantly increasing staff trust in the system. These efforts led to a 4.2-point increase in the 2024 Korea Culture Index (KCI) score compared to the previous year.

### Human Rights Violation Case Handling Procedure (Human Rights Violation Reporting Center)



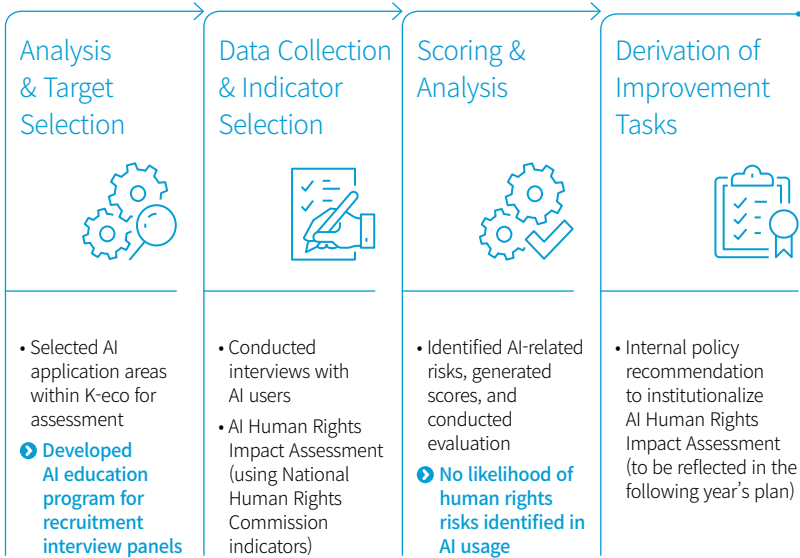
### Improved employee trust in human rights remedy procedures

2024 KCI: 4.2-point increase in relevant item compared to previous year

## AI-Related Ethical Risk Governance

Recognizing the rapid spread of AI across organizational operations and the growing social concerns around issues like deepfakes, K-eco is proactively managing AI-related ethical risks. Based on the core values of human rights and human dignity, a foundational principle was established to guide the introduction, use, and continuous monitoring of AI systems in alignment with the public good. Focusing on both people and systems, K-eco is enhancing employee training, improving awareness among AI operators and users, and strengthening preventive monitoring of ethical risks. In line with recommendations from the National Human Rights Commission of Korea, K-eco was the first public institution to introduce AI Human Rights Impact Assessment. This preemptive initiative allows for the early identification of potential human rights violations, such as discriminatory impacts on specific groups during AI adoption.

### First Public Institution to Introduce AI Human Rights Impact Assessment\*



\* AI Human Rights Impact Assessment: A tool to identify potential human rights violations such as discrimination against specific groups during AI adoption and utilization. The National Human Rights Commission recommended its introduction to government institutions in May 2024.

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## Advancing the Right to a Healthy Environment

To realize human rights in the era of climate change, K-eco has developed various educational programs and encouraged active employee participation by linking its core businesses with human rights promotion. Responding proactively to climate-related vulnerabilities, K-eco actively utilized earth and stone materials generated during environmental infrastructure construction projects to mitigate climate disasters threatening public safety and the livelihoods of farmers, such as delays in post-disaster recovery and frequent flooding of low-lying farmland. Additionally, water quality analysis support was provided in vulnerable regions such as the remote islands of Ongjin-gun in Incheon, where accessibility and cost constraints, along with the burden of legally mandated testing, have led to reluctance among private service providers. As a result of these efforts, K-eco's internal awareness index of human rights management improved by 1.4 points compared to the previous year, and the corporation received its fifth consecutive certification of the human rights management system in recognition of its excellence in promoting human rights in environmental rights-vulnerable regions.

### Diversified Education to Strengthen Internal Awareness of Human Rights Management

Core Business-Linked Curriculum	Response to Social Chang	Participatory Learning	Executive-Level Leadership
In-depth online and offline human rights training tailored to the climate crisis era	Ethics and human rights courses on AI (3,424 participants)	Human Rights Quiz Café held for internal staff and partner companies (466 participants)	CEO-led human rights special lectures for senior leadership (233 participants)

### Human Rights Advancement in Response to Climate Change

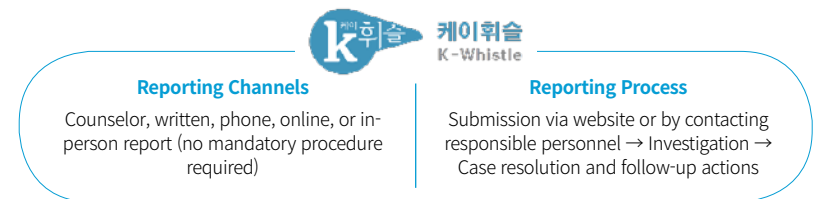
Heavy Rainfall-Affected Areas	Island Regions (Ongjin-gun, Incheon)
Region-specific soil and rock data sharing → tailored support for demand (e.g., forest restoration, elevation of low-lying farmland)	Drinking water quality inspection for care facilities in Jangbongdo Island + Water playground quality inspection + Water quality testing for power plants in Daechongdo and Socheongdo

- ▶ 2024 KCI: 1.4-point increase in human rights-related item compared to previous year
- ▶ Human rights advancement activities in environmentally vulnerable regions  
→ Human rights management system certified for 5 consecutive years

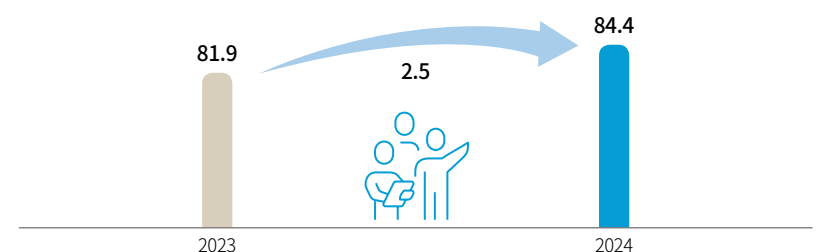
## Strengthened Institutional Foundations for Preventing Workplace Harassment & Sexual Misconduct

To raise awareness and strengthen prevention of workplace harassment and sexual misconduct, K-eco designated a new "intensive management period" for prevention of such misconduct, during which it issued messages from leadership, conducted joint labor-management declarations, provided case-based decision-making guidelines, and delivered tailored prevention training by job level. The number of sexual harassment and sexual violence counselors was increased significantly from 19 to 26, improving both accessibility and effectiveness of grievance consultations. A variety of reporting channels—including written, phone, online, and in-person—were made available, supported by a structured incident response process. As a result, the internal survey scores for gender sensitivity and awareness of workplace harassment prevention improved to 84.4 points, an increase of 2.5 points from the previous year. The number of reported workplace harassment and sexual misconduct cases also decreased from four to two. In addition, institutional safeguards were put in place to prevent digital sex crimes and stalking, further enhancing employee awareness and vigilance.

### "K-Whistle" Human Rights Remedy Procedure Guide



### Internal Gender Sensitivity & Workplace Harassment Awareness Score



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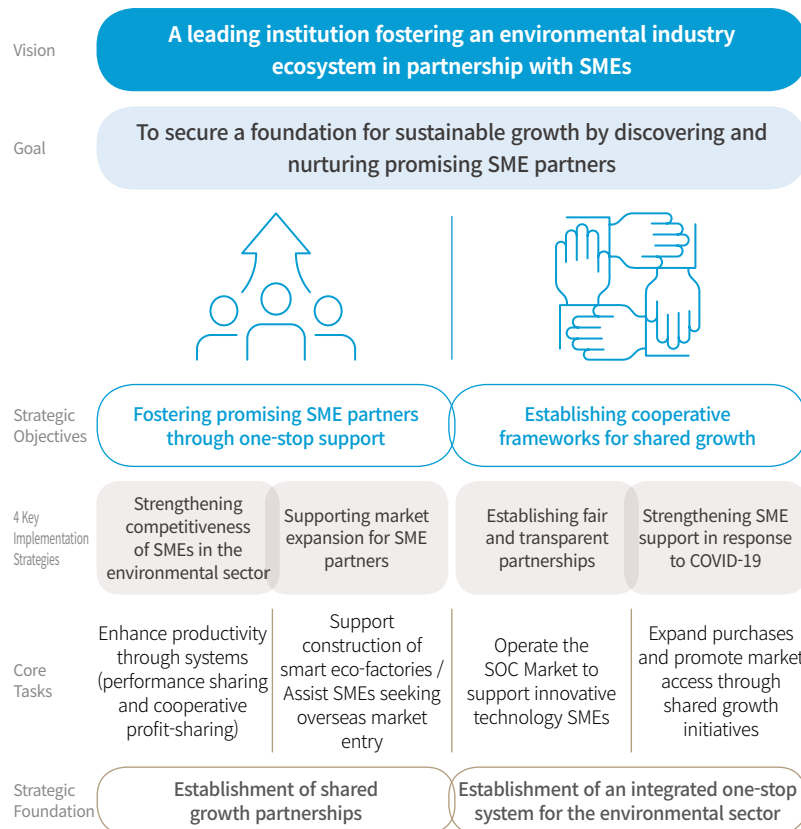


# A Sustainable Supply Chain Built through Shared Growth

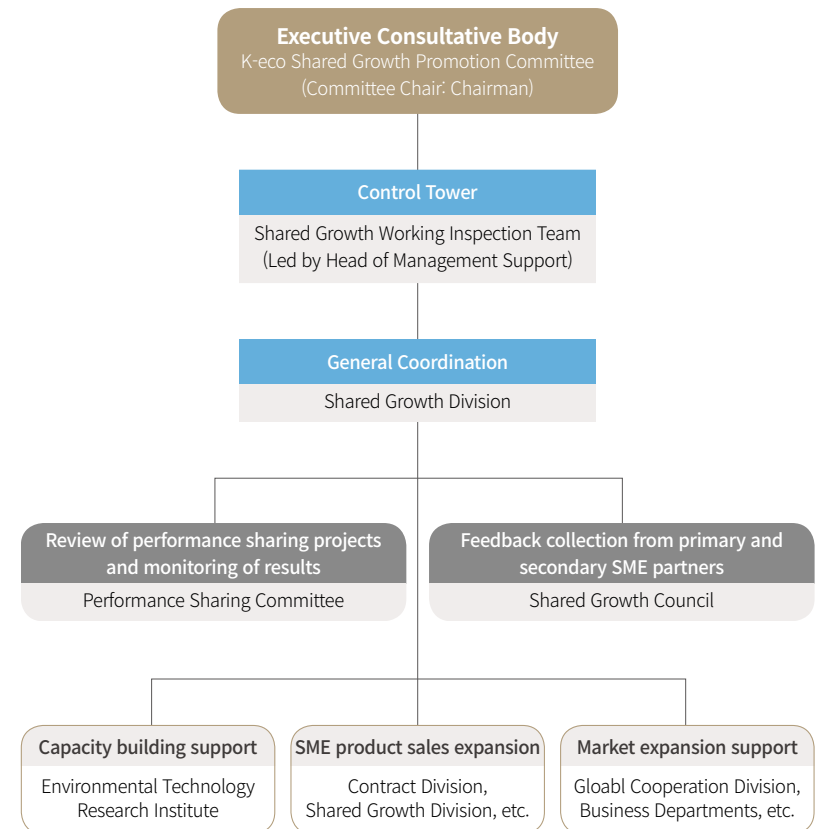
## Leading the Environmental Industry Ecosystem through Shared Growth

K-eco aims to establish itself as a leading institution fostering an environmental industry ecosystem in partnership with SMEs. Under this mission, K-eco supports the identification of promising SMEs in the environmental sector and strives to build a foundation for their sustainable growth. The corporation's strategy includes nurturing promising SMEs through one-stop support and establishing cooperative partnerships for shared growth. Key areas of focus include enhancing SME competitiveness, supporting market expansion, promoting fair cooperation, and assisting pandemic recovery efforts. K-eco also fosters SME development by promoting shared performance and cooperative profit-sharing systems, supporting the establishment of smart eco-factories, and operating an innovation technology support platform (SOC Market). Through its shared growth charter, K-eco encourages a culture of collaboration with SMEs, aiming to invigorate the environmental ecosystem and contribute to a creative economy. This includes supporting SMEs in technology development and expanding domestic and overseas sales channels through a systematic support system. Additionally, the corporation seeks to promote a sound culture of mutual growth by eliminating unfair trade practices and complying with legal and ethical standards.

### Shared Growth Strategy



### Shared Growth Organizational Structure



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## K-eco Win-Win Cooperation Program

K-eco operates a “win-win cooperation” program with the goal of strengthening mutual competitiveness and realizing social value through shared growth. The initiative sets common goals for environmental improvement and leverages the infrastructure of both K-eco and SMEs to support new product and technology development, as well as performance and process improvement. To establish an integrated R&D system rooted in its environmental expertise, K-eco supports the enhancement of SME technological capabilities. Under this initiative, three types of win-win cooperation programs are implemented: technology development, performance sharing, and cooperative profit-sharing. K-eco has supported enterprise participation through three exhibition booths at the International Exhibition on Environmental Industry Technology & Green Energy, showcasing award-winning technologies from the Win-Win Cooperation Competition. Additionally, patented products developed under the program were displayed at the Seoul International Invention Fair and the Taiwan Innotech Expo, validating their excellence and promoting overseas dissemination. As a result, the program generated KRW 2.047 billion in SME revenue and earned two awards at international invention fairs.

### K-eco Win-Win Cooperation Program: Support for Participation in International Exhibitions

2024 International Exhibition  
on Environmental Industry  
Technology & Green Energy

2024 organizational culture  
index (KCI) score ↑ by  
4.2 points year-on-year

**Corporate Sales**  
KRW 2.047 billion



Grand Prize at the  
Seoul International  
Invention Fair

**Grand Prize**  
Seoul International  
Invention Fair

**Gold Prize**  
Taiwan Innotech Expo

Joint Technology Development

**Acquisition of intellectual  
property (patent rights)**

Joint development of a fall-prevention device  
for manholes during water-related disasters

**Grand Prize**  
2023 Shared Growth Best Practice Competition



2024 International Exhibition on Environmental  
Industry Technology & Green Energy



Grand Prize at  
the Seoul International Invention Fair

## Public-Private Collaboration on the Development of the “Manhole Keeper”

Since 2021, K-eco has collaborated with the private company Perfect Co., Ltd. under the win-win cooperation program to jointly develop the “Manhole Keeper,” a multifunctional safety handle that improves accessibility to manholes and prevents falls when covers are dislodged, to acquire intellectual property rights. In 2023, this innovative product earned SOC Techmarket certification and won the Minister of the Interior and Safety Award at the Best Practices in Proactive Administration competition. In 2024, it passed various public sector reviews and was designated an innovative product, enabling successful entry into the public procurement market. The product has since been installed in 34 locations nationwide through collaboration among local governments, public institutions, and private firms, contributing to public safety. Sales revenue and shared performance payments surged by 200% year-over-year in 2024. In recognition of these achievements, K-eco received the 2024 Presidential Award for proactive administration and the Prime Minister’s Award for safety technology, setting an example for public-private innovation collaboration.

### “Manhole Keeper,” a Foldable Safety Handle for Manhole Fall Prevention

#### Presidential Award

2024 government award for  
exemplary administration

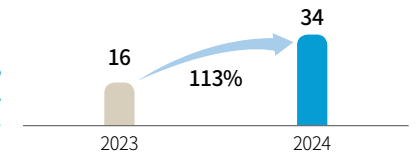


#### Prime Minister’s Award (2nd Place)

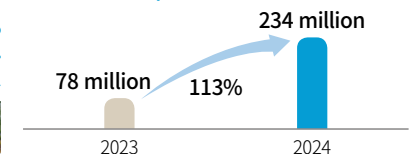
2024 Korea Safety Technology Awards



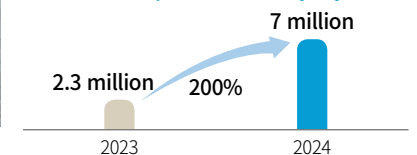
### No. of “Manhole Keeper” Installations



### “Manhole Keeper” Sales Revenue (KRW)



### “Manhole Keeper” Shared Royalty (KRW)

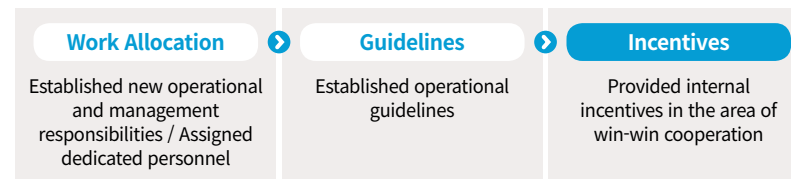


# A Sustainable Supply Chain Built through Shared Growth

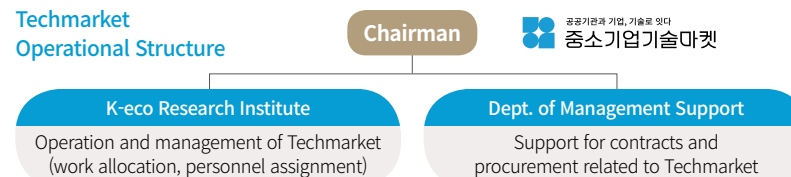
## All-In-One SME Technology Market

To support the sustainable growth of SMEs, K-eco has established an all-in-one SME technology market system (Techmarket), which manages the entire process from identifying and validating promising technologies to commercialization in an integrated manner. The corporation provides systematic support to innovative companies and promotes the program using diverse channels targeting internal and participating tech development companies. As a result of promoting commercialization through Techmarket certification and designation as innovative products, 14 certifications were granted in 2024—a 75% increase from 2023—bringing the total to 32 registered cases, 569 public agency purchases, and 74 innovative procurements. K-eco will continue to promote sustainable shared growth by strengthening public market access and expanding sales channels for SMEs.

### Techmarket Framework



### Techmarket Operational Structure

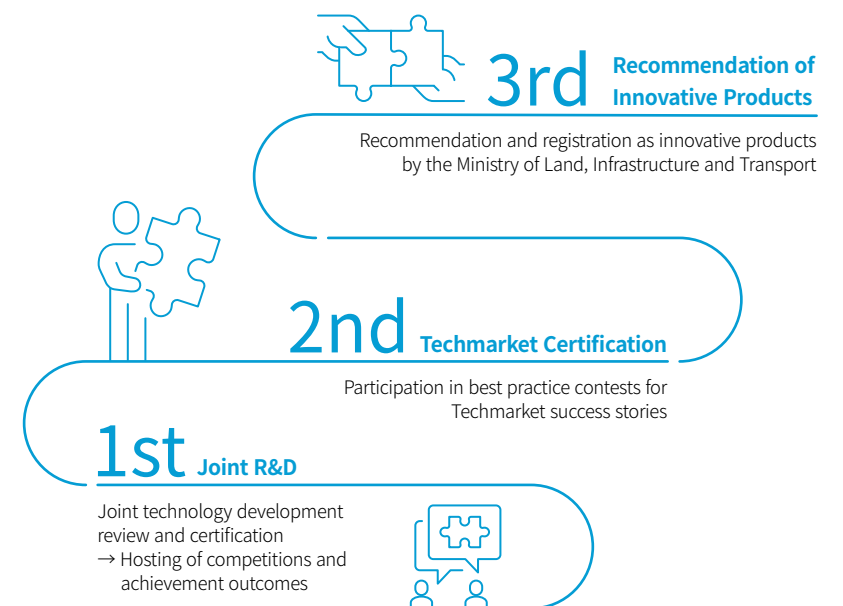


Techmarket briefing and training sessions

## From All-In-One Support to a Win-Win Cooperation Platform

Through Techmarket, K-eco is working to build a new ecosystem for cooperation between public institutions and SMEs. In 2025, the corporation established a roadmap to evolve beyond a source of all-in-one technology support toward a comprehensive win-win cooperation platform. Overseen by the Ministry of Economy and Finance and operated by Korea Expressway Corporation, Techmarket aims to expand to 200 participating institutions in 2025—1.8 times more than the previous year—with a mid-term goal of reaching 300 institutions by 2027. The program also aims to register 3,500 technologies and increase technology purchase volume by 2.5 times, thereby supporting practical market access for SMEs. K-eco will continue doing its utmost to ensure the dissemination of outstanding SME products and technologies, contributing to the success of national policy objectives.

### K-eco Win-Win Cooperation Platform Roadmap



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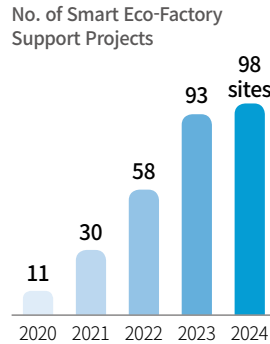
# A Sustainable Supply Chain Built through Shared Growth

## Smart Eco-Factory Construction for Shared Growth

K-eco is actively promoting the smart eco-factory program to support the green transition of manufacturing facilities, which are among the largest sources of pollution. This initiative targets small and medium-sized manufacturing enterprises and supports comprehensive measures to reduce greenhouse gas emissions, minimize pollutants, and improve energy and resource efficiency. The program offers consulting services and financial support of up to KRW 1 billion per company for the improvement and installation of environmental management equipment. With the number of eligible businesses increasing steadily over the past five years, the program successfully completed 98 projects in 2024. K-eco is thus making a substantial contribution to accelerating the green transition and enhancing the environmental competitiveness of the domestic manufacturing sector.

### K-eco Smart Eco-Factory Program Support Scope

GHG Reduction	Fuel/raw material conversion facilities / Renewable energy systems / Energy recovery and savings / Carbon capture, storage, and utilization (CCUS) facilities / Building energy efficiency improvements / Pollution control facility energy savings
ICT	Business performance monitoring and control
Air Pollution Reduction	Air pollution control
Water Pollution Reduction	Water pollution prevention / Non-point source pollution reduction
Waste Emission Reduction	Waste minimization / Hazardous material usage reduction
Resource Circulation	Rainwater reuse / Waste recycling
Environmental Health	Odor control / Noise and vibration reduction
Other Facilities	

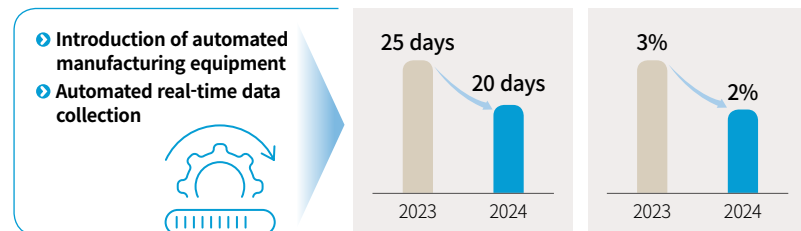


### Smart Factory Advancement Support Details & Outcomes

Support provided to 2 companies in 2024, totaling KRW 50 million

Reduction in manufacturing Lead time

Reduction in Defective Finished Goods Rate

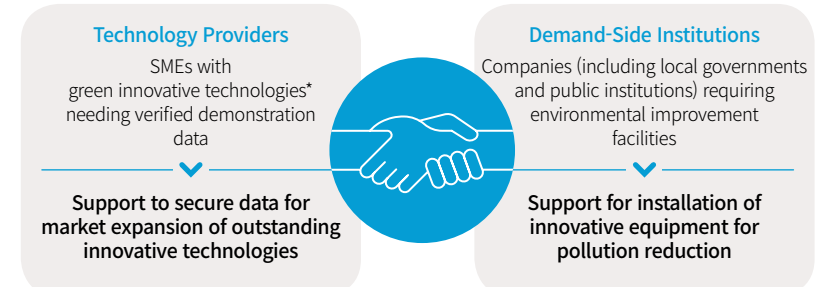


## Win-Win Cooperation Demonstration Program

K-eco's Win-Win Cooperation Demonstration Program provides up to KRW 1 billion in national subsidies per consortium to support the commercialization of green technologies developed by SMEs and mid-sized companies in the environmental sector. By matching technology providers and demand-side institutions, the program has facilitated the development and dissemination of environmental technologies and supported companies in implementing green management practices. K-eco will continue expanding the application of green technologies in industry and fostering related enterprises to build a sustainable environmental ecosystem.



### Win-Win Cooperation Demonstration Program Eligibility



\* Green innovative technology: Technology certified as Environmental New Technology (ENT)

### Win-Win Cooperation Demonstration Program Support Areas

<b>Clean Air</b> Fine dust and air pollutant reduction, clean fuel conversion, air pollutant removal technologies	<b>Climate Tech</b> Carbon captures (CCUS), carbon reduction and utilization technologies	<b>Smart Water</b> Water reuse and advanced water treatment technologies
<b>Resource Circulation</b> Waste resource recycling, waste plastic reduction technologies	<b>Environmental AI-ICT</b> AI-based environmental management solutions	<b>Biogas</b> Biogas production and utilization technologies

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# A Sustainable Supply Chain Built through Shared Growth

## Innovation Partnership Support Program

Through its innovation partnership support program, K-eco actively promotes consulting, equipment support, product development, and process standardization to enhance SME competitiveness. In 2024, support was expanded to eight companies with a total of KRW 80 million—KRW 30 million more than the previous year. As a result of tailored consulting and equipment upgrades, the standardization rate of new product development at participating companies rose from 50% to 100%, while annual prototype development costs were reduced by KRW 51 million. K-eco will continue to contribute to sustainable SME growth and innovation capacity by promoting standardized production processes.

### Consulting & Equipment Support for Productivity Improvement: 2024 Outcomes

Support provided to 8 companies, totaling KRW 80 million

Product Development

Standardization of Production Process

### 2024 Key Achievements of Innovative Partnership

Supported Company	Type of Support	Supported Equipment (Details)	Key Achievements
oo Industry Co., Ltd.	Consulting & Direct Support	Introduction of Marking JIG	Improved productivity through risk task improvement and introduction of Marking JIG
OO Electronics Co., Ltd.		Introduction of 3D printer for prototype production	Reduced development costs through standardization and 3D printer for prototyping
OO Precision Co., Ltd.		Prototype production of Clock Spring	Improved productivity through early development of Clock Spring for new Auto Swing Door
OO Candy Co., Ltd.		Introduction of Onboard Robot	Improved productivity through HACCP-compliant Onboard Robot introduction
oo Industry Co., Ltd.		Introduction of semi-automated bender and conveyer belt	Process improvement in packaging and transport of finished LED products
OO Co., Ltd.		Installation of large cooling tank	Improved energy usage through installation of large cooling tank for scaled-up products
OO Food Co., Ltd.		Introduction of high-efficiency mixer	Improved productivity through process management and adoption of efficient mixer
OO Co., Ltd.		Production of digital marketing content	Increased sales by expanding Shuiing app users through digital marketing strategy

## Incheon Sharing ESG Impact Fund (I-SEIF) Fellowship Support Program

K-eco, in cooperation with the Sudokwon Landfill Site Management Corporation, Incheon International Airport Corporation, and Incheon Port Authority, established the Incheon Sharing ESG Impact Fund (I-SEIF) to support ESG management for SMEs and socially responsible enterprises\* in the Incheon region. In 2024, ten companies were selected as the 7th cohort of I-SEIF fellows, receiving up to KRW 10 million in funding for ESG capacity building and up to two rounds of customized consulting. Outstanding cases were selected and awarded KRW 2 million each at a performance-sharing event. Going forward, K-eco will continue fostering local partnerships and shared growth to promote sustainable development and regional economic revitalization.

\* Socially responsible enterprises: (Preliminary) social enterprises, (social) cooperatives, village enterprises, self-support enterprises, and social ventures

### I-SEIF 7th Cohort Fellow Support



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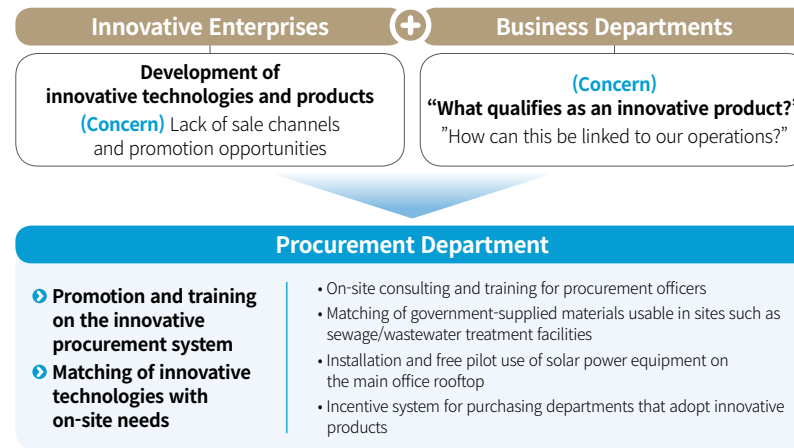
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## Supporting Market Access for Certified Innovative Products

K-eco actively supports the growth of SME innovation by leveraging public sector purchasing power. To encourage innovative procurement, the corporation has provided on-site consulting and system training to employees, matched SMEs with public procurement needs such as sewage treatment facility materials, and supported pilot uses of solar power systems. Additional efforts include recommending products for innovation designation, hosting procurement consultations, and operating an incentive system for departments with strong innovation procurement records. As a result, 569 purchases were made through the K-eco-certified Techmarket, along with 74 innovation procurements totaling KRW 13.3 billion. K-eco was recognized with the 2024 Presidential Citation for Excellence in Public Procurement of Innovative Products. The corporation will continue supporting market access for certified innovation companies to promote SME growth.

### Innovative Product Demand Identification Efforts & Outcomes



## Presidential Citation for Excellence in Public Procurement of Innovative Products

Selected as top-performing institution in the public sector  
(including government, local governments, and public agencies) /  
Total innovative product purchases: KRW 13,359 million



## Revitalizing Local Economies & Expanding SME Market Access

K-eco successfully hosted the 2024 K-eco Shared Growth Festa to help revitalize local economies and expand market opportunities for SMEs. The event provided legal support for small and start-up enterprises nurtured by the corporation, while the 25 participating SMEs achieved a total of KRW 700 million in sales. A total of 286 participants engaged in 445 on-site purchase consultations, and support for online market entry contributed to strengthening the digital competitiveness of SMEs. Additionally, 11 new companies were added to the “Shared Growth Mall,” laying a stronger foundation for the continued growth of SMEs. K-eco will continue to actively support regional economic revitalization and SME growth through various support programs.

### 2024 K-eco Shared Growth Festa Performance Highlights

Participating  
SME Sales:  
KRW 700 million



▶ Total of  
286 attendees and  
445 purchase consultations

Online Sales  
Channel Expansion  
Support



▶ 11 companies  
newly listed on  
the Shared Growth Mall

Institutional  
Procurement  
KRW 7,477 million



▶ 225% of Ministry of  
Economy and  
Finance target achieved  
(Target: KRW 3,327 million)

※ Cumulative purchase amount: KRW 30.7 billion



2024 K-eco Shared Growth Festa (Sep 11)



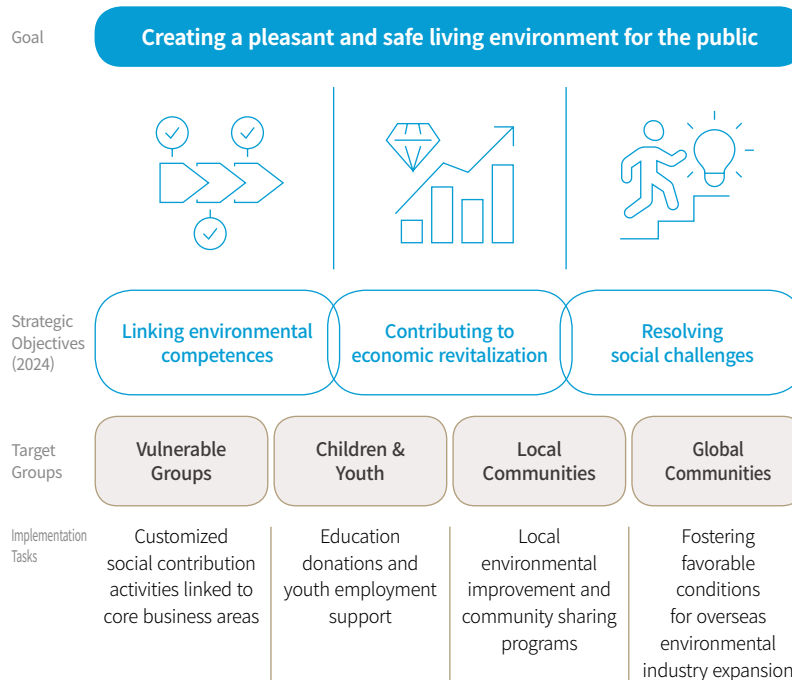
Purchase consultation session at  
the Shared Growth Festa

# Prospering with Local Communities

## Social Contributions for Environmental Welfare

K-eco promotes three strategic pillars—linking environmental competencies, contributing to economic revitalization, and resolving social challenges—to ensure a pleasant and safe living environment for all. In collaboration with local communities, the corporation provides tailored support for vulnerable groups who are often excluded from environmental welfare. It also actively delivers environmental education programs for children and youth, the future generation. K-eco employees voluntarily participate in social contribution activities, promoting a culture of giving and sharing. Through these efforts, K-eco pursues environmental value and social responsibility in tandem, fulfilling its role as a leading institution for a sustainable future.

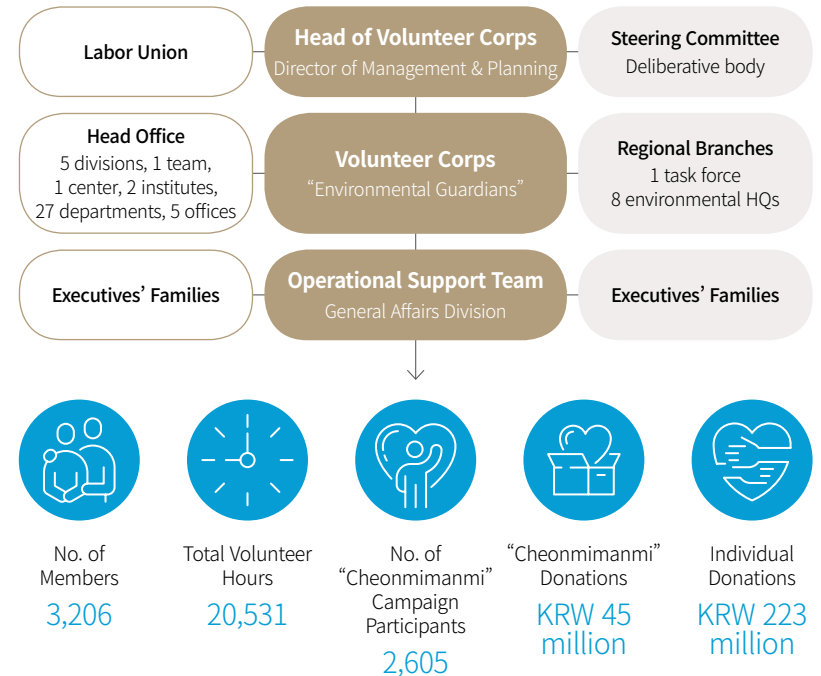
### Social Contribution Goals & Strategy



## K-eco Volunteer Corps

K-eco operates the K-eco Volunteer Corps, coordinating efforts across its head office (5 divisions, 1 team, 1 center, 2 institutes, 27 departments, and 5 offices) and regional branches (1 team and 8 regional environment management headquarters) to deliver diverse and systematic community engagement initiatives. Tailored volunteer programs that reflect each branch's and region's unique characteristics demonstrate the corporation's commitment to social responsibility as an environmental specialist institution.

### K-eco Volunteer Corps Structure & Social Contribution Results



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## Business-Based Solutions for Local Issues

As a specialized environmental institution, K-eco identifies business-based collaborative projects tailored to local needs and addresses regional environmental challenges from multiple angles through sustainable environmental services. Livestock manure, food waste, and landfill sludge have been converted into biogas, hot water, electricity, liquid fertilizer, and compost using insects, while the establishment and operation of resident-led village enterprises have created rural jobs and provided high-quality fertilizer and hot water free of charge, increasing income for local farms. K-eco also shared 400,000 tons of soil and rock data from civil engineering projects with local governments to prevent flooding and secondary accidents from heavy rains. By providing targeted support for low-lying farmland, K-eco has improved local residents' living environments and disaster preparedness while reducing social costs by KRW 3 billion.

### Resource Recovery from 3 Types of Waste



### 5 Recovered Resource Types

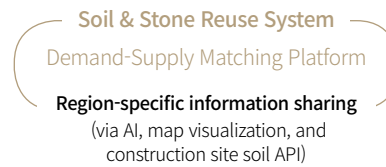


**Rural jobs created through village enterprises (9 employed)**

**Increased income for local farms**

**Revitalization of local economy**

### Strategic Use of Hard-to-Manage Soil & Stone Waste



### 30,000 t matched to demand

**Forest land** → 3 sites 17,114m<sup>2</sup>

**Farmland** → 24 sites 92,916m<sup>2</sup>

**▶ KRW 3 billion in social cost savings**



Before soil and stone treatment

After soil and stone treatment

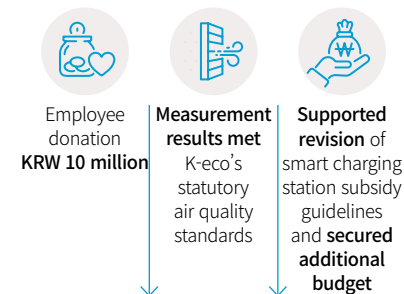
## Multifaceted Response to Regional Disaster Damage

K-eco works to protect public health and prevent secondary environmental pollution through comprehensive support for disaster-affected communities. Following an electric vehicle fire at an apartment complex in Incheon, K-eco provided employee donations and conducted indoor air quality assessments and consultations to prevent secondary pollution. In response, EV charger subsidy guidelines were revised to include stricter inspections and post-installation management, and new subsidies were introduced for smart-controlled chargers. K-eco also responded to a flood waste crisis caused by torrential rains by supporting emergency waste collection, sorting recyclable materials, and subsidizing collection vehicle costs. These efforts enabled the effective recycling of flood-related waste and water-damaged appliances in designated special disaster zones. In recognition of its proactive response to environmental disasters and contributions to community safety, K-eco was selected for two consecutive years as the “Best Institution” for social contribution by the City of Incheon.

**Designated as the “Best Institution” for social contribution**  
by Incheon Metropolitan City for 2 consecutive years

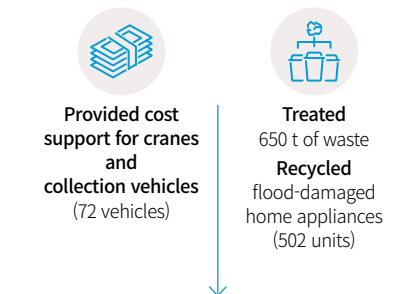


### Incheon EV Fire Response



Indoor air quality measurement support following the EV fire Incident at the underground parking lot of Cheongna Apartment Complex in Incheon

### Flood Waste Treatment & Water-Damaged Appliance Recycling



Heavy rain damage across five local governments designated as special disaster zones (Yeongdong-gun, Nonsan-si, Seochon-gun, Wanju-gun, Yeongyang-gun)

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## Environmental Expertise-Based Social Enterprise Support

Through partnerships with public-private councils and social cooperatives, K-eco has led an innovative project to recycle over 4 million fire extinguishers annually, which were previously neglected or illegally disposed of. K-eco scaled up the previously fragmented collection system through collaborative governance and developed methods to recycle fire extinguisher powder and repurpose the containers as safety infrastructure products. Furthermore, by integrating these upcycled products with safety education, K-eco established a new educational model in collaboration with local governments, school boards, disaster safety agencies, and fire services. These efforts resulted in increased company revenue and greenhouse gas reductions, and the initiative was recognized for three consecutive years with the “Minister of Environment Award” at the Ministry of Environment’s Social Economy Best Practices Contest, serving as a model for helping social enterprises enter and grow within the environmental industry.

## New Waste Resources Upcycling Business Model in Partnership with Social Cooperatives

### Improved Collection System for Discarded Fire Extinguishers

**Before** Small-scale individual collection by existing demand sources

**After** Public-private council collaboration to expand and systemize collection

### Expansion of sales channels and promotional support

**Sales channels** Support for procurement of upcycled fire extinguisher projects

**Promotion** Provision of information on the advantages of products made from discarded fire extinguishers

### Recycling/Upcycling of Discarded Fire Extinguishers

Reuse of extinguisher powder and containers development of safety infrastructure products using upcycled materials

### Establishment of new business model utilizing upcycled products

Integrated model linking upcycled extinguisher products with safety education  
→ Targeted for use in local governments, education offices, disaster safety agencies, and fire safety training programs

Established public-private networks and expanded business domains  
Increased corporate revenue (KRW 72 million)

Contributed to GHG reduction (7.6 tons CO<sub>2</sub>) and realization of a circular economy

**Minister of Environment Award** 3 consecutive years  
2024 Social Economy Best Practice Contest by the Ministry of Environment



## Multifaceted Response to Regional Disaster Damage

To stimulate the local economy, K-eco actively promoted a range of job creation initiatives. In partnership with Nonghyup Bank, K-eco created a joint fund totaling KRW 360 million over three years, supporting the growth of 14 startups nationwide in 2024. A team of 90 environmental experts was organized to provide specialized consulting in the fields of climate, air, water, and resource circulation, laying the foundation for youth entrepreneurship and job creation. To respond to aging demographics and structural economic changes, K-eco developed a senior advisory role for transmitting on-site waste management data, creating 24 senior jobs and expanding employment opportunities for vulnerable populations. These efforts not only addressed regional environmental challenges and civil complaints but also reduced financial burdens on local governments by KRW 1 billion. K-eco will continue to promote co-prosperity with local communities, creating both environmental and socioeconomic value.

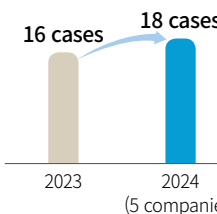
## Customized Support Outcomes for Youth & Seniors

### Identification & Capacity Growth Support for Eco-Friend Youth Startups (Growth Capital + Mentoring)

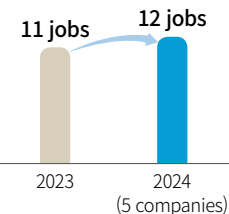
Mentoring for biodiversity conservation business in areas affected by wildfires

Mentoring for constructing AI-based 3D fine dust monitoring network

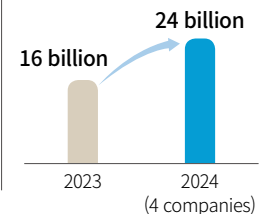
No. of Intellectual Property Rights Registered



Job Created



Revenue Increase (KRW)



### Senior Job Creation & Engagement

Senior consultants deployed to monitor and transmit field information from waste treatment sites (24 individuals)

Senior patrol launched to prevent flooding damage in traditional markets (22 individuals)

Contributed to resolving environmental issues, civil complaints, and financial burdens



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## Co-prosperity Initiatives for Local Economic Revitalization

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### Support for Youth Startups in the Environmental Sector

At the 2024 Korea ESG-Eco Expo, K-eco operated a promotional booth featuring youth startup companies in the environmental sector. Five outstanding startups selected from K-eco's youth startup support program were provided with full exhibition participation support worth approximately KRW 24 million, including promotional materials. The number of supported companies was expanded to five, strengthening market entry opportunities. Since 2020, K-eco has been supporting the innovative growth of youth entrepreneurs and job creation in the environmental sector by offering up to KRW 11 million in growth support per company along with professional mentoring. K-eco will continue to discover and nurture youth-led environmental startups, contributing to sustainable revenue generation and revitalizing local economies.



K-eco booth for youth startups at the 2024 ESG-Eco Expo Korea

### Incheon Sharing ESG Impact Fund Support

K-eco hosted a performance-sharing event for the 2024 Incheon Sharing ESG Impact Fund (I-SEIF) support program. Since 2018, I-SEIF has been jointly operated by K-eco, the Sudokwon Landfill Site Management Corporation, Incheon International Airport Corporation, and Incheon Port Authority to promote ESG management among small and social enterprises in the Incheon region. The event shared the performance of 10 companies selected as the "7th I-SEIF Fellows" in August 2024, with three outstanding cases each receiving a KRW 2 million award. K-eco will continue to strengthen cooperation with local partners to support the sustainable growth of small businesses and social enterprises, contributing to regional economic revitalization.



Incheon Sharing ESG Impact Fund (I-SEIF) performance sharing event

### Discovery & Support of Promising Source Technologies

To secure technological competitiveness, K-eco has strengthened its discovery and support system for promising water-related technologies. Customized support has been expanded to include reliability consulting through R&D coordination for technologies such as high-recovery-rate RO systems, provision of technical business services tailored to corporate needs, increased subsidy rates, and support for expert recruitment. A roadmap for nurturing core components of three key smart technologies was established, providing strategic technology selection and corporate growth strategies in connection with digital and carbon-neutral water technology support projects. As a result, 57 new intellectual property rights including patents were registered by supported companies, with a 100% technology development success rate and a 97% satisfaction rate among participating firms.



Support for participation in the 2024 GreenEnerTec booth



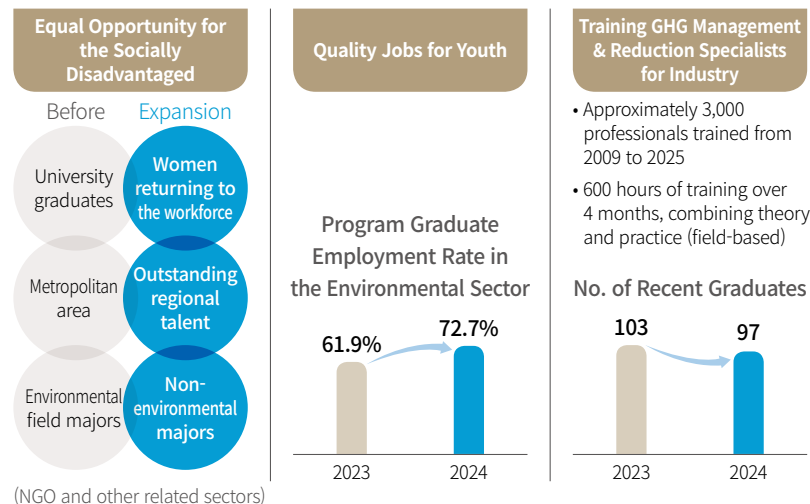
# Prospering with Local Communities

## Training GHG Management Professionals

K-eco is strategically expanding its professional training programs for greenhouse gas management to support the national goal of carbon neutrality. These inclusive initiatives offer opportunities to women returning to the workforce, regional talents, and individuals from non-related fields. K-eco has built a multifaceted support system through partnerships with centers supporting women returning to the workforce, as well as by easing entry barriers into the NGO and global sectors. As a result, program participants have achieved a 72.7% employment rate—1.17 times higher than the national average youth employment rate. This achievement has been recognized as a model example of public institutions fulfilling their social responsibility. Moving forward, K-eco will continue to play a leading role in building a sustainable educational ecosystem that addresses both the climate crisis and job creation for vulnerable groups. Through this inclusive talent development, K-eco aims to realize its vision of "A sustainable future, an environment shared by all."



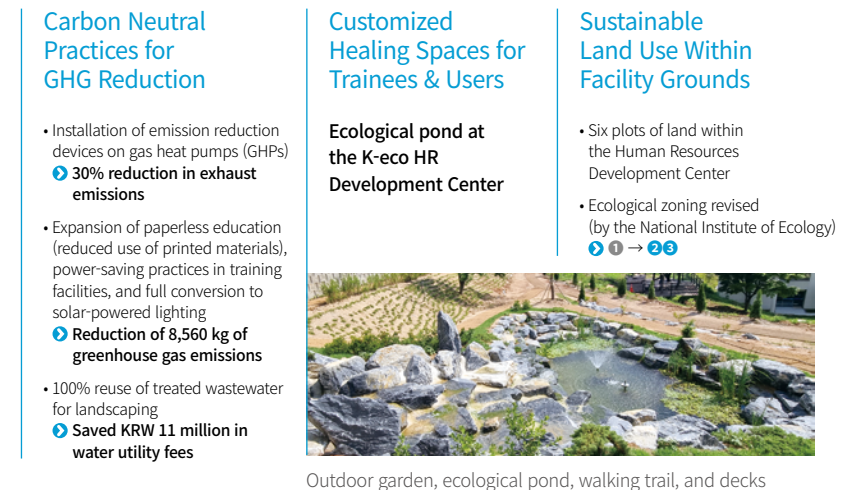
## GHG Management Specialist Training: Triple Gains



## Establishing Sustainable Educational Spaces

K-eco is continuously upgrading its educational facilities to create a sustainable learning environment. These improvements not only enhance the efficiency of educational infrastructure and support the achievement of carbon neutrality but also maximize the ecological potential of individual sites. In response to the growing need for improved learning environments and carbon-neutral practices, ecological restoration is being carried out in tandem with facility installations to create environmentally friendly and sustainable educational spaces. Key achievements include the creation of outdoor gardens (tree planting and deck installations inside Cheongpungwon Garden) and an ecological pond (Baeum Saem) at the HR Development Center, expanding rest areas for trainees and visitors. Additionally, efforts to reduce emissions and promote carbon neutrality are ongoing, including the installation of emission reduction devices for gas heat pumps (GHP) and replacement of lighting with solar-powered fixtures.

## Significant Upgrades to Facility Infrastructure



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## Opening of the HR Development Center to the Public

K-eco has actively opened its HR Development Center to the public to enhance the social value of public resources and improve public access. In line with the first year of the “Neulbom School” policy, the center provided early-grade environmental experience programs and partnered with local communities, expanding support to 43 schools in nine regions and benefiting over 7,200 children. The center also hosted specialized programs such as the Jecheon International Music & Film Festival, global camps for rural children, and the university AI hackathon, reaching around 1,700 participants in 2024. Furthermore, in collaboration with Jecheon City, an ecological exploration trail was created near the center, offering environmental value to both trainees and local residents. These active public engagement efforts led to national recognition, with K-eco selected as one of three exemplary agencies for public facility and equipment sharing by the Ministry of Economy and Finance and receiving a commendation from the Deputy Prime Minister.

### K-eco HR Development Center Recognized for Facility & Equipment Access

First Long-Term Facility Opening	Facility Access for Underprivileged Groups	First Full Facility Access
<b>Jecheon International Music &amp; Film Festival</b> <ul style="list-style-type: none"> <li>Provided facilities free of charge (valued at KRW 10 million) for 9 days, including technical support and long-term facility access for the local event operations team</li> </ul>	<b>Global Campaign for Rural Children</b> <ul style="list-style-type: none"> <li>Opened auditorium, classrooms, and sports facilities for 3 days</li> <li>Environmental and English education programs offered</li> <li>Collaboration between K-eco and private sector to nurture local educational talent</li> </ul>	<b>University AI Hackathon</b> <ul style="list-style-type: none"> <li>Full facility opened for the first time (16 teams over 4 days)</li> <li>Provided global education opportunities for university students</li> </ul>

★ **Recognition as an “Outstanding Institution” & Deputy Prime Minister’s Commendation for public facility and equipment access**

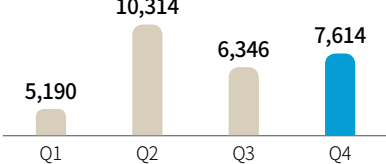
Ministry of Economy & Finance



## Facility Access to Foster Future Environmental Experts

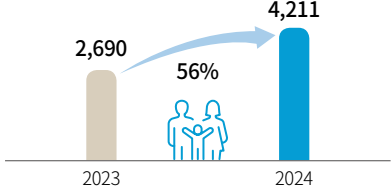
K-eco continues to enhance experiential environmental education so that people can engage with the values of environmental conservation in everyday life. Through seven regional environment promotion and education centers, K-eco provided hands-on environmental education to 29,464 children in 2024. Remodeling the youth career exploration zone into an immersive learning space and offering a carbon-neutral city-building experience led to a 47% increase in visitors to the “Green Craft” program compared to the previous year. The program also received high ratings in customer satisfaction surveys—97.4 points for service quality and 94.7 points for environmental convenience—demonstrating its success in raising public awareness and meeting expectations. K-eco further supports the development of future environmental talent by granting youth and university students access to advanced research facilities such as the Korea Water Cluster demonstration plant, fine dust measurement systems, and POPs emission analysis tools. The scope of public facility access has also been expanded to the headquarters through the ALIO+ platform, improving public convenience.

### No. of Visitors to Promotional Centers in 2024



Interior of the Environment Love Public Education Center in Gwangju  
(7 Locations: Seoul, Busan, Daegu, Gwangju, Anseong, Jinju, Uiryeong)

### No. of Visitors to “Green Craft”



Green Craft in Korea Job World

### Plant & Equipment Access

**ALIOPLUS**  
알 리 오 플 러 스

Accesses in 2024

292 cases, 3,608 users

Facility Type	Usage (Cases)	No. of Users	Facility Type	Usage (Cases)	No. of Users
Cultural Facility	100	2,570	Auditorium	2	275
Classroom	7	356	Other	11	99
Lodging Facility	172	308			

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## Supporting Educational Participation Across Generations & Social Groups

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### Retiree Participation in Neulbom School

K-eco is building regional environmental education networks that leverage the expertise and experience of the retired population. Operating the Neulbom School across 43 schools in 9 regions, the initiative supports the national care system while also developing tailored environmental education content. The traveling “No-Litter” program by the Senior Environmental Education Task Force helps pass on environmental knowledge across generations. In May 2024, K-eco signed an MOU with the Incheon federation of the Korean Senior Citizens Association to expand opportunities for seniors to engage in resolving environmental issues, while also broadening partnerships with education offices, schools, and senior clubs.



MOU with the Korean Senior Citizens Association to revitalize education on basic environmental facilities

### Environmental Education for Multicultural Families for Heighten Sense of Community

K-eco’s HQ of Gwangju/Jeonnam/Jeju Regional Environmental Management promoted ESG management and environmental education through puppet performances designed for multicultural families. Working with local agencies, the program delivered accessible performances to multicultural children in Yeongam-gun—a region with limited access to cultural programs. The interactive shows focused on everyday carbon reduction practices and reached approximately 3,500 children across Gwangju and Jeollanam-do through 16 performances. K-eco will continue this effort to deepen children’s environmental awareness through culturally tailored, engaging educational methods.



Environmental puppet play hosted by the HQ of Gwangju/Jeonnam/Jeju Environmental Management

### “Pine Tree Home” Study Rooms to Support Regional Talent

In collaboration with the innovative network of public institutions in Incheon, K-eco established “Pine Tree Home” study rooms to close educational gaps among children from vulnerable groups. A mentoring program with four local universities, including Incheon University and Inha University, improved the learning environment for 68 children in care facilities and awarded KRW 10 million in scholarships to 12 university student mentors. K-eco, along with four other public institutions, raised KRW 42 million to support regional talent development and is contributing to the promotion of ESG management through Neulbom School programs and community education cooperation.



Study room opening ceremony and scholarship award presentation





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## Expanding Public Environmental Education Programs

K-eco is actively expanding environmental education and citizen participation to foster mutual growth with local communities. In 2024, environmental education visitors to K-eco's resource circulation facilities increased by 270% year-on-year, with satisfaction ratings exceeding 96%. In 2025, K-eco plans to attract 45,000 annual visitors through the opening of a water promotion center, operation of eco-tour buses, and customized education programs. In cooperation with education offices, environmental education for students will also be strengthened to support a sustainable future together with the local community.



Environmental education program at the Songdo Resource Circulation Center

## University Student Reporters Experience Resource Circulation Firsthand

K-eco's "Pureumi" university student reporters participated in the 2024 Iho Filter Festival, leading environmental protection efforts. Co-organized by the HQ of Gwangju/Jeonnam/Jeju Environmental Management and the Jeju Tourism Organization, this eco-friendly cultural tourism event featured a collection and reward campaign where participants sorted waste plastics by material and received carbon-neutral points in return. The reporters also took part in recycling activities using bottle caps and coffee grounds, and joined divers and haenyeo (female divers) in plov\* activities, removing dozens of kilograms of marine waste to help preserve Jeju Island's pristine environment.

\* Plov\*ing: An activity that involves collecting underwater marine waste while diving



"Pureumi" university student reporters plov\*ing in Iyho Village, Jeju Island

## 2024 Korea Environment Love Contest

K-eco hosted the 2024 Korea Environment Love Contest, selecting 65 award-winning entries and holding a ceremony in Seoul on October 25. Now in its 12th year, this contest—Korea's largest in the environmental field—combines the Junk Art Contest and the Environment Conversation Promotion Awards. Aiming to raise awareness of environmental preservation, this annual contest received entries in three categories—photography, junk art, and illustration—with a total of 2,097 submitted works. K-eco is utilizing the winning entries as educational resources and communication tools to promote environmental awareness and engagement nationwide.



Award ceremony for the 2024 Korea Environment Love Contest

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### Donation Campaign at the Jigubyeol Zero Waste Cafe

In partnership with Starbucks Korea, K-eco held a donation campaign to mark the one-year anniversary of the Jigubyeol Zero Waste Cafe. The initiative supported youth from vulnerable groups in the Incheon region by promoting employment and self-reliance, while also modeling environmentally friendly operations such as coffee ground recycling. Around KRW 3 million raised through the campaign was donated to the Incheonseogu Self-Sufficiency Promotion Center and was recognized by the Ministry of SMEs and Startups as an exemplary case of public-private collaboration.



Donation campaign at Jigubyeol Zero Waste Cafe

### “Happiness Market” for Small Businesses

K-eco’s Korea Water Cluster successfully hosted the “Happiness Market” for small businesses in support of 32 local small business teams. Organized in collaboration with the Guji-Mom Happiness Cafe, the event revitalized the local economy, and a portion of the proceeds was returned to the community. The event also featured a performance by FLOW8, a band composed of staff from the cluster, providing entertainment for visitors. Held for the second consecutive year since 2023, the market received positive responses from local residents. K-eco plans to continue developing programs that foster mutual growth and cooperation with the local community.



Support event for the Happiness Market for small businesses

### Operation of the Environmental Flea Market

K-eco held an event for communication, empathy, and sharing at the central plaza of its head office to promote resource circulation and community engagement. Over 2,000 items voluntarily donated by employees were sold, with proceeds donated to local communities. Unsold items were donated to the social enterprise Beautiful Store, supporting both resource reuse and charitable giving. The event also involved collaboration with organizations including the National Institute of Environmental Research, focusing on themes such as carbon reduction and charitable activities. K-eco remains committed to ongoing efforts for mutual growth with local communities and social enterprises.



The environmental flea market



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## “Company-per-School” Scholarship Support

K-eco carries out comprehensive educational support activities to foster students’ academic development and raise environmental awareness through its ‘Company-per-School’ sisterhood program. Scholarships are awarded to students facing financial hardship using funds from “Cheonmimanmi,”\* a volunteer donation program funded by employee contributions. In addition to financial support, K-eco offers a variety of environmental education programs including mentoring, hands-on ecological activities, and volunteer work to help students develop ecological awareness and a spirit of action. These initiatives are further linked with broader social contribution efforts, such as holiday sharing programs and support for welfare facilities, cultivating a sense of generosity and social responsibility among students while nurturing the next generation of environmental leaders.

\* “Cheonmimanmi”: A fundraising initiative in which K-eco employees voluntarily donate the leftover change from their monthly salaries—amounts under KRW 1,000 or KRW 10,000—for social service activities



“Company-per-School” Scholarship Support

## Donation for Recovery from Electric Vehicle Fire in Incheon

To support residents affected by the electric vehicle fire at an apartment complex in Seo-gu, Incheon, K-eco donated KRW 10 million in relief funds to the Korean Red Cross. The corporation also joined hands with Nonghyup Bank to support residents facing difficulties due to power and water outages and provided indoor air quality testing services in the aftermath of the recovery. In addition to this initiative, K-eco continues to engage in various social contribution activities including disaster relief for fires and floods, furthering its commitment to sustainable development and coexistence with local communities.



Donation for recovery from the Incheon EV fire

## Lunar New Year Donations for Local Communities

In celebration of the Lunar New Year, K-eco delivered KRW 28 million worth of daily necessities and donations to underprivileged neighbors and social welfare facilities. The donations were funded through the corporation-wide “Cheonmimanmi” campaign and voluntary contributions by head office staff. Starting with visits to facilities for people with disabilities in Incheon, the initiative expanded to all eight regional environmental headquarters, leading to the purchase of goods at traditional local markets to support the local economy. K-eco, recognized with the highest rating in the Ministry of Health and Welfare’s local community contribution recognition program, continues to actively engage in social contribution initiatives.



Donation of daily necessities and funds to local neighbors for Lunar New Year

# Governance

## K-eco, Reliable Governance

### **K-eco is building a sustainable governance system grounded in accountability and transparency.**

By enhancing the operational stability of the Board of Directors and expanding the role of non-executive directors, K-eco has reinforced managerial accountability. The corporation has laid the foundation for innovative growth by securing expertise and diversity through the Future Innovation Council, which addresses ESG and carbon neutrality, digital transformation, and global convergence. It has fostered a culture of integrity by internalizing ethical management practices based on a standardized model, systematically managing conflicts of interest, and acquiring integrated certifications for ISO 37001 and ISO 37301. K-eco has solidified its position as a trusted public environmental institution leading the creation of social value through the establishment of citizen-participatory auditing systems, securing financial soundness, and driving digital innovation.

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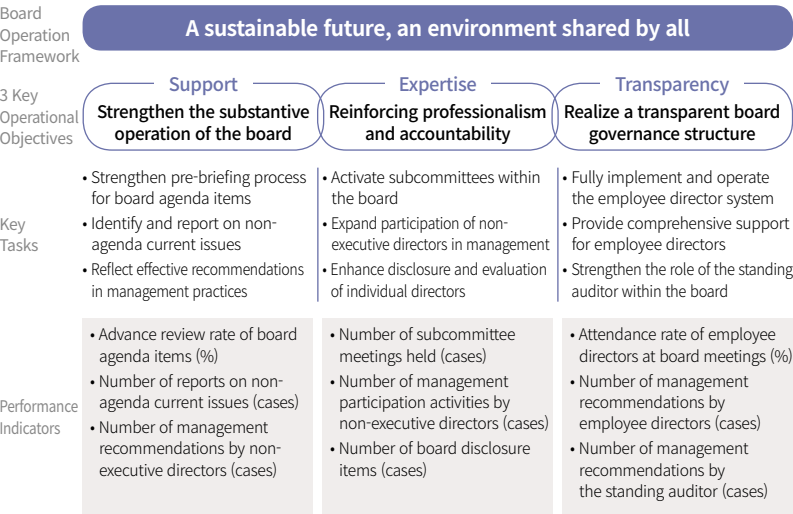


# Board of Directors in Charge of Sustainable Management

## Transparent & Accountable Board Operations

K-eco is committed to strengthening accountability and transparency in board operations by enhancing the substantive functioning of the board and expanding the role of non-executive directors to establish a sustainable governance structure. The corporation has set three strategic goals: strengthening the substantive operation of the board, reinforcing professionalism and accountability, and realizing transparent governance. Key initiatives include strengthening the pre-briefing process for agenda items, expanding non-executive directors’ participation in management, and fully implementing the employee-elected director system. Notably, the corporation has institutionalized pre-review procedures, achieving a 100% pre-screening rate and increased non-executive directors’ participation by actively sharing key management issues beyond scheduled agenda items. Additionally, newly appointed directors are immediately briefed on the corporation’s structure and role to support meaningful engagement, while a new evaluation system for individual board members has been introduced to assess and leverage performance. The corporation has also expanded the scope of board information disclosure, thereby further enhancing transparency. Going forward, K-eco will continue to strengthen the board’s accountability and independence to realize transparent and trusted sustainable management.

### Board Operation Framework



# Board of Directors in Charge of Sustainable Management

## Board Composition

K-eco’s Board of Directors, the highest decision-making body of the corporation, comprises 14 members who deliberate and vote on key matters of management. The board consists of the Chairman, five executive directors, and eight non-executive directors, all selected through a transparent recruitment process free from discrimination based on gender, religion, or other factors. Executive directors are appointed by the Chairman of K-eco following a recommendation by an executive recommendation committee, while non-executive directors are appointed by the Minister of Environment through the same process.

### Director Status

(As of May 30, 2025) ● Environment ● Administration ● Society ● Governance ● Economy ● Civil Engineering

Position	Name	Term	Major Career	
Chairman	Im Sang-jun (May 18, 1965)	Jan 31, 2025– Jan 30, 2028.	• Vice Minister, Ministry of Environment • Secretary for National Agenda, Office of the President • Director General for Policy Coordination, Office for Government Policy Coordination	●
Auditor Management	Hong Seong-hwan (Sep 24, 1961)	Feb 27, 2024– Feb 26, 2026	• Director General for Administration, Seoul High Prosecutors’ Office • Director General for Inspection, Gwangju High Prosecutors’ Office	●
Planning Director	Cha Kwang-myung (Feb 16, 1974)	Aug 1, 20– Jul 31, 2025	• Advisory Member, 20th Presidential Transition Committee • Advisor, UN World Food Programme • Secretary General, Korean Parliamentary League on Children, Population, and Environment	● ●
Director of Climate & Air	Yun Yong-hui (Feb 23, 1967)	Sep 2, 2024– Sep 1, 2026	• Director, Environmental Impact Assessment Division, Ministry of Environment • Director, Wonju Regional Environmental Agency / Han River Basin Environmental Agency • Director, Minister’s Office / National Institute of Biological Resources / Seoul Metropolitan Air Quality Management Office, Ministry of Environment	●
Water Environment Director	Ahn Byung-yong (Apr 15, 1966)	Mar 4, 2025– Mar 3, 2027	• Director General, HQ of Busan/Ulsan/Gyeongnam Environmental Management, K-eco • Director General, HQ of Jeonbuk Environmental management, K-eco • Director, Planning and Coordination Office, K-eco	●
Resource Circulation Director	JeongJae-woong (Feb 3, 1965)	Aug 30, 2022– Aug 29, 2025	• Director General, HQ of Jeonbuk Environmental Management, K-eco • Director, Resource Recycling Office, K-eco • Director, Resource Circulation Office, HQ of Western Metropolitan Area Environmental Management, K-eco	● ●
Director of Environmental Facilities	Lee Jun-seok (February 3, 1965)	April 7, 2025– April 6, 2027	• Head, Dept. of Water Infrastructure, HQ of Environmental Facilities, K-eco • Head, Dept. of Environmental Facilities Management, HQ of Chungcheong Environmental Management, K-eco • Director, Construction Management Division, HQ of Chungcheong Environmental Management, K-eco	●

Executive Directors (5)

Position	Name	Term	Major Career	
Director General for Climate & Carbon Policy, Ministry of Environment	Ahn Se-chang (May 6, 1969)	Appointed Nov 11, 2024	• 32nd Technical Civil Service Exam Pass • Director, Seoul Metropolitan Air Quality Management Office • Director General for Climate Change Policy, Climate and Carbon Policy Office, Ministry of Environment • Director General for National Territorial Policy, National Territory and Urban Policy Office, Ministry of Land, Infrastructure and Transport	● ●
Director for Social Budget Review, Ministry of Economy and Finance	Park Jun-ho (Sep 29, 1972)	Appointed April 21, 2025	• Passed the 41st Public Administration Examination • Director, Public Policy Bureau, Ministry of Economy and Finance • Director General, Policy Planning Bureau, Ministry of Employment and Labor • Director General, Fiscal Soundness Bureau, Ministry of Economy and Finance	● ● ●
Professor Emeritus, Yeungnam University	Baek Sung-ok (May 24, 1956.)	Dec 29, 2023– Dec 28, 2025	• Vice President for Academic Affairs, Yeungnam University • 15th President, Korean Society for Atmospheric Environment • Chairman, Climate & Air Subcommittee, Central Environmental Policy Committee, Ministry of Environment	● ● ●
Honorary Research Fellow, Korea Environment Institute	Gong Sung-yong (Aug 20, 1962)	Apr 15, 2024– Apr 14, 2026	• Honorary Research Fellow, Korea Environment Institute • Director, Climate and Air Safety Research Division, Korea Environmental Institute • Chief Researcher, Research Institute of Industrial Science and Technology (RIST) • Senior Researcher, Korea Institute of Science and Technology (KIST)	●
Employee Director, K-eco	Ryu Hyeong-seok (May 20, 1975)	Jul 15, 2024– Jul 14, 2026	• Policy Director, Federation of Korean Public Trade Unions • Secretary General and Deputy Chair, Labor Union of K-eco • Secretariat/Korea Water Cluster, K-eco	●
Advisor, Institute for National Policy Research	Kim Hwa-dong (Oct 5, 1956)	May 30, 2025– May 29, 2027	• President, Korea Minting and Security Printing Corporation • Standing Commissioner, National Science and Technology Commission • Director General, Domestic Countermeasure Headquarters for Trade Agreements, Ministry of Economy and Finance	● ●
Vice President, Korea Residential Environment and Asbestos Association	Park Eung-ryeol (Nov 16, 1958)	May 30, 2025– May 29, 2027	• Director, Jeollanam-do Environmental Industry Promotion Institute • Director, HQ of Resource Circulation, K-eco • Director General, Yeongsangang River Basin Environmental Office, Ministry of Environment	●
Professor, Kyung Hee University	Yu Ga-young (Sep 19, 1971)	May 30, 2025– May 29, 2027	• Ph.D. in Soil Ecology, University of Illinois, United States • Dean, Department of Environmental Science and Environmental Engineering, Kyung Hee University • Senior Research Fellow, Korea Environment Institute	● ● ●

※ Numbers in parentheses indicate the number of members

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# Board of Directors in Charge of Sustainable Management

## Board Evaluation & Remuneration

To enhance the transparency and accountability of board operations, K-eco has introduced multiple governance mechanisms. An individual board member evaluation system assesses attendance, participation, and involvement in management, and evaluation results are submitted to external agencies to promote responsibility. Directors' compensation complies with regulatory guidelines and follows an annual salary system, comprising fixed and performance-based components. Remuneration details are transparently disclosed through the corporation's management information portal and ALIO, ensuring continued improvement in the efficiency and integrity of board operations.

## Board Remuneration Regulations

Remuneration for K-eco's Board of Directors is calculated in accordance with the Act on the Management of Public Institutions and the relevant guidelines of the Ministry of Economy and Finance:

### Remuneration Items & Calculation Standard

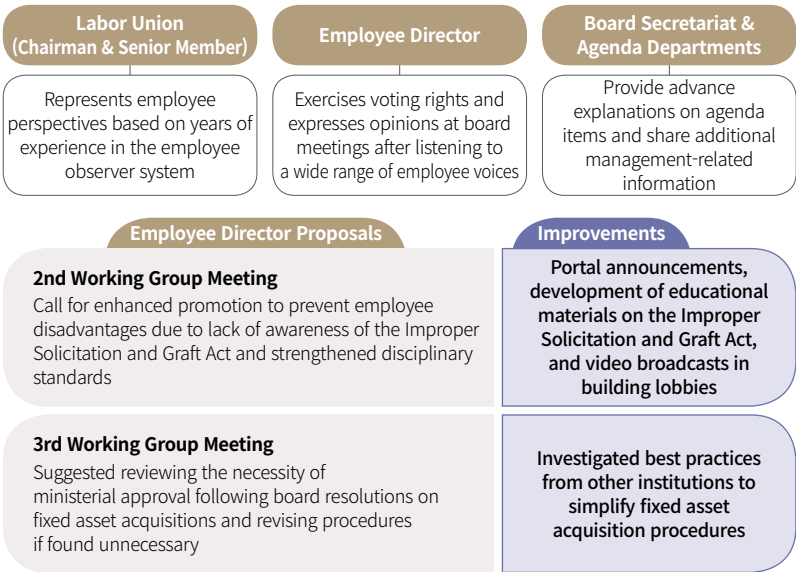
Category	Item	Calculation Standard	Notes
Executive Directors	Base Salary	Based on the remuneration standards by position	Reflects performance evaluation results
	Management Performance Bonus	Variable by previous year's performance	Based on MOEF performance bonus guidelines
Non-Executive Directors	Meeting Allowance	Fixed amount per meeting	Based on annual attendance
	Compensation for Actual Expenses	Actual Expenses (Transportation, Meals, etc.)	Based on actual costs incurred

※ The remuneration levels for executive directors are disclosed annually on the ALIO (public institution management disclosure) website.

## Employee-Elected Director System

Following two years (November 2022–June 2024) of continued labor-management cooperation and dialogue, K-eco successfully introduced the employee-elected director (employee director) system in July 2024, establishing a participatory management framework for the first time in its history. Building on years of experience operating an employee observer system, the corporation effectively integrated the roles of union representatives and the employee director. Monthly pre-board meetings are held to identify and propose measures to protect employee rights and enhance management, establishing the employee director as an effective conduit for worker input. With 100% attendance at board meetings, the director contributed seven meaningful proposals drawn from labor-management consultations, directly reflecting employee voices in governance and resolving long-standing concerns. This achievement marks a significant step in positioning workers as core stakeholders in institutional management.

### Labor-Management Working Group & Outcomes





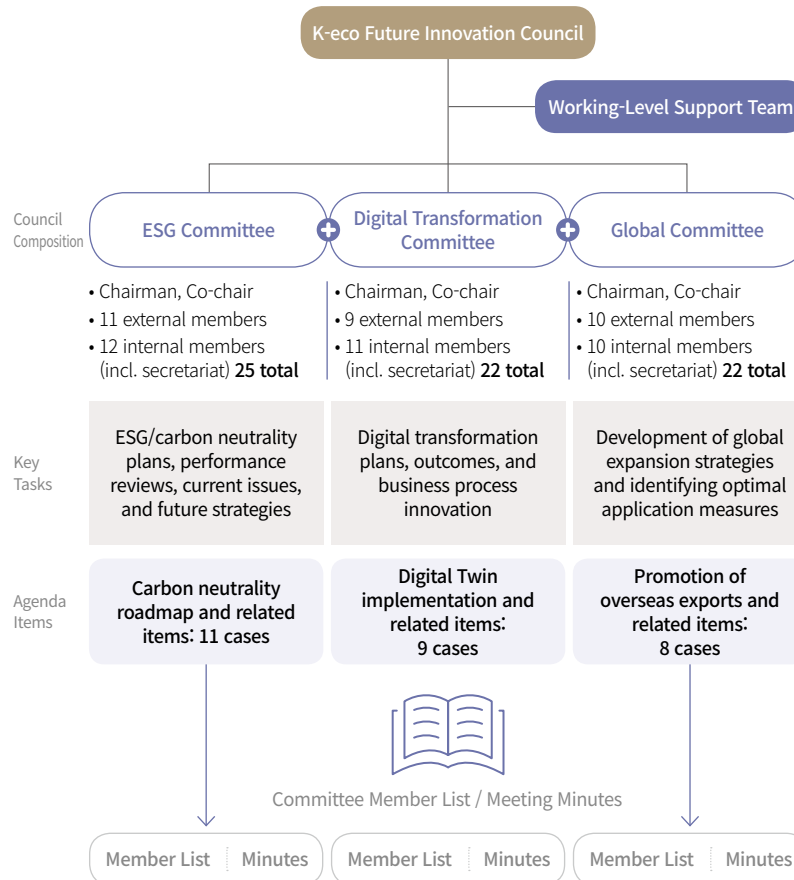
# Board of Directors in Charge of Sustainable Management

## K-eco Future Innovation Council

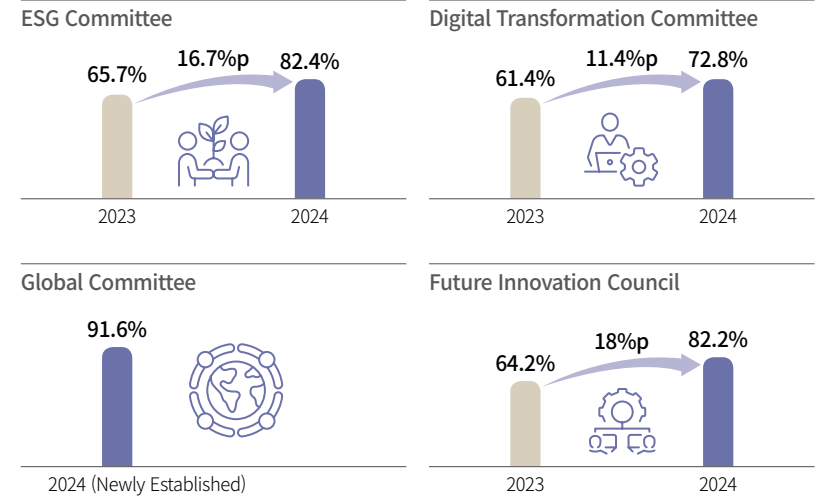
To strengthen institutional advancement and management efficiency, K-eco operates the Future Innovation Council, which comprises three main committees: the ESG Committee, the Digital Transformation Committee, and the Global Committee. Each committee is co-chaired by the Chairman of K-eco and a civilian expert and includes external specialists from academia, private enterprises, public institutions, and civil society, alongside internal executives such as executive and non-executive directors and department heads. These committees review strategic plans, implementation progress, and performance related to their respective focus areas. They also offer expert insights on domestic and international trends, innovative business models, and future development strategies, as well as cross-divisional innovation recommendations. Each committee meets quarterly, with subcommittees convened as needed for more in-depth discussions.

### K-eco Future Innovation Council

(As of July 2025)



### Future Innovation Council Attendance Rate



### Implementation Rate of Council Recommendations

Category	Total (Cases)	Rate (%)	Implemented (Cases)	By Year				Under Review (Cases)
				'24	'25	'26	'27	
<b>Total</b>	81	74.1	60	37	17	2	4	21
<b>ESG Committee</b>	18	100	18	15	3	-	-	-
<b>Digital Transformation Committee</b>	16	100	16	4	7	2	3	-
<b>Global Committee</b>	47	55	26	18	7	0	1	21

# Board of Directors in Charge of Sustainable Management

## ESG Committee

To strengthen sustainable and transparent management and realize social value, K-eco operates the ESG Committee as a consultative body guiding ESG implementation and carbon neutrality strategies. The committee is co-chaired by the Chairman of K-eco and an external expert and comprises 25 members: 11 external advisors and 12 internal executives including department heads (with one serving as secretary). In 2024, the committee achieved a high attendance rate of 82.4% and produced 18 expert recommendations, all of which were fully integrated into management. The committee also identified 10 key ESG issues aligned with global guidelines and K-eco's business areas, establishing a mid-to-long-term ESG strategy. Key achievements include development of the 2024 Greenhouse Gas Reduction Roadmap, Scope 3 emissions accounting, acquisition of ISO 14001 certification, and promotion of ESG partnership networks. The committee continues to systematically assess and improve these initiatives.



ESG Committee meeting

### Key Agenda Items of the ESG Committee (2024)

Meeting	Agenda Items
1	<ul style="list-style-type: none"> <li>ESG management performance results and implementation strategy</li> <li>2024 key action plan for implementing the 2040 Carbon Neutrality Roadmap</li> </ul>
2	<ul style="list-style-type: none"> <li>Environmental management system certification</li> <li>Expansion of scope 3 emissions calculation boundaries</li> </ul>
3	<ul style="list-style-type: none"> <li>(Special lecture) Corporate and institutional response to EU supply chain due diligence directive</li> <li>Energy saving strategies for small-scale environmental monitoring stations</li> <li>Pilot project for office power usage monitoring</li> </ul>
4	<ul style="list-style-type: none"> <li>2024 interim ESG management performance review</li> <li>(Special lecture) Promoting human rights management in partner companies</li> <li>(Special lecture) Status and challenges of RE100 in corporations, local governments, and public institutions</li> </ul>
1st Integration	<ul style="list-style-type: none"> <li>Status and implementation plan for ESG management and committee recommendations</li> </ul>
2nd Integration	<ul style="list-style-type: none"> <li>Key achievements in ESG management and implementation of committee recommendations</li> </ul>

## Digital Transformation Committee

K-eco operates the Digital Transformation Committee to enhance competitiveness and improve business processes through digital transformation. Co-chaired by the Chairman of K-eco and an external expert, the committee comprises 22 members, including 9 external specialists from various fields and 11 internal department heads (with one serving as secretary). The committee holds quarterly meetings to deliberate on digital innovation strategies. In 2024, the committee recorded a 72.8% attendance rate—an 11.4 percentage point increase from the previous year—and developed 16 expert recommendations, all of which were reflected in management activities. Major accomplishments include the establishment of the 2027 K-eco DX 2.0 Plan\*, the formation of the internal K-eco DX task force, expansion of integrated data management and development, and strategic discussions on intelligent environmental administration such as tele-monitoring of smokestacks and digital innovation of waste incineration facility operations.



Digital Transformation Committee meeting

\* K-eco DX 2.0 Plan: A plan to develop and upgrade (2.0) the digital transformation implementation plan established in 2023 with focus on AI technology and communication with the public

### Key Agenda Items of the Digital Transformation Committee (2024)

Meeting	Agenda Items
1	<ul style="list-style-type: none"> <li>Major trends and insights from CES and MWC 2024</li> <li>Introduction of digital twin technology in environmental infrastructure</li> </ul>
2	<ul style="list-style-type: none"> <li>K-eco DX 2.0 implementation plan</li> <li>Draft plan for digital twin development in Aquatic Ecological Facilities Office</li> </ul>
3	<ul style="list-style-type: none"> <li>Open access to carbon neutrality points digital services</li> <li>Establishment of integrated chemical management system via shared platform</li> <li>Next-generation security paradigm: Implementing k-eco Zero Trust</li> </ul>
4	<ul style="list-style-type: none"> <li>Case study: Digital twin application in municipal waste incineration facilities</li> <li>22 years of waste big data: Reborn as good data</li> </ul>
1st Integration	<ul style="list-style-type: none"> <li>K-eco DX 2.0 Plan (2023–2027)</li> </ul>
2nd Integration	<ul style="list-style-type: none"> <li>Key digital transformation achievements in 2024</li> </ul>

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## Global Committee

K-eco operates the Global Committee to strengthen global capabilities and address environmental challenges both domestically and internationally. Co-chaired by the Chairman of K-eco and an external expert, the committee consists of 22 members: 10 external experts from various fields and 10 internal executives (with one serving as secretary). The committee convenes quarterly. In 2024, the committee achieved a high attendance rate of 91.6%, generating 47 expert recommendations, of which 26 (55%) were adopted into actual management initiatives. Key focus areas included the expansion of the international expert dispatch program (KIEP), fostering synergies through partnerships with international organizations and countries, establishing and operating a task force for biogas center development, and providing expert guidance on global environmental solutions such as international greenhouse gas reduction projects and Green ODA. The committee continues to systematically monitor implementation performance and identify areas for improvement.



Global Committee meeting

### Key Agenda Items of the Global Committee (2024)

Meeting	Agenda Items
1	<ul style="list-style-type: none"> <li>Introduction to K-eco projects and global/convergence strategy</li> </ul>
2	<ul style="list-style-type: none"> <li>Strategy for promoting clean fuel production using organic waste resources</li> <li>Operating plan for subcommittees</li> </ul>
3	<ul style="list-style-type: none"> <li>Overview of global investment and development projects and K-eco's strategy</li> <li>Establishment of an integrated system for advanced management of future waste resources</li> </ul>
4	<ul style="list-style-type: none"> <li>Review of feasibility and strategic direction for overseas investment and development projects</li> <li>Efforts and future plans to promote overseas exports</li> <li>Integrated management of air pollutant-emitting sites through improvement of workplace emissions management system</li> </ul>
1st Integration	2024 K-eco global advancement strategy
2nd Integration	Status of Global Committee recommendations and key achievements in 2024

## Future Innovation Council

Since its launch in 2022, K-eco's Future Innovation Council has firmly established itself as a key advisory body that drives the corporation's vision and sustainable development. In May 2025, the council underwent a full-scale reorganization, evolving from the Future Development Committee that had been in place for the past three years. This included changes to the council's name, composition, and operational structure. A chairperson position was newly established to enhance both the council's authority and outreach, enabling its transformation into an action-oriented platform for future strategic planning. The integrated council, comprising 68 internal and external experts, includes five non-executive directors appointed as internal members of three subcommittees, thereby strengthening collaboration with the Board of Directors. Additionally, the council increased the proportion of female experts, enhancing gender representation and diversifying perspectives in its advisory functions. Held on a biannual basis, the council systematically explores directions for sustainable and innovative growth through collaboration among subcommittees and organic linkage across agendas.



Future Innovation Council meeting

### Key Agenda Items of the Future Innovation Council (2024)

Meeting	Agenda Items
1st Integration	<ul style="list-style-type: none"> <li>(Special lecture) Opening of public data in the era of data economy</li> <li>(Special lecture) Key issues in the INC-5 international plastics pollution agreement</li> <li>Status and implementation plan for ESG management and committee recommendations</li> <li>K-eco DX 2.0 Plan (2023-2027)</li> <li>2024 K-eco Global and Convergence Promotion Plan</li> </ul>
2nd Integration	<ul style="list-style-type: none"> <li>(Special lecture) Global crisis and the new social contract</li> <li>Key achievements in ESG management and implementation of committee recommendations</li> <li>2024 key achievements in digital transformation</li> <li>Status of Global Committee recommendations and key achievements in 2024</li> </ul>

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# Ethical Management

## Advanced Ethical Management Strategy

K-eco is committed to realizing a clean public institution that earns public trust through fair and transparent ethical management, grounded in the philosophy: “K-eco strives to become a trusted organization through upright management that safeguards integrity, ethics, and human rights.” Anchored in the six core components of the ethical management standard model, K-eco pursues three strategic pillars: strengthening the ethical management system, implementing tailored ethical risk management, and internalizing and disseminating an ethical culture. Six key initiatives are being carried out systematically, ranging from strengthening ethical leadership among senior executives to enhancing the efficacy of monitoring and feedback mechanisms through evaluations and reporting systems. Implementation is guided by a charter of ethics, a code of conduct, and rules of practice, and driven by the Integrity and Internal Control Committee and 17 execution committees. Transparent monitoring is reinforced through an integrity and ethics forecast system and the internal reporting center. Performance is assessed using indicators such as the Anti-Corruption and Civil Rights Commission’s (ACRC) comprehensive integrity assessment. Through continued dissemination of best practices and ongoing improvements, K-eco aims to establish and expand its ethical management system by 2028, following the introduction of the standard model in 2022.

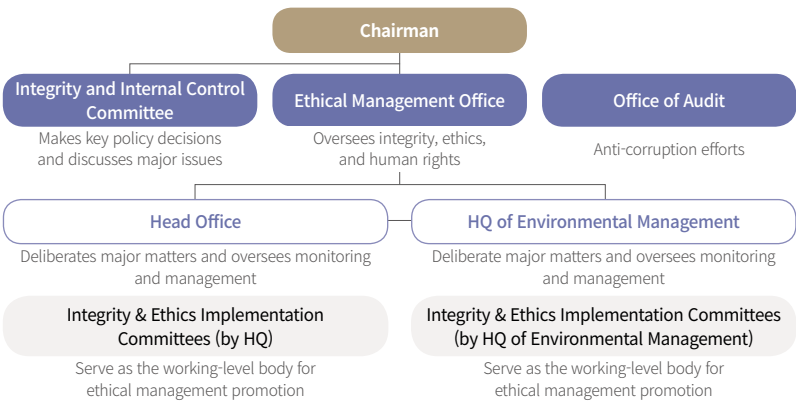
### Ethical Management Strategy & Framework



## Ethical Management Implementation System

Led by the Chairman, K-eco has established a systematic organizational structure for ethical management, fostering a culture of integrity and transparency. The semiannual Integrity and Internal Control Committee, the highest decision-making body for ethical management under the direct authority of the Chairman, deliberates and resolves key policies and issues. The Ethical Management Office formulates a corporation-wide roadmap and implementation tasks and monitors progress. The Head Office and HQ of environmental management oversee day-to-day execution, while local integrity and ethics committees identify and monitor field-specific issues. Each division designs and implements field-specific action plans to ensure ethical management is embedded throughout the organization. K-eco’s charter of ethics serves as a daily ethical compass for all employees, encapsulating its mission as a leading environmental institution with a focus on sustainable development, social responsibility, transparent conduct, mutual respect, fairness, labor-management cooperation, ethical risk management, and the prevention of conflicts of interest.

### Ethical Management Organizational Structure



### Grad 3 in the 2024 Comprehensive Integrity Assessment

1 grade ↑ from the previous year  
Reached an 85.3% implementation rate of ethical standard model (2.8%p ↑ from previous year)



2025 Integrity and Internal Control Committee

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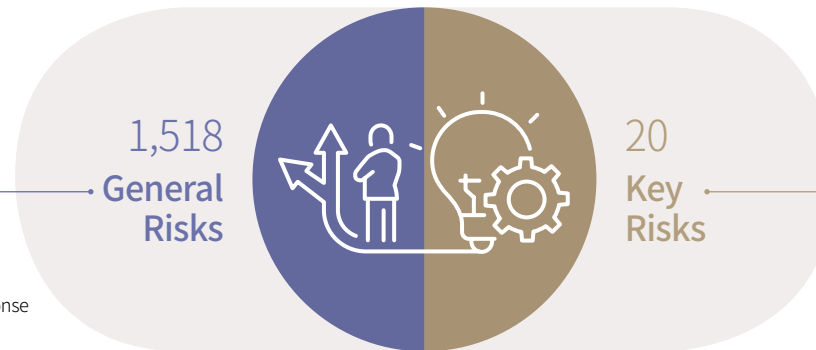
## Customized Internal Control & Risk Management Achievement

K-eco has established a tailored internal control framework based on a thorough analysis of business characteristics and external environmental changes and has implemented a two-track risk management approach. By aligning its mission and vision with its internal control vision and systematizing five strategic objectives and twelve tasks, the corporation developed its first comprehensive internal control operation plan and fully revised its internal control regulations to strengthen the institutional foundation. These efforts were recognized with certification for internal control audit quality in 2024. In addition, K-eco successfully implemented a general risk management system under which each department autonomously identifies and manages risks according to its operational characteristics. This led to dual ISO certifications in 2023 for ISO 37001 (anti-corruption management) and ISO 37301 (compliance management). A collaborative internal control working group conducted in-depth discussions to comprehensively analyze ethics-related risks from 2024, priority risks from 2023, and corruption-prone areas and similar risks from 2024, ultimately identifying 20 major risks and establishing systematic procedures for proactive response.

### K-eco's Two-Track Risk Management

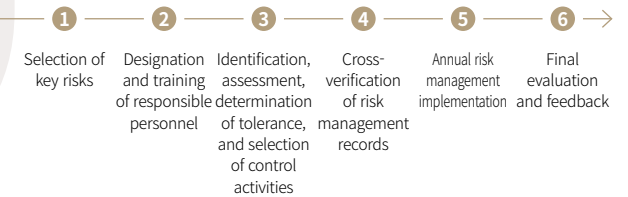
#### Maintenance of ISO 37001·37301 dual certifications (since Sep 2023)

Identified “general risks”  
across 63 departments and  
244 teams, established  
162 control activities in response



2024 Ethics-Related Risks·2023 Priority Risks·  
2024 Corruption-Prone Areas & Similar Risk Types  
➤ Key Risk Selection

#### Key Risk Management Process



ISO 37001 (anti-corruption) and  
ISO 37301 (compliance management system) certifications



Awarding of certification for internal control and  
audit quality assessment



The Red Team for national subsidy risk management

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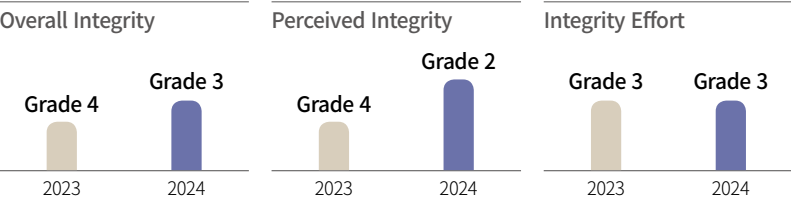
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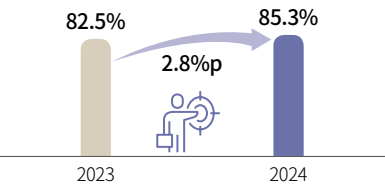
## Achievements in Anti-Corruption & Compliance

Upholding the management principle of “future-oriented, communication-based, innovative management,” and the core values of “trust, expertise, safety, and innovation,” K-eco leads the way in fostering a transparent and fair social culture through compliance-based ethical management. All employees strictly adhere to domestic and international anti-corruption laws and internal regulations, committed to a clean organizational culture where no gifts, treats, or bribes are exchanged. Through the rigorous implementation of these principles, K-eco achieved meaningful outcomes in the ACRC’s 2024 integrity assessment: Grade 3 in overall integrity, Grade 2 in perceived integrity, and Grade 3 in integrity effort. Going forward, K-eco will continue to empower compliance officers with independent authority, continuously improve its anti-corruption and compliance management systems, and fulfill its social responsibility as a clean and trusted public institution.

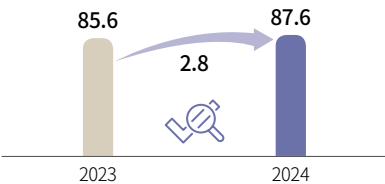
### Institutional Integrity Improvement



### Improved Implementation Rate of the Standard Ethical Management model



### Organizational Culture Index (KCI)



**Grade3 in the 2024 Comprehensive Integrity Assessment of Public Institutions** Anti-Corruption & Civil Rights Commission

Grade 2 for perceived integrity / Grade 3 for Integrity Effort



## Ombudsman System Operation

Since 2019, K-eco has operated an ombudsman system to conduct audits of its projects and operations from the public’s perspective. The system includes participation from citizen environmental auditors\* and civilian inspectors\*\*, who also take part in integrity monitoring and oversight. In accordance with internal guidelines, the system plays a key role in enhancing transparency and accountability by correcting unlawful or unjust administrative actions and recommending institutional improvements. Through this mechanism, K-eco continues to strengthen its governance framework to ensure sustainable management and public trust.

\* Citizen environmental auditors: Participate as an audit team in internal and special audits of K-eco projects from the public’s perspective

\*\* Civilian inspectors: Participate as an audit team in public service integrity inspections of K-eco projects from the public’s perspective

### K-eco Ombudsman Operation Status

(As of end-2024)

Ombudsman Activity Performance (Unit: Cases)			Ombudsman Personnel (Unit: No.)		
Category	Citizen Environmental Auditors	Civilian Inspectors	Category	Citizen Environmental Auditors	Civilian Inspectors
2022	2	3	2022	6	9
2023	1	4	2023	5	7
2024	6	3	2024	6	4

#### Reference

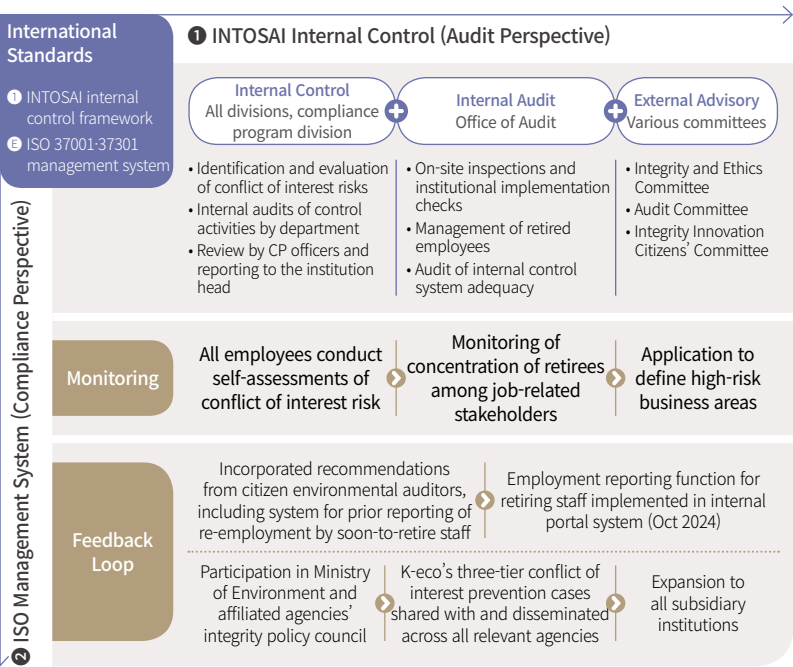
1. Legal Basis: K-eco Regulations No. 245, “Guidelines on the Operation of Citizen Environmental Audit Teams,” Sep 18, 2019
2. 6th Term Citizen Environmental Auditors: 38 members appointed (Apr 2021–Mar 2024)
3. 7th Term Citizen Environmental Auditors: 36 members appointed (Apr 2024–Mar 2027)

# Ethical Management

## Three-Tier Conflict of Interest Management System

To manage conflict of interest risks systematically, K-eco has established a three-tier management system that covers individuals, general projects, and high-risk projects. Conflict-of-interest prevention efforts have been reinforced by linking this system with the corporation’s mid- to long-term ESG and audit strategies. Measures include individual self-assessments and pledges, ongoing compliance monitoring, and special preventive actions targeting high-risk areas involving retirees. Integration of international standards (ISO 37001 and 37301) with the INTOSAI internal control framework has further enhanced the effectiveness of risk control. As a result, K-eco achieved full marks for “corruption risk factor management” in the ACRC’s integrity evaluation for two consecutive years and scored 87.3 in the “institutional and system” category of the Korea Culture Index (KCI), demonstrating a culture of strong institutional ethics.

### Three-Tier Conflict of Interest Management System (Individuals-General Projects-High Risk Projects)



## Zero Legal Violations through Customized Conflict of Interest Management

K-eco conducts systematic anti-corruption training across the full career cycle of employees to raise awareness of conflict-of-interest risks and launched a program to train internal instructors, contributing to the spread of a clean organizational culture. These efforts led to a 76.3 score in the ACRC’s 2024 “education awareness” sub-index—6.7 points higher than the average for quasi-governmental institutions—and a perfect score of 100 in “anti-corruption and integrity training effectiveness.” With a multilayered management system from departmental monitoring to organization-wide oversight, no violations of the Act of the Prevention of Conflict of Interest Related to Duties of Public Servants were reported, and public perception and experience of corruption was also at zero in 2024. In particular, K-eco’s targeted management of high-risk areas such as post-employment restrictions and misuse of confidential information helped achieve a Grade 2 in integrity perception and a 96.1 score in external perception in the 2024 integrity assessment, setting a strong example of transparency and ethics in the public sector.

### Management of High-Risk Projects for Conflict of Interest

Category		Improvements
Retirees	Joint inspections with the Ministry of Environment for recycling PROs	• Strict management of potential conflicts arising from K-eco retirees employed in 16 PROs
	Education and communication targeting those involved in environmental facility installation projects	• 3 special training sessions for staff in the Environmental Facilities Division and contract managers • 13 integrity reminders sent to proposal review committee members • Rigorous management of conflicts involving former employees now working for construction contractors
Misuse of Confidential Information	Provision of legal guidance pre- and post-implementation of win-win cooperation projects	• Pre-implementation: Provide advance notice of legal restrictions (e.g., leakage of project information) during project solicitation (semi-annual) • Post-implementation: Notify both commissioning and executing parties of their integrity obligations upon review conclusion • Ongoing: Include confidentiality and ethics compliance training during regular job training for staff in charge of partnership projects

★ **Grade 2 in Perceived Integrity Rating in 2024**  
2 grades ↑ from previous year

★ **2024 ACRC External Integrity Perception Score: 96.1**  
5.4 points ↑ from previous year / 3.3 points higher than the quasi-governmental organization average



# Strengthened Management for Sustainable & Innovative Governance

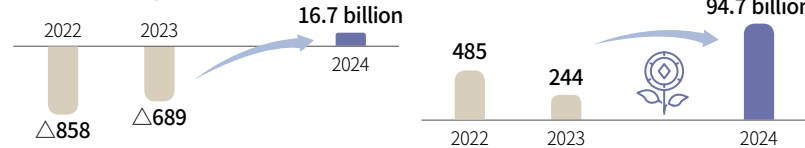
## ESG Management through Operational Improvements & External Partnerships

To implement ESG management with a focus on financial innovation and cooperation, K-eco has established three key goals: strengthening financial soundness and stability, enhancing win-win cooperation and partnership, and advancing ESG management and innovation and government policy implementation. To ensure systematic execution, detailed implementation tasks have been established for each business unit, and a PDCA (Plan-Do-Check-Act) system has been implemented through the “Team Spirits” strategy meetings for performance management and feedback. As a result of these efforts, the corporation has achieved zero-debt management by repaying all loans early and has successfully overcome a state of capital impairment. In addition, by hosting the K-eco Shared Growth Festa, promoting innovative procurement in public purchasing and expanding the adoption of green products, K-eco has strengthened partnerships with small enterprises and local communities, earning the highest rating for shared growth for three consecutive years and solidifying a sustainable ESG management framework.

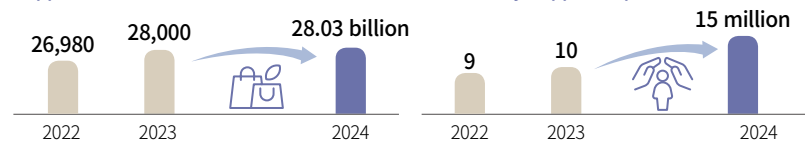
## ESG Management through Financial Innovation & Win-Win Cooperation



## Retained Earnings (Accumulated Deficit, KRW) Net Profit for the Year (KRW)



## Support for Green Product Procurement (KRW) Community Support Expenditures (KRW)



## Enhancing Stability & Profitability through Strategic Budgeting by Business Unit

Recognizing the complexity and diversity of financial resources and project execution methods, K-eco has reinforced its foundation for sustainable growth through strategic budgeting tailored to each business unit. With a strategy centered on safety, continuity, and profitability, the corporation completely reduced both revenue and expenditure budgets for deficit-prone projects, achieving a permanent improvement in financial balance. Additionally, to secure future growth engines, it has secured investment support budgets for initiatives such as the waste battery cluster and the introduction of carbon innovation technologies, and set concrete performance indicators based on projected revenues for 2025.

## Budget Formulation Strategy by Program Type

Goal **Formulating strategic and appropriate budgeting plans to strengthen the foundation for sustainable growth**

Strategy by Business Type

Business Type	Budget Securing Method	Formulation Strategy & Description	
<b>Inhouse Projects (Gov't Subsidized)</b>	Secure government subsidies equivalent to net revenue-expenditure gap	<b>Stability</b>	Reassess projects with worsening fiscal balance from the ground up to ensure adequate budget allocation
<b>Commissioned Projects (Gov't Delegated/ Outsourced)</b>	Sign delegation contracts with the government to secure project funding (requires clear legal basis and demonstrated expertise)	<b>Sustainability</b>	Expand new and core business areas by securing justification for K-eco's role in executing delegated programs
<b>Local Gov't Delegated Projects (Environmental Facility Installation)</b>	Sign consignment agreements with local governments to receive project funds and service fees	<b>Profitability</b>	Improve financial performance by increasing commission rates and reducing operating costs

Implementation

Stability Strategy	Sustainability Strategy	Profitability Strategy
<b>Project Selection</b> Review low-priority and low-efficiency projects such as confiscated waste recycling programs  <b>Structural Adjustment</b> Adjust scopes of responsibility in collaboration with other institutions  • Fully eliminated budget for structurally unprofitable projects, permanently improving financial balance by KRW 1.4 billion ※ Based on a three-year average deficit of KRW 1.4 billion	<b>New Project Acquisition</b> Engage government and National Assembly to emphasize K-eco's expertise and operational necessity  <b>Expansion of Core Projects</b> Actively support budget approval processes  <b>Outcomes</b> • Secured KRW 2.4 billion for the operation of the waste battery cluster • Secured KRW 10 billion for investment in carbon innovation technology adoption	<b>Revenue Expansion</b> Aggressively acquire local government contracts and adjust commission rates to reflect actual costs  <b>Cost Minimization</b> Optimize operational and program expenses  • 2025 revenue forecast: KRW 893.2 billion Target financial balance: KRW 33.3 billion (102% ↑ year over year)

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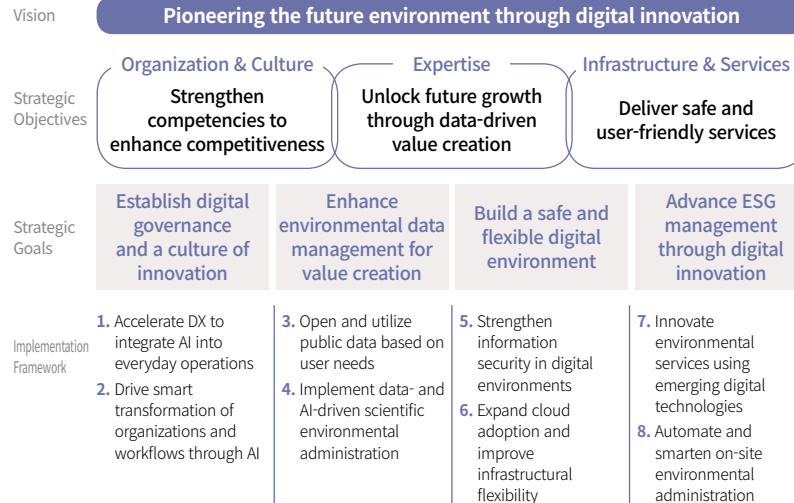
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# Digital Innovation for Smarter Operations

## K-eco DX 2.0

K-eco has refined its digital transformation (DX) strategy in response to internal and external environmental shifts, resulting in the development of K-eco DX 2.0. Under the vision “pioneering the future environment through digital innovation,” the corporation has set four strategic objectives aligned with the pillars of organization & culture, expertise, infrastructure & services. For each goal, two strategic goals have been defined and are being systematically implemented. To ensure execution, a dedicated digital transformation task force reporting directly to the Chairman has been formed, establishing an enterprise-wide system of participation involving executives, external experts, and internal staff. Through a virtuous PDCA (plan, do check, act) cycle, the digital transformation initiative has yielded significant outcomes, including a top rating for three consecutive years in the Ministry of the Interior and Safety’s 2024 Data-Based Administration Evaluation.

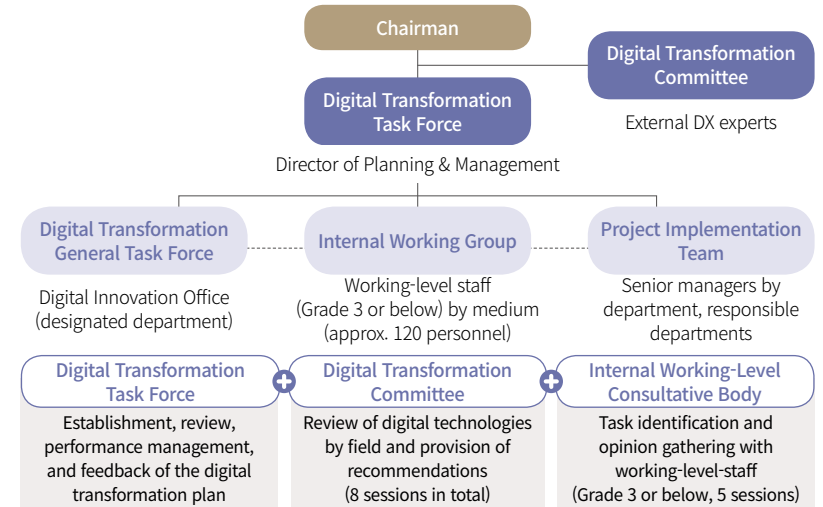
## K-eco DX 2.0



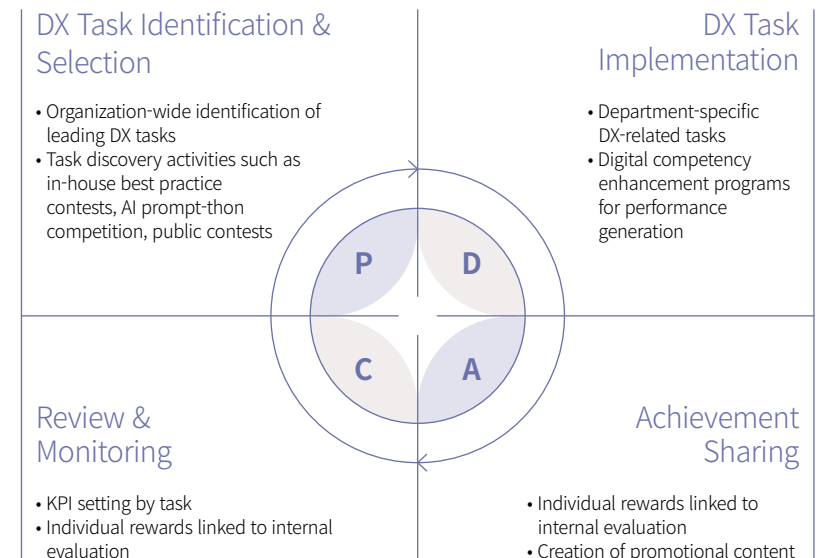
**Top rating in the 2024 Data-Based Administration Assessment by Ministry of the Interior & Safety** 3 consecutive years



## Digital Transformation Framework



## Digital Transformation PDCA Cycle



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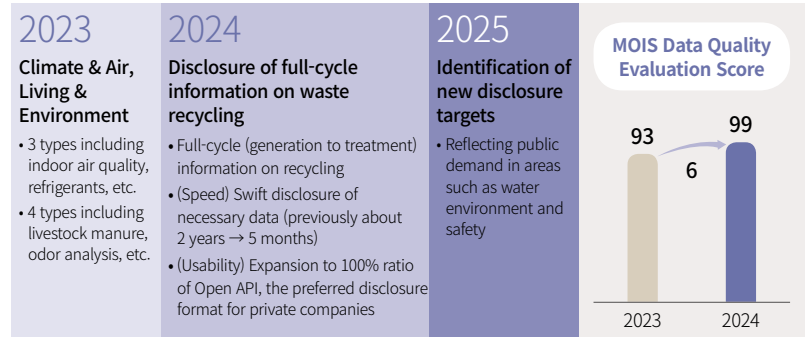
# Digital Innovation for Smarter Operations

## Expanding the Availability & Utilization of K-eco's High-Quality Data

To open up access to high-quality public data, K-eco has conducted database diagnostics and cleansing efforts, and re-reviewed the standard dictionaries for 54 environmental data systems across the corporation, achieving a 90% compliance rate with data standards. Through its participation in the Ministry of the Interior and Safety's national priority data opening project\* (2023–2024), K-eco has opened access to APIs, authenticity verification services, and unstructured file data across 12 key domains including circular resources, waste disposal charges, and indoor air quality, positioning itself as a leading institution in demand-driven data sharing. Furthermore, by going beyond simple automation and establishing a scientific, data-based administrative culture, K-eco has introduced the Smart K-eco digital dashboard for executive management, enabling real-time visualization of environmental, operational, and safety data to support swift decision-making. On-site applications now include a recycled aggregate price prediction model and AI-based market risk assessment for the recycling sector, reflecting a transition to data-informed operational practices.

\* National priority data opening project: High-value and high-demand public data sets with significant impact when shared with the public are designated by the Ministry of the Interior and Safety

## 2023–2024 Ministry of the Interior & Safety National (MOIS) Priority Data Designation



**Designated as National Priority Data in 2024 by Ministry of the Interior & Safety**

Only institution in the environmental sector, 2 consecutive years

**Highest rating in the 2024 Public Data Provision & Operation Evaluation**

5 consecutive years



## Realizing ESG through Digital Innovation & Public-Private Collaboration

To ensure safe adoption in the rapidly advancing era of AI, K-eco has implemented an AI ethics pledge for all employees, based on three core principles and a 16-item checklist. The corporation has also established a set of nine key guidelines covering areas such as responsibility and security to mitigate potential risks of generative AI. Under the theme “Environment Meets AI,” K-eco co-hosted an internal AI competition with Google Cloud to enhance public services and improve internal efficiency through expanded AI usage. In addition, the corporation held public competitions for environmental data analysis and idea generation in collaboration with the Ministry of Environment and affiliated institutions, incorporating selected ideas into environmental policy to improve citizen-facing services.

### K-eco AI Prompt-thon



2024 Environmental Data Utilization and Analysis Contest



2024 Environmental Data Analysis and Utilization Performance Sharing Conference

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# Global Green K-eco

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**As a global environmental institute,  
K-eco is taking the lead in addressing worldwide  
environmental challenges and expanding cooperation  
with the international community.**

By sharing Korea's advanced environmental policies and technologies with developing countries and actively participating in the UN climate regime, K-eco is enhancing its standing within global environmental governance. Through efforts such as setting international standards, implementing green ODA projects, and exporting Korea's circular economy model, K-eco contributes to narrowing global environmental disparities. In addition, the corporation supports the overseas expansion of small and medium-sized environmental enterprises, advancing the globalization of Korea's environmental industry. K-eco will continue to strengthen global partnerships and lead international cooperation in the environmental sector to address the climate crisis and promote sustainable development.



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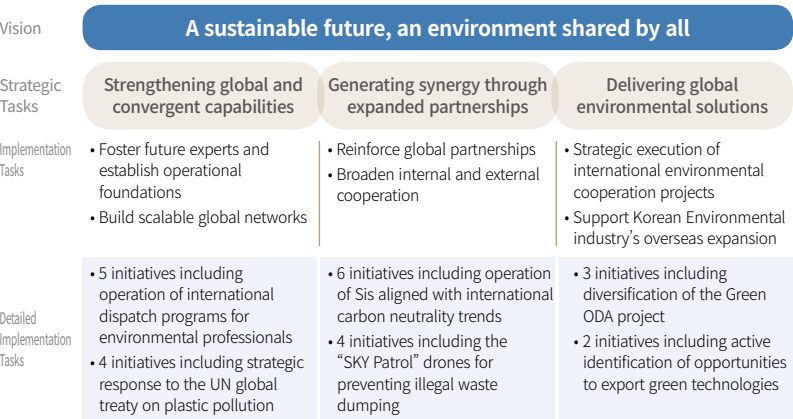
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# K-eco's Heightened Global Presence

## Leading Global Solutions to Environmental Challenges

Under the vision of becoming a “global environmental institution focused on solving environmental challenges,” K-eco established its organization-wide Global and Convergence Promotion Plan in July 2024, led by its Future Development Committee. Positioning K-eco at the forefront of global efforts toward carbon neutrality, this plan includes building global networks to foster promising technologies in the water sector, spearheading carbon neutrality in cooperation with the international community, and providing customized environmental solutions through a range of green ODA projects. These efforts have accelerated the global spread of water technologies and led to the establishment of the Korea–Malaysia International Resource Circulation Cooperation Committee, laying the groundwork for exporting waste management systems. K-eco also expanded its international organization postings from four to eight countries and is advancing grant and non-grant linked ODA projects to strengthen strategic partnerships and elevate its standing in global environmental governance.

### K-eco's Global & Convergence Promotion Plan



★  
**Two consecutive  
years of winning  
the Energy Globe  
Award**

★  
**Minister of  
Personnel Management Prize**

Honored for contributions to the expansion of  
global talent networks in the Asia-Pacific region



## Leading Carbon Neutrality as a Global Environmental Institution

K-eco plays an active role in implementing international emissions reduction projects under the United Nations Framework Convention on Climate Change (UNFCCC). In preparation for COP29, the corporation is intensifying its participation in negotiations through national submissions and statements on behalf of country groups. It is also contributing to the implementation of Article 6 of the Paris Agreement by strengthening cooperation with UNFCCC-affiliated bodies. K-eco is also helping to institutionalize international emissions reduction mechanisms and broaden the scope of partner countries through active environmental diplomacy—including engagement with the United Nations Environment Assembly (UNEA) agendas, hosting side events at international conferences, and promoting high-level bilateral dialogues. These efforts are heightening K-eco's presence in the global arena and enabling concrete contributions toward achieving worldwide carbon neutrality.

### Implementation of the 2024 Paris Agreement: International GHG Mitigation Project

Category	Achievements
COP29 Preparation	<ul style="list-style-type: none"><li>Bridged developed and developing countries on mitigation agendas</li><li>Incorporated IMO's into enhanced national targets under Article 6</li><li>Contributed to progress in negotiations and the adoption of key text on contentious issues</li></ul>
Public Outreach	<ul style="list-style-type: none"><li>Distributed newsletters to approx. 5,000 individuals (24.6%)</li><li>Engaged 136 participants on site and recorded 985 online access</li></ul>
International Network	<ul style="list-style-type: none"><li>Established a global cooperation platform for international mitigation achievements</li><li>Encouraged incorporation of the latest developments under Article 6 into mitigation projects</li><li>Reinforced ties with international organizations and promoted K-eco's initiatives</li></ul>
Roadmap	<ul style="list-style-type: none"><li>Developed an optimal model for 2050 carbon neutrality</li><li>Established an annual acquisition plan for international mitigation credits</li></ul>
Cooperating Country Support	<ul style="list-style-type: none"><li>Identified strategic partner countries with high mitigation potential</li><li>Conducted pilot programs to support preparation of national mitigation inventories</li></ul>



Discussion forum at COP29 on utilizing international carbon markets for a clean energy transition

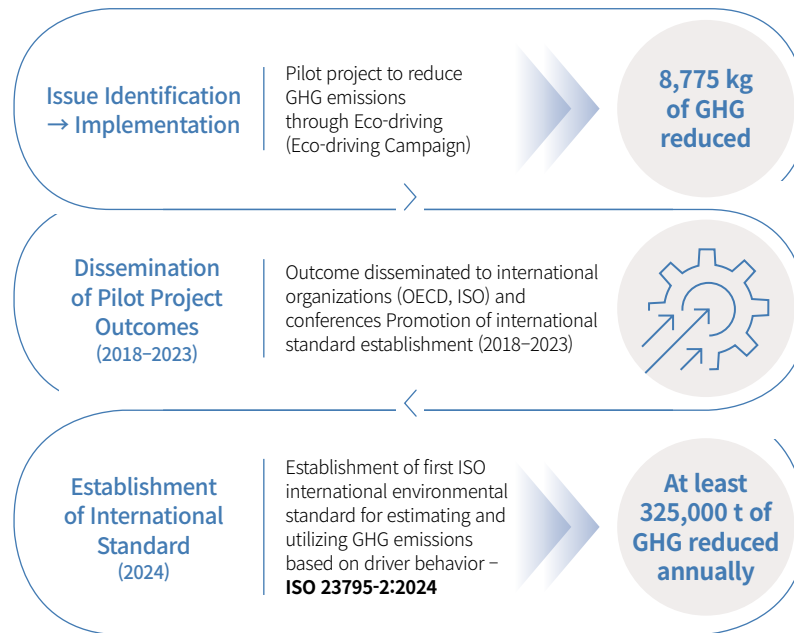
# K-eco's Heightened Global Presence

## Demonstrating Global Leadership: International Eco-Driving Standard

K-eco has elevated its global standing in the environmental sector by leading the development of the world's first international standard for eco-driving. In response to the climate crisis, the corporation launched a pilot project to reduce greenhouse gas emissions through eco-driving habits,\* sharing the outcomes with international bodies such as the OECD and ISO. After six years of continuous effort, this initiative culminated in the official adoption of ISO 23795-2:2024 in 2024. K-eco analyzed the impact of eco-driving by comparing data before and after introducing the practice to its own fleet of official vehicles. The analysis showed a reduction of at least 325,000 tons of greenhouse gas emissions annually and economic savings of KRW 2.9 billion. These achievements highlight K-eco's commitment to global environmental leadership and a sustainable future.

\* Eco-driving habits: Driving habits that minimize environmental impact, including avoiding speeding, rapid acceleration, sudden stops, idling, and the utilization of fuel cut-off systems.

### Establishment of International Environmental Standard



## Strengthening Global Communication Channels

To meet the growing demand for environmental knowledge and technology in developing countries and enhance its global stature, K-eco is diversifying its international communication channels. Key initiatives include the launch of the Green Talk platform, expansion of overseas exchanges, hosting of international events such as INC-5,\* and discovery of collaborative global environmental projects. Through enhanced policy dialogue and professional knowledge-sharing, K-eco is supporting waste management policy development in Laos and Cambodia and laying the groundwork for the global expansion of Korean environmental enterprises. It is also promoting international cooperation through the dissemination of outstanding systems and technologies. K-eco has also received international recognition by winning the Energy Globe Award in Austria for two consecutive years, based on its exemplary case study of the real-time air quality information disclosure system, “Air Korea.” These efforts collectively contribute to the corporation's sustainable management goals and the strengthening of its leadership in global environmental governance.

\* INC-5 (Intergovernmental Negotiating Committee; 5th Session): A UNEP-led intergovernmental discussion focused on establishing a global treaty to end plastic pollution

### Open Communication Platform & International Visitor Engagement System

Channels	K-eco's Role	Results									
Green Tak GreenTalk	A communication platform for developing countries - Holding information sessions and forming advisory panel - Continuing online consultation via the platform	Improvement in the quality of policy consulting for developing countries - Publication of two waste policy solution reports for Laos and Cambodia									
International Visitors	Establishing ongoing communication channels - Main areas of request: climate, air, resources - Designating personnel to promote inter-institutional exchange	Increase in delegation visits/Dissemination of Korea's advanced systems and technologies <table> <tr> <th>Category</th><th>2023</th><th>2024</th></tr> <tr> <td>Interactions</td><td>7</td><td>8</td></tr> <tr> <td>Participants</td><td>50</td><td>135</td></tr> </table>	Category	2023	2024	Interactions	7	8	Participants	50	135
Category	2023	2024									
Interactions	7	8									
Participants	50	135									
International Events INC-5	Hosting exhibition hall events and seminars - K-Plastic resource circulation exhibition - Forums and seminars linked to international organizations	Korean companies' overseas expansion anticipated - Promotion of K-eco and Korea's resource circulation policies and technologies such as EPR									
International Awards	Establishing ongoing communication channels - Categories: climate, air, resources - Designating personnel to promote inter-institutional exchange	Two consecutives wins of the Energy Globe Award - Enhancement of institutional standing through promotion of K-eco technologies and capabilities in overseas environmental markets									



Recipient of the 2024 Energy Globe Award

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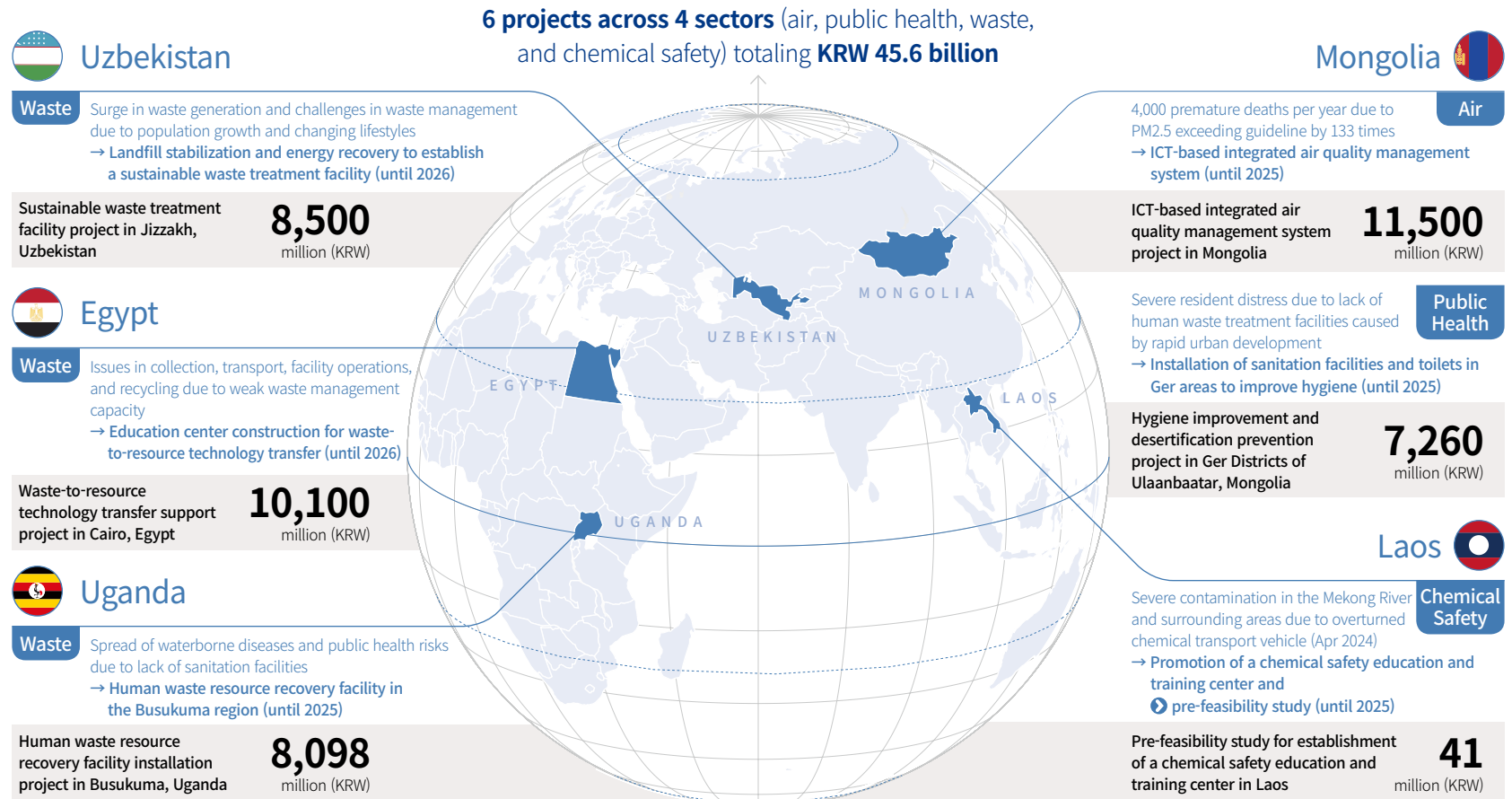
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## Tailored Environmental ODA Projects for Global Climate Crisis Response

To address the global climate crisis and reduce environmental inequality, K-eco continues to implement optimized environmental services and sustainable infrastructure projects tailored to each partner country. In Uganda and Mongolia, the corporation is undertaking projects to improve public sanitation and river water quality. In Mongolia, air pollution mitigation measures have been developed based on atmospheric data. In Uzbekistan and Egypt, support programs are underway to enhance waste management and promote a circular economy. In Laos, a new project has been identified to strengthen chemical accident prevention and response capabilities and reduce environmental pollution. K-eco will continue to develop and plan new ODA projects in diverse sectors to help solve environmental problems in developing countries and bridge the global environmental gap.

### ODA Projects Tailored to Partner Countries' Environmental Needs



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### Resource Circulation Programs Linked to International Agreements

K-eco successfully hosted committees for signing international environmental agreements by promoting Korea's outstanding environmental policies and resource circulation technologies and organizing global forums and seminars. In connection with the 5th Intergovernmental Negotiating Committee (INC-5) on the international plastic pollution agreement, a citizen participation-based resource circulation program was implemented. Exhibition and promotional booths attracted 5,697 visitors including representatives from 173 countries, 31 international organizations, NGOs, and citizens, leading to a 7.6% increase in local consumption. Through these booths, Korean-style resource circulation technologies were introduced to the international community, while support measures for developing countries were actively explored. As a result, the corporation received letters of appreciation from three institutions, including the World Bank and the Korean Ministry of Environment, significantly enhancing Korea's international standing in the resource circulation field.



INC-5 in Busan: Rethinking Plastic Life

## Global Social Contribution Activities

### Environmental Education & Digital Learning Infrastructure Support

In November 2024, K-eco carried out a social contribution project at School #33 in Tashkent, Uzbekistan, in cooperation with a Korean language education center. The initiative provided experiential environmental education and electronic tablets to approximately 300 elementary school students, promoting reduced paper use and conveying the importance of carbon neutrality. A large-screen video system was also installed in the school auditorium to support a digital learning environment. Practical programs such as eco-bag making helped raise awareness about single-use commodities and the importance of resource circulation, while encouraging environmental consciousness. In collaboration with the Korean language education center's students, the program also promoted Korean culture and fostered global communication. The corporation plans to continue these differentiated global volunteer efforts by expanding support for Korea's exemplary environmental policies and educational infrastructure to help reduce global environmental disparities.



Environmental education and educational facility improvement in Uzbekistan

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# Strengthening International Cooperation

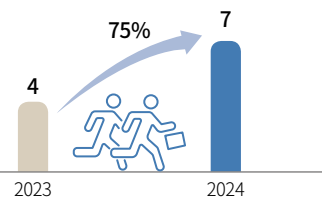
## Accelerating Global Expansion of Domestic Green Enterprises through International Cooperation Platforms

K-eco is leveraging international cooperation projects as opportunities to expand green industry businesses, thereby strengthening the foundation for exporting Korea’s exemplary environmental policies and technologies. Through partnerships with international organizations such as the World Bank and UNDP, K-eco has achieved tangible outcomes including the introduction of stack tele-monitoring system (TMS) in Bangladesh, the establishment of a foundational framework for an extended producer responsibility (EPR) system in the Philippines, and an agreement to develop a digital environmental management project in the Arab region. Actively utilizing both domestic and international cooperation platforms, the corporation has also provided green export consulting, hosted side events at INC-5, and promoted the establishment of a Korea–ASEAN circular economy model for solid waste, thus laying the groundwork for the overseas export of Korean circular economy and carbon neutrality technologies. In particular, K-eco is supporting the joint overseas expansion of domestic companies through projects such as the Korea–UNESCO Asia-Pacific regional environmental cooperation initiative and the Vietnam greenhouse gas reduction and NDC cooperation platform. These initiatives, along with strategic network enhancement, are strengthening Korea’s leadership in the global environmental market.

### International Partnerships Expanding Overseas Opportunities for Korean Companies

<b>Discussion on Expanded Cooperation on Overall Management</b> <b>WB(World Bank)</b> Environmental and Climate Governance Department Meeting (Sep 2024) 	<b>Discussion on Cooperation on Waste &amp; Digital Environment</b> <b>UNDP(United Nations Development Programme)</b> Plastic Task Force, consultation with Arab Bureau (Jul 2024) 
Joint promotion of the EPR system implementation in the <b>Philippines</b> (Apr 2024)	Agreement to develop digital environmental management projects in the <b>Arab region</b> (Dubai, Jordan, Saudi Arabia, etc., from 2025)

No. of Domestic Companies Expanding Overseas through K-eco’s International Partnerships



### Technology Cooperation via Domestic and International Platforms

Korea-UNESCO Asia-Pacific Environmental Cooperation Projects	Vietnam GHG Reduction & NDC Cooperation
<ul style="list-style-type: none"> <li>Climate change response training program completed in Kyrgyzstan</li> <li>Policy consulting completed on chemical accident response in Laos</li> <li>Project foundations established for GHG and waste initiatives in the Philippines and Fiji</li> </ul>	<ul style="list-style-type: none"> <li>Capacity-building training hosted for Vietnamese government officials in charge of international mitigation</li> <li>Program co-planned and operated with international organizations (UNU-IAS, ADB)</li> <li>Networking among K-eco, Vietnamese government, and project operator (KOSPO)</li> </ul>
<ul style="list-style-type: none"> <li>2 new projects successfully implemented / ODA approval obtained for 2 additional projects</li> <li>KRW 220 million in revenue generated for domestic environmental enterprises through project completion in 2024 / Expected to create KRW 260 million in business opportunities in 2025</li> <li>Expansion of new green ODA project in Laos totaling KRW 10 billion</li> </ul>	<ul style="list-style-type: none"> <li>Acceleration of the Vietnam industrial boiler biomass fuel substitution project (KRW 28.4 billion)</li> <li>Advanced payment of KRW 800 million in government support (December 2024) / Additional KRW 400 million to be disbursed following midterm evaluation (from 2025)</li> </ul>

### Policy Cooperation via Domestic & International Cooperation Platforms

<b>Green Export Consulting &amp; INC-5 Side Events</b> <ul style="list-style-type: none"> <li>Joint export consulting for recycled raw materials by K-eco, Korea Customs Service, and distribution centers</li> <li>International plastic negotiation exhibition and consultation booths for overseas institutions                             <ul style="list-style-type: none"> <li>FTA utilization briefing on waste origin certification, etc.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Export of KRW 64.8 billion (58,834 t) of recycled plastic raw materials to 13 countries including China (14 companies)</li> <li>Dissemination of Korean EPR model / 1:1 technical financial consultation                             <ul style="list-style-type: none"> <li>Exhibition attendees: 5,697 / Consultations: 99 (including India)</li> </ul> </li> </ul>
<b>Korea-ASEAN Circular Economy Model for Solid Waste</b> <ul style="list-style-type: none"> <li>Three-year project using Korea-ASEAN cooperation fund (KRW 9.4 billion)                             <ul style="list-style-type: none"> <li>Jointly implemented by K-eco, GGGI, NIGT, and NTU / Knowledge-sharing program to strengthen waste management capabilities (year 1)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>18 waste management projects in development                             <ul style="list-style-type: none"> <li>Collaboration with 3 participating institutions / Sharing of Korean circular economy policies, industries, and technologies</li> </ul> </li> </ul>
<b>Global Dissemination of Korea’s Circular Economy Model</b> <ul style="list-style-type: none"> <li>Convening of Korea-Malaysia international cooperation committee for resource circulation</li> <li>5 invitational training sessions for officials from developing countries including the Philippines on Korea’s circular economy                             <ul style="list-style-type: none"> <li>4 joint public-private-academic meetings to support EPR system implementation</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Dispatch of policy/technology trainees (SWCorp, 2 persons) / Joint research on resource circulation policy with UTHM                             <ul style="list-style-type: none"> <li>Cooperation to implement pilot EPR system (from 2025)</li> </ul> </li> <li>Submission of letters of intent by 5 companies for participation in developing country cooperation projects</li> </ul>

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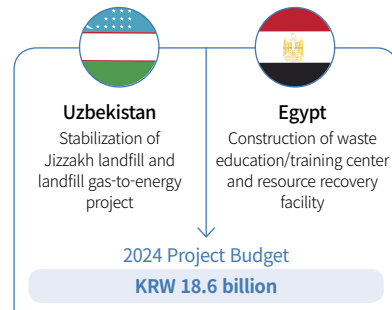
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# Strengthening International Cooperation

## Public-Private Cooperation for Overseas Expansion

K-eco has actively expanded private sector participation to enhance the effectiveness of its green ODA projects and to create global business opportunities for domestic environmental companies. In 2024, the corporation launched new green ODA projects in the waste sector—totaling KRW 18.6 billion—including the stabilization of a landfill and landfill gas-to-energy project in Jizzakh Province, Uzbekistan, and the establishment of a waste education and training center and resource recovery facilities in Egypt. These efforts extend private sector involvement beyond the existing wastewater and air quality sectors. By sharing its expertise in environmental policy support and operations, K-eco contributed to strengthening environmental capacity in partner countries, aiding in Pakistan’s water supply policy and Vietnam’s waste collection and resource recovery strategies. As a result of this public-private partnership framework, the scale of K-eco’s overseas environmental projects expanded to KRW 7 billion in 2024—an increase of 111% from the previous year—thereby significantly supporting the global diffusion of domestic environmental technologies.

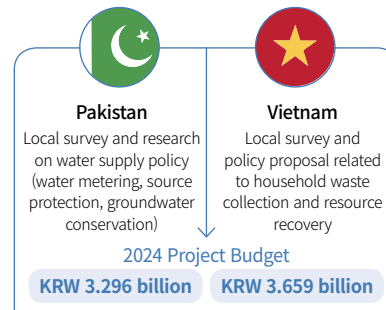
### Support as Green ODA Implementing & Executing Agency



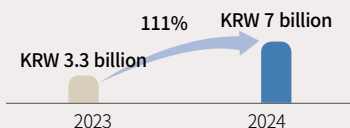
#### Revitalization of private sector entry into overseas waste sector projects

Expansion of private sector overseas entry opportunities into new sectors (waste), beyond existing green ODA projects in wastewater and air environment (3 projects)

### Overseas Expansion in the Form of Public-Private Consortium



#### Expansion of overseas project scale



## Strategic Network Expansion to Support Overseas Forays

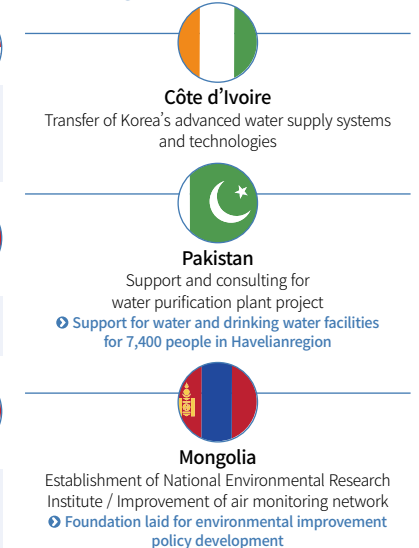
K-eco expanded its strategic network for bilateral cooperation from 56 countries in 2023 to 67 countries in 2024, reinforcing collaborative responses to global environmental challenges and providing active support to Korean environmental companies entering overseas markets. Through customized cooperation tailored to the environmental needs of partner countries, K-eco has helped lay the groundwork for exporting Korea’s advanced systems and technologies. This has led to the full-scale export of the extended producer responsibility (EPR) system to a third Southeast Asian country—following the Philippines and Vietnam—and to the transfer of the EPR system to Peru, marking its first adoption in a Latin American nation. Leveraging its world-class environmental expertise, K-eco has also conducted environmental improvement consulting for developing countries, effectively disseminating Korea’s advanced environmental policies and technologies. These initiatives have produced visible outcomes by enhancing the credibility and competitiveness of Korea’s environmental sector in global markets.

\* Extended Producer Responsibility (EPR): A policy that assigns producers responsibility for the recycling of waste generated from their products or packaging, prompting resource conservation and recycling

### Export of Korean Systems & Technologies



### Environmental Consultation for Developing Countries



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## Expansion of Global Air Quality Monitoring Infrastructure & Data Collection

K-eco is strengthening international cooperation to expand global air quality monitoring infrastructure and provide reliable air quality information. The corporation plans to establish urban air monitoring networks in seven regions of Mongolia to collect and provide real-time data on six air quality indicators. This will aid in identifying sources of air pollution and improving the precision of air quality forecasting. Additionally, K-eco is installing 20 air quality monitoring platforms across seven ASEAN countries to track pollution levels by region. The measured data will be made publicly available worldwide through the Pandora Global Network (web), facilitating global collaboration in air pollution reduction and climate change response. Looking ahead, K-eco aims to expand its ICT-based integrated air quality management system and continue contributing to global air quality improvement through the provision of trustworthy data.

### Support for Air Quality Management & Monitoring in Developing Countries

#### ICT-based integrated air quality management system in Mongolia

Installation of air monitoring stations (fixed and mobile) /  
Transfer of know-how on air information disclosure systems

#### Optimal site selection

Considering regional pollution levels and maintenance

#### Know-how transfer

Derivation of measurement targets, items, and control plans for each monitoring station

#### Capacity building

Strategic dispatch of K-eco experts / Local and invitational training programs

#### Shared Use of ASEAN Air Quality Information

Support for the installation of ground-based observation equipment to analyze air quality in the ASEAN region and identify pollutant transport pathways (using Chollian satellite)

#### Standardization of operations

Establishment of standard operating procedures for ground observation data processing

#### On-site consultations

Customized consultations on equipment operation tailored to regional characteristics

#### Capacity building

Training on equipment inspection, maintenance techniques, and methods for data utilization

## Tailored Support for Global Carbon Trade Regulations

In response to the EU's Carbon Border Adjustment Mechanism (CBAM), K-eco is offering a range of support measures to help Korean exporters enhance their readiness. Under the CBAM, importers of carbon-intensive goods such as steel into the EU are required to report emissions starting in October 2023, with the mandatory purchase of CBAM certificates for those emissions beginning in January 2026. To support businesses, K-eco launched a dedicated help desk in 2023 and expanded its support in 2024 to include consulting services, explanatory guides, hands-on training, and real-time updates on regulatory changes. These efforts have strengthened exporters' self-reliance in CBAM compliance and contributed to enhancing Korea's global export competitiveness.

### EU CBAM Response Support Plan

2023  
Establish foundation  
for support

2024–2025  
Diversify support

2026  
Expand support

#### Customized Support for Exporters

##### Help Desk

Consultations on emission calculation and the EU emission reporting template

➡ 313 companies (1,778 cases)

##### 1:1 In-Depth Consultation

On-site consultation for SMEs with no prior emission calculation experience

➡ 60 companies

##### Guidebook Production & Education

Production of 3 types of emission calculation guidebooks / Hands-on training for emission calculation and report writing

➡ Strengthening companies' in-house capacity for emission calculation

##### Provision of Latest Information

Publication of monthly CBAM newsletters (12 issues) and hosting of joint government briefings (5 sessions)

➡ Swift corporate responses

Strengthening of exporters' self-response capabilities and global export competitiveness

# Global Expansion Support for SMEs

## Circular Economy

K-eco is strengthening the foundations for waste recycling and resource circulation by proactively responding to recent legislative developments such as the advancement of the national waste management system, the enactment of the Framework Act on Promoting Transition to Circular Economy and Society, and the establishment of the Biogas Act. The corporation is expanding integrated biogas conversion and clean hydrogen projects, developing next-generation waste management systems, and transferring recycling of confiscated items to the private sector to improve efficiency in product life-cycle management. These efforts contribute to realizing a sustainable circular economy where both the public and industry participate.

## Global-Level Recycled Material Certification System

To prepare for the mandatory use of materials recycled overseas and enhance the export competitiveness of domestic companies, K-eco has established a Korean-style recycled material management system. An internal recycled material management center was newly established, introducing a labeling system for the recycled content ratio. The corporation has also strengthened cooperation systems with domestic and international companies and developed a globally aligned certification system. In collaboration with the Ministry of Environment, relevant associations, and nine domestic food and beverage companies, K-eco has implemented a pilot project for the use of clear PET bottle recycled materials, conducting safety verifications of recycled PET bottles. The corporation is also accelerating efforts to expand the use of recycled materials by promoting revisions to the Framework Act on Resource Circulation to raise the mandatory recycled content usage rate for final PET product producers (to 10% by 2025).

## Domestic and International Cooperation Systems for Introducing a Global-Level Certification System

### International

MOU signed (K-eco-ISC ) to introduce global certification system



K-eco-ISC MOU signing ceremony

### Domestic

MOU signed (K-eco-KORA-Control Union Korea) to establish a recycled material usage system



MOU-signing ceremony for the establishment of the recycled material usage system



MOU signed (Ministry of Environment-K-eco-9 F&B companies) to promote the use of recycled materials

Business agreement for the use of colorless PET bottle recycled material

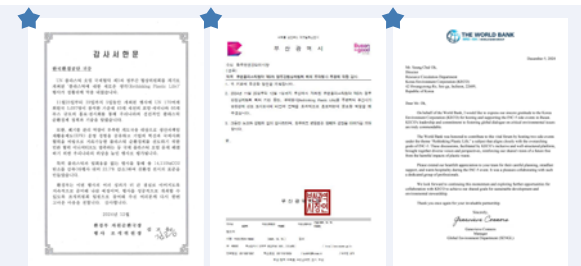
## Global Expansion of Korea's Resource Circulation Systems

K-eco is facilitating the global expansion of Korea's resource circulation policies and industries in response to evolving conditions in the international environmental market. During the fifth session of the Intergovernmental Negotiating Committee (INC-5) on the UN International Plastics Treaty, K-eco hosted a nationally led event titled Rethinking Plastic Life, promoting Korea's circular economy policies and facilitating global exchange. In collaboration with the World Bank, K-eco also organized tailored consulting programs for developing countries and established eco-friendly exhibition spaces using recycled wood and paper to showcase Korea's life-cycle-based resource circulation policies and technologies. These efforts have been complemented by strengthened support for recycling industry exports. Joint export consulting was provided by K-eco and the Korea Customs Service, enhancing the global competitiveness of 14 export firms. As a result, five companies signed letters of intent for international cooperation projects with least developed countries (LDCs), and a total of KRW 64.8 billion in recycled materials was exported by December 2024—an increase of 35.6% over the previous year.

## Export Support for the Recycling Industry

U NPlastics International Treaty	Achievements
Global Exchange	49 forums and seminars held (17 domestic, 32 international) with a total of 1,346 participants
Promotion of K-Resource Circulation Systems	99 participants (from 5 countries including India and Cameroon) in the consultation program
Eco-Friendly Exhibition	14 tons of GHG emissions reduced (22.7% lower compared to other events) / Outreach to 5,697 visitors
Support for Corporate Export Capacity	Achievements
Support for Recycling Industry Exports	KRW 300 million in retaliatory tariffs prevented for recycled material exporters / 5 invitational training sessions for developing countries with around 50 participants

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Certificate of appreciation from the Ministry of Environment

Certificate of appreciation from Busan Metropolitan City

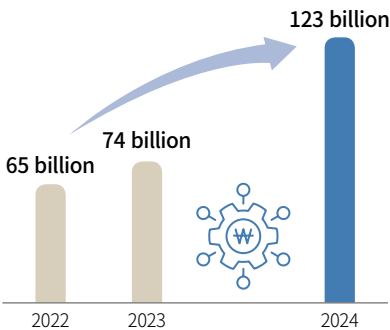
Certificate of appreciation from the World Bank

# Global Expansion Support for SMEs

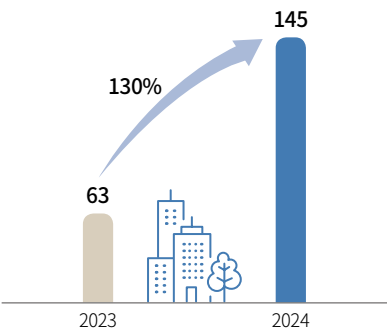
## Fostering Water Companies & Promoting the Water Industry

To enhance the competitiveness of the water industry, K-eco increased its budget for support programs including technology development by 66% in 2024 to KRW 12.3 billion, with a strategic focus on boosting domestic production of core materials, parts, and equipment. The corporation also allocated KRW 1.2 billion toward improving water technology performance based on demonstration facilities, and KRW 2.55 billion to support global expansion. These efforts led to a 130% increase in the number of supported companies, a 27% rise in revenues, and a 21% growth in the development of promising future technologies—thereby laying a sustainable foundation for the growth of water industry enterprises.

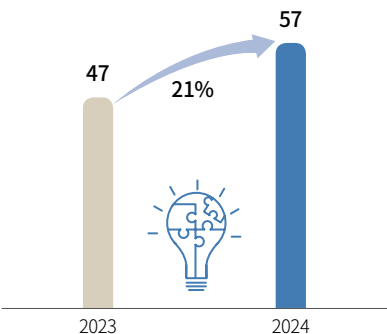
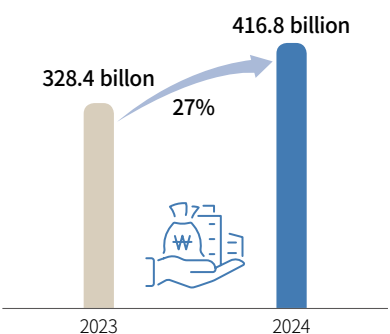
Support Budget (KRW)



No. of Supported Companies



Revenue of Supported Companies (KRW) No. of Promising Technologies Developed

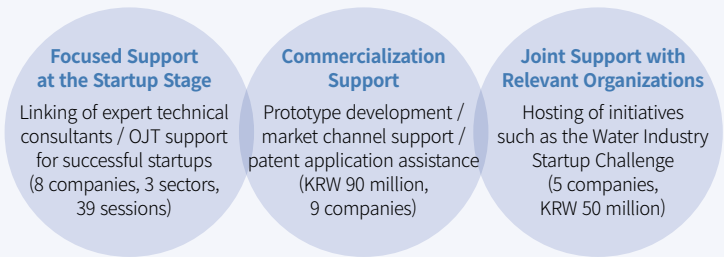


## Customized Support for Successful Startups

K-eco operates a full-cycle, customized support program to nurture successful environmental startups from early-stage establishment to commercialization. In 2023, the corporation expanded early-stage funding (KRW 100 million) and commercialization support based on demonstration infrastructure to both resident and nationwide startup companies. In 2024, the scope of support was further broadened through collaboration with relevant organizations. The startup Aquaworks Inc., a flagship success case, established a manufacturing plant and entered international markets within four years of founding. Employment among supported startups increased by 8% year-on-year to 26 individuals, and four companies that received continuous support for two consecutive years achieved a combined revenue of KRW 1.9 billion—up 7% from the previous year.

## Startup Support Programs & Success Cases

### Programs for Fostering Successful Startups



Category	2021-2023	2024
Aquaworks Inc. (Startup Company)	<ul style="list-style-type: none"> <li>Filing of 3 patents / Attraction of KRW 1 billion in investment</li> <li>Commercialization / Establishment of manufacturing facility (217% ↑ in employment, 863% ↑ in sales)</li> </ul>	<ul style="list-style-type: none"> <li>Growth into an SME (16employees, KRW 2.4billion in sales)</li> <li>Export to Vietnam (KRW 92million)/ Expansion into Indonesia</li> <li>Receiving of presidential commendation for venture startups (Dec 2024)</li> </ul>
Korea Water Cluster Management Group	<ul style="list-style-type: none"> <li>IR consulting and introductions to investors</li> <li>Demonstration, lab, and training support</li> </ul>	<ul style="list-style-type: none"> <li>Project lab support on R&amp;D projects (KRW 240 million)</li> <li>Technical support (6 sessions)/ Budgetary support (distribution costs, KRW 20 million)</li> </ul>

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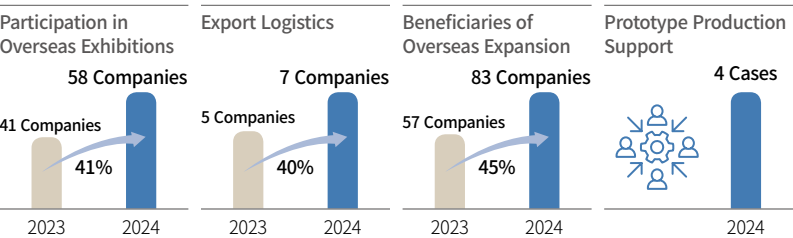
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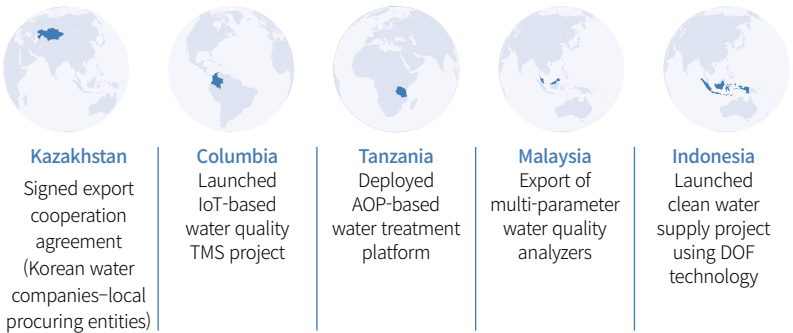
## Sustainable Globalization of the Water Industry

To support the overseas expansion of small and medium-sized water enterprises, K-eco has established a multifaceted global business support system. This includes dispatching export missions to emerging markets, expanding its global network to 28 countries, and strengthening tailored support to resolve the three major export challenges—marketing, logistics, and overseas certifications. Additionally, the corporation identified new projects through ODA initiatives and implemented pilot public-private partnership (PPP) programs for overseas entry. As a result, the number of companies benefiting from overseas expansion support rose 45% year-on-year to 5,783. Twelve SMEs successfully entered 27 countries—including Colombia—achieving a combined export value of KRW 34.5 billion. K-eco continues to drive the global expansion of the water industry through tailored support at every stage of internationalization.

### Customized Support for 3 Major Challenges Face by SME Exporters



### Overseas Achievements by Supported SMEs



## Pioneering Overseas Markets for K-Water Products & Technologies

K-eco is accelerating the overseas market entry of promising products and technologies in the water industry by providing concentrated commercialization support. To localize components, materials, and equipment traditionally dependent on advanced economies, the corporation funded 23 technology development projects with KRW 6.55 billion and carried out 17 expert-matched technical consultations. Additional support included customized assistance (KRW 140 million across eight companies) for companies facing the “R&D death valley,” and the operation of four industry-academia-research consortia. At the demonstration stage, 40% of R&D investment was directed toward performance verification and the installation of overseas pilot plants for export-ready technologies (KRW 600 million across four companies), as well as local technology testing in three countries, including the United States. These initiatives yielded 56 patents, 10 domestic certifications, and 2 overseas certifications, resulting in KRW 128.2 billion in domestic sales and KRW 10.1 billion in exports.

### Development of Promising Water Products & Technology

#### Water Technology Development Support

- 56 patents filed and registered
- 10 domestic certifications acquired (including CS, GS)
- KRW 282.386 billion in domestic sales
- KRW 6.147 billion in export to Vietnam and other countries

#### Support for Domestic Demonstration of Water Technologies

- Designated as government innovation products (2 items, e.g., by PPS)
- 2 overseas certifications acquired (e.g., CE)
- KRW 128.282 billion in domestic sales
- KRW 3.949 billion in export to Oman and other countries

#### Presidential Commendation

2024 Venture Startup Promotion

# Global Expansion Support for SMEs

## Supporting Participation in Overseas Water Market Exhibitions

K-eco is diversifying international marketing channels to promote exports to target countries. The corporation has expanded business opportunities by supporting participation in domestic and international export consultations, setting up booths at major overseas exhibitions in promising water markets, and covering interpretation costs. These efforts led to 879 consultation meetings and generated an estimated USD 367 million in potential business. Furthermore, K-eco reinforced strategic cooperation through activities such as hosting a seminar in Kazakhstan, signing a PPP agreement in Malaysia, and concluding MOUs with key procurement entities. Follow-up marketing efforts (re-targeting) following exhibitions contributed to an additional KRW 476 billion in export outcomes.

### Post-Exhibition Marketing (Re-Targeting)



#### 2024 Vietnam ENTECH Export Consultation

- Additional buyer matching (160 companies) in collaboration with KOTRA and ENTECH Asia
- Site visits to local corporations including Vietnam's DNP Water and Samsung E&A / Introduction of tenant companies' technologies (7 companies)



2024 Vietnam ENTECH

#### 2024 KIWW Cooperation Meeting

- 13 procurement entities from Colombia, India, government ministries, and private companies (15 delegates) invited for cooperation meetings
- MOUs signed between K-eco and partners in Kazakhstan and Vietnam
- 1:1 business consultations between 10 overseas buyers and 11 Korean water companies



2024 KIWW cooperation meeting

## Expanding Overseas Beneficiaries through Global Business Support

K-eco has established a systematic, phased global business support system that spans the full export lifecycle. In the preparatory stage, the corporation dispatches export missions, formulates regional strategies, and expands its networks. In the entry stage, support focuses on marketing, logistics, and international certifications. During the expansion stage, it promotes new project discovery and pilot initiatives, while in the post-entry stage, it strengthens the re-targeting strategy to maximize export outcomes. As a result, the number of companies benefiting from overseas expansion support grew 45% year-on-year to 83, and total export performance reached KRW 47.6 billion through expanded networks and follow-up marketing initiatives.

### Phased Global Business Support

Stage	Support System	Support Details
Preparatory	Emerging Market Trade Missions	5 export cooperation agreements signed (10 companies), 20% ↑ over 2023
	Regional Expansion Strategies	Eastern Europe Expansion Strategies
		2021 Emerging Market (Russia)
		2022 Bull Market (Middle East)
Entry	Expansion of Global Network	2023 Developed Market (North America, Western Europe)
		• International conferences with delegates from Colombia and India and international scholars
		• MOU with Ethiopian water industry / Cooperation meetings with Vietnam and Kazakhstan / Network expansion to 28 countries (22% ↑ over 2023)
	Marketing	• Participation support in 6 overseas exhibitions (41 → 58 companies, 41% ↑) / USD 4.15 million contract for a dewatering equipment company
Expansion	Export Logistics	• Export logistics support for the U.S. and other regions (4 → 7 companies, 75% ↑) / KRW 2.6 billion in exports to 16 countries
	Overseas Certification	• Support for consulting and prototype production costs (0 → 4 cases, 400% ↑) / Acquisition of 2 overseas certifications including CE
	Discovery & Planning of New Projects	• (Colombia) Entry into IoT-based water quality TMS project • (Company E) KOICA ODA project worth KRW 500 million (Medellín River) • (Tanzania) Entry into water treatment AOP platform support project • (Company C) Water security enhancement project worth KRW 14 billion
	Pilot Projects for Overseas Expansion	• (Malaysia) Entry into sales of multi-parameter water quality analyzers (6 years / KRW 740 million) • (Indonesia) Entry into DOF-based clean water supply project (10 years / KRW 7.6 billion)
Post-Entry	Enhanced Re-Targeting	• Hosting of cooperation meetings and export consultation sessions (175 participants) • Export growth / Localization of operations in overseas markets

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## NSF Certification Pre-Compliance Analysis & Cooperation

K-eco is supporting the overseas expansion of Korean water companies in response to global issues such as the strengthened EPA\* regulations on PFAs\*\* and shifting technological trends. The corporation provides pre-compliance analyses for NSF\*\*\* 61 certification—the highest international standards for water-related products—for three products across 63 criteria and has signed an MOU in October 2024 for joint PFAs testing to address growing testing demands in Asia. In cadence with the growing convergence of water-related technologies, K-eco has broadened its KOLAS accreditation scope to cover 570 test items across five fields, including 153 items in the metal sector. This expansion enabled mutual recognition with 109 international accreditation bodies, significantly lowering NSF certification barriers as well as the cost and time required for domestic companies to enter global markets. Additionally, K-eco has enhanced its equipment and analytical capabilities to meet rising demand for PFAs leaching tests, thereby actively supporting corporate product development.

※ Test reports now indicate results as outcomes of collaborative testing, a change from NSF's previous policy of only recognizing results from its own labs.

\* The EPA (United States Environmental Protection Agency) introduced new regulations in November 2024 to strengthen drinking water standards for PFAS (per- and polyfluoroalkyl substances), with the first announcement of the regulations made in April 2025.

\*\* PFAS (Per- and polyfluoroalkyl substances): A group of chemical substances that are highly resistant to degradation by water, oil, and dust, and persist in the environment. When accumulated in the human body, PFAS can cause various health risks.

\*\*\* NSF (National Sanitation Foundation): A non-profit, non-governmental organization in the United States that develops standards and provides testing, certification, and education in areas including drinking water, food, indoor air, consumer products, and environmental safety

### NSF Mark

The most authoritative water-related mark issued by NSF



K-eco-NSF business agreement signing ceremony

## Decentralized Demonstration Facilities for Innovative Technology Verification

To help commercialize technologies developed within the Korea Water Cluster, K-eco is focusing on securing operational performance data through large-scale demonstration platforms. By 2022, collaboration systems with local governments were established, followed by support for the creation of decentralized demonstration facilities through 2023. In 2024, an institutional framework were established to link these local demonstration facilities with the national cluster, and precedent cases of joint demonstration were secured. These efforts have laid the foundation for technological expansion in municipal water management facilities, enhancing the field applicability and effectiveness of various innovative technologies.

### Institutional Framework

#### Regulations

- Local governments' operation of decentralized facilities (3 locations) under the Water Industry Promotion Act
- Regulations linking the Water Industry Cluster to local demonstration facilities (Oct 2024)
- Preferential application, exemption from selection and evaluation processes, and fee reductions for cluster-developed technologies

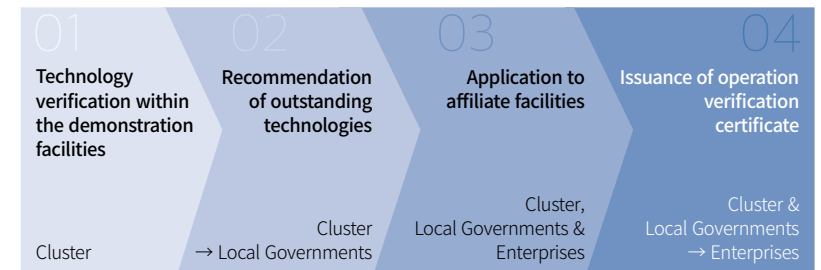
#### Application

- Application of a high-efficiency dewatering system developed at the cluster to decentralized facilities Result: over 20-fold increase in operational data collection

#### Achievements

**Precedents set for linkage between demonstration facilities/ Grounds set for expanded application to municipal water management infrastructures**

### Technology Demonstration within the Korea Water Cluster



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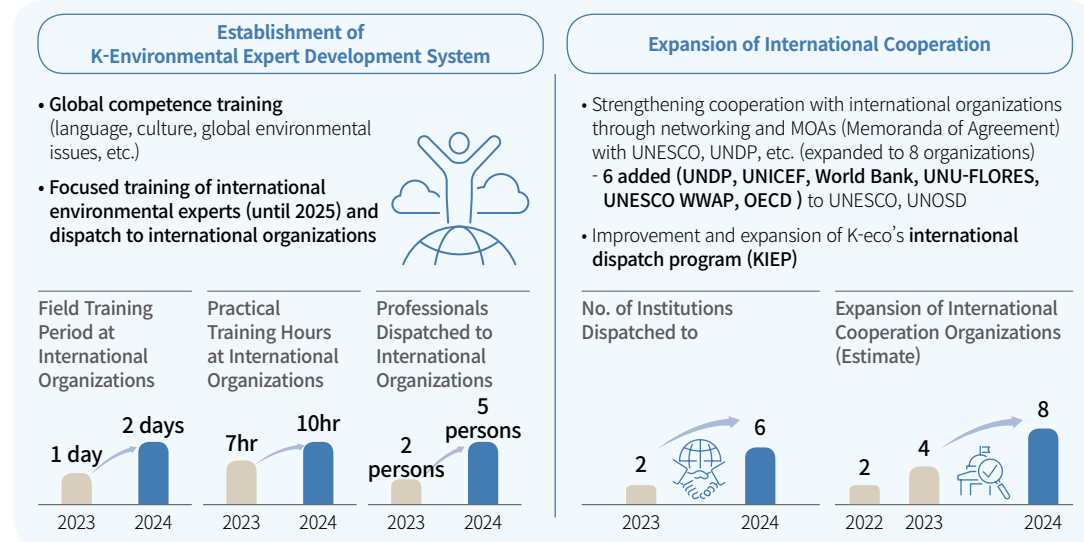
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# The K-Environmental Expert Training System

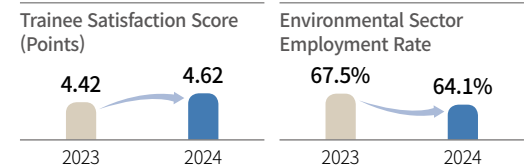
## Advancing Global Environmental Cooperation through Expert Development

In response to the rapidly changing global environmental landscape, K-eco is strengthening international environmental cooperation by establishing the “K-Environmental Expert Training System” to promote sustainable development and elevate the global standing of Korea’s environmental policies and industry. Moving away from a dispatch system based solely on employee interest, K-eco has adopted a strategic approach through the K-eco International Environmental Professional (KIEP) program, which systematically nurtures environmental professionals and deploys them according to specific needs. To realize its mid-to-long-term management goal of “institutional innovation through globalization,” K-eco has developed a roadmap for 2025–2029 and is fostering global environmental talent through the Gloabl Environmental Leader’s Academy newly established in 2025. As a result of these efforts, the number of partner international organizations receiving dispatched experts has increased from four in 2023 to eight, with a total of five professionals dispatched. K-eco has also enhanced its program by revamping the full process of the management system to incorporate feedback from program graduates and dispatched interns, thereby increasing the effectiveness of its outcomes. In 2024, the comprehensive education performance index rose by 2.8% from the previous year to 94.1, and the employment rate in the environmental sector increased by 17.4%, solidifying the foundation for sustainable environmental value creation.

### Roadmap for Fostering K-Environmental Experts



### Global Environmental Leaders Program (GELP)\*



\* A government-funded training program hosted by the Ministry of Environment and operated by K-eco to foster future global environmental experts and leaders

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Global Social Contribution Activities

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# ESG Data Book

## Financial Performance

### Financial Information

Category		Unit	2022	2023	2024
Summary of Financial Statements (K-IFRS)					
Assets	Current Assets		112,340	123,074	138,047
	Fixed Assets	KRW million	55,257	53,068	55,117
	Total Assets		167,597	176,142	193,164
Liabilities	Current Liabilities		151,574	146,201	82,508
	Fixed Liabilities	KRW million	23,119	20,096	15,234
	Total Liabilities		174,693	166,297	97,742
Equity	Owner's Equity		78,719	78,719	78,719
	Retained Earnings (Accumulated Deficit)	KRW million	△85,814	△68,875	16,703
	Total Stockholder's Equity		△7,095	9,844	95,422
	Debt Ratio	%	Not Applicable	1,689	102
Summary of Profit & Loss Statement (K-IFRS)					
Income (Sales)			1,612,598	1,973,078	1,833,216
Net Sales			1,612,598	1,973,078	1,833,216
Cost of Sales			1,587,972	1,941,606	1,804,514
Selling & General Administrative Costs			16,337	18,726	21,531
Operating Profit			8,289	12,746	7,171
Other Income			21,814	1,289	105,652
Other Expenses			28,836	38,678	48,266
Other Profits		KRW million	1,001	79	174
Financial Return			30,627	46,629	45,024
Financial Costs			1,577	2,853	2,126
Net Profit Before Income Taxes			31,318	19,212	107,629
Corporate Tax			△17,171	△5,192	12,933
Net Profit			48,489	24,404	94,696
Other Comprehensive Income			22,895	△7,465	△9,118
Total Comprehensive Income			71,384	16,939	85,578
Net Profit Margin		%	3.01	1.24	5.17
Return on Equity		%	△22,729	20,043	1,921

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## Environmental Performance

Category		Unit	2022	2023	2024
GHG Management			※ Scope 3 excluded from total emissions data calculations		
GHG Emissions	Total GHG Emissions (Scope 1+Scope 2)		13,795	13,719	13,207
	Scope 1 Emissions	tCO <sub>2</sub> eq	2,256	2,008	1,863
	Scope 2 Emissions		11,539	11,711	11,344
	Scope 3 Emissions		492	954	
	Waste-related GHG Emissions	tCO <sub>2</sub> eq	127	135	Under calculation
	Upstream Transportation & Distribution		-	63	
	Employee Commute		-	147	
	Business Travels		365	609	
	GHG Emissions Intensity	tCO <sub>2</sub> eq/KRW 100 million	0.855	0.695	
Energy Management					
Energy Consumption	Total Energy Consumption		277.8	275.5	267.8
	Electricity Consumption		241.1	244.7	237.1
	City Gas (LNG)		14.6	13.6	12.8
	CNG(Vehicle)	TJ	0.1	0.1	0.0
	LPG(Vehicle)		0.2	0.2	2.9
	Gasoline		11.5	10.1	9.2
	Diesel		10.3	6.7	5.9
	Energy Intensity	TJ/KRW 100 million	0.01722	0.01396	0.01461
Renewable Energy	Renewable Energy Usage	kWh	625,880	586,166	691,830
	Renewable Energy Usage Ratio	%	8.2	7.4	8.5
Water Consumption			※ Based on Head Office data		
Water Consumption	Water Consumption	ton	59,745	67,418	71,949
	Base Unit Consumption	ton/KRW 100 million	3.70489	3.41689	3.92474

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Category		Unit	2022	2023	2024
Waste Generation ※ Based on Head Office data; waste generation and disposal volumes are identical					
Waste Discharge	Total Waste Generated	ton	362.73	357.83	74.3
	Base Unit Generation	ton/KRW 100 million	0.02	0.02	0.00
Recycling Volume	Electrical & Electronic Product Recovery Performance	kg	122,190,599	143,962,342	158,409,126
	Electrical & Electronic Product Recycling Volume	kg/capita	8.362	8.969	9.552
	EPR Packaging Materials Recycling Volume	1,000 ton	1,439	1,523	1,741
Emissions	Nitrogen Oxides (NO <sub>x</sub> )	ton	166,346	148,547	131,121
	Sulfur Oxides (SO <sub>x</sub> )	ton	65,665	61,118	59,307
Low-Emission Vehicle Inventory					
Low-Emission Vehicle Status	(Type 1) Electric/Hydrogen	units	239	238	231
	(Type 2) Hybrid		32	3	15
	(Type 3) LPG & Gasoline Vehicles Meeting Low-Emission Standards		-	-	-
	Total		271	241	246
Low-Emission Vehicle Purchase/Lease Status	(Type 1) Electric/Hydrogen	units	70	85	84
	(Type 2) Hybrid		-	-	12
	(Type 3) LPG & Gasoline Vehicles Meeting Low-Emission Standards		-	-	-
	Total		70	85	96
Proportion of Eco-Friendly (Zero-Emission) Vehicles		%	159.9	155.5	132.5
Compliance with Mandatory Purchase Ratio		Achieved/Not Achieved	Achieved	Achieved	Achieved
Green Product Purchase Performance					
Green Product Purchase Plan		KRW million	23,610	24,661	28,051
Green Product Purchase Amount			30,906	26,980	28,917
Green Product Purchasing Ratio		%	131	109	103
Compliance with Environmental Regulations					
No. of Sanctions for Environmental Law Violations		cases	0	0	1
Monetary Sanctions for Environmental Law Violations		KRW million	-	-	-
Non-Monetary Sanctions		cases	0	0	0

# ESG Data Book

## Social Performance

### Employee Status

Category	Based on Headcount	Unit	2022	2023	2024
Employee Status (Employment Type)					
Total No. of Employees (A+B+C+D)		persons	3,182	3,434	3,372
Executive Officers (A)	Total		7	7	7
	Male	persons	7	7	7
	Female		0	0	0
No. of Regular Employees	Regular Full-Time (B)		2,598	2,562	2,586
	Male	persons	1,762	1,723	1,699
	Female		836	839	887
	Indefinite Contract (C)		577	524	466
	Male	persons	312	284	255
No. of Non-Regular Employees	Female		265	240	211
	Fixed Term Workers (D)		307	341	313
	Male	persons	133	159	154
	Female		174	182	159
	Professional Staff		40	53	47
Professional Staff (Separate Quota)	Male	persons	39	51	47
	Female		1	2	0
	Professional Staff		44	32	50
	Male	persons	44	32	49
	Female		0	0	1
Proportion of Regular Employees		%	89.04	87.87	88.16
Employee Status (Diversity)					
Employee Diversity	Male	persons	2,080	2,014	1,961
	Female		1,101	1,079	1,098

Category	Based on Headcount	Unit	2022	2023	2024
Employee Diversity	Proportion of Women among All Employees	%	34.6	31.4	32.6
	National Merit Recipients	persons	151	148	144
	Persons with Disabilities	persons	163	161	172
Age Group	Under 30		789	663	598
	30 to Under 50	persons	2,013	2,067	2,306
	50 and Above		696	716	768
Employee Status (Position)*					
Grade 1	Total		40	39	36
	Male	persons	40	38	34
	Female		0	1	2
Grade 2	Total		160	155	147
	Male	persons	153	147	138
	Female		7	8	9
Grade 3	Total		397	391	396
	Male	persons	345	335	332
	Female		52	56	64
Grade 4	Total		587	586	582
	Male	persons	431	425	421
	Female		156	161	161
Grade 5	Total		777	794	902
	Male	persons	434	447	476
	Female		343	347	426

\* Figures exclude professional staff (separate headcount allocation) and may differ from the total number of employees.

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Category	Based on Headcount	Unit	2022	2023	2024
Grade 6	Total		451	419	325
	Male	persons	212	188	141
	Female		239	231	184
Grade 7	Total		44	48	46
	Male	persons	28	30	28
	Female		16	18	18
Grade 8	Total		63	52	56
	Male	persons	36	30	33
	Female		27	22	23
Civil Service (Indefinite Contract)	Total		581	529	466
	Male	persons	312	285	255
	Female		269	244	211
Salary Status for Men & Women			※ Based on regular employee data		
Average Salary per Employee	Male	KRW	65,753	67,602	69,430
	Female	1,000	49,404	51,351	53,799
Average Salary Ratio for Women Compared to Men		%	75.1	76.0	77.5
Average Tenure of All Employees					
Average Tenure of All Employees			11	12	12
Average Tenure of Male Employees		months	13	14	14
Average Tenure of Female Employees			7.0	7.9	8.5
Employment of Persons with Disabilities					
No. of Employees with Disabilities		persons	269	161	171
Mandatory Employment Quota			134	130	134
Employment Rate (Mandatory Quota: 3.8%)		%	4.6	4.5	4.8
Compliance with Mandatory Employment Quota		Compliant/ Non- Compliant	Compliant	Compliant	Compliant

## Hiring & Turnover Status

Category	Based on Headcount	Unit	2022	2023	2024
New Hires					
Total New Hires (D+E+F)		persons	266	102	178
New Executive Hires (D)		persons	2	1	2
New Regular (Regular Full-Time) Employee Hires (E)		persons	185	94	164
New Hires by Gender	Male	persons	104	53	82
	Female		81	41	82
Socially Equitable Hires	Youth	persons	151	81	158
	Female		81	41	82
	Persons with Disabilities		24	5	9
	Non-Metropolitan Area Talent		115	65	96
	High School Graduates		22	23	19
	New Regular (Indefinite Contract) Hires		79	7	12
New Regular (Indefinite Contract) Hires		persons	79	7	12
Youth/Intern Recruitment					
Total Interns Hired	Experiential Internship	persons	147	115	157
	Recruitment-Track Internship		0	0	0
Female	Experiential Internship	persons	71	55	83
	Recruitment-Track Internship		0	0	0
Persons with Disabilities	Experiential Internship	persons	69	75	63
	Recruitment-Track Internship		0	0	0
Turnover					
No. of Employee Turnover by Gender	Total	persons	217	145	145
	Male		164	102	86
	Female		53	43	59



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Category	Based on Headcount	Unit	2022	2023	2024
No. of Employee Turnover by Age Group	Under 30	persons	52	30	44
	30 to Under 50		76	49	61
	50 and Above		89	66	40
No. of Retirees	Mandatory Retirement	persons	53	45	21
	Honorary Retirement		10	14	5
Turnover Rate	Turnover Rate (Resignation Rate)	%	7	4.6	4.7
	Male Turnover Rate		7.8	4.9	4.3
	Female Turnover Rate		5.2	3.9	5.5

## Work-Life Balance Support Status

Category	Based on Headcount	Unit	2022	2023	2024
No. of Parental/Maternity Leave Users					
No. of Parental Leave Users	Total	persons	229	225	259
	Male		83	71	89
	Female		146	154	170
Male Parental Leave Rate		%	36.2	31.6	34.4
Female Parental Leave Rate		%	63.8	68.4	65.6
No. of Parental Leave Users Eligible to Return	Total	persons	104	101	121
	Male		47	41	51
	Female		57	60	70
No. of Returnees from Parental Leave	Total	persons	102	96	119
	Male		46	40	50
	Female		56	56	69
No. of Returnees with Over 1 Year of Continued Service	Total	persons	98	93	113
	Male		44	39	48
	Female		54	54	65

Category	Based on Headcount	Unit	2022	2023	2024
Parental Leave Return Rate			98.1	92.0	98.3
Retention Rate 1 Year After Return from Paternal Leave			%96.1	96.9	95
No. of Maternity Leave Users			persons49	67	51
No. of Paternity Leave Users			persons59	66	64
No. of Reduced Work Hours Users (Pregnancy/Childcare)					
Reduced Work Hours During Pregnancy			57	69	59
Reduced Work Hours During Childcare			persons4	6	7
No. of Parental Leave Users				0	0
Total No. of Reduced Work Hours Users			61	75	66
Flexible Work Systems					
Part-Time Work	Recruitment-Track	persons	1	0	2
	Converted		56	70	66
Flexible Work Hours	Staggered Start/End	persons	526	486	486
	Selective Hours		73	95	103
	Compressed Workweek		0	0	0
Discretionary Work Hours	Discretionary Work Hours	persons	0	0	0
Remote Work	Home-Based	persons	2207	82	188
	Smart Work Center-Based		103	137	122
No. of Family Care Leave & Extended Leave Users					
Family Care Leave	Total	persons	535	675	714
	Male		296	396	433
	Female		239	279	281
Family Care Extended	Total	persons	7	3	7
	Male		3	1	5
	Female		1	2	2
Family-Friendly Certification Status					
Family-Friendly Certification		Certified/ Not Certified	Certified	Certified	Certified

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## Education Status

Category	Unit	2022	2023	2024
Employee Education Performance				
Total No. of Participants	persons	102,547	98,339	105,619
Total Education Time	hours	305,537	334,599	371,767
Average Education Time per Person	hour/person	86	98	110
Total Education Budget	KRW 1,000	2,191,388	2,810,082	2,907,660
Education Training Cost per Person	KRW 1,000/person	451.14	523.04	627.87
Labor Union Membership Status				
No. of Eligible Employees	persons	3,031	2,960	2,938
No. of Union Members (Covered by Collective Agreement)	persons	2,967	2,928	2,912
Union Membership Rate (Covered by Collective Agreement)	%	97.9	98.9	99.1

## Occupational Health & Safety Management Status

Category		Unit	2022	2023	2024
Occupational Health & Safety					
Occupational Health & Safety Training	No. of Trainees	persons	3,319	3,469	3,385
	Training Time per Person	hour	18	18	18
Industrial Accidents					
No. of Fatalities	Subtotal		0	1	0
	Direct Employees	persons	0	0	0
	Subcontracted Employees		0	0	0
No. of Fatalities	Construction Orders	persons	0	1	0

\* Average calculated due to differing training hours by role (12 hours for office staff and 24 hours for non-office staff)

Category	Unit	2022	2023	2024
Safety Accident No. of Fatalities	persons	0	0	0
Industrial Accident Rate (Excluding Commuting & Off-Site Traffic Accidents)	%	0.13	0.11	0.05
Safety Management				
Safety Activity Evaluation	grade	B	B	A
Safety Management Grade for Public Institution (Ministry of Employment & Labor)	grade	3	3	2
Safety Management Level Evaluation (Ministry of Land, Infrastructure and Transport)	score	83	95	96

## Information Security Status

Category	Unit	2022	2023	2024
Information Security				
Information Security Management Evaluation (National Intelligence Service)	score	84.48	91.99	87.26
Personal Information Protection				
Personal Information Protection Level Assessment	grade	A	S	A

## Customer Satisfaction Status

Category	Unit	2022	2023	2024
Customer Satisfaction Response System				
No. of Civil Complaints Handled	cases	1718	1,834	1,606
On-Time Complaint Resolution Rate	%	99.88	99.78	98.82
Customer Satisfaction Survey Result				
Public Consumer Satisfaction Index (PCSI)	grade	Average	Average	Excellent

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## Social Contribution Status

	Category	Unit	2022	2023	2024
Volunteer Activities	Total No. of Participants	persons	2,785	2,946	3,206
	Total Hours of Participation	hours	16,036	16,638	20,531
	Average Volunteer Hours per Person	hour/person	4	4	6
Employee Participation Rate		%	100	100	100
Donation	No. of Donation Activities	cases	68	60	75
	Total Donation Amount	KRW million	156	148	120

## Shared Growth & Technical Support Status

	Category	Unit	2022	2023	2024
Shared Growth					
Innovative Procurement	Procurement Amount	KRW million	5,821	13,162	7,645
	Proportion	%	3.0	6.4	N.A.*
	Total Purchase Amount	KRW million	195,708	206,736	N.A.
Purchases from SMEs	Purchase Amount	KRW million	876,754	859,314	718,680
	Proportion	%	76.7	75.8	71.2
	Total Purchase Amount	KRW million	1,142,409	1,133,137	1,008,924
	Mandatory Purchase Ratio Achievement	Achieved/Not Achieved	Achieved	Achieved	Achieved

	Category	Unit	2022	2023	2024
Purchases from Social Enterprises	Purchase Amount	KRW million	15,406	22,153	16,174
	Proportion	%	3.23	4.25	3.45
	Total Purchase Amount	KRW million	477,032	520,664	468,228
Purchases of Severely Disabled Persons' Products	Purchase Amount	KRW million	9,131	11,065	12,529
	Proportion	%	1.9	2.1	2.7
	Total Purchase Amount <sup>1)</sup>	KRW million	477,032	520,664	468,228
Shared Growth Evaluation (Ministry of SMEs & Startups)		Rating	Satisfactory	Excellent	Outstanding
Win-Win Cooperation Payment Amount		KRW million	2,944	18,229	N.A.
SME Technology Cooperation					
Performance Sharing System	Registered		13	18	36
	Complete		8	11	10
Cooperative Profit Sharing System	Registered		6	11	0
	Complete	cases	0	2	6
Joint Technology Development	Registered		4	5	5
	Complete		5	1	2
Technology Cooperation with SMEs			36	48	15

\* N.A.: Not Available

1) Products made by persons with severe disabilities are purchased within the spending range for social enterprises

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## Governance Performance

Category		Unit	2022	2023	2024
Board of Directors Status					
Board Operation	Total No. of Members		13	13	14
	No. of Male Members	persons	11	12	13
	No. of Female Members		2	1	1
	No. of Board Meetings Held	sessions	14	17	15
	No. of Agenda Items		27	29	34
	Resolution Items	items	24	26	29
	Reporting Items		3	3	5
Board Attendance Rate	Board Attendance Rate		81.1	80.8	78.4
	Executive Directors	%	91.5	92	87.8
	Non-Executive Directors		95.7	95.3	94.1
Total Board Remunerations (Average per Person)	Non-Executive Directors	KRW million	22,500	21,400	20,400
	Executive Directors	KRW million	171,251	173,764	120,687
Ethical Management Education					
Ethics Education	Total No. of Participants	persons	4,016	3,927	3391
	Total Education Time	hour	62,594	92,723	50,062
	Education Time per Person	hour/person	16	24	15
Disciplinary Actions for Ethics Code Violation					
Disciplinary Actions	Reprimand		-	2	2
	Salary Reduction	cases	4	4	6
	Suspension		1	5	6

Category		Unit	2022	2023	2024
Disciplinary Actions	Demotion		-	-	1
	Dismissal	cases	-	-	1
	Removal from Office		-	-	1
	Total		5	11	17
Integrity Index					
Overall Integrity Index			2	4	3
	Perceived Integrity	grade	2	4	2
	Integrity Effort		3	3	3
ESG Management Performance					
No. of ESG Meetings Held	Integrity and Internal Control Committee			2	3
	Future Innovation Council		-	(Newly Established) 2	2
	- ESG Committee	sessions	7	6	4
	- Digital Transformation Committee		8	6	4
	- Global Committee		-	-	(Newly Established) 4

※ In 2025, the names, compositions, and operational structures of the ESG management committees were comprehensively revised and reestablished as the “Integrity and Internal Control Committee” and the “Future Innovation Council.”

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# GRI Index

Statement of Use	K-eco has published its sustainability report in accordance with the GRI Standards, covering the period from January 1 to December 31, 2024 (based on quantitative performance).
GRI 1 used	GRI 1: Foundation 2021
Applicable GRI Sector Standards	As of July 2025, when this report was published, no applicable GRI Sector Standards were applicable to K-eco.

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Topic	No.	GRI Disclosure	Page No.
GRI 2: The Organization & Its Reporting Practices	2-1	Organization details	7-8
	2-2	Entities included in the organization’s sustainability reporting	7
	2-3	Reporting period, frequency, and contact point	2
	2-4	Restatements of information (revision)	132
	2-5	External assurance	145-146
GRI 2: Activities & Workers	2-6	Activities, value chain, and other business relationships	10-11
	2-7	Employees	7, 132
	2-8	Non-regular employees	132
GRI 2: Governance	2-9	Governance structure and composition	102
	2-10	Nomination and selection of the highest governance body	102
	2-11	Chairperson of the highest governance body	102
	2-12	Roles of the highest governance body in overseeing the management of impacts	101-102
	2-13	Delegation of responsibility for managing impacts	101
	2-14	Role of the highest governance body in sustainability reporting	105
	2-15	Conflicts of interest	110
	2-16	Communication of critical concerns	101
	2-17	Collective knowledge of the highest governance body	102
	2-18	Evaluation of the performance of the highest governance body	103
	2-19	Remuneration policies	103
	2-20	Process to determine remuneration	103
	2-21	Annual total compensation ratio	103

Topic	No.	GRI Disclosure	Page No.
GRI 2: Strategies, Policies, & Practices	2-22	Statement on sustainable development strategy	5
	2-23	Policy commitments	25, 49, 79
	2-24	Embedding policy commitments	31, 49, 75, 79
	2-25	Process to remediate negative impacts	69, 82
	2-26	Mechanisms for seeking advice and raising grievances	69, 83
	2-27	Compliance with laws and regulations	74, 79, 84, 103
	2-28	Membership associations	148
	2-29	Approach to stakeholder engagement	16
GRI 2: Stakeholder Engagement	2-30	Collective bargaining agreements	79, 135
GRI 3: Material Topics	3-1	Process to determine materials topics	22
	3-2	List of material topics	23
	3-3	Management of material topics	23
GRI 201: Economic Performance	201-1	Direct economic value generated and distributed	129
	201-4	Financial assistance received from government	ALIO
GRI 203: Indirect Economic Impacts	203-1	Infrastructure investments and services supported	32-36, 46
	203-2	Significant indirect economic impacts	37
GRI 205: Anti-Corruption	205-1	Operations subject to reviews on the risk of corruption	108
	205-2	Communication and training about anti-corruption policies and procedures	110, 137
	205-3	Confirmed incidents of corruption and actions taken	137



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Topic	No.	GRI Disclosure	Page No.
<b>GRI 302: Energy</b>	302-1	Energy consumption within the organization	130
	302-3	Energy intensity	130
	302-4	Reduction of energy consumption	130
<b>GRI 303: Water &amp; Effluents</b>	303-1	Interactions with water as a shared resource	130
	303-5	Water consumption	130
<b>GRI 304: Biodiversity</b>	304-1	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	58
	304-2	Significant impacts of activities, products, and services on biodiversity	58
<b>GRI 305: Emissions</b>	305-1	Direct (Scope 1) GHG emissions	130
	305-2	Energy indirect (Scope 2) GHG emissions	130
	305-3	Other indirect (Scope 3) GHG emissions	130
	305-4	GHG emissions intensity	130
	305-5	Reduction of GHG emissions	30, 130
<b>GRI 306: Waste</b>	306-1	Waste generation and significant waste-related impacts	131
	306-2	Management of significant waste-related impacts	-
	306-3	Waste generated	131
	306-4	Waste diverted from disposal	131
	306-5	Waste directed to disposal	-
<b>GRI 401: Employment</b>	401-1	New employee hires and employee turnover	133
	401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	134
	401-3	Parental leave	134
<b>GRI 403: Occupational Health &amp; Safety</b>	403-1	Occupational health and safety management system	61-62
	403-2	Hazard identification, risk assessment, and incident investigation	63-64
	403-3	Occupational health services	64
	403-4	Worker participation, consultation, and communication on occupational health and safety	63
	403-5	Worker training on occupational health and safety	63, 135

Topic	No.	GRI Disclosure	Page No.
<b>GRI 403: Occupational Health &amp; Safety</b>	403-6	Promotion of worker health	78
	403-9	Accidents and days lost	135
<b>GRI 404: Training &amp; Education</b>	404-1	Average hours of training per year per employee	135
	404-2	Programs for skills management and lifelong learning	71-72
	404-3	Percentage of employees receiving regular performance and career development reviews	71
<b>GRI 405: Diversity &amp; Equal Opportunity</b>	405-1	Diversity of governance bodies and employees	74
	405-2	Ratio of standard salary and remuneration between women to men	133
<b>GRI 406: Non- Discrimination</b>	406-1	Incidents of discrimination and corrective actions taken	82-83
<b>GRI 407: Freedom of Association &amp; Collective Bargaining</b>	407-1	Non-compliance with the right to freedom of associations and collective bargaining	No Operations Concerned
<b>GRI 408: Child Labor</b>	408-1	Operations and suppliers at significant risk for incidents of child labor	No Operations Concerned
<b>GRI 409: Forced or Compulsory Labor</b>	409-1	Forced labor risk identification	No Operations Concerned
<b>GRI 411: Indigenous People</b>	411-1	Incidents of violations involving rights of indigenous peoples	No Operations Concerned
<b>GRI 413: Local Communities</b>	413-1	Operations with local community engagement, impact assessments, and development programs	66
	413-2	Operations with significant actual and potential negative impacts on local communities	No Operations Concerned
<b>GRI 416: Customer Health &amp; Safety</b>	416-1	Assessment of the health and safety impacts of product and service categories	66
	416-2	Non-compliance with health and safety requirements	135
<b>GRI 418: Customer Privacy</b>	418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	135

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# TCFD Index

K-eco reviews and reports on TCFD items and key issues through the ESG Committee under the Board of Directors. It also conducts annual analyses of additional TCFD requirements and aims to incorporate them progressively. In line with the TCFD recommendations, K-eco plans to disclose its climate response strategies, implementation performance, and targets, while maintaining ongoing communication with shareholders and other stakeholders.

TCFD Recommendations		Page
<b>Governance:</b> Disclose the organization's governance around climate-related risks and opportunities.		
<b>Governance</b>	Describe the board's oversight of climate-related risks and opportunities.	28, 104-105
	Describe management's role in assessing and managing climate-related risks and opportunities.	28
<b>Strategy:</b> Disclose the actual and potential impacts of climate-related risks and opportunities on the organization's business, strategy, and financial planning where such information is material.		
<b>Strategy</b>	Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term.	27, 28, 39
	Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.	58
	Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario.	28
<b>Risk Management:</b> Disclose how the organization identifies, assesses, and manages climate-related risks.		
<b>Risk Management</b>	Describe the organization's processes for identifying and assessing climate-related risks.	25, 28
	Describe the organization's processes for managing climate-related risks.	25
	Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management.	37, 104
<b>Metrics &amp; Targets:</b> Disclose the metrics and targets used to assess and manage relevant climate-related risks and opportunities where such information is material.		
<b>Metrics &amp; Targets</b>	Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.	28
	Disclose Scope 1, Scope 2 and, if appropriate, Scope 3 greenhouse gas (GHG) emissions and the related risks.	30
	Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets.	27

# K-ESG Implementation Evaluation Report

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Evaluation Standards

The Institute for Public K-ESG developed the K-ESG Implementation Evaluation Checklist for Public Institutions based on the K-ESG Guidelines published by the Ministry of Trade, Industry and Energy. This checklist consists of 66 items across four categories—Disclosure, Environmental, Social, and Governance—and is designed to assess performance in each ESG domain. To ensure the reliability and comparability of the evaluation, the Institute for Public K-ESG, as the executing and certifying body, conducted the assessment and determined the K-ESG performance level.

Evaluation Scope

The evaluation covered K-eco’s mid-to-long-term strategy, stakeholder engagement, ESG management practices, and implementation processes. The assessment was conducted based on a comprehensive review of public disclosures related to ESG policies and activities, including corporate reporting, government databases, media coverage, internal performance data, and monitoring systems, all from the perspective of key stakeholders.

Evaluation Methodology

The first phase of the evaluation was a self-assessment performed by internal stakeholders across relevant departments, especially those involved in public institution performance evaluations and ESG reporting. The second phase consisted of an on-site due diligence process by the evaluation team, which included reviewing internal documents and conducting interviews with responsible personnel at K-eco.

Evaluation Results & Recommendations for Improvement

K-eco received a grade of A, indicating that its ESG disclosure practices are at a satisfactory level. This reflects a high level of awareness among employees regarding ESG management and demonstrates that the organization has well-established systems, policies, and practices in place.

I . Aspects of Information Disclosure

K-eco provides balanced ESG-related information that supports the decision-making and value judgments of a wide range of stakeholders. It is recommended that K-eco continues publishing its sustainability reports on a regular basis to ensure that stakeholders are informed of the ESG information disclosure cycle and that comprehensive ESG-related information are provided both internally and externally. Continued efforts should be made to improve the timeliness and comprehensiveness of ESG disclosures.

II . Environmental Aspects

K-eco has minimized environmental impacts throughout its operational processes and is pursuing economically sustainable development. Its approach to development, implementation, performance, monitoring, and maintenance of environmental management systems was assessed as above average compared to other quasi-governmental organizations. It is advised that K-eco further discloses its environmental management goals and implementation frameworks to a broader stakeholder audience and extends its environmental performance monitoring to include entities within its sphere of influence and control, such as supply chains and partner companies.

III. Social Aspects

Under the ESG vision “Environment, Our Future: K-eco Opening the Future,” K-eco demonstrates a strong commitment to ESG management. Particularly in areas such as labor, occupational safety, human rights, shared growth, and community engagement, K-eco has achieved outstanding results with well-structured systems. However, we recommend that the corporation obtain certification from an external organisation in the information security sector to establish a credible management system.

IV. Aspects of Governance

In terms of governance, K-eco demonstrates outstanding performance overall and particularly in areas such as ESG agenda management within the board of directors and the professional expertise of outside directors. Nonetheless, improvements are needed in areas such as gender diversity and ethical risk management. To achieve its vision of becoming a clean public institution trusted by the public and internalize such a governance culture, there is a need to further advance and refine the ethical management system. This includes ensuring feedback mechanisms are in place and integrating the causes and outcomes of ethical issues into the risk management framework.



# K-ESG Implementation Evaluation Report

## K-ESG Guideline Index

● Satisfied    ◐ Partially Satisfied    ○ Not Satisfied

Domain	Category	Index No.	Evaluation Item	Page No.	Notes
Information Disclosure (P)	Disclosure Format	P-1-1	Information Disclosure Format	2	●
		P-1-2	ESG Information Disclosure Frequency	2	●
		P-1-3	ESG Information Disclosure Scope	2	●
	Disclosure Content	P-2-1	Key ESG Issues & KPI	12	●
Environmental (E)	Disclosure Assurance	P-3-1	ESG Information Disclosure Assurance	146-147	●
	Environmental Management Goals	E-1-1	Environmental Management Goals	25	●
		E-1-2	Environmental Management Implementation System	25	●
	GHG Emissions	E-2-1	GHG Emissions (Scope 1 & 2)	130	●
		E-2-2	Recognition of GHG Emissions (Scope 3)	32, 105, 130	●
		E-2-3	Verification of GHG Emissions	147	●
		E-3-1	Energy Consumption	130	●
	Energy	E-3-2	Renewable Energy Usage Rate	130	●
		E-4-1	Water Consumption	130	◐
	Water	E-4-2	Reused Water Ratio	Official website (self-disclosure)	◐
		E-5-1	Waste Generation	131	●
	Waste	E-5-2	Waste Recycling Rate	131	●
		E-6-1	Purchase of Low-Emission Vehicles	131	●
	Procurement	E-6-2	Purchase of Green Products	131	●
		E-7-1	Violations of Environmental Law/Regulations	131	◐
Social (S)	Goals	S-1-1	Goal Setting & Disclosure	62, 64, 70, 75, 79, 81, 90	●
		S-2-1	New Hires & Employment Retention	133	●
	Labor	S-2-2	Proportion of Regular Employees	132	●
		S-2-3	Voluntary Turnover Rate	134	●
		S-2-4	Education & Training Expenditures	135	●
		S-2-5	Guarantee of Freedom of Association	135	●

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● Satisfied    ● Partially Satisfied    ○ Not Satisfied

Domain	Category	Index No.	Evaluation Item	Page No.	Notes
Social (S)	Diversity & Gender Equality	S-3-1	Proportion of Female Employees	132	●
		S-3-2	Female Salary Ratio (Average Salary Comparison)	133	●
		S-3-3	Employment Rate of Persons with Disabilities	74, 132	●
	Occupational Health & Safety	S-4-1	Occupational Safety & Health Management System	61-62	●
		S-4-2	Workplace Accident Rate	135	●
		S-4-3	Occupational Safety Performance Evaluation Results	135	●
	Human Rights	S-5-1	Human Rights Policy Establishment	81	●
		S-5-2	Human Rights Risk Assessment	82	●
	Shared Growth	S-6-1	ESG Management of Partner Operations	84	●
		S-6-2	ESG Support for Partner Operations	85-89	●
		S-6-3	ESG Agreements with Partner Operations	51, 58, 67, 125	●
		S-6-4	Shared Growth Evaluation Results	136	●
	Local Community	S-7-1	Strategic Social Contribution	90	●
		S-7-2	Incentive Program for Employee Participation in Volunteer Activities	90, 136	●
		S-7-3	Trends in Donation	136	●
		S-7-4	Contribution Agreement to the Agricultural & Fishing Village Cooperation Fund	Disclosed on the KOFA website	●
		S-7-5	Contribution Amount to the Agricultural & Fishing Village Cooperation Fund	Disclosed on the KOFA website	●
	Information Security	S-8-1	Information Security System Establishment	69	●
		S-8-2	Personal Information Breach and Remedies	69	●
		S-8-3	Personal Information Protection Level Assessment	135	●
	Consumer	S-9-1	Provision of Consumer Information	65	●
		S-9-2	Consumer Safety	65-69	●
		S-9-3	Consumer Complaint Handling Policy	16	●
		S-9-4	Consumer Complaint Handling Body	Official website (Online Citizen Reporting Center)	●
		S-9-5	Consumer Complaint Data Management	135	●
		S-9-6	Management of Consumer Complaint Indicators	Official website (Online Citizen Reporting Center)	●
		S-9-7	Consumer Satisfaction Survey Results	135	●
	Compliance with Social Law/Regulation	S-10-1	Violations of Social Law/Regulations	ALIO	●

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● Satisfied    ◐ Partially Satisfied    ○ Not Satisfied

Domain	Category	Index No.	Evaluation Item	Page No.	Notes
Governance (G)	Board Composition	G-1-1	Inclusion of ESG Agenda in Board Meetings	101	●
		G-1-2	ESG Roles & Responsibilities within the Board	101	●
		G-1-3	Gender Diversity on the Board	102, 137	◐
		G-1-4	Expertise of External Directors	102	●
	Board Activities	G-2-1	Attendance Rate of All Directors	101, 137	◐
		G-2-2	Attendance Rate of Executive Directors	101, 137	◐
		G-2-3	Board Subcommittees	104-106, 137	●
		G-2-4	Board Resolution Activities	131	●
	Ethical Management	G-3-1	Disclosure of Ethical Misconduct	137	●
		G-3-2	Overall Integrity Assessment Results	109, 137	◐
		G-3-3	Compliance with Ethical Management/Anti-Corruption Regulations & Policies	109	●
	Audit Mechanism	G-4-1	Establishment of Internal Audit Function	108	●
	Compliance with Governance Law/Regulations	G-5-1	Violations of Governance Law/Regulations	ALIO	●

## Conclusion

Based on the K-ESG implementation evaluation, K-eco has received a grade of A, indicating that the organization has established a solid practical foundation for ESG management. K-eco is currently in the phase of integrating ESG practices throughout the organization, demonstrating strong performance in goal setting and disclosure, occupational safety, and ethical management. As a leading public institution contributing to environmentally sustainable national development, K-eco is advised to further align its strategic initiatives with ESG priorities in accordance with the K-ESG Guidelines. This includes enhancing the sophistication of implementation tasks from an ESG perspective and strengthening the transparency of information disclosures to proactively highlight the organization's public role to stakeholders.



Assessment & Accreditation by



\* The K-ESG Implementation Evaluation uses a seven-tier rating system (S, A+, A, B+, B, C, D) and is based on publicly available sources such as business reports, official websites, sustainability reports, ALIO (Clean Eye), and the Institute for Public K-ESG's evaluation questionnaire. For more information, please visit [www.esgpublic.or.kr](http://www.esgpublic.or.kr).

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# Independent Assurance Statement

## For the management and stakeholders of K-eco

### Preface

The Institute for Public K-ESG was commissioned to provide an independent assurance of the 2025 K-eco Sustainability Report (hereinafter the “Report”). The assurance team has reviewed the validity of the data included in the Report and hereby offers its independent assurance opinion. K-eco bears full responsibility for all claims and performance results contained within the Report.

### Assurance Scope & Standards

The Report presents K-eco’s sustainability-related activities and performance. The assurance team applied the international assurance standard AA1000 Assurance Standard v3 and conducted a Type 2, Moderate Level assurance engagement. Specifically, the assurance team assessed the extent to which the Report adheres to the AA1000AP (2018) principles of Inclusivity, Materiality, Responsiveness, and Impact, and evaluated the reliability of the data and information disclosed for the following GRI universal and topic-specific standards. The materiality assessment was based on the professional judgment of the assurance team.

Verification of compliance with the disclosure requirements of the GRI Standards 2021 was included within the scope of assurance, and the assurance team conducted the following review accordingly:

#### Universal Standards

- GRI 1: Reporting Principles of GRI Standards 2021
- GRI 2: General Disclosure 2021 (2-1–2-30)
- GRI 3: Material Topics 2021 (3-1–3-3)

#### Topic Specific Standards

- Management approach to the following topic-specific standards:
- GRI 203-1-2, 205-1-3, 302-1,3,4, 305-1-5, 306-1,3,4, 401-1-3, 403-1-6, 404-1-3, 405-1-2, 413-1-2, 418-1

Please note that data and information related to external entities such as K-eco’s partner companies and contractors were excluded from the assurance scope.

### Assurance Process

The assurance team conducted the following procedures to assess the Report in accordance with the assurance criteria outlined above and within the agreed-upon scope:

- Comprehensive review of the Report content
- Review of materiality assessment procedures and methods
- Review of ESG management strategies and goals
- Review of stakeholder engagement activities
- Interviews with responsible personnel involved in preparing the Report
- Evaluation of data reliability using independent external sources and public databases

### Findings & Opinion

Based on document review and interviews, the assurance team engaged in multiple rounds of discussion with K-eco regarding revisions to the Report and verified that recommendations for revision and improvement were adequately reflected in the final version. As a result of this assurance engagement, the assurance team found no evidence of noncompliance with the principles listed below. Furthermore, we did not identify any material misrepresentation of data within the assurance scope. We conclude that this sustainability report (ESG management report) was appropriately prepared in accordance with the GRI Standards 2021 and offer the following opinions regarding K-eco’s adherence to the four AA1000AP principles (2018):

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## Four AA1000AP AccountAbility Principles 2018

### Inclusivity

**Has K-eco included stakeholders in its strategic response to issues of sustainability?**

We confirm that K-eco recognizes the importance of stakeholder engagement and has made efforts to establish relevant engagement processes. K-eco has identified core stakeholder groups including customers, employees, subsidiaries, local communities, partner firms, and prospective customers, and maintains communication channels tailored to each group to collect diverse opinions.

### Materiality

**Has K-eco included material information for stakeholders' informed decision-making?**

We found no evidence that K-eco omitted or excluded information of materiality to stakeholders. We also confirm that K-eco conducted a materiality assessment based on internal and external environmental analyses and reported accordingly.

### Responsiveness

**Has K-eco appropriately responded to stakeholder needs and concerns?**

We confirm that K-eco has incorporated feedback received from stakeholders into the Report and made sincere efforts to respond to stakeholder expectations and concerns. No evidence was found suggesting that K-eco's responses to key stakeholder issues were inappropriately represented.

### Impact

**Has K-eco duly monitored the impacts of its activities on stakeholders?**

We confirm that K-eco monitors and identifies the impacts of its business activities on stakeholders and has appropriately reflected this in the Report.

## Recommendations for Improvement

The Institute for Public K-ESG hopes this Report will serve as a robust tool for stakeholder communication and offers the following recommendations to support continuous improvement:

We commend K-eco's efforts to strengthen communication with diverse stakeholders and to effectively convey the authenticity of its ESG management through this Report. Notably, the systematic restructuring of material issues identified through materiality assessment across ESG categories and the adoption of a clear narrative structure have enhanced the Report's readability and the clarity of its message.

Looking ahead, we recommend that K-eco designs more sophisticated key performance indicators (KPIs) aligned with mid-to-long-term ESG strategies and transparently disclose the execution and results of these efforts. In doing so, the Report will evolve from a communication tool to a verifiable demonstration of the corporation's ESG performance.

Furthermore, as stakeholder expectations continue to rise, we advise building a sustainability reporting system that captures a balance of both quantitative and qualitative aspects of ESG implementation and allows for year-on-year comparability. Such improvements will further reinforce K-eco's ESG competitiveness.

## Independence Statement

The Institute for Public K-ESG affirms that, aside from offering an assurance service, it has no commercial or financial interest in K-eco's business activities and maintains full independence in its assurance role.

# Public Awards

## Awards & Honors

Category	Domain	Organizer	Award/Honor	Award Details/Project Title
E, S, G	ESG Management	MOTIE/Korea Productivity Center	Minister of Trade, Industry and Energy Award	Government Award for Sustainable Management (Sustainable Management and Achievement of National Policy Goals)
E, S, G	ESG Management	Korea Policy Association	Grand Prize (Certification as an Excellent ESG Policy Institution)	Realization of Social Responsibility (S) through Transparent (G) Environmental Services (E)
E	Resource Circulation	MOIS	Minister of the Interior and Safety Award, Digital Category, 2024 Government Innovation Grand Prix	Recognized for providing a one-click, free-at-home collection service for waste home appliances through collaboration with apartment management platform companies
E	Resource Circulation	MOE	Minister of Interior and Safety Award, 13th Korea Knowledge Awards	Honored for addressing illegal waste abandonment and reducing incineration/landfill by analyzing and utilizing big data on waste for energy recovery resource identification
E	Public Data	MOE	Ministry of Environment Award (Grand Prize), 2024 Environmental Data Analysis & Application Contest	Awarded for developing an AI-based integrated aircraft noise automatic identification system and a machine-learning model to predict ground subsidence using environmental data
E	Air Quality	Austria	Winner, 2024 Energy Globe Award (Austria)	Recognized for continuously enhancing the performance of the Air Korea air quality information service and delivering accurate, convenient air-environment data via open API
E	Regulatory Innovation	MOE	Excellence Award, Quasi-Governmental Institution Category, 5th Public Institution Policy Awards	Acknowledged for building a collection-treatment-recycling system for waste batteries through stakeholder collaboration, producing both environmental and economic benefits
S	Win-Win Cooperation	MOIS	Presidential Commendation, 2024 Merit Award for Public Procurement of Innovative Products	Selected as the top agency in public procurement of innovative products by discovering demand, registering innovative products, and expanding their sales channels
S	Safety	MOEF	Selection as Excellent Case of Public-Facing Service Innovation, 2024	Selected as an excellent institution for enhancing indoor air quality in facilities serving the environmentally vulnerable, ensuring safer living environments and preventing environmental diseases
S	Safety	MOIS	Prime Minister’s Award, 2024 Korea Safety Technology Awards	Honored for developing, improving, and expanding the “Manhole Keeper” system to enhance flood prevention safety
S	Local Community	MOEF	Deputy Prime Minister of Economy’s Commendation, “Outstanding Institution,” Public Facility & Equipment Development	Recognized for expanding public access to K-eco facilities and equipment, supporting the operation of “NeulbomSchool” and assisting the successful hosting of community festivals
S	Safety	MOLIT	Top Score in Safety Management Evaluation	Achieved highest excellence in construction safety management through advanced system enhancement and deployment of cutting-edge safety technologies in the field
S	Regulatory Innovation	MOIS	Public Sector Policy Innovation Award, 13th Korea Policy Awards	Recognized for preventing waste-collection breakdowns and reducing social costs by introducing an AI and big-data-based scientific early-warning system
S	Equal Opportunity	MOEL	2024 Reliable Employer for Disability Inclusion	Selected for outstanding support of persons with disabilities through job development, sustained employment, and the creation of inclusive work environments
G	Regulatory Innovation	MOSS	Minister of SMEs and Startups Award, 2024 Korea SME Regulatory Innovation Awards	Honored for easing regulatory burdens and supporting private-sector growth through reforms such as relaxing chemical substance registration requirements
G	Public Data	Korea Life Safety Institute	Top Grade in Public Data Provision & Operations Evaluation (5 consecutive years)	Acknowledged for progressively opening high-quality, high-demand environmental data closely tied to everyday life and fostering public-private data collaboration and co-production

## External Verifications & Certifications

Category	Domain	Verification/Certification	Verification Date/Certification Validity Period
E	Environment	2023 Greenhouse Gas Emissions Report (Scope 3) - Limited Assurance	Sep 30, 2024
S	Safety	KOSHA-MS(Occupational Health & Safety Management System)	Dec 16, 2023–Dec 15, 2026
S	Safety	ISO45001(Occupational Health & Safety Management System)	Nov 18, 2022–Nov 17, 2025
S	Safety	ISO 14001(Environmental Management System)	Mar 22, 2025–Mar 21, 2028

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# Member Organizations & Associations

## Member Organizations

No.	Organization Name
1	Korea Emergency Planning Association
2	Incheon Metropolitan City Emergency Planning Council
3	Korea Business Council for Sustainable Development
4	Korean Society of Public Enterprises
5	Korean Association for Public Administration
6	Korean Association for Policy Studies
7	Seoul Association for Public Administration
8	UN Global Compact
9	Korean Association for Organizational Studies
10	Korean Association for Governance Studies
11	Korea Association for Public Sector Management
12	Korean Society of Climate Change Research
13	Climate Change Center
14	National Assembly Water Forum
15	Korea Water Forum
16	Korea Water Circulation Association
17	Korea Water and Wastewater Works Association
18	Korean Society of Soil and Groundwater Environment
19	Korea Conservation Association of Soil and Groundwater
20	Korean Society on Water Environment
21	Korean Society of Water & Wastewater

No.	Organization Name
22	Korea Waste Association
23	Korea Environmental Policy and Administration Society
24	Korea Society of Waste Management
25	Korean Society of Environmental Impact Assessment
26	Korean Society of Environmental Engineers
27	Korean Society of Environmental & Energy Engineers





Launched in New York, USA, in 2000, the United Nations Global Compact (UNGC) is the world's largest corporate sustainability initiative supported by 19,000 member companies from 165 countries worldwide. Korea Environment Corporation (K-eco) has been a UNGC member since 2010, and has implemented its principles in areas such as human rights, labor, environment, and anti-corruption.



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