2023 **HANSOL GROUP SUSTAINABILITY REPORT** Hansol

About this Report

Hansol Group began publishing its sustainability reports in 2020. Following the second report in 2022, we have adopted annual publication as a principle and now present the third Sustainability Report in 2023. With the publication of this 2023 Hansol Group Sustainability Report, (hereinafter, "the Report"), we share our sustainability activities and performance in the economic, social, and environmental areas. Our goal is to engage with stakeholders and integrate their feedback into our business management

Reporting Period

The Report covers the financial and non-financial outcomes of our key sustainability activities from Jan. 1 to Dec. 31, 2022, while certain data reflect activities conducted during the first half of 2023. In order to facilitate time series analyses, some quantitative data include statistics for the three years from Jan. 1, 2020 to Dec. 31, 2022.

Reporting Scope

The reporting scope includes the sustainability management activities of Hansol Group, comprising Hansol Holdings and ten affiliates, and the outcomes of their initiatives. Financial data solely represent the performance of Hansol Holdings on a consolidated basis, following the Korean International Financial Reporting Standards (K-IFRS).

Reporting Principles and Standards

The Report adheres to the Core standards of the Global Reporting Initiative (GRI) Standards, the international guidelines for sustainability management. Hansol Holdings also complies with ISO 26000, the management system guidelines for social responsibility.

Report Assurance

The Report has been verified by a professional sustainability report verification organization to ensure its reliability. The assurance statement can be found on p. 114 of this report.

Inquiries about the Report

For more detailed information on Hansol Group's sustainability management activities and outcomes included in the Report, please contact: Hansol Holdings Communication Team

Hansol Holdings Communication Team 100 Eulji-ro, Jung-gu, Seoul 04551, Republic of Korea

Tel 02-3287-6875

E-mail hansolholdings.communication@hansol.com

Web www.hansol.com

Contents

INTRODUCTION **CEO Message** Hansol Holdings at a Glance 06 History Group Business Portfolio 10 SUSTAINABILITY ESSENTIALS Sustainability Key Figures 2022 Sustainability Management System Sustainability Focus Issues HANSOL SUSTAINABILITY ACTION Consumer 38 - Management for customer satisfaction Environment - Product development considering the environment and climate strategies Social - Sustainable growth for all Governance 72 - Transparent governance and shareholder-friendly management **APPENDIX** Materiality Test Data Center **GRI Content Index** 112 **UN Sustainable Development Goals** 115 Independent Assurance Statement 116 Affiliates with Certifications 118 Awards 119

120

121

Local Business Sites

Association Memberships

CEO MESSAGE

Dear Respected Stakeholders,

04

On behalf of all Hansol Holdings employees, I would like to express my sincere gratitude to all of you for your unwavering support and interest in our company.



In 2022, the business landscape experienced rapid changes, with sustainability attracting unprecedented interest.

Despite the challenging circumstances, Hansol Group remains committed to developing a sustainable business portfolio.

Our mission is to achieve sustainable growth by leveraging our competitive advantages and collaborating with stakeholders from all walks of life to maximize value.

To achieve this, we are committed to evolving our current business activities to maintain a competitive edge while exploring customer-centric strategies, new value, and innovative approaches for promising new ventures.

Each affiliate is actively constructing a sustainable business structure by developing a future-oriented business portfolio. This includes innovating existing business models, exploring new high-growth potential ventures, and undertaking challenging innovation tasks to boost competitiveness.

Furthermore, we are focused on instilling our organizational principles of immersion, transparency, respect, and speed in all our employees to foster a sustainable corporate culture that swiftly adapts to changes.

In 2023, we introduced the ESG index management system to all affiliates, strengthening our ESG management efforts. Through systematic and accurate ESG data management, each affiliate will derive and implement strategic tasks to improve the environment, society, and governance.

Our environment management system is founded on ISO 14001, an environmental management system certification. We also pursue safety and health management based on ISO 45001, an international standard for safety and health management certification, and the International Safety Rating System (ISRS). Additionally, we take the lead in respecting and safeguarding the human rights of all stakeholders, including employees. This is achieved by implementing company-wide human rights management and developing comprehensive guidelines.

In terms of our governance structure, we are conducting compliance management assessments of all affiliates and actively pursuing governance innovation through voluntary disclosure of corporate governance reports. Furthermore, our governance system encompasses non-financial risks, ensuring comprehensive risk management across all affiliates to enhance overall management sustainability. Lastly, we strengthen stakeholder communication through the implementation of mid- to long-term shareholder return policies and the operation of the Outside Director Nomination Committee.

We appreciate your continued support and interest in our sustainable growth.

Thank you.

CEO of Hansol Holdings

Lee Jae-hee

HANSOL HOLDINGS AT A GLANCE

Hansol Holdings is committed to cultivating new corporate values in this era of transformation. As the holding company of the Hansol Group, we aim to strengthen competitiveness, create synergies, and establish new corporate roles to ensure the sustainable growth of our affiliates. To achieve sustainable management, we focus on enhancing Hansol's brand value, diversifying our business portfolio, and optimizing resource allocation. Embracing the importance of ESG practices, we lead by example, discovering new business opportunities and providing management consulting services to our affiliates. Hansol Holdings will pursue developing a business model that empowers Hansol Group with a unique competitive edge, fostering sustainable management and elevating corporate value.



Company Information

Date of Establishment

January 1965

Headquarters

25/F, Pine Avenue Building B, 100 Eulji-ro, Jung-gu, Seoul, Republic of Korea

Credit Rating

Business Areas

ESG rating

Business consulting, investment and asset management, brand management, etc.

Financial Performance in 2022

(As of December 2022, based on separate financial statements)

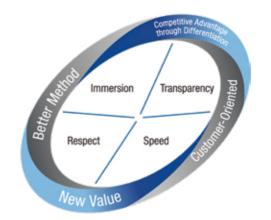
06

KRW 456.7 billion KRW 34.4 billion

Sales

Operating Income

Hansol Management System (HMS)



Our Mission

To gain a competitive advantage through differentiated strategies, maximize values, and grow with customers

Our Principles

- · We prioritize our customers.
- · The future lies in new values.
- · A better approach is our philosophy.
- · Our survival depends on maintaining unparalleled competitive advantage.

Hansol Group

Holding company

Hansol Holdings

Affiliates

Hansol PaperTech **Hansol Paper**

Hansol PNS

Hansol Technics

Hansol IONES

Hansol Logistics

Hansol HomeDeco

Hansol Inticube

Subsidiaries

Hansol Chemical

Tapex

Hansol **Holdings Share** Structure

(As of December 2022)

Hansol Paper

30.49

Hansol PNS

46.07%

Hansol Logistics

21.37%

Hansol HomeDeco

23.32%

Hansol PaperTech

99.99%

Hansol Inticube

26.65%

Hansol Technics

20.26%

HISTORY

Since its inception as a paper manufacturer in 1965, Hansol has flourished by engaging with consumers through a wide range of products and services in various sectors, such as distribution, chemicals, and logistics. Throughout the past 50 years, we have consistently pushed our boundaries and prepared ourselves for forthcoming challenges Today, we stand ready to extend our reach beyond Korea and establish ourselves as a global player, equipped with unmatched competitiveness and expertise. Our commitment to growth and adaptation remains unwavering, leveraging our experience and capabilities to meet evolving demands in the vears to come.



1990

1991 - Separated from the Samsung Group and became independent

- Founded Hansol HomeDeco

of Hansol Paper Janghang

Establishment

of the Hansol Paper Daejeon

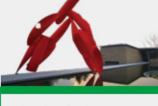
- Completed the construction of the Hansol HomeDeco Iksan Plant

and Hansol PNS

1996 - Completed the construction of the Hansol Technics Jincheon Plant

> New Zealand's forestry market

Chammaru



2011 - Acquired Hansol PaperTech

2012 - Hansol Chemical launched an overseas branch office (Hansol Electronics) in China

2013 - Opened Museum SAN

2014 - Hansol Chemical became the world's first to churn out

2015 - Hansol Holdings launched

- Introduced the HMS

- Hansol Technics entered the electronics manufacturing services (EMS) business

2019 - Hansol HomeDeco opened a branch in Vietnam

2020 - Hansol V-Frontiers launched

2021 - Hansol Logistics acquired Eastern Logistics

- Hansol PNS acquired Coever I&T

- Hansol PNS acquired Zizle (currently Hansol BS)

- Hansol Inticube acquired Stickus Corporation

2022 - Hansol Paper acquired Sungwoo Envi Tech

> - Hansol Paper issued ESG bonds

- Hansol Technics acquired IONES

- Hansol Logistics acquired Moonlogis

- Hansol Home Deco launched Hansol MODU VHOM

2023

2023 - Hansol Paper won first place in the Most Admired Companies (paper category) for 20 consecutive years

> - Hansol Group designated as a corporate group subject to public disclosure



08

1965 - Saehan Paper was founded

- Saehan Paper was

1968 - Saehan Paper was renamed as Jeonju Paper



1981 - Produced one million tons of paper for the first time in the industry in Korea

1982 - Reached 10,000ha of forestry for the first time in the industry

1987 - Developed thermal paper for the first time in Korea

1992 - Founded Hansol Chemicals

- Completed the construction

1995 - Founded the Hansol Cultural

- Completed the construction

- Founded Hansol Technics

- Hansol HomeDeco entered

1997 - Hansol HomeDeco launched laminated flooring 2016 - Hansol Chemical acquired Tapex



acquired by the Samsung Group

2023 Hansol Group Sustainability Report

1970

affiliate

1972 - Listed on the Korea Exchange

as first Samsung Group

1979 - Established the industry's first

paper research institute

2000

business

2000 - Hansol Logistics launched

its global logistics platform

- Hansol Paper declared its

vision to become the best

2001 - Hansol Logistics developed

2002 - Cho Dong-gil appointed as

2005 - Vision declaration ceremony

2007 - Hansol Paper obtained the

(FSC) certification

2008 - Hansol PNS took over

Hansol Inticube

2009 - Hansol Paper ranked 4th-

producer in Asia

largest printing paper

delivery system

Group

Group

the world's first smart

paper manufacturer in Asia

the Chairperson of Hansol

held in celebration of the

40th anniversary of Hansol

Forest Stewardship Council

GROUP BUSINESS PORTFOLIO





Date of Establishment January 2015

23 ~ 24/F, Pine Avenue Building B, 100 Eulji-ro, Jung-gu, Seoul, Republic of Korea Headquarters **Business Areas**

Paper: Manufacturing of printing paper, industrial paper, specialty paper, and

Environment: EPC (Engineering, Procurement, Construction), O&M (Operation

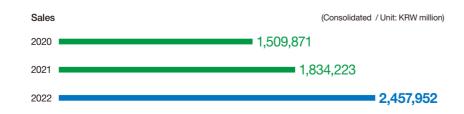
Credit Rating A (NICE Investors Service, unless specified otherwise)

Credit Rating B+ (KCGS, unless specified otherwise)

Since its establishment in 1965, Hansol Paper has emerged as the largest paper company in Korea, playing a crucial role in the cultural and industrial development of the nation through its diverse range of paper products. As the sole comprehensive paper manufacturer in Korea, operating four base factories in Janghang, Daejeon, Cheonan, and Shintanjin, respectively, Hansol Paper is dedicated to enhancing brand value through rigorous quality control, continuous research and development, and exceptional customer service. Recently, the company has been focusing on eco-friendly, high-value-added, and technology-intensive high-tech paper materials, propelling it toward becoming a global paper company with a strong presence in the USA and Europe. Moreover, the merger with Hansol EME has laid the groundwork for diversifying its business activities in the environmental domain, particularly in resource recycling.



10





Date of Establishment February 2000

80 Daechi 7-gil, Daejeon-myeon, Damyang-gun, Jeollanam-do, Republic of Headquarters

Business Areas Manufacturing of corrugated cardboard sheets

Credit Rating

Hansol PaperTech is a leading manufacturer of corrugated sheets, producing both outer and inner layers as well as the flute, and selling them domestically and internationally. Corrugated cardboard has exceptional buffering and shock-absorbent properties. As a result, it is extensively used in crafting boxes for industrial or agricultural products, electronic items, and general industrial packaging. Hansol PaperTech maintains stable materials supply and sales through sustainable partnerships with its subcontractors. Moving forward, the company remains dedicated to developing new technologies to produce green and high-quality products for stable business management.







Date of Establishment February 1975

Headquarters 5/F, Ilheung Building, 213 Toegye-ro, Jung-gu, Seoul, Republic of Korea

Business Areas Paper distribution, IT service

Credit Rating A3
Credit Rating B

Hansol PNS, Korea's largest paper distributor, not only distributes paper products but also offers IT services. Recently, the paper distribution division has enhanced its competitiveness by launching an online mall as part of its digital conversion project, securing a strong position in the future distribution industry. Additionally, the division is gearing up to venture into the platform industry through the establishment of a mobile system in the second phase. On the other hand, the IT service division is involved in designing corporate information systems, as well as developing hardware, application software, and customized solutions. One of its crucial divisions is the smart factory division, which plays a significant role in driving the digital transformation of the domestic small and medium business ecosystem and contributing to ESG integration.







Date of Establishment December 1991

Headquarters 27/F, Jeonmun Geonseol Hoegwan, 15 Boramae 5-gil, Dongjak-gu, Seoul,

Republic of Korea

Business Areas Wood: Manufacturing and distribution of boards (MDF), flooring, and interior products

Combined Heat and Power (CHP) Generation: Biomass renewable energy (power

and steam production)

Afforestation: Investment in overseas afforestation business through an overseas

corporation in New Zealand

Credit Rating BBB ESG rating B

Hansol HomeDeco specializes in supplying building materials, including MDFs and other eco-friendly materials for interior design. Hansol HomeDeco has developed a forest-product circulation system by leveraging its expertise in wood and forestry overseas, including lumber, furniture components, flooring, interior material distribution, and renewable energy. Additionally, the company has successfully completed the value chain in the timber business, generating new added value through the utilization of MDF and lumber by-products. In 2022, Hansol HomeDeco launched the direct interior platform VHOM as an online website and mobile app, establishing a customer-friendly sales network. To further expand and enhance the online total interior business capacity, the total interior business was physically separated, and Hansol MODU VHOM was established.



12





Date of Establishment June 1994

Headquarters 22/F, Pine Avenue Building B, 100 Eulji-ro, Jung-gu, Seoul, Republic of Korea

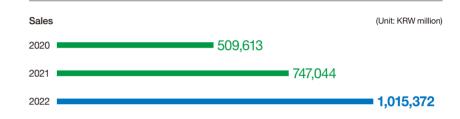
Business Areas International logistics, container transport, truck transport, W&D, logistics

ess Areas Inter

Credit Rating A3

Since its establishment in 1994, Hansol Logistics has been striving to become the best SCM solution provider, providing unmatched services in global logistics, encompassing air and sea freight forwarding, container transport, truck and rail freight transport, W&D, and logistics consulting. The company practices ESG management, ensuring safe workplaces, ethical management, and shareholder value, while offering differentiated global logistics services through its overseas network of 20 branches in seven countries in the Americas and Asia.







Date of Establishment August 1966

Headquarters 5/F, Pine Avenue Building B, 100 Eulji-ro, Jung-gu, Seoul, Republic of Korea

Business Areas Electric/electronic product power modules, wireless charging modules, solar

power generation modules, LED material processing, and mobile phone

components and EMS

Credit Rating BBB+ ESG Rating B+

Hansol Technics is committed to delivering excellence through the highest quality standards, best-product development practices, and innovative cost competitiveness. Guided by a management philosophy that values human resources, technology, and a future-oriented approach, the company specializes in power module device (PMD) business, in the manufacturing of digital power, mobile phones, wireless charging modules, and automotive electronics. Simultaneously, it is actively engaged in the Energy Solution (ES) business, producing solar power modules and LED wafers. The company's relentless pursuit of continuous new business development has fueled its growth as a prominent electronic parts and energy solution company. As a key player in the national export core industry, the company is dedicated to systematizing ESG management within its operations and fostering the growth of SMEs to contribute to broader economic development.







Date of Establishment March 1993 (formerly Dong-A Engineering)

Headquarters 2061 Anseong-daero, Gosam-myeon, Anseong-si, Gyeonggi-do, Republic of

Korea

Business Areas Precision manufacturing and cleaning/coating services for semiconductor and

display manufacturing equipment parts

Credit Rating BBB (E Credible)

Hansol IONES is a forward-thinking, innovative company offering ultra-precision special parts in the semiconductor and display industries. It provides a comprehensive one-stop service, encompassing design, processing, measurement, cleaning, coating, and analysis, fostering collaborative growth with customers through the best technology and quality competitiveness. With a proven track record of delivering precision parts and semiconductor consumable cleaning/coating services to top-tier semiconductor equipment companies and general semiconductor firms worldwide, Hansol IONES has established itself in the market with a distinct competitive edge. Fearlessly embracing challenges and changes, it is committed to continuous innovation, and aspires to become a global comprehensive parts company that focuses on new material development, nano-coating, and surface treatment technologies for the development of the industry.







Date of Establishment December 2003

Headquarters 14/F, Nuri Dream Square Business Tower, 396 Worldcupbuk-ro, Mapo-gu, Seoul,

Republic of Korea

Business Areas Digital contact center, Al communication, communication cloud, and mobile

solutions

Credit Rating BB+(E Credible)

Hansol Inticube is a leading company in business communication solutions, specializing in the next-generation AI contact center. Utilizing extensive expertise in building various digital contact centers, it offers integrated solutions, encompassing construction of customer-centered contact center infrastructure, consulting, and maintenance. A notable achievement is the launch of ISAC-AI, an artificial intelligence (AI) communication platform that utilizes cutting-edge IT technologies such as AI, cloud, and big data — the core components of the 4th industrial revolution. With ISAC-AI, even small and medium-sized enterprises can easily adopt AI consulting services. The company is committed to contributing to digital innovation across the corporate ecosystem, fostering growth with clients.



14





Date of Establishment March 1980

Headquarters 7~8/F, K-Tower, 513 Teheran-ro, Gangnam-gu, Seoul, Republic of Korea

Business Areas Precision chemicals, display materials, semiconductor materials, and secondary

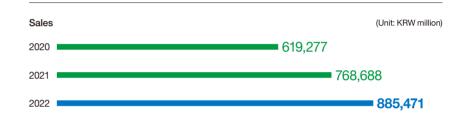
battery materials

Credit Rating A+ (Korea Investors Service)

ESG Rating B

Since its establishment in 1980, Hansol Chemical has emerged as a prominent high-tech fine chemicals company, renowned for its constant innovation and production of top-notch chemical products. The company boasts large-scale production facilities in Jeonju, Ulsan, and Xian, China, covering a wide spectrum of business areas, from fine chemicals to electronic materials. Hansol Chemical is committed to achieving sustainable growth by enhancing its competitiveness in semiconductors, advanced displays, and secondary battery materials. This objective is pursued by maximizing global capabilities through the implementation of ESG management strategies and the exploration of new business opportunities.





Tapex

Date of Establishment April 1994

Headquarters #812 & 813, 8/F, Daehak 4-ro, Yeongtong-gu (Ace Gwanggyo Tower 1, lui-dong),

Suwon, Gyeonggi-do, Republic of Korea

Business Areas Functional adhesive tapes for electronic materials, plastic wraps for food

packaging, consumer goods

Credit Rating A- (Korea Investors Service)

ESG Rating B+

Established in 1994, Tapex specializes in the manufacture of industrial adhesive tapes. The company has expanded its business areas to include the production of essential tapes for secondary batteries, display, and semiconductor manufacturing processes, as well as packaging wraps and green consumer products. Tapex's core competencies are in addressing global climate change and adapting to environmental policy changes. This strategic focus has earned the company a leading position in providing eco-friendly functional tapes for electric vehicles. Tapex has also laid the Establishment for sustainable management, contributing to the preservation of the global environment while achieving business growth.

118.772

154,922

(Unit: KRW million)





Hansol is dedicated to creating new values that contribute to a better future for its customers. Hansol Group has been actively involved in the development of green products and the expansion of the green product certification system. By prioritizing climate-related risk management, we aim to not only seize business opportunities but also gain an unparalleled competitive advantage in the market.

Sustainability Essentials -

- 8 Sustainability Key Figures 2022
- 20 Sustainability Management System
- 26 Sustainability Focus Issues

SUSTAINABILITY **KEY FIGURES 2022**

Hansol Group is committed to sustainability management, through which we intend to build customer trust, enhance corporate value, and foster sustainable growth. Our dedication to sustainability principles is evident in our continuous pursuit of new technologies and innovative solutions, which can be observed through our data reflecting major sustainability management performance.

International Environmental Management System ISO 14001 **Certification Obtained for**

19 business sites

(As of December 2022)

18

International Safety and Health Management System ISO 45001 **Certification Obtained for**

business sites

International Quality Management System ISO 9001 **Certification Obtained for**

7 affiliates

Number of companies that signed business agreements with Hansol Paper to develop eco-friendly packaging

KRW 99.55 billion

Corporate value of 15 startups that participated in Hansol V Frontiers

10

materials

Hansol Paper's annual carbon dioxide absorption

32,264.8tCO2eq

Percentage of green products sales among the total product sales of Hansol Paper (as of 2022)

66%

Hansol HomeDeco partners that received the consulting support for establishing safety and health management system

companies

Number of employees of partner companies attending Hansol Technics' Win-Win **Cooperation Day**

100

Number of grievances received during Tapex executiveemployee meetings

211

Recycled raw material usage rate for MDF production by Hansol HomeDeco

80%

Hansol Paper's Win-Win **Growth Fund for Partners**

KRW 6 billion

Number of consecutive years

that Hansol Paper received

(Top 5% companies in ESG management)

EcoVadis Gold Medal

3 years

Donation from Hansol Technics for installing solar modules at social welfare facilities (as of 2022)

KRW 25.15 million

Percentage increase in Tapex's investment for safety and health facilities compared to

52%

Number of affiliates that disclose Hansol Group **Corporate Governance Report**

Seven

2023 Hansol Group Sustainability Report Sustainability Essentials Hansol Sustainability Action Introduction **Appendix** 19

SUSTAINABILITY MANAGEMENT SYSTEM

Hansol Group has embraced the Hansol Management System (HMS) as a guiding vision to secure a distinctive competitive business advantage, and to foster sustainable growth. This system stands as core values shared and practiced by all executives and employees. In line with this vision, we have implemented environmental management, human rights management, ethical management, and safety and health management systems to embody sustainable practices throughout our operations. In 2022, while revising the HMS, we focused on advancing ethical management principles.

Hansol Management System (HMS)

As a result, we integrated four new organizational principles: immersion, transparency, speed, and respect. This integration aims to instill a culture and management approach that places high value on mutual respect among all members of the organization.

20

Principles

Immersion: Focus and sense of unity for better results

At Hansol, we understand that achieving excellent results goes beyond mere effort; it demands full immersion. We strive for continuous growth both on organizational and individual levels by creating an environment where all our members can fully immerse themselves in their work, fostering a culture where both individuals and the organization continuously challenge themselves to reach new heights.

Transparency: Sharing of procedures and results

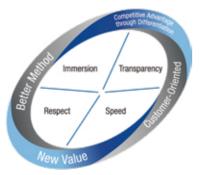
Transparency is a fundamental value that every member of Hansol must uphold. Through the practice of ethical business principles, responsible attitudes, and open communication, we fortify a transparent culture that benefits our customers, shareholders, employees, and local communities.

Speed: Agility based on simplicity and substantiality

Speed is powered by simplicity. It is driven by a keen focus on what truly matters in the present moment. The key lies in focusing on the essence and core of the matter. When communicating with our customers, we achieve impactful results by promptly identifying their needs and delivering the necessary services.

Respect: Hearts that Cherish One Another

Organizations that have cultivated a culture of respect honor the uniqueness and diversity of each individual by first embracing self-respect and then valuing one another. At Hansol, we are committed to providing fair opportunities for all our members to showcase their capabilities and realize their potential.



Environmental Management System (EMS)

Hansol Group ensures compliance with environmental laws at all business sites through an internationally standardized environmental management system (EMS). Each affiliate implements tailored environmental management, including afforestation and renewable energy businesses. Moreover, we prioritize continuous R&D on eco-friendly products for a safer environment and people.

Environmental management

Hansol Group has established an ESG indicator management system, centered on the group's holding company, Hansol Holdings, to efficiently and systematically manage ESG data across all affiliates. Environmental goals are planned by the Environmental Management Promotion Committee, involving major departments and the communication team. All affiliates communicate and implement these goals, fostering active information-sharing among working-level employees. Using our ESG indicator management system, we continuously monitor environmental data, such as management system certification, climate change responses, GHG emissions, energy- and water-consumption, and pollutant and waste management. This approach helps us assess targets and improve environmental management effectively.

Hansol Holdings' Environmental Policies

Efficient Resource-Use and Environmental Protection

We take the lead in environmental protection by preventing environmental pollution through efficient use of resources and energy and minimization of waste.

EMS Operation and Continuous Improvement

All our employees are aware of our environmental policy and participate in setting goals and taking action to consistently improve our environmental performance. We continuously upgrade our EMS through revisions for further enhancement.

Communication with Stakeholders and Compliance Obligations

We maintain active communication with stakeholders, regularly reviewing our environmental goals and directions. We inform stakeholders of the environmental requirements and management standards that align with their needs, thereby ensuring compliance.

Transparent Environmental Management Practices

We disclose our environmental policy and information on environmental management to encourage stakeholders to actively join the company's efforts. We also adhere to transparent environmental management practices.

Affiliates equipped with ISO 14001 certification, the international environmental management system

19 business sites

Hansol Paper, Hansol PaperTech, Hansol PNS, Hansol Technics, Hansol IONES, Hansol Logistics, Hansol HomeDeco, Hansol Chemical, Tapex (Refer to "Affiliates with Certifications" on p. 118.)

Human Rights in Business

Hansol Group has enacted a policy to protect and promote the human rights of all stakeholders, including executives and employees, in accordance with Article 25, Paragraph 2 of the National Human Rights Commission Act. We have also published the Human Rights Management Guidelines, which detail the necessary steps for implementation. Aligned with international human rights standards and regulations like the Universal Declaration of Human Rights, and the Declaration of Fundamental Principles and Rights at Work, we prioritize the dignity and value of every individual. We ensure a non-discriminatory working environment, strictly prohibit forced labor and child labor, and prioritize industrial safety and environmental rights.

22

Hansol Holdings' Human Rights Management Guidelines:

With the expanding impact of corporations on society and the environment, the responsibility to uphold human rights has become an important societal trend. In line with the UNGC's principle that states, "Businesses should support and respect the protection of internationally proclaimed human rights," Hansol Group proactively prevents labor rights violations.

In May 2022, Hansol Holdings introduced comprehensive human rights management guidelines, thoroughly educating staffs and disseminating it throughout the group. These guidelines encompass standards for human rights violations, response procedures, prevention programs, and representative cases of violations. They also provide a clear reporting mechanism for Hansol Holdings' employees and stakeholders who may encounter human rights violations.

Guidelines on Human Rights in Business:

Human Rights Statement

At Hansol, we are committed to upholding human dignity and value in all our business activities. Both our executives and employees embody this declaration as the guiding code of conduct for human rights management and the standard for making value judgments.

Human Rights Manager

- Hansol shall appoint a human rights manager to systematically implement regulatory procedures and education to promote human rights in business.
- 2. The duties and responsibilities of the human rights manager include:
 - Overseeing the establishment and execution of human rights plans;
 - Managing human rights education initiatives;
 - Addressing remedies for any instances of human rights violations; and
 - Deliberating on other relevant matters related to human rights management, as necessary.

Human Rights Education

To promote awareness of human rights, regular human rights-related education shall be conducted at least once a year for all executives and employees at a time and in a manner that is deemed most appropriate.

Human Rights Activities and Support

Hansol is dedicated to advocating human rights protection and promoting their values. As part of this commitment, it may extend support to human rights-related organizations, entities, and stakeholders.

Compliance Management

The growing social demand for companies to follow the law and take responsibility for their management activities is becoming increasingly prominent. Compliance management is seen as the most basic requirement in ESG management for businesses. Recognizing its growing importance, Hansol evaluated compliance management at the group level in 2022, aiming to enhance systematization and address vulnerabilities within each affiliate.

Compliance Management Assessment

Since 2021, Hansol Group has been conducting compliance-management assessments. In 2022, the compliance-management status of Hansol Paper, Hansol Technics, Hansol HomeDeco, Hansol Logistics, Hansol PNS, and Hansol Inticube was diagnosed in five aspects: leadership, planning, execution support, internal audit, and follow-up response. The overall level of compliance management for the six companies averaged 3.8 points (out of 5 points), showing a 0.4-point increase from the previous year. The compliance management assessment helped spread awareness and commitment to compliance throughout the Hansol Group. Using the assessment results, the six companies will strengthen the group's compliance-management procedures, focusing on a compliance-management management system and enhancing field operations' execution power.

Average Compliance-Management Level within the Group

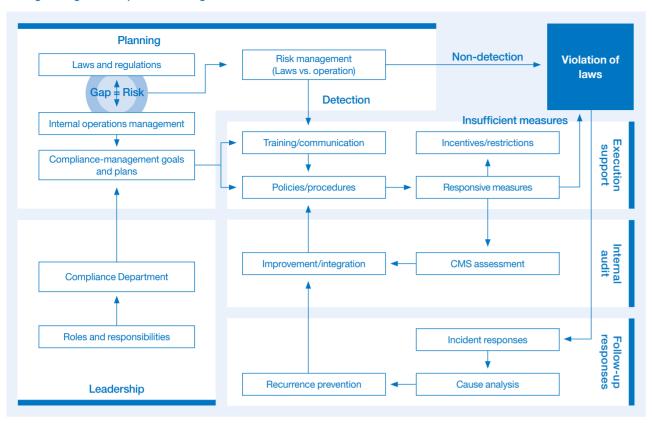


Strengthening the Compliance-Management Process

The six affiliates — Hansol Paper, Hansol Technics, Hansol HomeDeco, Hansol Logistics, Hansol PNS, and Hansol Inticube — have promptly selected compliance-management tasks, prioritizing areas that require immediate attention.

Strengthening the Compliance-Management Process for All Affiliates

24



Hansol Paper **Hansol Technics** Hansol HomeDeco - Enhancing the purchasing process - Proactive identifications of risks - Implementing and managing an inassociated with violations of the through the design and pilot operaternal compliance audit process to tion of subcontracting risk manage-Personal Information Protection enhance pre-identification of risks. Act and the Unfair Competition and ment. Trade Secret Protection Act (UCPA) through the design and enhancement of personal and business information management processes. - Designing management processes for the initial identification of hazardous-chemical handling risks. **Hansol Logistics** Paper Distribution Division, IT Service Division, Hansol PNS / **Hasol PNS** Hansol Inticube - Enhancing transparency and miti-- Identifying risk factors and es-- Implementing industry-specific gating subcontracting and fair trade tablishing management plans to laws and regulations compliance prevent safety accidents in new guide and enhancing major risk risks through the augmentation of the transportation and subcontractrelocation centers. pre-identification and response ing company selection process. capabilities through training.

Occupational Safety and Health

Hansol Group's commitment to safety and health management is encapsulated in the phrase "no work needs to be done when one is injured." To address legal and regulatory risks and foster a safety culture as a reliable company, Hansol introduced the Hansol Safety Rating System (HSRS), which is the company's own safety and health work standards and evaluation system, optimizing the International Safety Rating System (ISRS) by aligning it with the company's unique business characteristics.

Introduced the Evaluation System for HSRS Safety and Health Management

In 2019, Hansol first implemented the ISRS to assess safety management and completed the verification of its effectiveness in 2020, followed by a second performance evaluation in 2021. Through this, we have improved the work system essential for fundamental safety management response and successfully nurtured safety management personnel. In 2022, we introduced the HSRS, an evaluation system tailored to Hansol's business characteristics.

HSRS Assessment Levels

Category	Level	Description	Compared to the ISRS
L5	Proactive (80 points or higher)	Field members voluntarily recognize the organization's strengths and weaknesses and make continuous improvements.	L7
L4	Preventive (60~80 points)	A system for core process control is in place and members are engaged and motivated under the leadership's encouragement.	L 5~6
L3	Directive (50~60 points)	A system for major risk control has been introduced, and members participate in a passive manner under the leadership's guidance.	L 4~5
L2	Reactive (40~50 points)	Key processes for loss prevention are not identified, and changes are only sought after an incident occurs.	L 2~3
L1	Negligent (Below 40 points)	There is no recognition of the need for a safety system and members are not invested in improving safety.	L 1~2

HSRS Process Evaluation Areas



Business Sites that Utilize the HSRS Assessment

9

Four business sites and Environmental Business Group of Hansol Paper, Hansol HomeDeco, Hansol PaperTech, Hansol Logistics, and Hansol Technics

HANSOL FOCUS ISSUES

ISSUE

1

Development of Green Products and Technologies

BACKGROUND

The global adoption of carbon tax and the activation of the carbon-trading market are driving efforts toward achieving carbon neutrality. In Korea, various entities, including the government, businesses, and the local communities, are working toward the goal of becoming carbon neutral by 2050. On the business front, the focus is on leveraging capabilities for product and technological innovation to transform climate change risks into opportunities.

OUR APPROACH

Hansol is actively developing green materials and resource recycling technology across its business areas to minimize environmental impact. By promoting environmental values and encouraging stakeholders to embrace carbon neutrality, the company is achieving sustainable growth in its corporate ecosystem.

MANAGEMENT BRIEFING

Oh Sang-won, Group Leader of Eco Packaging Team, Hansol Paper

With the strengthening of corporate ESG management, the demand for eco-friendly packaging is expected to rise. As consumers embrace green consumption and prioritize environmental values, the eco-friendly packaging sector holds promising potential. Hansol Paper aims to continually expand its range of sustainable products as alternatives to plastic, catering to the eco-friendly needs of both corporate customers and consumers. For instance, for the food and beverage industry, we are developing a diverse range of eco-friendly paper containers to replace plastic-based ones. Additionally, the eco-friendly and flexible packaging paper, Protego, is set to undergo horizontal expansion by exploring new applications based on existing product references.

OUR PERFORMANCE

Development of Green Products

Hansol Paper

Hansol Paper is actively embracing the eco-friendly trend by developing innovative application technologies to advance nano-cellulose manufacturing (product name: Duracle) as a cutting-edge eco-friendly material and expanding its usage. We offer eco-friendly packaging alternatives like Terravas, water-based barrier-coated paper containers, and Protego, an eco-friendly and flexible packaging paper, to reduce plastic usage in the market, supporting environmental sustainability and promoting eco-friendly applications in materials. Notably, Protego has earned prestigious recognition — receiving the Asia Star Awards 2020 from the Asian Packaging Federation; the Minister of Trade, Industry, and Energy Award at the Korea Packaging Competition; and the esteemed 2021 World Star Packaging Award by the World Packaging Organization (WPO).

Hansol HomeDeco

Our commitment to providing trustworthy products to consumers includes obtaining credible eco-friendly product certifications. We are exploring the development of low-carbon products and working on establishing our eco-friendly product standards. In December 2022, our flagship product, SB Maru Ultra Steel, received the Low Carbon Product Environmental Product Declaration Certificate from the Korea Environmental Industry and Technology Institute. Going forward, we will monitor low-carbon product management plans, sales, and GHG reduction data to further enhance our eco-friendly initiatives.

Hansol Technics

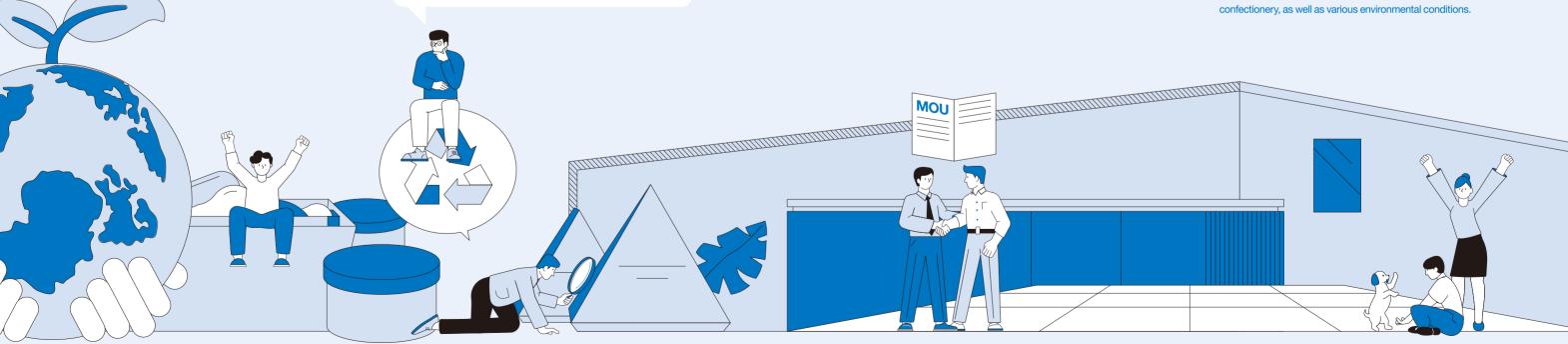
Hansol Technics develops and delivers highly reliable and competitive solar modules that meet KS certification and the carbon verification system. Our range of solar products includes media PV, high-output solar modules, and water-type solar modules, all certified under KS for the first time in Korea. Media PV combines solar modules and LED media, allowing them to generate solar power during the day and function as LED media at night with a maximum output of 470 watts (W). These modules can be easily installed on buildings and structures, making them ideal for use in zero-energy buildings. With twice the resolution of the previous model, these solar modules are ideal for landscape lighting and road noise barriers in confined spaces. With the adoption of these solar modules, we have taken a significant step toward achieving RE100 by generating energy from renewable sources.

MOU for Sustainable Packaging Development

Hansol Paper

Since 2020, Hansol Paper has signed MOUs with 10 leading domestic companies in various sectors including cosmetics, food, pharmaceuticals, confectionery, coffee franchises, health supplements, etc. to strengthen ESG management and promote sustainable packaging solutions. These companies are committed to adopting eco-friendly packaging to enhance their long-term corporate value and achieve sustainable management. They also possess strong research capabilities and experience in this area. Leveraging Hansol Paper's expertise in developing eco-friendly paper materials, the collaboration has resulted in the successful implementation of eco-friendly packaging with complex requirements. Through technological exchanges, both parties gained valuable know-how and technologies applicable to diverse industries like cosmetics, food, and confectionery, as well as various environmental conditions.

27



2

Safety and Health Management

> SPEED LIMIT 20

BACKGROUND

The heightened social awareness of safety and health accidents has increased vigilance and interest in prevention. Since the implementation of the Serious Accidents Punishment Act on January 27, 2022, a crucial emphasis was placed on management personnel on prioritizing safety and health obligations. Therefore, industrial sites must allocate budgets, create manuals, and conduct inspections to address major industrial accidents and ensure worker health and safety.

OUR APPROACH

To establish a safety management system, Hansol Group introduced the International Sustainability Rating System (ISRS) in 2019. We have further strengthened our safety and health management by adopting the HSRS (Hansol Safety Rating System), customized to our business characteristics — based on effectiveness verification and performance measurement. With these initiatives, our aim is to reinforce and strengthen Hansol's safety culture.

MANAGEMENT BRIEFING

Hansol Technics Yeon Je-jin (Team Leader of Safety Support Team), Lee Chung-hwa (Manager in Safety Management Team)

Hansol Technics prioritizes safety and health activities that involve direct participation by supervisors and workers. First, we identify near-miss accidents and potential risks through worker input and conduct 5S activities to eliminate risk factors. Secondly, we engage in safety, health, and firefighting slogan contests. Lastly, we place A QR code at the workplace entrances and exits, allowing all personnel to easily submit safety and health concerns and suggestions. The CEO recognizes and rewards employees participating in these activities during the monthly EHS Day.

Moreover, Hansol Technics looks to industry leaders like Samsung Electronics for safety and health best practices. By benchmarking their inspection processes for 22 key areas, we selected 15 themes most relevant to our business and carry out regular intensive inspections. The insights gained from monitoring major EHS trends are integrated into our work processes to bolster safety measures. Additionally, the sharing of significant incidents by the Ministry of Labor helps raise safety awareness among our employees.

OUR PERFORMANCE

Establishing a Safety Rating System

Hansol Holdings

To enhance safety and health evaluation efficiency and establish a field-oriented management system, Hansol Group embarked on its ISRS journey in 2019, validated its effectiveness in 2020, and completed the second performance measurement in 2021. Then in 2022, the Hansol Safety Rating System (HSRS) was developed, reflecting the unique business characteristics. The HSRS not only verified the field performance but also bolstered compliance with domestic laws and regulations. In 2022, the effectiveness of the HSRS was affirmed through evaluation by a certified safety and health professional institute, driving the establishment of an advanced IT-based integrated safety system to enhance field work efficiency. Currently, the HSRS is implemented across nine business sites, encompassing Hansol HomeDeco, Hansol PaperTech, Hansol Logistics, and Hansol Technics, alongside the four sites of Hansol Paper and the Environmental Business Headquarters. The ultimate goal is for all business sites to achieve and sustain Level 5 in the HSRS, thereby fortifying a robust safety and health practice system throughout the entire group.

2 Obtaining S-Grade in Process Safety Management System

Tapex

Process Safety Management (PSM) is a vital system implemented to avert severe industrial accidents resulting from hazardous substance leakage, fires, or explosions in workplaces and nearby areas. It applies to seven industries that deal with hazardous or dangerous facilities prescribed by Presidential Decree, and equipment and related process facilities that manufacture, handle, and store one or more of 51 hazardous substances in excess of the prescribed amount. In August 2022, Tapex achieved a significant milestone with the Yanggam Factory obtaining an S (Good) grade in the new evaluation. This reflects the company's dedication to strengthening the workplace safety management system and compliance with the Serious Accidents Punishment Act. The achievement further bolstered the company's credibility and standing in safety management, solidified safety and health standards, and established a periodic education and training system. Moreover, in 2022, Tapex expanded the safety campaign to include partners, specifically in-house subcontractors. A substantial investment of KRW 814 million was allocated to safety and health-related facilities, marking a 52% increase compared to the previous year's KRW 535 million.

Acquisition of Safety and Health Management Certification and SMT Activities

Hansol Paper

The Daejeon and Janghang plants of Hansol Paper hold the ISO 45001 and KOSHA-MS certifications. Additionally, the company implements the Safety Management Tour (SMT) and Care Observe Change (COC) activities across all business sites and partner companies across all business sites under the supervision of the CEO and CSO. Through SMT, the company helps boost employee motivation and participation, identifies issues through discussions, and establishes action plans with implementation strategies for tracking and management. The progress and effectiveness of plan execution, actions taken, and their appropriateness are continuously monitored and evaluated.







30

Customer-Satisfaction and Product Responsibility

BACKGROUND

Customer-centered management entails identifying customer needs through their feedback and even providing solutions to unidentified problems. Businesses endeavors to capitalize on this approach to generate new possibilities. Thus, systematic data analysis and discovering insight are essential for gaining competitiveness in the global market.

OUR APPROACH

Hansol Group enhances its ability to understand voice of the customer (VOC) and true needs, crafting strategies to secure a unique competitive advantage and achieve remarkable outcomes. By doing so, we aim to deliver maximum value and foster mutual growth with our customers. To facilitate this customer analysis, we employ diverse diagnostic and measurement systems and systematize strategy implementation, process management, and performance creation at all stages.

MANAGEMENT BRIEFING

Kang Gil-jae, Senior Manager in Marketing Team at Hansol Paper

Since 1997, Hansol Paper has been conducting biannual Customer Satisfaction Index (CSI) surveys, gathering feedback on sales, quality, customer service, delivery, price, and brand image. In 2004, we expanded the surveys to include the export sector, transitioning it into an annual assessment. Furthermore, in 2010, we introduced the Net Promoter Score (NPS) in parallel with the CSI. As of 2020, we have embraced the digital age by shifting the domestic sector survey online. prioritizing customer convenience and responsiveness to changing trends. Through the survey, we gain clear insights into areas of customer dissatisfaction and non-recommendation, which enables us to craft tailored improvement plans that

OUR PERFORMANCE

Hansol Group Hosts Innovation Olympics

Hansol Holdings

Hansol Holdings organizes the annual Innovation Olympics for all its affiliates. This event comprehensively assesses each affiliate's execution of various tasks over the year, recognizing and encouraging the achievements that have led to meaningful results. Since 2013, the Innovation Olympics has been a driving force behind Hansol's continuous growth, promoting a spirit of relentless innovation among its people. Originally initiated for major affiliates, it has expanded across the entire group in 2014. The latest event took place on December 16, 2022. At Hansol, innovation involves systematically executing key initiatives derived from portfolio and mid-term strategies and setting clear targets. Our aim is to institutionalize this systematic problem-solving method as a fundamental approach to our work culture and behavior. The innovation-promotion system acknowledges the challenges associated with these tasks, and supports and motivates task leaders to overcome obstacles effectivelv.

Achieving KRW 500 Billion in Global Sales

Hansol Logistics

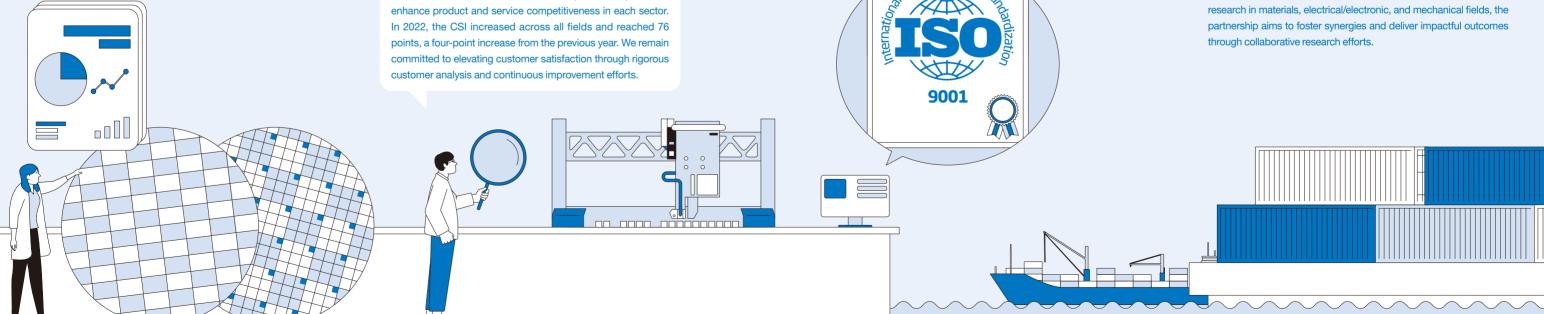
Hansol Logistics is thriving globally, especially in the secondary battery industry in Asia. To ensure sustainable growth, the company is now strategically targeting the European market, capitalizing on its strengths in secondary battery operations. As a result, we achieved a major milestone by securing a long-term contract with company S. a new entrant in Europe, and obtaining a new facility transportation order from company H, a local secondary battery manufacturer. This success was recognized with the Gold Medal at the Innovation Olympics. In the Asian market, especially China, we are a leading secondary battery logistics specialist, serving major manufacturers and suppliers and establishing a strong presence in the global supply chain for electric vehicle production. To dominate the electric vehicle parts logistics market, including secondary batteries, we're expanding our global presence with new bases in Poland and the eastern United States, solidifying our position as a top global leader in EV supply chain services.

Hansol Group-KAIST New Technology **Development Business Agreement**

Hansol holdings

Hansol Group and KAIST join forces for customer-centric technology development in materials, parts, and equipment. The main focus of this collaboration is the establishment of the KAIST-Hansol Materials & Parts Innovation Research Center with an annual budget of KRW 500 million, effective until August 31, 2025. The joint research center will bring together key Hansol Group affiliates, including Hansol Paper, Hansol Technics, and Hansol IONES, alongside researchers from KAIST specializing in materials and Al. Drawing on Hansol's extensive manufacturing expertise since 1965 and KAIST's cutting-edge through collaborative research efforts.





2023 Hansol Group Sustainability Report Sustainability Essentials Introduction Hansol Sustainability Action Appendix 31

32

Supply-Chain **Management**

BACKGROUND

Pursuing short-term profit maximization by conglomerates and SMEs can weaken the establishment for SMEs' survival and threaten the corporate ecosystem. Additionally, with the EU Directive on Corporate Sustainability Due Diligence coming into effect in 2024. Korean companies reliant on exports will face supply-chain due diligence requirements. As a result, supply-chain management has become essential for ensuring sustainable global competitiveness.

OUR APPROACH

Hansol Group actively establishes and effectively manages a shared growth system with its suppliers. We prioritize fair and transparent evaluations to manage supplier risks and engage in various activities, including safety and health consulting and meetings, to educate suppliers and practice ESG management together.

MANAGEMENT BRIEFING

Park Yeong-soo, Senior Manager in Environmental Safety Team at Hansol HomeDeco

At Hansol HomeDeco, the safety and health of partner business sites is of utmost importance. Since 2012, we have actively participated in the Mutual Growth Partnership, forging business agreements to establish robust safety and health systems with our partners. Our goal is to consistently strengthen this system through cultivating an organic and cooperative relationships, instigating a change in mindset among partners' representatives, and inspiring their employees while enhancing the overall work environment. In light of the expanded scope of the Serious Accidents Punishment Act, which becomes ef-

OUR PERFORMANCE

Partner Mutual Growth Program

Hansol Paper

Hansol Paper prioritizes mutual growth with partners by enhancing ESG management capabilities and overall competitiveness in the supply chain, alongside cost and quality competitiveness. As a win-win partner, we engage in various cooperation and support activities to foster mutual growth with our suppliers. These initiatives include leadership support in technology cooperation and education, the operation of a KRW 6 billion win-win fund, assistance with 6 Sigma and Hansol cyber education, safety management support, environmental initiatives, and improved communication through meetings with representatives and working-level staff.

Safety and Health Management System Consultation for Partners

Hansol HomeDeco

In April 2023, Hansol HomeDeco initiated a safety and health management consultation for its partners, with a strong focus on risk assessment. The consulting program, which is aligned with the guidelines of the Korea Occupational Safety and Health Agency, aims to help seven Hansol HomeDeco partners mitigate safety risks and prevent accidents. The comprehensive consulting process involves visiting partner business sites five times over four months in 2023. Key elements of the consultation include risk identification, risk elimination and control, management leadership, worker participation, emergency procedures, subcontracting, and compation system in workplaces.

Mutual Cooperation Day for Partners

Hansol Technics

Hansol Technics places great importance on fair trade principles and processes, ensuring harmonious coexistence with its partners. As part of its shared-growth program, the company provides comprehensive management-support programs, including education, quality consulting, technology protection, and benefit sharing. Employees also benefit from welfare programs and longterm employee support. To foster mutual growth, Hansol Technics hosts the annual Mutual Cooperation Day. During this event, 15 mutual growth programs are introduced, the latest management trends are shared, and education sessions on various topics, such as the Extended Producer Responsibility (EPR) for recycling and SME technology protection support, are conducted. Additionally, future purchase strategies by the business division are disclosed and individual purchase consultations are provided to partner companies. In November 2022, this event saw the participation of 100 executives and employees from partner companies, with 10 partners engaging in individual purchase consultations.



2023 Hansol Group Sustainability Report Sustainability Essentials Introduction Hansol Sustainability Action **Appendix** 33

5

34

Ethics and Compliance Management

BACKGROUND

In today's responsible era, meeting legal and ethical standards is vital. Severe management crises can arise from non-compliant actions, dealing fatal blows to subsequent corporate operations.

OUR APPROACH

At Hansol Group, ethics and compliance management are our top priorities. We prioritize transparency by disclosing our management principles to external stakeholders, including suppliers, customers, and investors. Since 2021, we have been conducting a companywide assessment of compliance status, identifying improvement tasks, to strengthen our ethics- and compliance-management.

MANAGEMENT BRIEFING

Kim Jeong-un, Team Leader of Compliance Team at Hansol Holdings

Hansol Holdings has implemented a Compliance Risk Management System to ensure that all departments and employees adhere to the required laws during their work. Regular self-assessments are conducted to prevent any violations, and the results are monitored and managed by the Board of Directors and executives. Since 2021, we have been conducting annual compliance assessments across Hansol Group's affiliates, identifying areas for improvement. Hansol Paper, Hansol Technics, Hansol PNS, Hansol Inticube, Hansol Logistics, and Hansol HomeDeco implement strategies to strengthen their compliance-management systems and reduce the risk of violations and fraudulent acts. Hansol Group takes proactive measures to reduce the risk of law violations, fraud, and irregularities, implementing specific strategies for each company. Moreover, the group prioritizes creating a healthy organizational culture to drive continuous growth and development.



OUR PERFORMANCE

Conducting the Group's Compliance Assessment

Hansol Holdings

Hansol Holdings assesses compliance management in terms of leadership, planning, execution, support, internal audit, and improvement measures. To assess the level of each area in each affiliate, we conducted interviews from management to field personnel and analyzed relevant data. Based on the 2021 diagnosis results, we proceeded with tasks to strengthen the compliance-management system for each affiliate. After one year of implementation and comparing the results between 2021 and 2022, we found improvements in the planning, execution, and support areas. Hansol Holdings will implement ESG management by emphasizing practical task design, continuous management, and active communication for compliance across its companies' headquarters, business sites, and departments. This will expand awareness and consensus on compliance management throughout the group.

2 Establishing the ESG-Indicator Management System

Hansol Holdings

Hansol Holdings officially launched the ESG-Indicator Management System to systematically and efficiently oversee non-financial performance across the company and its affiliates. The system incorporates around 300 indicators, allowing for preemptive responses to both domestic and international ESG disclosures. Detailed guidance is provided to ESG personnel, who facilitate accurate and systematic management of these indicators. The system emphasizes environmental data management, which was challenging for some affiliates. To address this, Hansol Holdings collaborated with the Korean Standards Association to establish precise measurement guidelines. Hansol's commitment extends to advancing the overall ESG management of the Hansol Group.

The Group's Risk-Management System Assessment

In 2022, Hansol Group conducted a comprehensive risk assessment of all affiliates to evaluate the status of financial and non-financial risk management. Financial risk assessments covered markets, customers, equity investments, project orders, exchange rates, interest rates, liquidity, taxes, and credit ratings. Non-financial risk evaluation included compliance areas (environment, safety, and compliance), operational areas (information security, personnel/labor, and supply chain), and external communication areas (crisis response, brand value, and investor relations). To ensure sustainable management across all affiliates, regular risk inspections will be conducted every January, allowing for proactive risk mitigation and comprehensive oversight.



Hansol swiftly embraced the evolving landscape, venturing into critical energy and semiconductor industries. Our focus on customer feedback has driven enhanced competitiveness. Our commitment to innovation shapes a brighter future.



Hansol Sustainability Action -

- 38 Consumer | Management for customer satisfaction
- Environment | Product development considering the environment and climate strategies
- 60 Social | Sustainable growth for all
 - 2 Governance | Transparent governance and shareholder-friendly management

CONSUMER

Management for Customer Satisfaction

Hansol Group takes the lead in the market by persistently innovating products with distinctive technology and reliable production capacity. Our focus on enhancing core competencies and seizing future business prospects drives us to restructure and engage in mergers and acquisitions to adapt to evolving business landscapes.

For the Sustainability

38

Hansol Group prioritizes sustainability management as the core of corporate operations, integrating it with product and service development. We focus on improving product- quality and identifying future growth opportunities, especially in core technologies for secondary batteries and semiconductors. Through mergers and acquisitions, we integrate ESG values into our business strategies. Notably, Tapex's flagship product, functional tape for secondary batteries, has witnessed increased sales and global reach due to the growing popularity of eco-friendly electric vehicles. As a response, we have expanded quality management system certifications and business areas. Moreover, Hansol Technics' acquisition of IONES, a specialist in semiconductor equipment parts manufacturing and cleaning/coating, further reinforces our commitment to growth and innovation.

Hansol Holdings hosts the annual Innovation Olympics for all affiliates, showcasing the "Hansol people's tireless spirit of challenge for innovation" to boost our group's differentiated competitiveness. Additionally, Hansol V Frontiers, a program by Hansol Holdings to nurture promising startups, has enabled 15 companies across three cycles to increase their corporate value by an average of six-fold. To enhance the marketing of competitive products, Hansol Paper, Hansol Technics, and Hansol HomeDeco actively engage in diverse energy and green expo events, forging closer connections with consumers.

Key Sustainability Issues

Key Performance

Market Expansion and Diversification

Halsol Logistics expanded a global business based on secondary battery logistics and achieved sales of

KRW 1 trillion

- Hansol Technics entered the semiconductor industry with the acquisition of IONES
- Hansol HomeDeco developed a business strategy for Vietnam
- Hansol Holdings launched the startup development program, "Hansol V Frontiers."
- Hansol PNS launched an online mall "Grooup" for paper distribution
- Hansol PNS continued to promote open innovation in the IT service sector

2 Customer Satisfaction and Marketing Excellence Seven affiliates obtained international certification

ISO 900°

Hansol Paper, Hansol Technics, Hansol IONES, Hansol Logistics, Hansol HomeDeco, Hansol Chemical, Tapex

- Hansol Paper, Hansol Technics, and Hansol HomeDeco participated in domestic and international exhibitions
- Hansol Paper entered business agreement with ten green packaging companies
- Hansol IONES achieved a 60% higher customer rating in the AGS Score (as of March 2023)

B Digital Transformation

Hansol PNS applied 100% of smart factory safety management solutions

6 affiliates

- Hansol Inticube accelerated the AICC project with a global AI platform, Kore.ai
- Hansol Logistics established digital truck transportation system through a subsidiary, Logismile

1. Market Expansion and Diversification

Introducing a Smart Online Paper Mall, "Grooup"

40



Paper Distribution Division, Hasol PNS

Grooup (www.grooup.co.kr) is an online paper mall that has been developed with a strong focus on meeting customer needs and preferences. It offers a wide range of papers, including Hansol Paper. At Grooup, customer convenience is a top priority with features like the advanced search function for easy product search, real-time delivery updates through SNS notifications, and a cart reorder feature for streamlined repurchases. To cater to individual preferences, Grooup has partnered with a PG company to offer a variety of payment methods. Grooup regularly updates its platform based on customer feedback to enhance functionality and user experience.

Securing New Growth Engines by Building a Global Network

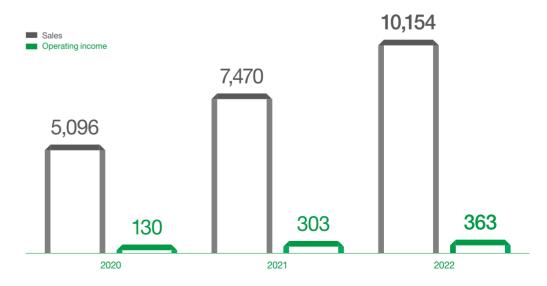


Hansol Logistics

Hansol Logistics has built 19 logistics networks in seven countries, focusing on secondary batteries to strengthen its competitiveness in industries like electronics, chemicals, and automobile parts. The company's customer spectrum now includes both large global firms and medium-sized manufacturers, especially in the booming electric vehicle (EV) market. Hansol Logistics has become a dominant player in the Asian secondary battery logistics market, serving major manufacturers and vendors, especially in China, with over ten years of successful operation. Additionally, the company has strategically expanded into the thriving EV market by establishing new bases in Poland, the United States, and India to boost its EV parts logistics business, including secondary batteries. This successful approach led to Hansol Logistics achieving a record-breaking KRW 1 trillion in sales in 2022.

Hansol Logistics' Profit Trend through Diversification of Global Customers

(Unit: KRW 100 million, consolidated basis)



41

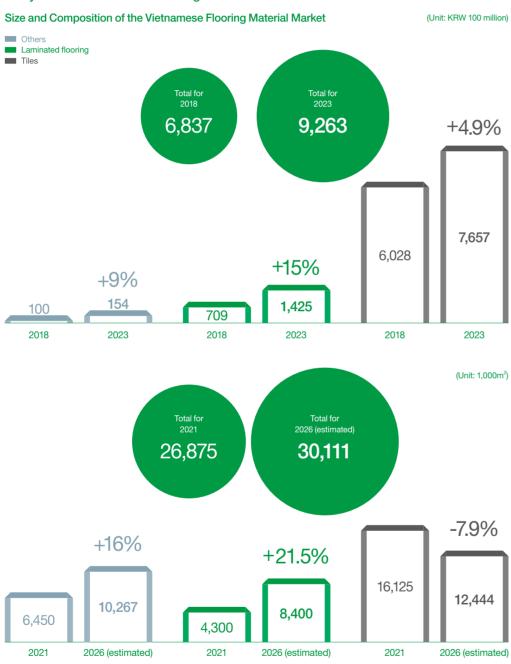
Vietnam Market Consulting and Strategy Development

42

Hansol HomeDeco

Hansol HomeDeco conducted a comprehensive market analysis in Vietnam, which is emerging as a rapidly growing market. The strategic consulting is aimed to expand performance possibilities for laminate flooring in the Vietnamese market, identify growth potential, and establish a strategic direction for overseas exports from the Hansol Vietnam base. The analysis revealed long-term growth potential in the Vietnamese market, particularly in high-end buildings, and highlighted opportunities for exports from Vietnam to the United States. This insight provided a clear direction for future business opportunities.

Analysis of the Vietnamese Flooring Material Market



Venturing into Semiconductors and Advancing in LiDAR Sensor Investments

Hansol Technics

In January 2022, Hansol Technics strategically entered the semiconductor industry by acquiring IONES, a company specializing in semiconductor parts processing, cleaning, and coating. The acquisition amounted to KRW 127.5 billion, securing 34.47% of the shares to gain management control. This was intended to strengthen the profit structure and tap into the high-growth and high-value semiconductor industry. Additionally, in May 2022, the company invested in SOS LAB, a leading LiDAR sensor specialist with global competitiveness. This investment grants priority access to SOS LAB's mass-production and opens new possibilities for joint product development to internalize LiDAR technology and pursue ODM roles in the future.

Hansol Holdings

Hansol V Frontiers is an open innovation program operated by accelerator Blue Point Partners and Hansol Group since 2020. In September 2022, the 3rd cycle was successfully completed, and in 2023, the 4th cycle will be operated. Open innovation refers to the innovative strategy that allows businesses to outsource technology, ideas, and services to create value. As part of Hansol Holdings' corporate responsibility and ESG commitment, Hansol V Frontiers aims to foster a robust industrial ecosystem by supporting promising startups. The participating startups from the 1st to the 3rd cycles experienced remarkable growth, with their value increasing approximately six-fold as of December 2022, amounting to a total of KRW 99.55 billion. Notably, all five teams selected for the 3rd cycle successfully attracted follow-up investment.

Successful Implementation of PoC with Startups

IT Service Division, Hansol PNS

Hansol PNS's IT Service Division also embraces open innovation to enhance the value chain and cultivate a various collaboration ecosystem. In 2022, Hansol hosted a contest in collaboration with startup incubators like the Incheon Center for Creative Economy & Innovation and SeongNam Industry Promotion Agency. The result was the emergence of two successful startups in big data, Al, and MSA. The PoCs with these startups were successful and their solutions were validated through field testing. Building on these accomplishments, the division aims to further improve and expand its endeavors in 2023 by establishing cooperative relationships with venture capitalists (VCs) and accelerators (ACs) with various startup portfolios. Through open innovation, Hansol PNS seeks to share technology with external institutions and startups, fostering a customer-oriented approach and enhancing service competitiveness.

2. Customer Satisfaction and Marketing Excellence

Quality-Management System Certification

Hansol Paper, Hansol HomeDeco, Hansol Technics, Hansol IONES, Hansol Logistics, Hansol Chemical, Tapex

Hansol Paper operates an integrated marketing system (Enterprise Resource Planning) that connects overseas marketing bases with production, distribution, and sales both domestically and internationally. We ensure quality throughout the entire product distribution process and have acquired ISO 9001 certification through strict quality-control, from production to delivery.

To remain responsive to customer needs and market dynamics, we consistently monitor and stay updated on international quality standards, ensuring our certification status. Additionally, we have established a standardized quality-control process for consistent quality across domestic and overseas products in accordance with the ISO 9001 certification. All certifications are subject to annual evaluation and renewed every three years.

Automotive Quality-Management System Certification

44

Tapex

Tapex's flagship product — functional tape for secondary batteries — has seen increased sales and global reach due to the growing popularity of eco-friendly electric vehicles. As a response, we have expanded quality management system certification for automotive, IATF 16949, to all business sites that produce the functional tape for secondary batteries. IATF 16949 is a globally recognized standard co-established by the International Automobile Task Force (IATF) and the International Organization for Standardization (ISO) to unify automotive quality-management systems across the supply chain, thereby ensuring standardized and authenticated quality practices. Certification validates the automotive company's robust quality management system for promotion of continual improvement in defect prevention and waste reduction. The Yanggam Plant of Tapex obtained this certification in September 2022, and the Hwaseong Plant acquired it in 2016.

Quality-Certification Status of Major Affiliates

Affiliates	Business Sites	Certification
Hansol Paper	Hansol Paper Daejeon · Janghang · Shintanjin · Cheonan Plants	
Hansol HomeDeco	Seoul Headquarters, Iksan Plant	ISO 9001
Hansol Technics	Jincheon · Ochang Plants	ISO 9001
Hansol IONES	Anseong Head Office, Baran Plant	ISO 9001, AS 9100
Hansol Logistics	Headquarters	ISO 9001
Hansol Chemical	Jeonju · Ulsan Plants	ISO 9001
Тарех	Yanggam · Hwaseong · Uniwrap Plants	ISO 9001, IATF 16949 (Automotive quality management system, Yanggam and Hwaseong Plants)

Improving the Customer-Satisfaction Index

Hansol Paper and Hansol IONES

Hansol Paper conducts annual customer satisfaction surveys around August-September. The survey is divided by sector (printing paper, industrial paper, and special paper), to comply with the ISO 9001 requirements. The surveys help identify customer needs and facilitate immediate improvement activities. Despite price increases and reduced services in 2022, customer-satisfaction increased across all categories, reaching a score of 76, which was a four-point rise from the previous year.

Hansol IONES excels in customer satisfaction through prompt and accurate responses. According to the AGS Score published by Applied Materials, a leading company in the global semiconductor equipment industry, the customer's satisfaction index related to delivery performance for Hansol IONES significantly improved from 43 points in 2022 to 69 points as of March 2023, representing a remarkable 60% increase compared to the previous year.

Hansol Paper Customer Satisfaction Survey System

Step 01



Advancing Brand Image through Exhibition Engagements

Hansol Paper, Hansol Technics, and Hansol HomeDeco

Hansol Group actively participates in various expos and exhibitions to showcase high-quality new products, enhancing the brand value in both domestic and international markets.

Hansol Paper's exhibition engagements include prestigious events like the Chicago Label Expo in 2014, Brussels Label Expo in 2019, LUXE PACK Shanghai, and FESPA — drawing keen attention from designers and competitors. The participation helped solidify the company's position as a leading paper company. Additionally, Hansol Paper showcased its plastic-free, high-quality, green products to domestic customers at the Korea ESG Exhibition in November 2022.

Hansol HomeDeco participated in the 2023 Hotel Fair as an eco-friendly building materials and interior company, introducing a range of products with innovative construction methods that prioritize safety and sustainability. The "Web 3.0 hotel lounge & space trend" concept hall received high praise from hotel-related architecture and interior buyers. Additionally, it earned the Outstanding Space Award at the Seoul Living Design Fair, boosting its brand image externally. Hansol Technics participated as a platinum and official sponsor of the International Green Energy Expo from April 12 to 14, 2023. It showcased a range of solar products including media PV, high-output solar modules, and water-type solar modules, all certified under KS for the first time in Korea.



Hansol HomeDeco at the 2023 Hotel Fair

Establishing Green Packaging MOUs

46

Hansol Paper

Hansol Paper has signed MOUs with leading domestic companies in various sectors, including cosmetics, food, pharmaceuticals, confectionery, coffee franchises, and health functional foods for implementation of paper-based packaging materials. As it strengthens ESG management to build a sustainable future with its corporate customers, Hansol Paper is actively introducing eco-friendly paper packaging materials in various industries. This aims to encourage general consumers to practice environmental protection in their daily lives.

3. Digital Transformation

Smart Energy-Management System CoEMS

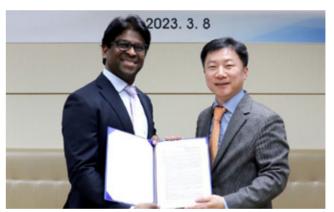
Hansol PNS

The Coever Energy-Management System (CoEMS) is Hansol PNS IT Service Division's smart energy management solution, focusing on efficient energy management and distribution to reduce GHG emissions and energy consumption in plants. This product facilitates customers in enhancing their ESG management through digitalization of the production process. Currently, it is utilized in Hansol HomeDeco's digital cluster business among affiliates and adopted by other manufacturers like Zian Wood and MS Chem Korea. The goal for 2023 is to advance ESG management in the manufacturing industry by expanding the smart factory business.

Accelerating AICC Business through MOU with Kore.ai, a Global AI Platform

Hansol Inticube

In March 2023, Hansol Inticube forged a strategic partnership with Kore.ai, a leading global interactive artificial intelligence platform. Kore.ai is renowned for providing conversational AI and digital UX technology to top Global 2,000 companies. Headquartered in Orlando, USA, Korea.ai was established in 2015 and has become the trusted provider of AI solutions to over a hundred Fortune 500 companies, including the top-four global banks. By utilizing Kore.ai's large language model (LLM) and generative AI technology, Hansol Inticube aims to enhance its conversational AI services, like ChatGPT, to significantly improve cost- and operational-efficiency, while eliminating manual work in creating conversation scenarios and learning natural language processing.



Ryu Chang-sung, CEO of Hansol Inticube, and Sreeni Unnamatla, Executive Vice President of APJ at Kore.ai

Becoming the
Top Digital
Trucking Freight
Forwarder with
Innovative IT
Technology
Application

Hansol Logistics

Logismile, a subsidiary of Hansol Logistics, has launched an app-based digital truck transportation system. Through the integration of digital trucking solutions with the company's nationwide direct dispatch service capabilities, it is enhancing its competitive edge in the trucking market. Having achieved successful digitization of the traditional truck transportation market through the Transportation Management System (TMS) and robotics technology, the company's focus has now shifted to integrating Al algorithms and other advanced solutions into the system.

ENVIRONMENT

Product
Development
Considering the
Environment and
Climate Strategies

In response to the urgent climate crisis, both domestic and foreign companies are striving to achieve carbon neutrality by 2050. Hansol Group is also joining this global effort by actively reducing greenhouse gas emissions, transitioning to new and renewable energy sources, and innovating eco-friendly technologies and products.

For the Sustainability

48

Hansol Group's market development and business expansion strategy revolve around eco-friendly technology development. By focusing on R&D efforts in eco-friendly technologies and products, the company aims to secure new growth engines for the future and achieve sustainable growth. The development of eco-friendly products by Hansol Paper and Hansol HomeDeco are central to this strategy. Additionally, the utilization of new and renewable energy by Hansol Technics and Tapex is gaining attention. With generous investments in eco-friendly R&D, Hansol is committed to leading the way in responding to climate change and creating a greener business ecosystem.

Key Sustainability Issues

Key Performance

Development of Eco-Friendly Technologies and Product Certifications Hansol Paper's eco-friendly certified product sales reached

KRW

1.4647trillion

- Hansol HomeDeco's green flooring and MDF products accounted for 30% of sales
- Hansol PNS developed paper made from 100%
- sugarcane
- Sales of Tapex's paper straws and multi-use cups increased by 22% and 120%, respectively
- Hansol Technics developed low-carbon products

2 GHG Emissions
Reduction and Energy
Conservation

Hansol HomeDeco's New Zealand Reforestation Project absorbs 149,000 tons of carbon dioxide per year

149,000_{tonnes}

- Hansol Chemical upgraded facilities for energy efficiency
- Hansol Technics cut GHG emissions through facility upgrades

Pollutant and Waste Management Halsol Chemical Ulsan Plant reduced wastewater discharge by

15%

- Hansol HomeDeco established a heavy-metal reduction facility for incinerator fly ashes
- Hansol PaperTech increased recycling of waste sludge

Global Initiatives& EnvironmentalManagementCertifications

For the Tapex Uniwrap Plant, acquired a new certificate,

ISO 14001

- Hansol Paper continued to adhere to the TCFD recommendations
- Hansol Paper named as a green company
- Hansol HomeDeco joined the UNGC
- Hansol IONES established the Environmental Council

1. Development of Eco-Friendly Technologies and Product Certifications

Expanding the Eco-Friendly Material Market for Duracle Hansol Paper's "Duracle" brand offers an eco-friendly solution containing nanocellulose and microfibril cellulose. This versatile material finds applications not only in batteries and paints but also in cosmetics, urethane foam, rubber, and packaging. Collaborating with leading companies in various industries, we are actively developing application technologies for Duracle material. With its benefits for carbon neutrality and circular economy, the market demand for this material is expected to make a significant impact. Furthermore, our environmentally certified products have been well-received in the market, including "Protego," eco-friendly paper packaging; "Terravas," nature-friendly containers; and the "Whale-saving Wet tissue," made from natural pulp and plant-derived rayon fabric without generating microplastics.

Green-Certified Products by Hansol Paper

Certification	Production Location	Paper Type	Product Name		
	Daejeon Plant	Industrial paper	Hi-Q AB Light, Hi-Q AB Premium, Hi-Q AB Plus, Hi-Q FSB, Hi-Q ACB, Hi-Q SC, Hi-Q FAB, etc.		
	Janghang Plant	Printing paper	Ensemble E Class, Cloud, colored wood free paper, new wood free paper, Hi Plus, premium paper for textbooks, fine coated paper, Hi-Q Duomatt, Hi-Q Millenium Art, etc.		
		Thermal paper	Green, Green HS, Green AFH, CL, EL, SL, HB, HL, PF, Pro, etc.		
FSC	Shintanjin Plant	Printing paper	Campus paper (S, J), New Classic, New Wood Free Paper, New Plus, Green Textbook Paper, Premium Textbook Paper, Hi-Q Matt Premium, Hi-Q Mystic, Hi-Q Semi-kraft, Hi-Q Duomatt, Hi-Q Millenium Art, etc		
		Thermal paper	Green HS, Green AFH, SL, EL, Slim, Green EL, Green HB, Green, CL, etc.		
	Cheonan Plant	Fancy paper	Fancy papers, green products, outsourced products, etc.		
		Thermal paper	Green, Pro, etc.		
		Inkjet paper	Inkjet sublimation papers		
UL ECV 2485	Cheonan Plant & Daejeon Plant		Protego S(EB Smart) 70g, Terravas Cup		
GR Certification (Good Recycled)	Shintanjin Plant		Green Textbook Paper		
Green Seal	Cheonan Plant		INSPER Smooth Shopping (E) PCW30 · 90		
	Janghang Plant		New Wood Free Blue, New Plus Blue, Hi-Duo Matt Blue		
Eco-label Certified Products	Cheonan Plant		INSPER Signature Eco, AHC Willow, INSPER Aloe, INSPER Magic Comma, Dr. G Cica Pape INSPER Eco		
	Shintanjin Plant		Hi-Q Millennium Art, Premium Textbook Paper Blue		





November 2022, Hansol Paper at the Korea ESG-ECO Expo (left), Hansol HomeDeco's eco-friendly SB flooring (right)

Green-Certified Products by Hansol HomeDeco

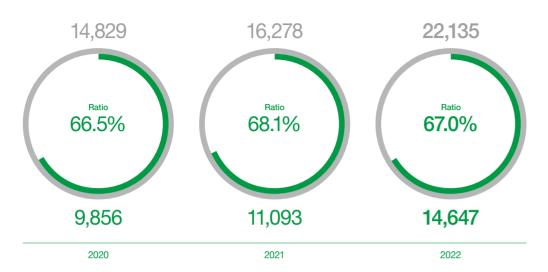
Certified Products	Certification	Product Description
E0 MDF 35	Eco-label	Constructed from selected wood waste recovered from construction sites (flexural strength of 35Mpa or more)
E0 MDF 30	Eco-label	Constructed from selected wood waste recovered from construction sites (flexural strength of 30Mpa or more)
SPB	Eco-label	Designed to replace particle boards with fiberboards, in line with the trend of increasing domestic imports of particle boards (flexural strength of 20Mpa or more)
Laminated flooring	Eco-label, HB mark	7.5mm-thick, E0 grade non-glued flooring produced by bonding LPL to HDF and reinforcing for durability
Ultra	Eco-label, HB mark, Low-carbon	7.5mm-thick, E0 grade flooring made by bonding HPL to plywood
Story Wall	Eco-label, HB mark	9mm-thick, E0 grade flame retardant wall made by bonding LPL to HDF
SB General (Edge/Stone)	Eco-label, HB mark, EPD	6mm-thick, SE0 grade flooring made by bonding PP to SB core that is resistant to water and moisture
SB HPL (Edge/Stone)	Eco-label, HB mark,	6mm-thick, SE0 grade flooring made by bonding HPL to SB core that is resistant to water and moisture
SB Embo	Eco-Label	6mm-thick, SE0 grade flooring made by bonding HPL to SB core that is resistant to water and moisture (texturized)
Ultra HPL	Eco-label, HB mark, Low-carbon	7.5mm-thick, SE0 grade flooring made by bonding HPL to SB core that is resistant to water and moisture
Well Stone	HB mark	Non-combustible product with excellent dimensional stability, water resistance and processability through the bonding of LPL to inorganic mineral wool material
Prium	HB mark	10mm-thick SE0 grade hardwood flooring, crafted with UV coating on plywood

Hansol Paper Eco-Friendly Product Sales

(Unit: KRW 100 million)

Sales of Eco-Friendly Products

52



Sales of eco-friendly products by each affiliate

(Unit: KRW 100 million)

Affiliates	Gree	n-Certified Produ	ıcts (As of 2023)	2020	2021	2022
Tapex	1 (Hanji oil absorbing pape_Eco-label)			2	2	2
Hansol HomeDeco	3; MDF 30, 35, and flooring products (20 models)			830	793	842
Hansol PaperTech	11; scratch paper and corrugated cardboard sheets including outer layers and flutes			814	1,014	1,237
	Cumulative total number of carbon-certified models: 188 Breakdown by carbon emissions level					
	Carbon level	Number of certifications	CO ₂ emissions			
Hansol		(ea.)	(kgCO ₂ /kW)	1,296	1,426	2,304
Technics	Level 1	42	Under 630	1,200	1,420	2,004
	Level 2	39	630~670			
	Level 3	24	670~730			
	Level 4	83	730 or above			

Development of Low-Carbon Products

Hansol Technics

Hansol Technics is dedicated to reducing greenhouse gas emissions through mid- to long-term plans. As of 2018, our GHG emissions amounted to 27,652 tCO2eq. With a goal of reducing emissions by 25% compared to 2018 levels by 2030, we are investing in high-efficiency energy facilities and equipment, introducing solar energy, and transforming our manufacturing processes to lower carbon emissions. Moreover, as part of our long-term vision, we are continuously researching and implementing measures to achieve carbon neutrality by 2050. We already have successfully developed low-carbon grade 1-3 products and have plans to continue providing green and sustainable solutions through ongoing product development and production.

Introducing
"Sugar
Pack": Paper
Packaging
Made 100%
from Sugar
Cane

Hansol PNS

Sugar Pack is a non-wood paper made 100% from sugar cane, thus ensuring no trees are cut down. The raw material, sugarcane, is one of the most cultivated crops worldwide, and the paper is made by recycling sugarcane by-products left over from the sugar manufacturing process. This eco-friendly product is free from harmful chemical treatment or artificial bleaching, making it a nature-friendly option for food packaging.

Expanding supply of paper straws and reusable cups

Tapex

Tapex's paper straws and reusable cups have gained significant popularity due to the government's regulations on plastic disposable products. With the plastic straw regulation in effect from November 2022, sales have risen by 22% in the same year. Additionally, the reusable cups, serving as an alternative to disposable ones, experienced a remarkable 120% sales increase, reaching KRW 800 million in 2022 compared to the previous year. These eco-friendly products have contributed to an estimated 145 tons of carbon reduction. Furthermore, to reinforce the company's commitment to sustainability, Tapex has joined the Habit Eco Alliance, collaborating with SK Telecom, SK Happiness Connect, Starbucks, and local governments in eco-friendly initiatives.

Implementing the lifecycle assessment of secondary battery tapes

Tapex

In a significant move toward environmental sustainability, Tapex has implemented Life Cycle Assessment (LCA) for its flagship products. LCA evaluates the environmental impact, particularly GHG emissions, throughout the entire lifecycle of a product. During the first half of 2022, a dedicated LCA Task Force team was established to assess the secondary battery tape used in battery production. Looking ahead, Tapex will expand the application of LCA to other products for global expansion.



2. GHG Emissions Reduction and Energy Conservation

Upgrading to high energyefficiency facility

Hansol Chemical

Hansol Chemical's Jeonju Plant implements multi-faceted improvement efforts to curtail power and steam consumption, amid expanding business operations that cause escalating energy-usage each year. Our recent initiatives involve replacing conventional lights and refrigerators with high-efficiency LED lights and refrigeration machines to reduce power consumption (approx. 2,700 MW), and optimizing flare stack operations, while recovering steam in the process to reduce steam consumption (approx. 5,000 tons). As a result, we not only achieve significant energy-savings, but also reduce greenhouse gas emissions.

Investing in carbonemission reduction facilities

Hansol Technics

Hansol Technics is taking proactive steps to reduce GHG emissions, starting with the replacement of an aging 200HP air compressor at the Jincheon Plant. The old compressor was replaced with a new 100HP compressor to prevent energy-losses resulting from reduced plant-operation rates and excess capacity. This investment is expected to yield annual energy savings of KRW 10.5 million. At the Ochang plant, the boiler was upgraded to a high-efficiency, low-NOx boiler, and the discharge method was changed to an individual discharge approach, thereby ensuring stable boiler operation. We improved energy efficiency by resolving issues related to pipe corrosion, ignition problems, and boiler temperature management caused by condensation resulting from the temperature drop (140℃→75℃).

New Zealand afforestation business and carbon-credit sales

54

Hansol HomeDeco

Since 1991, Hansol HomeDeco has been the pioneering Korean company in overseas afforestation, securing a stable source of wood resources. Since 1996, we have been involved in the afforestation business in New Zealand, annually absorbing 149,000 tCO₂ of carbon dioxide and generating profits through the carbon-credit business.

Increase use of recycled raw materials

World's No. 1 in use of recycled raw materials for MDF production

80%

Increase use of recycled raw materials to 100%

Reduce GHG emissions and energy consumption

Annual CO₂ reduction

2,000
t

Reduce power usage by 5% every year

Increase share of green products

Share of green products in total sales

30%

Expand recycled products in MDF and flooring

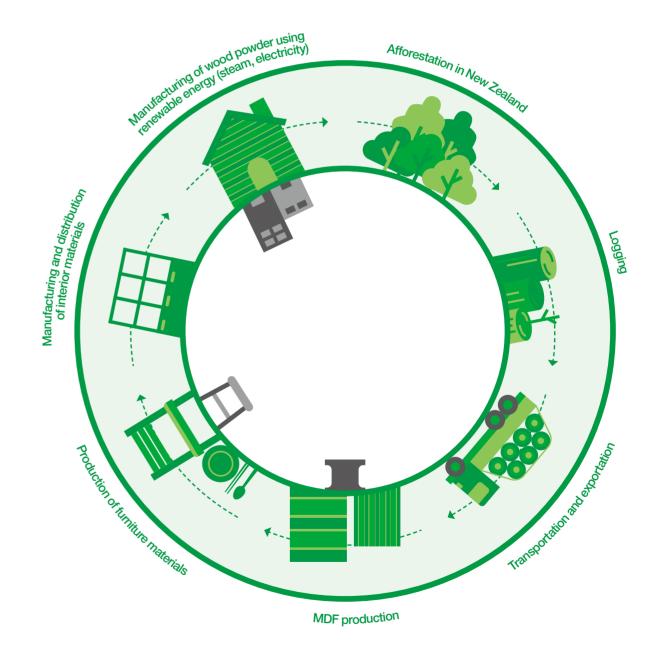
Overseas afforestation business and securing carbon credits

10,000ha

Annual CO₂ reduction of 149,000 tons

Overseas afforestation area

Hansol HomeDeco's Timber Business Sustainable Value Chain



3. Pollutant and Waste Management

Reducing wastewater by 30,000 tons

Hansol Chemical

In 2022, despite business expansion, the Ulsan Plant of Hansol Chemical achieved a significant reduction in water usage and water pollutant emissions. The total discharged wastewater was 160,151 tons (440 tons/day), marking a 15% decrease from 2021's discharges of 189,823 tons (520 tons/day). This accomplishment was made possible by enhancing product-manufacturing process efficiency, and investing in facilities to increase wastewater reuse rate.

Exceeding wastewater discharge standards

Hansol PaperTech

At Hansol PaperTech, we adhere to stringent wastewater-discharge requirements, which are set and managed internally to exceed the legal standards.

	Legal requirement	Internal standard
TOC	25	20
COD	32	25
SS	30	22
PH	8.6	8
TN	30	23
TP	4	3.5

Investing in environmental facilities

56

Hansol Paper

Hansol Paper strives to minimize resource-waste and pollutant discharges by increasing the waste-recycling rate and investing in facilities. The company aims to achieve zero marine waste discharge and promote eco-friendly resource circulation. Over the past three years, Hansol Paper has invested KRW 5.6 billion in 2020, KRW 6 billion in 2021, and KRW 1.5 billion in 2022, respectively, in environmental facilities — furthering its commitment to reducing air and water pollutants.

Hansol HomeDeco

Hansol HomeDeco invested in constructing heavy-metal reduction facilities for incinerator fly ash. Previously, the fly ash contained excessive levels of heavy metals, classifying it as designated waste and incurring high disposal costs. To address this, the company introduced heavy-metal elution inhibitor chemicals to the incinerator, converting the fly ash into general waste and facilitating recycling. This improved waste treatment processes, resulting in cost reductions.

Hansol PaperTech

Hansol PaperTech actively prepares and implements a waste recycling plan, specifically targeting the waste (sludge) generated during production, to transform it into valuable resources. Emphasizing the importance of waste treatment stability, the company invests in advanced facilities for this purpose. To ensure compliance with the Waste Control Act, all waste-related changes are promptly reported to local authorities and carefully managed. This performance, along with report certificates and third-party contracts, is registered in the Allbaro system for comprehensive management.

Hansol Technics

Hansol Technics conducted effective dredging of sludge from collection and discharge tanks to ensure efficient wastewater treatment and maintain concentrations below legal limits. This proactive measure prevents the accumulation of wastewater sludge, which can lead to increased water-pollution levels and impact equipment like pumps and piping. As a result of the dredging process, significant reductions were achieved in wastewater contamination levels, including BOD (78%), TOC (19%), SS (52%), and T-P (85%).

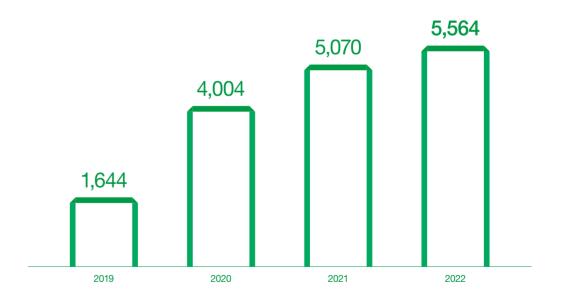
Hansol PaperTech's Environmental Facility Investment in 2022-2023

(Unit: KRW million)

Facility improvement	Investment amount
Replacement of water quality TMS (TOC)	62
Upper SDR replacement	82
Installation of spare turbo blower for aeration tanks and piping	91.5
Additional installation of advanced water-quality treatment (corresponding to TOC regulations)	618
Bag filter hopper replacement	140
Bag filter valve replacement	49
Spare aeration tank submersible pump replacement	31
Nano filter installation	563

Trend of Increasing Sludge Recycling Amount at Hansol PaperTech

(Unit: Tons)



4. Global Initiative & Environmental Management Certification

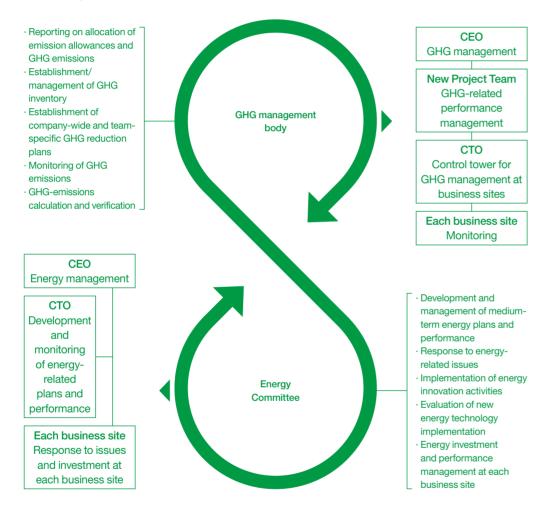
Compliance with the TCFD recommendations and designation as green company

58

Hansol Paper

The Task Force on Climate-related Financial Disclosures (TCFD) recommendations, established by the International Financial Stability Board (FSB), serves as standards for disclosing governance, risk management, and metrics and targets related to climate change response. Hansol Paper strengthens its climate-change response system and facilitates informed decision-making of key stakeholders by adhering to the TCFD recommendations and disclosing climate-related information. Moreover, Hansol Paper has earned the designation of a green company, approved by the Ministry of Environment and the Geumgang River Basin Environmental Office, reaffirming its commitment to eco-friendly management practices.

Hansol Paper's Governance for Climate Action



Joining the UN Global Compact

Hansol HomeDeco

Hansol HomeDeco has joined the United Nations Global Compact (UNGC), thereby reaffirming its commitment to upholding global standards of ESG management and social responsibility. The UNGC is the world's largest voluntary corporate citizenship initiative, launched in New York, USA, in 2000, with the goal of promoting corporate social responsibility. With approximately 20,000 member companies from 162 countries worldwide, the UNGC emphasizes the importance of adhering to its ten principles in the areas of human rights, labor, environment, and anti-corruption. Participating companies are required to report on their progress toward achieving the Sustainable Development Goals (SDGs) through an annual Communication on Progress (COP). Hansol HomeDeco's membership of the UNGC signifies its dedication to being a responsible corporate citizen and upholding the principles of sustainability and social responsibility.

Newly certified business site for the ISO 14001 certification

Tapex

Tapex's Uniwrap Plant established a systematic environmental management system, and acquired the international environmental management system (ISO 14001) certification in 2022. This marks the complete certification of all three domestic business sites of Tapex.



Establishment of the Environmental Council and improvement plans

Hansol IONES

In 2023, Hansol IONES took a significant step forward by creating an Environmental Council, conducting meetings at both the Anseong headquarters and Baran campus. This council will be holding quarterly meetings to address internal and external environmental issues, evaluating risks, and setting specific goals. Hansol IONES is committed to prioritizing environmental management, and responding proactively to environmental challenges.

Sustainable Growth for All

Respect for and protection of human rights in business are becoming increasingly critical on a global scale. Companies that prioritize human rights and take into account the well-being of all stakeholders, including employees, suppliers, and local communities, are best positioned for sustainable growth. At Hansol, we uphold the UN's Universal Declaration of Human Rights and the United Nations Guiding Principles on Business and Human Rights (UNGP), actively promoting their principles.

For the Sustainability

60

Hansol Group is dedicated to upholding ESG values in collaboration with its employees, business partners, and local communities. In line with this commitment, we prepared and distributed human rights management operation guidelines across the organization to ensure proper training. We continuously strive to establish a safe and enjoyable workplace by bolstering our capabilities through educational support programs. Many of our major affiliates have already achieved ISO 45001 certification, a renowned international safety- and health-management system. To further strengthen safety measures, we have established the Hansol Safety Rating System in 2022, specifically designed in consideration of business characteristics. To achieve this goal, we provided consistent support through regular meetings, training, and consulting services, ensuring the safety and health of our employees in each affiliate and partner company. Hansol's labor-management council actively seeks input from both executives and employees, enabling constructive discussions and negotiations for determining compensation and annual salary increase rates. We are committed to fostering diversity within our workforce and promoting a culture of open communication, cultivating a pleasant work environment and attracting and retaining top talent.

Key Sustainability Issues

Certified as a family- friendly

Key Performance

Growth with **Employees**

company

affiliates

Hansol Paper, Hansol Chemical.

- Hansol Holdings developed an online education curation system utilizing competency diagnosis.
- HSRS was implemented by Hansol Holdings.
- Hansol Group expanded employment opportunities for individuals with disabilities.

Shared Growth with Partners

Hansol Technics Shared **Growth Programs**

- Hansol Technics hosted a Mutual Cooperation Day where 10 companies participated in individual purchase consultations
- Hansol Paper implemented sustainability management evaluations for its partner companies.
- Hansol Paper manages the Mutual Growth Fund
- Hansol Inticube newly developed Fair Subcontracting Guidebook

Communication and **Engagement with Local Communities**

Cumulative number of visitors at Hansol Cultural Foundation

(2013~2022)

- Employees' volunteer activities at Hansol Holdings
- Solar module donation to local communities by Hansol
- Regular cleaning activities to remove odors by Hansol

61

- ESG campaigns, such as beach cleaning and waste electrical/electronic recovery, by Tapex

2023 Hansol Group Sustainability Report Introduction Sustainability Essentials

1. Growth with Employees

Establishing the Group human rights management operation guidelines and operating counseling programs for employees

Hansol Holdings

Hansol Holdings has announced its commitment to human rights management, introducing the Human Rights Management Guidelines. These guidelines provide clear definitions of human rights and human rights management, identify various human rights violations, and establish procedures for addressing these concerns. The scope of application for the human rights management system includes the holding company, its affiliates, members, customers, and partners, among others, and is delivered through multiple communication channels, including Red Whistle (anonymous reporting channel), website, postal mail, email, and phone. Looking ahead to 2023, our plan is to expand human rights management to major affiliates and conduct annual training sessions. We are committed to fostering a culture of respect for human rights among all Hansol employees and upholding our Human Rights Management Declaration. In 2023, we are introducing a comprehensive counseling program to provide all our employees with access to professional counseling services through an external counseling center. This program aims to offer support for various personal challenges, including work-related stress, workplace conflicts, burnout syndrome, interpersonal conflicts, and human rights concerns.







Specific human rights violation relief procedures and prevention program included in the Human Rights Management Operation Guidelines

Employee growth support programs

62

Free agent (FA) system: The Flexible Assignment (FA) system, introduced in 2020, enables employees to apply for different job positions after a certain period. Eligible employees are given priority through regular job postings, promoting internal mobility and career growth opportunities. MBA support program: Each affiliate selects candidates internally to nurture them as executives every year. Top performers are awarded with full scholarships to complete MBA programs.

Mentoring program: Various mentoring programs aid new hires in adapting and growing within the organization. Hansol nurturing program: Our comprehensive training approach provides employees with essential education, encompassing online courses, free telemarketing, and outsourced programs, fostering their professional growth and development.

Respect leadership: We foster a corporate culture where employees respect one another and thrive under "respect leadership," a core value of the HMS, instilled in all Hansol leaders.

Absolute evaluation: Our performance management system prioritizes cooperation over internal competition, rewarding the achievement of shared goals and mutual growth.

Ground rules for teams: Hansol Group implements the "ground rules for teams" program, allowing teams to create a customized work environment that reflects their unique characteristics and culture.

Development of an online education curation system, LMS

Hansol Holdings

Hansol Group introduces its newly established Learning Management System (LMS), an online learning curation system connecting "Da Vinci," the Group's HR system, and an online education system, "H-Campus." The integrated learning curation platform includes a personal competency test to create Individual Development Plans (IDPs) and Career Development Plans (CDP). Utilizing AI technology, the LMS suggests relevant learning resources, such as contents, videos, and YouTube, based on the test results and keeps track of learning support and history. With this educational infrastructure, Hansol Group fosters a voluntary learning culture, actively supporting the self-development of every employee.

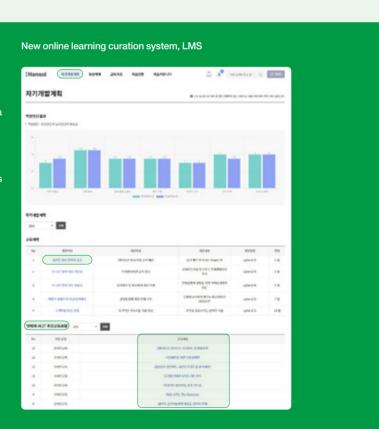
 Self-directed course search and individual learning plan creation by employees.
 Manual input of

by employees.

Manual input of competency, goals, and curriculum by employees.



Employees receive personalized course recommendations and curated curricula for targeted areas of improvement.
 Courses organized by job roles and levels for easy access and selection.
 Detailed information provided for each course.



Establishment of Hansol Safety Rating System for safety and health management

Hansol Holdings

Since the first ISRS evaluation in 2019, Hansol Group has developed its own safety and health work standards and evaluation system, tailored to the unique characteristics of its business. In 2022, we introduced the Hansol Safety Rating System (HSRS) after verifying the effectiveness and performance. The evaluation ratings range from level 1 to 5, and our affiliates in manufacturing businesses, Hansol Paper and Hansol HomeDeco, are working to attain and maintain HSRS Level 5, which is comparable to ISRS Level 7. This initiative aims to enhance our safety and health competitiveness, foster a safety culture within the organization, and extend it to our suppliers.

Hansol Paper's Janghang Plant received an L5 rating in the HSRS evaluation



Strengthening occupational safety and health education

64

Hansol PaperTech

Under the Serious Accidents Punishment Act, occupational safety and health education has been significantly reinforced. The annual safety and health education now requires evaluation of job-related competencies through KSA competency assessment for satisfactory completion. Safety and health managers must undergo regular training of at least six hours per quarter. Special safety and health education is mandatory for full-time employees, requiring 16 hours or more, and daily contract workers, requiring at least two hours. These measures aim to ensure safety at worksites engaged in operating one-ton or larger cranes, confined space operations, and workplaces with five or more pieces of material-handling equipment.

ISO 45001-certified business sites

12

Protecting employees' health through health checkups and safety and health policies

Hansol PaperTech

When recruiting and assigning new workers to positions requiring special health examinations, Hansol PaperTech requires those employees to receive health checkups prior to starting work, informs them about any potential hazards in their workplace, and follows up with annual health checkups. Workplaces with hazardous conditions, such as excessive noise, dust, and potential exposure to radiation, sulfuric acid, and welding work, require special health examinations. Employees involved in processes like noise, dust, solvent handling, hazardous substance use, and night work, as specified in the Occupational Safety and Health Act, undergo specific health examinations tailored to the risks they encounter.

To review adequacy of the policies, Hansol PaperTech regularly evaluates and updates its safety and health policies through active communication with members and stakeholders. Feedback is gathered through various channels, such as emails, official letters, meetings, and internal postings. The safety and health organization reports safety performance to the CEO semi-annually and actively works on improvement plans to address any pending issues.

Introducing a telecommuting employment platform for persons with disability

Hansol Group

Hansol Group is proactively enhancing the employment of people with disabilities through a partnership with VDream, a specialized company in this field. Several major affiliates, including Hansol Logistics, Hansol PNS IT Service Division, Hansol Inticube, Hansol Chemical, Hansol Technics, and Tapex, have adopted and implemented the VDream platform. This initiative enables the employment of individuals with disabilities in support functions, encompassing responsibilities like document and data management and article processing. These employees receive equitable benefits, including education assistance, medical coverage, and regular health assessments, on par with their colleagues.

Tapex has taken a significant step toward diversity in employment by extensively utilizing the platform since 2022. In 20200, Tapex hired four additional individuals with disabilities, making the total number six. The company has carefully placed them in roles that offer telecommuting options, such as customer service, design, and general affairs, to ensure work convenience and accessibility.

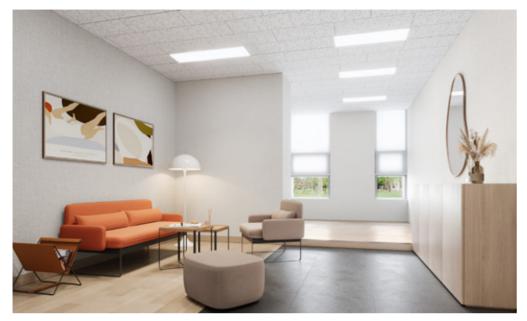


Vdream allows individuals with disabilities to select the job field they want to apply for. (vdream.co.kr)

Certified family-friendly businesses

Hansol Paper, Hansol Chemical, Tapex

Hansol Paper, Hansol Chemical, and Tapex have successfully applied for and obtained family-friendly management certification from the Ministry of Gender Equality and Family. Our certification was granted based on positive evaluations of our childbirth and childcare support systems, flexible working hours, early leave on Fridays, family-friendly programs, family-care leave, and overall family-friendly workplace culture.



Break room for pregnant employees and a remodeled female employee lounge at Tapex

Designated as a youth-friendly small giant

66

Hansol Coever

Hansol Coever, a subsidiary of Hansol PNS, was chosen as a youth-friendly small giant in 2023. Since 2016, the Ministry of Employment and Labor has been recognizing companies that offer excellent wages, compensation, work-life balance, and employment stability for young workers. As a result, Hansol Coever, acknowledged as a great workplace for young professionals, has been granted benefits such as recruitment support services, financial incentives, preferential treatment in tax audits, and additional points in screening for alternative military service companies.

Strengthening intergenerational communication culture through meetings

Tapex

Tapex has been dedicated to fostering a harmonious corporate culture that embraces various generations as the number of employees rapidly increases in line with the company's recent growth. As part of this initiative, meetings have been conducted by position since 2022 to address and resolve employee grievances. These meetings are held regularly, at least once per year, with participants from the same level of position, under the supervision of each plant manager or head of the Managing Director. In 2022, a total of 264 individuals participated in the meetings, resulting in 211 complaints received, and the formulation of improvement plans.

Hansol Technics

Hansol Technics promotes effective communication with millennial and Generation Z (collectively known in Korea as MZ Generation) employees through various initiatives. The company provides monthly support for activity expenses and conducts video conferences with relevant departments to gather and share opinions on support, human resources, and general affairs. Additionally, the company operates a Junior Board and organizes meetings as intergenerational communication events between different positions. These meetings offer employees the chance to interact with the CEO in open and candid discussions, fostering better understanding and bridging generational gaps. Currently, there are six Junior Board members, with two representing each workplace.

Hansol IONES

In 2023, Hansol IONES organized company-wide meetings with the CEO, specifically by job category. The meeting aimed to prioritize the input and perspectives of working-level employees, excluding executives and managers, to ensure it was a platform for open communication and idea sharing. By fostering this culture of communication and engagement among different ranks and generations, Hansol IONES is committed to internalizing the social value of ESG principles.

Operating a flexible work system, "For Me"

Hansol PNS

Hansol PNS Paper Distribution Division operates the "For Me System" as part of its flexible work system, which can be described as "Friday for Me." Under the system, employees can enjoy a refreshing period with a three-day break after four days of work. In addition to the 16 days of annual paid holidays, an additional eight days are granted, providing a total of 24 days of rest. This allows employees to take every other Friday off. The second and fourth Fridays of each week are designated as default holidays, but they can be distributed and used at the discretion of teams and individuals.

Introducing an internal referral system

Tapex

At Tapex, we continuously strive to enhance corporate competitiveness by expanding recruitment channels. As part of these efforts, we introduced an internal referral system for our employees starting in 2022. When an employee referred through this system completes one year of service, the recommender receives incentives ranging from KRW 500,000 to KRW 2 million. Furthermore, in 2022, we resumed the open recruitment of college graduates, which had been suspended since the second half of 2013. This allowed us to hire 10 new talents across various fields.

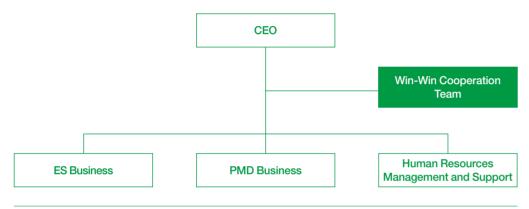
2. Shared Growth with Partners

Shared-growth program

Hansol Technics

Hansol Technics has taken a significant step toward promoting fair trade and shared growth with its partners by elevating the Win-Win Cooperation Team to a department directly under the CEO's supervision. Recognizing that mutual growth with partners is of paramount importance, we are committed to dismantling elements of unfair trade practices that may have persisted in the past. To foster a collaborative environment, we actively support technology exchanges, provide consulting and education, and share welfare systems to address the specific needs of our partners. By doing so, we aim to boost the job satisfaction of our partners' employees. This has led to a marked improvement in the quality of partners and facilitated the recruitment of exceptional talent, which has now become a distinctive competitive advantage for Hansol.

Hansol Technics Shared-Growth Promotion System



Major Activities in 2022

- 1. Patent application support
- 2. 2 patent training sessions
- 3. Technical data escrow system support
- 4. Early payment
- 5. Purchase consulting meetings
- 6. Profit sharing system
- 7. In-house venture support

- 8. Support for solar equipment supply
- 9. Safety and energy conservation consulting
- ${\bf 10.\ Support\ for\ manufacturing\ process\ improvement}$
- 11. Leisure and holiday assistance
- 12. Long-term service support for key persons
- 13. Introduction of new policies and laws
- 14. Cultural activity support

Hosting Mutual Cooperation Day

68

Hansol Technics

Hansol Technics' annual Mutual Cooperation Day is a flagship initiative aimed at fostering mutually beneficial growth with partners. During this event, we present shared growth activities conducted throughout the year and action plans for the upcoming year. Moreover, we take the opportunity to share the latest management trends and upcoming regulatory changes. Last year's Mutual Cooperation Day featured detailed purchasing strategies for each division for 2023 and purchase consultations to ensure business stability for our valued partners.

Supply-chain management of 180 partners

Hansol PaperTech

Hansol PaperTech's corrugated cardboard business is poised for significant expansion due to increasing demand, driven by environmental concerns, in the sectors of agricultural, marine packaging, and online shopping. Currently, Hansol PaperTech manages approximately 180 partners within its supply chain — comprising outsourcing-type partners like Logismile for logistics; Jeongjin Development for labor contracts; supplier-type partners with 35 raw material manufacturers; two incineration fuel companies; seven waste- treatment companies; and 15 subsidiary material companies — as well as 120 network-type partners.

Development of Fair-Subcontracting Guidebook

Hansol Inticube

Hansol Inticube has published and shared the Fair Subcontracting Guidebook to ensure compliance with fair and transparent subcontracting regulations. This guidebook offers practical guidelines and business support for subcontracting transactions in accordance with the Fair Transactions in Subcontracting Act, covering key aspects like definitions, requirements, and obligations of main contractors. Additionally, it includes detailed Q&A sections to clarify complex matters for practitioners, such as transaction requirements and exceptions.





^{*} Starting in 2023, the list of programs will expand to include language learning programs alongside the existing offerings.

3. Communication and Engagement with Local Communities

Museum SAN, a Space for Healing and Artistic Expression

70



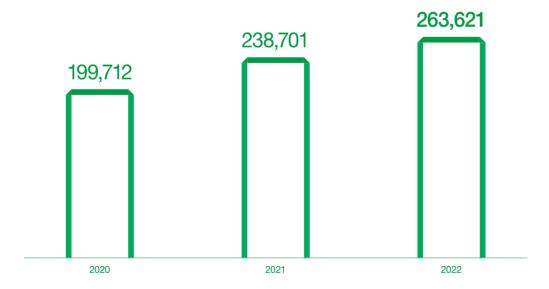


Hansol Cultural Foundation

Since its establishment in 2013, Museum SAN, operated by the Hansol Cultural Foundation, has become a prominent cultural and artistic space in Korea, offering a unique experience of healing through art amidst nature. With over 1.63 million visitors in the past decade and attracting more than 200,000 people annually, it has played a vital role in boosting the local economy. Museum SAN gained popularity with its minimalist architecture by Tadao Ando, featuring exposed concrete, and exhibition of James Turrell's art on an unprecedented scale in Asia. As the museum grew in prominence, it evolved into a more meaningful and cherished space. In 2023, Museum SAN celebrated its 10th anniversary with the exhibition "Tadao Ando-Youth," exploring Tadao Ando's architectural challenges and showcasing his remarkable world of architecture. This event reignited public interest in art and architectural culture.

Visitor Trends at Museum SAN: 2020-2023

(Unit: Persons)



Donation of solar power modules to local communities and social contribution activities

Hansol Technics

Hansol Technics is actively fulfilling its social responsibility by providing support for solar products, particularly in rural areas. In 2017, Hansol Technics became the first private company to contribute to the Rural Community Win-Win Cooperation Fund. They actively provide solar panels to improve residents' lives through projects like KEPCO KPS's "Sharing Light Panel" initiative, scholarship support in Incheon City, and Iksan Community Pension's solar power generation project. Moreover, the annual Oriental medicine sharing event in Deoksan-eup, Jincheon-gun, continues to provide support to local communities.

Hansol Technics Local Community Support Details

(Unit: KRW 1,000)

	Support Amount		
Support Program	Non-cash donation	Cash donation	
Local farmer support (purchasing agricultural products: Shine Muscat)	2,500	131	
Korea Electrical Safety Corporation - solar cell module donation	8,344	439	
Donation of solar modules to the city of Iksan	11,757	618	
KEPCO KPS: solar cell module donation	15,549	818	
Assistance for the elderly living alone	1,000	-	
Offering aid to children in unstable households	-	400	
Oriental medicine sharing for residents in Deoksan-eup	-	20,000	

ESG campaign for environmental preservation, beach cleaning, and waste electrical/ electronic product recovery

Tapex

Acknowledging the gravity of marine pollution and plastic waste in oceans, we organized beach cleaning initiatives aimed at preserving the environment and safeguarding biodiversity, with active employee involvement. Beach cleaning involves picking up sea flotsam and garbage, akin to "combing" the beach for debris. In collaboration with Hwaseong City, home to the Tapax factory, 62 executives and employees took part in three organized sessions at Gungpyeong Port, demonstrating our commitment to preserving the coastal environment. Furthermore, we collaborated with the Korea Electronics Recycling Cooperative (KERC) to conduct a resource-recycling awareness campaign, through which we collected and donated waste electrical and electronic products, including used mobile phones. Both Tapex and Hansol Chemical participated in this campaign, aiming to amplify the positive impact and raise awareness about ESG practices.

Community engagement through regular volunteering

Hansol Holdings

Every fourth Friday of the month, approximately 15 employees from Hansol Holdings visit the Eunpyeong Rehabilitation Center in Seoul's Eunpyeong-gu to engage in volunteer activities. These activities include repairing facilities, managing donation items, and visiting nearby cafes and hair salons with the center's residents. Hansol Holdings is committed to maintaining these volunteer initiatives to foster community connections, uphold corporate social responsibilities, and embody the spirit of corporate sharing.

GOVERNANCE

Transparent Governance and **Shareholder-Friendly** Management

A robust governance structure sets the foundation for practicing environmental and social values in ESG management. Therefore, a strong and transparent governance structure is key to the company's sustained growth and future preparedness. The BOD must prioritize independence, expertise, and diversity to ensure balanced decisions for all stakeholders, including customers, shareholders, and suppliers.

For the Sustainability

72

Composed of various skilled directors, Hansol Group's Board of Directors plays a crucial role in transparent and independent decision-making, fostering efficient management through checks and balances. In line with the 2023 shareholder return policy, Hansol Holdings, Hansol Paper, Hansol Chemical, Hansol PNS, Hansol Technics, and Tapex distributed cash dividends. This was a significant milestone for Hansol Technics, achieving shareholder return for the first time in 12 years. Hansol actively addresses ESG information disclosure. While Hansol Paper is the only affiliate obligated to publish corporate governance reports, six other affiliates (Hansol Holdings, Hansol Technics, Hansol Chemical, Hansol Logistics, Hansol HomeDeco, and Hansol PNS) voluntarily disclose their ESG efforts. Furthermore, Hansol Holdings has established an ESG index management system for all affiliates, conducting comprehensive risk assessments and compliance management checks. A comprehensive strategy for financial and non-financial risk management was implemented to foster ESG practices across the group.

Key Sustainability Issues

A Board of Directors with Independence and Expertise

Ongoing Shareholder-

Friendly Policy

Enhanced Risk-

Hansol Holdings 2022 dividend

(Consolidated basis)

Hansol Group's ESG Management Indicators

Approximately

(as of May 2023)

Key Performance

- **Group Corporate Governance** Report Disclosure

(Voluntary participation by six

- Operation of audit committees for seven listed companies within the Group
- 42.9% outside directors at Hansol Holdings (2022)
- Hansol IONES established the "Committee for Enhanced Management Integrity and Transparency"

- Hansol Holdings paid cash dividends of KRW 120 per share (dividend rate of 3.5%)
- Dividend payout achieved by Hansol Holdings · Hansol Paper·Hansol Chemical·Hansol PNS·Hansol Technics · Tapex
- Hansol Paper announced a year-end dividend plan for

- Hansol Holdings reviewed risk management system of all affiliates and came up with an improvement plan

- Hansol Holdings conducted compliance management review for all affiliates
- Hansol Paper identified seven non-financial risks

Management System and Crisis-Response Capabilities

related to ESG

1. A Board of Directors with Independence and Expertise

Establishment of sound governance

The Board of Directors of Hansol Holdings possesses the authority to manage and oversee major company matters in compliance with relevant laws and articles of incorporation. It comprises a total of seven directors, consisting of four inside directors and three outside directors. Together, they perform essential functions in management decision-making and supervision. To adhere to regulations, no outside director serves for more than six years. The CEO of Hansol Holdings serves as the chair of the Board, streamlining decision-making processes and enhancing overall corporate competitiveness. Commencing from August 2023, the Board will report the process of materiality evaluation to the CEO, further bolstering the company's responsible ESG management practices. Furthermore, to ensure the establishment and efficient operation of the internal accounting management system, the head of the finance team, who serves as the internal accounting manager, participates in the Board meetings as an inside director.

BOD Composition

Category	Name	Gender	Term of office	Career highlights
	Lee Jae-hui	Male	2015. 1. 2 ~ 2024. 3. 30	CEO of Hansol Holdings (present)
lusida	Jo Dong-gil	Male	1997. 2. 26 ~ 2024. 3. 30	Chair of Hansol Group (present)
Inside Directors	Jeon Hun	Male	2019. 3. 26 ~ 2025. 3. 29	Chief of Financial RM Team of Hansol Holdings
	Go Min-hyeok	Male	2020. 3. 30 ~ 2023. 3. 29	Chief of Human Resources Team of Hansol Holdings
	Son II-tae	Male	2018. 3. 29 ~ 2024. 3. 30	Honorary Professor of Trade at Kyung Hee University
Outside Directors	Lee Nam-wu	Male	2020. 3. 30 ~ 2023. 3. 29	Visiting Professor of Yonsei University Graduate School of International Studies; Advisor at the Career Development Center
	Won Chang-yeon	Male	2023. 3. 29 ~ 2026. 3. 29	Lawyer at Dongln Law Group

Ensuring diversity and expertise of the BOD

74

Hansol Holdings selects inside directors for their expertise, ensuring a varied skill-set on the Board. Outside directors follow relevant laws and guidelines set by the Korea Institute of Corporate Sustainability. The company avoids candidates who could compromise shareholder value or hinder independence, and instead recommends individuals who can contribute to growth, offer valuable management advice, and support compliance efforts.

BOD meetings held in 2022

6

BOD attendance

100%

Board evaluation and remuneration system Directors' remuneration budget is set at the general shareholders' meeting, but the actual operation is delegated to the Board of Directors. At the 2022 general shareholders' meeting, the approved remuneration budget was KRW 4 billion, and the total payment made to directors was KRW 2.46 billion.

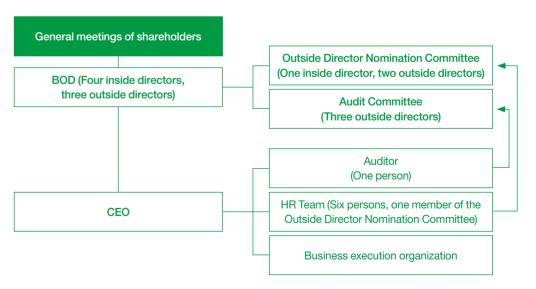
(Unit: KRW million)

Category	Number of persons	Remuneration total	Average remuneration per person	Remarks
Registered directors (Excl. outside directors and audit committee members)	4	2,301	575	Four inside directors
Outside Directors (Excl. audit committee members)	-	-	-	-
Audit committee members	3	162	54	Three outside directors
Auditor	-	-	-	-

Operation of Audit Committee and Outside Director Nomination Committee Hansol Holdings has set up and is currently operating the Audit Committee and Outside Director Nomination Committee within the Board of Directors. The Audit Committee comprises three outside directors, ensuring transparency and independence in the audit process while overseeing the BOD and management. The committees have supporting bodies in order to effectively fulfill their duties. An HR person is assigned to assist the Outside Director Nomination Committee and an audit team member assists the Audit Committee in fulfilling their respective duties.

BOD and Committee Organizational Chart

(as of May 2023)



Establishing the Committee for Enhanced Management Integrity and Transparency

Hansol IONES

Hansol IONES established the Committee for Enhanced Management Integrity and Transparency to ensure jeong-do ("right way") management and transparent governance. Comprising two or more external experts and one or more outside directors, the committee meets quarterly to review the adequacy of executives' corporate card details, monthly remuneration, and transaction history with stakeholders. By operating this committee, Hansol IONES aims to enhance management transparency and promote sustainable development.

Corporate Governance Report Disclosure

76

Since 2022, listed companies with assets of KRW 1 trillion or more are required by law to disclose corporate governance reports to stock exchanges. Hansol Paper is the only company meeting this requirement in the Hansol Group. Nevertheless, six companies within the Group — namely, Hansol Holdings; Hansol Technics; Hansol Chemical; Hansol Logistics; Hansol HomeDeco; and Hansol PNS — which are not required to disclose, have proactively chosen to voluntarily publish corporate governance reports, bringing the total to seven companies adhering to the disclosure standard. This reflects Hansol's commitment to enhancing corporate transparency and preparing for upcoming changes, extending to listed companies with assets over KRW 500 billion starting in 2024. The voluntary disclosure efforts since 2018 have earned positive feedback in external ESG management evaluations for the Hansol Group.

2. Ongoing Shareholder-Friendly Policy

Implementation of mid- to long-term shareholder return policy Hansol Holdings consistently discloses the details of its shareholder return policy, including cash dividends, on its website. In addition, information related to the shareholder return policy is provided in the IR materials issued quarterly and posted on the website, ensuring regular communication with shareholders. On May 13, 2022, the Board of Directors of Hansol Holdings resolved to maintain the existing shareholder return policy (2019-2021) until 2024 and made a fair disclosure of the information. Moving forward, the company aims to further improve the predictability of its dividend policy and enhance shareholder value.

Three-Year Dividend Data: 2020-2022

Category	Unit	2020	2021	2022
Dividend per share-common shares	KRW	120	120	120
Dividend rate per share-common shares	%	3.3	3.4	3.5
Total dividends	KRW 100 million	50	50	50
Dividend payout ratio	%	7.1	23.3	10.5

Returning to shareholders through end-ofyear dividends

Hansol Paper

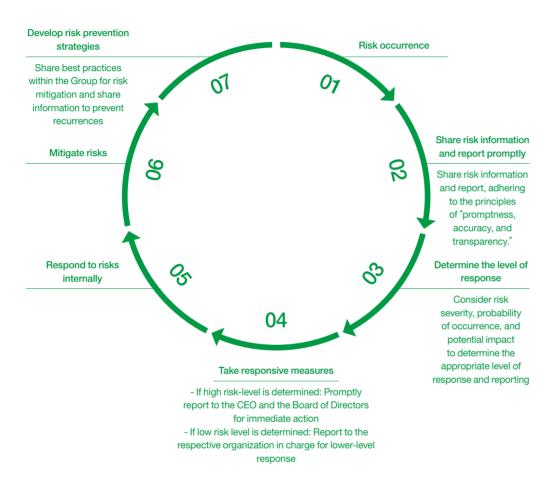
In its business report released in March 2021, Hansol Paper revealed its plan to utilize approximately 25-35% of its consolidated net profit as part of its shareholder return policy. Regarding the consolidated cash dividend trend, it recorded 28.1% in 2020 and 104.3% in 2021. Furthermore, Hansol Paper disclosed its dividend settlement plan at the end of November, around when the fiscal year concludes. The company announced a year-end dividend plan of KRW 500 per share for the end of 2022, considering the expected annual performance for the year. Subsequently, during the general shareholders' meeting in March 2023, it confirmed a year-end dividend of KRW 500 and a mid-year dividend of KRW 200 per common stock.

3. Enhanced Risk-Management System and Crisis-Response Capabilities

Hansol Group's risk-response process

78

Hansol Group maintains a proactive approach to risk management, continuously monitoring and responding to potential risks. To ensure swift and effective responses, we have implemented a risk-response process, facilitating internal communication and information sharing. Additionally, we focus on identifying and managing risks that could significantly impact our business operations. We have also developed risk-recurrence prevention strategies for more effective responses $t \equiv 0$ potential risks. As the Group's holding company, Hansol Holdings takes a comprehensive approach to risk management by conducting thorough assessments of risk across all affiliates. Through active collaboration, we address areas that require improvement.



Riskassessment process

Hansol PaperTech

Hansol PaperTech prioritizes safety and a pleasant work environment by effectively managing major hazardous risk factors and minimizing the likelihood of accidents. This responsibility extends to key managers, including the CEO, CSO, and plant manager, along with the safety team leader, safety manager, and team leader (management supervisor). All employees are actively involved in risk assessments and contribute to establishing effective risk-reduction measures.

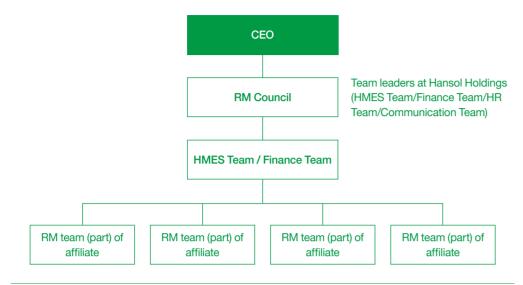
Category	Responsible body	Frequency	Major tasks
Identification and review of risk areas	Each team	Annual	Identification of risk factors that may affect safety and health, and identification of critical tasks
Implementation of risk assessment	Each team	Initial: Introduction of equipment Regular: Annual Irregular: Ongoing	Conduct risk assessment based on identified risk factors
Review of risk assessment results	Safety team	Annual	Confirmation of the adequacy of risk assessment results
Risk monitoring	Each team	Ongoing	Developing and executing improvement plans for critical risk-related tasks and risk factors rated at level 8 or above
Evaluation and improvement	Each team	Initial: Introduction of equipment Regular: Annual Irregular: Ongoing	Sharing of risk-assessment results with all members

Group's riskreporting system

80

Hansol Holdings, as a holding company, effectively responds to changes in the internal and external business environment by establishing a risk-management council, which includes the CEO and executives. Through this structure, we conduct periodic risk inspections and respond rapidly to risks.

Reporting structure



Management process



 $^{^{\}star}\, \text{(Affiliates)}\, \text{Monitoring changes in the internal and external business environment and regular/ongoing risk assessments}$

Group's Risk-Classification System

С	ategory	Level 1	Level 2	Level 3
				Political/legal
				Economic
		Market/customer	Trends (PESTEL)	Social
			(* 23.22)	Technological
				Environmental
				Business model verification
		Investment in shares	Business model	Scalability and vision
	Business		System	Laws and regulations
			Market/customer (PESTEL) Trends (PESTEL) Business model Scal System Laws Property rights Property rights Intellectual property infringements Exchange rates Interest rates Financing Profit and loss Tax Tax Credit Credit Rating Environment Climate characteristics Financing Property rights Anti-corruption Compliance Unethical conducts Security HR, labor Supply chain Supply chain Crisis response Brand Undermining the value of brand equity Financians Financians Credit Credit Rating Environment Climate characteristics Financians Anti-corruption Compliance Unethical conducts Financians Financi	Project structure
Eta anadat		Market/customer (PESTEL) Investment in shares	Complaints	
Financial risks		Orders	Arket/customer (PESTEL) Business model System Orders Project Ex Cor Qui Property rights Intellectual property infringements Exchange rates Interest rates Financing Profit and loss Tax Tax Credit Credit Rating Environment Clim Safety Anti-corruption Disclosure Unethical conducts Security - HR, labor - Supply chain - Supply chain - Supply chain - Crisis response Brand R Brand Undermining the value of brand equity	Exclusion clauses in contracts
				Construction and delivery period
				Quality/performance assurance
		Property rights		Patents/trademarks
F		Movicot	Exchange rates	-
		Market	Interest rates	-
	Financial	I in data.	Financing	-
	Financiai	Liquidity	Profit and loss	-
		Tax	Tax	-
		Credit	Credit Rating	-
			Environment	Climate change, carbon emissions
		Environment/safety	Cofoty	Safety accidents
	Compliance		Jaiety	Laws
	Compliance		Anti-corruption	-
		Compliance	Disclosure	
			Unethical conducts	
Non-		Security	-	
financial risks		HR, labor	-	
	Operation	Supply chain	-	
		Quality/certifications	-	
		Bonds management	-	-
		Crisis response	Brand	Reputational risk or damage
	Prope M Financial Lig C Environ Compliance Com Se HR Operation Quality/c Bonds m Crisis External communication B	Brand		Misuse of Cl
		Market/shareholders	IR	-

Riskmanagement system review and improvement plans In 2022, Hansol Group conducted a comprehensive risk survey across all affiliates using the Group Risk Classification System to identify areas needing improvement. The Hansol Holdings' HMES team and the Financial RM team, in collaboration with affiliates, will be reviewing investment and order receipts that could pose risks or require discussion. In March 2023, the progress of improvement measures for incomplete items was monitored and reported on. To enhance management sustainability and prevent risk occurrence, annual inspections will be conducted in January each year to update the risk items that need attention.

Implementation of compliance assessment

82

Since 2021, Hansol Group has been assessing the compliance-management status of each affiliate. The evaluation covers five key areas: compliance leadership; planning; execution and support; internal audit; and improvement. Based on interviews with executives and employees, along with data analysis, specific action tasks are derived for each affiliate. The Group aims to make compliance management the foundation of sustainability, increase awareness of it among employees, reduce legal and regulatory risks, and enhance overall compliance management.

Enhancing compliance management: Key tasks for affiliates

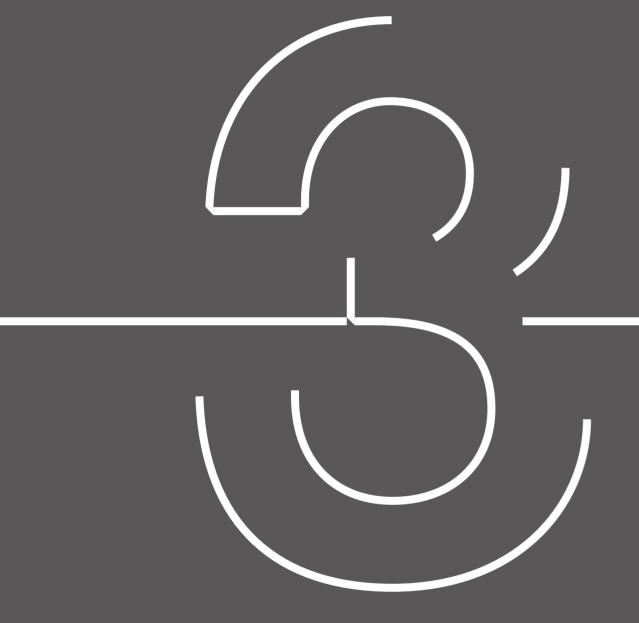
Hansol Paper Hansol Technics Hansol Home Deco · Raise risk awareness of field · Establish and operate compliance · Reinforce risk management for fair trade, subcontracting, internal workers and encourage them management system for overseas to actively lead improvement corporations and subsidiaries control, etc. activities (direct management, · Enhance the environmental risk partners, and all subsidiaries) management system · Establish a subsidiary compliance · Reinforce on-site safety and system and stabilize operation environmental accident-prevention capabilities Hansol PNS IT Service Division / **Hansol Logistics** Paper Distribution Division, Hansol PNS Hansol Inticube · Reinforce compliance system and · Reinforce education and · Strengthen organizational self-audit for subsidiaries communication to strengthen participation in compliance · Improve accident-prevention management through education organizational participation in management for transportation compliance management and communication companies and partners · Establish a subsidiary compliance system and stabilize operation

Establishing the ESG Indicator Management System

Hansol Group has established the ESG Indicator Management System to implement more systematic and efficient sustainability management. Since January 2023, all affiliates have been utilizing the system. Accurate measurement guidelines for environmental data, essential for risk management in the industry, were established in collaboration with the Korean Standards Association. The company's integrated ESG data management aims to position Hansol as a leading force in sustainable management practices.

ESG Indicator Management System Details

Main menu	Submenu	Summary		
ESG indicator	Indicator pool search	Out of 1,000 evaluation items from global disclosure guidelines (GRI, TCFL and SASB) and domestic and overseas ESG evaluation agencies (KCGS,		
management	Indicator classification and management	DJSI, MSCI), indicators are selected and managed based on importance, usability, representativeness, clarity, and urgency.		
	Indicator selection by industry group	Utilize 2 ESG inspection processes		
ESG indicator selection	Affiliate industry classification	Review and assess about 60 common indicators for all affiliates Use industry-specific indicators according to operating businesses of		
	Affiliate ESG-indicator management	each affiliate		
	Measurement plan establishment	· Provide a comprehensive overview of indicators for all affiliates for easy		
ESG inspection	Indicator inspection	monitoring. Implement continuous data management by defining data-management		
	Approval of measurement results	cycles and assigning responsible personnel.		
	Three-Year data	Company and connect FCO data actioned by each company for up to these		
ESG data	Indicator performance by company	Compare and manage ESG data entered by each company for up to three years for each indicator		
D. H. C. L.	Notifications	· Share notifications and facilitate information-sharing among ESG working-		
Bulletin board	Q&A	level staff		



- Appendix -

00	Materiality rest	110	Armates with Certifications
88	Data Center	119	Awards
112	GRI Content Index	120	Local Business Sites
115	UN Sustainable Development Goals	121	Membership of Association

116 Independent Assurance Statement

MATERIALITY TEST

Hansol Group selects key issues by analyzing the interests of stakeholders, at home and abroad, and their impact on business. The materiality tests are conducted by comprehensively considering international sustainability-management standards, such as GRI Standards, UN SDGs, and ISO26000; social issues exposed to the media; and sustainable management trends in the same industry. In 2023, we identified and disclosed 10 key issues, along with our management approach and achievements in this report.

Materiality-Test Process

To establish the core reporting content of the sustainability report and prioritize sustainability-management issues, we conducted a materiality test following the Global Reporting Initiative (GRI) guidelines. The test consisted of the following four steps:

Step 3.

Step 1. Create a pool of basic issues

- · Analyze press releases, data, and global trends from January 2022 to March 2023.
- Examine the issues of 15 domestic and international competitors.
- Align with international standards, such as ISO 26000, GRI, ESRS general requirements, and ESG evaluation standards like K-ESG and MSCI.
- · Identify 28 sustainability issues.

86

Step 2. Materialist test

- Ensure alignment with international standards for the issue pool and validate stakeholder interests.
- · Identify key issues through stakeholder surveys.
- Evaluate the materiality of key issues.
 Select 10 material issues.

Key issue management

- · Identify risks and opportunities related to the material issues.
- Manage activities and performance associated with these issues, including the responsible organizations.
- · Set strategic tasks to prepare for future external evaluations.

Step 4.

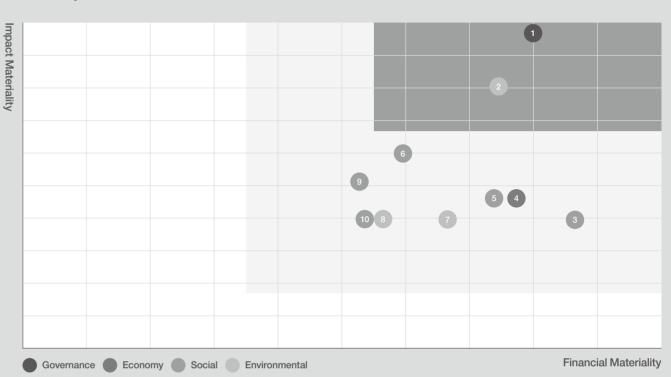
Monitoring and reporting

- · Analyze the findings and prepare the Sustainability Report.
- · Share the report with major affiliate organizations and gather feedback.
- · Disclose the report online and offline, and share it with shareholders.

Channels of communication with stakeholders

Stakeholders	Channels of communication				Issues of interest	
Employees	Communication board Investor presentation Communication with management In-house broadcasting Employee-satisfaction survey		Labor-management council Employee portal Employee training Workshop		Fair compensation, safe working environment, mid- to long-term vision, professional training, employee communication, employee benefits, management-labor relations	
Partner companies	Meetings Mutual growth workshops Mutual growth council		Surveys Mutual growth day		Mutual growth, win-win business management, sustainable business management	
Shareholders and investors	General meetings of shareholder Marketing brochures Investor meetings Calls for outside director candida		Disclosure, business performance presentation Business reports Sustainability Report Corporate governance reports		Transparent business activities, transparent disclosure, and governance reform Business portfolio improvement	
Government and local governments	Ministry of Environment Participation in policy research	· Ministry of Economy and Finance · FSC, ISO		e ·FSC, ISO	Job creation; tax compliance, and legal compli- ance for the fulfillment of corporate responsibility and contribution to the nation's sustainable devel- opment; compliance with regulations; response to climate change; response to and engagement in pubic policy; workplace safety compliance	
Customers	Website YouTube Customer satisfaction surveys	· Blog · Brochures · Customer even	ıts	Facebook Marketing videos Exhibitions and fairs	Quality- and service-improvement, customer communication, brand value	
Local community / NGO	CSR activities Communication with local comm Sustainability Reports	nunities near busir	ness sites		Reduction of waste water and waste, pollutant management in worksites, job creation and main- tenance, CSR activities, development of the local economy	

Materiality-Test Results



Reports on key issues as a result of the materiality tests

Category	Key	issues	GRI Content Index	Report details	Page no.
Governance	1	Ethical management and anti-corruption	GRI 3-3, GRI 205-2	Ethics and compliance management	p.22~24, 34, 81~83
Environmental	2	Management of air pollutants in the manufacturing process	GRI 3-3, GRI 305-8	Environmental pollutants and waste management	p.44, 56
Social	3	Creation of a safe work environment	GRI 3-3, GRI 403	Safety and health management	p.25, 28, 29, 64
Economy	4	Enhancing product responsibility and customer satisfaction	GRI 3-3, GRI 416	Management for customer satisfaction	p.30, 31, 44
Social	5	Promotion of work-life balance	GRI 3-3, GRI 401-3		p.20, 64, 66, 67
Social	6	Supporting employee capacity-building	GRI 3-3, GRI 404	Growth with employees	p.62, 63
Environmental	7	Minimizing raw material consumption and promoting recycling	GRI 3-3, GRI 306-4	GHG-emissions reduction and energy conservation	p.21, 54, 58, 59
Environmental	8	Safe waste, wastewater, and chemical discharge management	GRI 3-3, GRI 303-2	Environmental pollutants and waste management	p.21, 56
Social	9	Fostering an agile organizational culture	-	Growth with employees	p.65~67
Social	10	In-house human rights policy and education	-	Human rights in business	p.62

DATA CENTER

Hansol Holdings

Economy

Category			Unit	2020	2021	2022
	Sales			26,323	29,323	34,361
	Selling, gene administrativ			15,360	16,019	18,082
	Operating in	come		10,963	13,304	16,279
Income	Financial inc	ome	KRW	412	964	1,470
statement	Financial exp	penses	million	367	406	1,036
	Other incom	e		10,194	2,233	248
	Other expen	ses		30	63	2,769
		before the deduction tax expenses		21,171	16,031	14,190
	Assets	Current assets		56,289	64,779	73,919
	Assets	Non-current assets		381,185	386,883	382,738
Balance		Current liabilities	KRW	9,160	9,394	10,299
sheet	Liabilities	Non-current liabilities	million	1,279	7,373	6,566
	Capital			427,035	434,896	439,792

(Based on the separate financial statements)

88

Category			Unit	2020	2021	202
Total number	r of employees	3	Persons	47	50	4
		Total		11	10	
	Executives	Female		0	0	
Current		Male	_	11	10	
employees		Total	_			3
(by	Permanent	Female	Persons			1
employment		Male	-			2
-7 (/	Non-	Total	-			
	permanent	Female	-			
0 1 1		Male				
	workers		Persons			
employees	Full-time		Persons -	44	47	4
schedule)	Part-time			3	3	
Current	Domestic		Persons -	45	47	4
(by location)	Overseas			2	3	
	No. of male e	mployees	Persons	41	41	3
	Ratio of male	employees	%	64	47 50 11 10 0 0 0 11 10 10 35 39 6 9 29 30 1 1 1 0 0 0 44 47 3 3 3 45 47 2 3 41 41	6
	No. of female	employees	Persons	6		
oy work chedule) Zurrent imployees by location)	Ratio of fema	le employees	%	13	18	2
	No. of male e	xecutives	Persons	11	10	
	Ratio of male	executives	%	23	20	
	No. of female	executives	Persons	0	0	
	Ratio of fema	le executives	%	0	0	
	No. of female (manager lev		Persons	1	1	
	Ratio of fema (manager leve		%	2	2	6
		No. of employees with disabilities	Persons	0	0	
Employee		Ratio of employees with disabilities	%	0	0	
arro. only		No. of senior employ- ees (Over 55 years old, excluding executives)	Persons	0	0	
		Ratio of senior employees	%	0	0	
	Hiring of the socially dis-	No. of foreign employ- ees	Persons	2	3	
	advantaged	Ratio of foreign employees	%	4	6	
		No. of employees with high school degree	Persons	1	1	
		Ratio of employees with high school degree	%	2	2	
		No. of veterans	Persons	0	0	
		Ratio of veterans	%	0	0	

Category			Unit	2020	2021	2022
		Persons in the age group (Under 30 years of age)	Persons	0	0	1
		Percentage (Under 30 years old)	%	0	0	2
Employee	Employee composi-	Persons in the age group (30 ~ 50 years of age)	Persons	35	36	35
diversity	tion	Percentage (30 ~ 50 years of age)	%	74	72	76
		Persons in the age group (Above 50 years of age)	Persons	12	14	10
		Percentage (Above	%	26	28	22
	Male	50 years of age)		9	11	6
	female					2
New hires	TOTTIGIO	Under 30	Persons			1
14047111100	By age	30 ~ 50	1 0130113	10	0 0 36 72	7
	Dy ago	Above 50	-	1		
		Average male salary	KRW -	135		196.1
		Average female salary	million -	55		67.6
		Ratio of base salaries of female to male	%	40		34
		Average male executive salary	KRW	-	-	446.43
		Average female executive salary	million	-	-	C
	Base salary	Ratio of base salary of female executive to male executive	%	-	-	C
		Average male perma- nent employee salary	KRW		-	117.21
Employee compensa-	and remu- neration by	Average female perma- nent employee salary	million		36 72 14 28 111 3 0 13 1 139 75 53 - - - - - - - - - - - - -	71.88
tion	gender	Ratio of base salary of female permanent employee to male permanent employee	%	-		61
		Average male non-per- manent employee salary	KRW	-		82.54
		Average female non-permanent employee salary	million	-		24.7
		Ratio of base salary of female non-perma- nent employee to male non-permanent employee	%	-		30
	Average year	rs of service	Years	9.5	9	9.7
Job	Total number	of employee turnovers	Persons	-	-	13
security	Voluntary tur	nover	% -	-	-	69.2
	Non-voluntai			-	-	30.8
	education	ciaries of training/	Persons	47	50	46
Talent de-	Total budget training/educ	for employee cation	KRW million	29	17	19.9
velopment		enses per employee	1,000	627		433
		ours of training	Hours	2,947	1,794	1,098
	employee	ing hours per	Hours	54	49	23.87
	occurred	rial accidents	Ea.	0	0	0
Industrial	Industrial acc	cident rate	%	0	0	C
accidents	No. of deaths	3	Davagna	0	0	C
	No. of injuries	s	Persons -	0	0	0
	Duration of w	ork-hour loss	Hours	0	0	0
	No. of violation	ons of fair trade laws	Ea.	0	0	0
Fair trade	Fines impose	ed.	KRW		0	0
	. IIIoo IIIIpost		million	0	0	U

Category			Unit	2020	2021	2022
Informa- tion-securi- ty breaches	Customer-da and loss	ta leakage, theft,	Ea.	0	0	0
Workplace discrimina- tion		aints filed in relation discrimination	Ea.	0	0	0
Incidents of non-com-	No. of violations	ns that resulted in		0	0	0
pliance with regulations	No. of warnin compliance	gs from non-	Ea.	0	0	0
and internal codes	No. of violatio	ns of internal codes		0	0	0
Work	No. of work-lo	oss cases in partner	Ea.	-	-	0
	Employees	Total		-	-	0
	who have taken pa-	Male		-	-	0
	rental leave	Female		-	-	0
	No. of employees	Total	Persons	-	-	1
	who have returned to work after	Male		-	0	
	parental leave	Female		-	-	1
Parental leave	Return rate of have taken pa	employees who arental leave	%	-	-	100
	No. of employees who have worked over 12 months after returning from parental leave	Total		-	-	0
		Male	Persons	-	-	0
		Female		-	-	0
	worked over	oyees who have 12 months after n parental leave	%	-	-	0
	Duration of hu Hours	uman rights training	Hours	43	50	46
Human rights	Duration of ed prevention of	ducation for workplace bullying	Total -	43(1)	49(1)	46(1)
policies and	Duration of ed harassment p	ducation for sexual prevention	hours	43(1)	49(1)	46(1)
procedures		ion (Human rights people with	(Per em- ployee)	43(1)	49(1)	46(1)
	Investment	Cash donations	KRW	20	10	10
	in CSR (incl. donation)	Non-cash donations	million	0	0	0
CSR	Total voluntee	er hours		-	480	564
	Average volumemployee	nteer hours per	Hours	-	9.6	12
	Direct benefic support prog		Persons	-	250	406

*Industrial-accident rate: (number of injured workers / number of workers subject to industrial accidents) × 100, applies to all affiliates

* Base salary ratio: Calculated based on average remuneration, applies to all affiliates

*Parental leave: Data for 2020 and 2021 were not collected; new disclosures in 2022

Governance

Category		Unit	2020	2021	2022
	No. of Board meetings	Times	9	7	6
	No. of agendas	Ea.	22	15	13
D	Preliminary deliberation	%	100	100	100
Board of Directors	Decisions on revised agenda	Ea.	0	0	0
Directors	Reported agenda	Ea.	10	8	8
	BOD attendance rate	%	98.4	100	100
	Non-executive attendance rate	70	100	100	100
	Male	D	7	7	7
	Female	Persons	0	0	0
	Ratio of female directors in the BOD	%	0	0	0
Board	Under 30 years		-	0 0 - 7 - 3	
diversity	30 ~ 50 years	_	-	-	- 0 - 0 - 7 - 3 - 43
	Above 50 years	Persons	-	-	7
	No. of outside directors		-	-	3
	Ratio of outside directors	%	-	-	43
	No. of Board members who received ethics training	Persons	7	7	7
	Ratio of Board members who received ethics training	%	100	100	100
	Total no. of employees who received ethics training	Persons	47	50	46
Anti-cor- ruption	Ratio of employees who received ethics training	%	100	100	100
policies and procedures	Total no. of Board members who have signed the ethics pledge	Persons	7	7	7
	Ratio of Board members who have signed the ethics pledge	%	100	100	100
	Total no. of employees who have signed the ethics pledge	Persons	45	47	46
	Ratio of employees who have signed the ethics pledge	%	96	94	100
Anti-cor- ruption violations	No. of anti-corruption violations	Ea. (persons)	0	0	0

* Newly disclosed indicators for 2022: Age-based classification of Board members used by Hansol Holdings is uniformly applied across all affiliates.

Hansol Paper

Economy

Category			Unit	2020	2021	2022
	Sales			1,509,871	1,834,224	2,457,953
	Gross profit			300,684	361,179	572,466
	Selling, gen administrati	eral, and ve expenses		206,123	300,451	442,241
	Operating in	ncome	LCDIAL	94,561	60,728	130,226
Income statement	Financial ind	come	KRW	million 10,165 26,282	4,090	12,561
Statement	Financial ex	penses	TIMMOTI		28,022	45,852
	Other incon	ne		13,530	16,429	48,250
	Other exper	nses		19,784	24,479	49,357
		before the deduction tax expenses		72,189	28,746	95,828
	Assets	Current assets		567,002	663,678	1,007,797
	Assets	Non-current assets		1,173,433	1,224,155	1,202,219
		Current liabilities		618,262	727,426	1,202,219
	Liabilities	Non-current liabilities		487,310	481,074	385,130
Balance sheet		Shareholders' equity in the parent company	KRW million	634,821	679,292	742,419
	Capital	Shareholders' equity in the non-controlling company		41	41	125
	Total R&D e current peri	xpenses for the od	KRW million	5,870	6,321	8,769
R&D	R&D expens	ses/sales	%	0.52	0.48	0.36
	No. of R&D	personnel	Persons	33	49	55

(Based on the consolidated financial statements)

90

Category			Unit	2020	2021	2022
Consumption materials	n of raw	Raw materials consumed	Tons	1,165,645	1,222,487	1,211,504
Consumption that contain	n of materials	Amount of recycled materials (reused raw materials) consumed	Tons	579,830	587,022	562,309
materials		Ratio of recycled materials (reused raw materials) consumed	%	49.7	48.0	46.4
		Total energy consumed		15,753	16,488	16,968
Energy con- sumption	Total energy consumed	Scope 1 energy consumption	TJ	2,358	2,347	2,176
		Scope 2 energy consumption		13,395	14,141	14,792
		Total amount of water consumed		23,735,541	26,733,756	30,530,836
	Total	Amount of water consumed		6,076,727	7,276,014	6,181,350
Water con-	amount of water consumed	Amount of underground water consumed	Tons	280,915	199,624	253,947
		Surface water		9,098,761	9,923,582	10,866,778
		Recycled water		11,585,858	9,334,536	13,228,761
	·	Amount of water reused		8,279,138	9,346,482	9,780,699
	Water reuse	Ratio of water reused	%	35	35	32
GHG emis-	Emissions	Direct emissions (Scope 1)	*CO-00	341,087	296,456	303,070
sions	Emissions	Indirect emissions (Scope 2)	tCO2eq	587,461	626,738	725,892
		SOx		2.3	0.8	15
Air pollut-	F::	NOx	T	89.9	73.7	8,982
ants	Emissions	HCI	Tons	5.4	5.4	520
		PM		8.4	14.7	184
		BOD		9	8	27
Water pollutants	Amount discharged	COD	ppm	32	31	74
		SS		13	11	95
	Total amount	Total amount of waste		250,523	235,754	346,280
	of waste (amount	Waste discharged at business sites	Tons	235,648	220,428	323,015
Waste	treated in	Designated waste	. 01.0	2,332	2,172	5,317
	Korea)	Domestic waste		12,543	13,154	17,947
	Waste	Recycled amount		134,457	122,424	134,559
	recycling rate	Waste recycling ratio	%	37.3	40.0	40.0

Category		Unit	2020	2021	2022
Violations of environmental laws and regulations	Amount of fines	KRW million	3	2	0
Environmental expenses and investments	Environmental investments	KRW million	5,600	6,000	1,488
	Sales of green products and services	KRW million	-	-	146,470
Sales of green products	Total sales		-	-	207,801
	Ratio of sales related to green products	%	-	-	70.5

Social

Category			Unit	2020	2021	2022	
Total number	r of employees	3	Persons	1,186	1,202	1,657	
		Total		27	24	24	
	Executives	Female		0	0	0	
		Male		27	24	24	
Current employees		Total		1,168	1,186	1,575	
by employ-	Permanent	Female	Persons	101	99	129	
ment type)		Male Total		1,067 18	1,077	1,464	
	Non-	Female		6	4	14	
	permanent	Male	-	12	12	50	
Outsourced	workers	ividie	Persons	0	0	0	
Current			1 6130113				
employees by work	Full-time		Persons	1,168	1,186	1,575	
schedule)	Part-time			0	0	C	
Current employees	Domestic		Persons -	1,178	1,192	1,639	
(by location)	Overseas		. 0.00.10	8	10	18	
	No. of male e	mployees	Persons	1,078	1,089	1,514	
	Ratio of male	employees	%	90.4	90.6	91.4	
	No. of female	employees	Persons	107	113	143	
	Ratio of fema	le employees	%	9.6	9.4	8.6	
	No. of male e	xecutives	Persons	27	24	24	
	Ratio of male	executives	%	2.2	1.9	1.7	
	No. of female	executives	Persons	0	0	1.7 0	
	Ratio of fema	le executives	%	0	0		
	No. of male n		Persons	180	197		
	Ratio of male (manager-lev	managers	%	15.1	16.3	17.3	
	No. of female (manager-lev	managers	Persons	3	5	8	
		of female managers	%	0.3	0.4	0.4	
Employee	(manager rev	No. of employees with disabilities	Persons	30	34	43	
diversity	Hiring of the socially dis-	Ratio of employees	%	2.5	2.8	2.9	
	advantaged	with disabilities No. of veterans	Persons	21	25	24	
		Ratio of veterans	%	1.8	2.1	1.5	
		Persons in the age group (Under 30 years of age)	Persons	162	176	254	
		Percentage (Under 30 years of age)	%	14	15	15	
	Employee composi-	Persons in the age group (30 ~ 50 years of age)	Persons	763	702	917	
	tion	Percentage (30 ~ 50 years of age)	%	64	58	55	
		Persons in the age group (Above 50 years of age)	Persons	251	324	486	
		Percentage (Above 50 years of age)	%	21	27	29	
	Male			73	114	211	
	female			15	14	26	
New hires		Under 30 years	Persons	51	89	124	
	By age	30 ~ 50 years		32	43	75	
	, 5-	Above 50 years		4	2		

Category			Unit	2020	2021	2022	
		Average male		75	73	90	
		Average female	KRW million	49	49	64	
		Ratio of base salary of female to male	%	65	67	72	
		Average male executive salary	KRW			338	
		Average female executive salary	million		-	0	
Employee		Ratio of base salary of female executive to male executive	%	-	-	0	
	Base salary	Average male permanent employee salary	KRW	-	-	61	
Employee compensa- tion	and remu- neration by gender	Average female permanent em-	million		-	48	
		Ratio of base sal- ary of female per- manent employee to male permanent	%		-	78	
		employee Average male					
		non-permanent employee salary	KRW			43	
		Average female non-permanent employee salary	million			26	
		Ratio of base salary of female non-permanent employee to male non-permanent employee	%	-	-	61	
	Average year		Years	17.6	17.5	15.8	
Job		of employee turnover	Persons	74	111	182	
security	Voluntary tur		%	3.4	6.0	8.7	
		ciaries of training/	Persons	1,186	1,202	1,657	
Talent de-		for employee cation	KRW million	542	986	820 740 53 51	
velopment		enses per employee	KRW 1,000	476	820		
	Average train employee	ning hours per	Hours	61	53		
	occurred	rial accidents	Ea.	7	5	3	
Industrial	Industrial acc	cident rate	%	0.82	0.57	0.28	
accidents	No. of deaths		Persons	0	0	0	
	No. of injurie			7	5	3	
	Duration of v	vork-hour loss Total no. of partner	Hours Ea.	1,001	2,096 1,027	9,336	
Mutual growth	Suppliers	Total purchase from partners	KRW million	173,727	193,016	246,200	
	No of violation	ons of fair trade laws	Ea.		0	0	
Fair trade	Fines impose		KRW	0	0	0	
Information- security breaches	Customer-da and losses	ata leakages, theft,	Ea.	0	0	0	
Workplace discrimina- tion		aints filed in relation discrimination	Ea.	0	0	0	
Incidents of non-com-	No. of violations	ons that resulted in		1	0	0	
pliance with regulations	No. of warnir compliance	ngs due to non-	Ea.	0	1	0	
and internal codes		ons of internal codes			0	0	
Work losses	companies	oss cases in partner	Ea.		-	0	
	Employees	Total		1	2	4	
	who have taken pa- rental leave	Male Female			1 1	0	
	No. of						
Parental leave	employees who have	Total	Persons		6	4	
	returned to work after	Male			1	0	
	parental			1	5	4	

Category			Unit	2020	2021	2022
	Return rate of have taken pa	employees who rental leave	%	100	100	80
	No. of em- ployees who have worked	Total		10	6	4
Parental leave	over 12 Male months after returning	Male	Persons	2	1	0
	from paren- tal leave	Female	8		5	4
	Ratio of employees who have worked over 12 months after returning from parental leave		%	100	100	100
	Human rights person)	training (per	Hours	3.08	5.82	3.33
Human rights	Duration of education for prevention of workplace bullying		Total	1,185(1)	1,202(1)	1,788
policies and procedures	Duration of ed harassment p	lucation for sexual revention	hours (Per em-	1,185(1)	1,202(1)	1,732
	Other education disabilities, et		ployee)	1,185(1)	1,202(1)	1,620
	Investment in CSR (incl. donation)	Cash donation	KRW million	307	336	328
CSR	Total voluntee	r hours	Hours,	3,000	115	230
	No. of particip	ants	Persons	906	40	57
	Direct benefic support progr		Persons	491	360	700

Incidents of non-compliance with regulations and internal codes
1. Judicial agency sanctions in 2020: KRW 17 million
2. Tax authorities sanctions in 2021: KRW 3,814 million

Category		Unit	2020	2021	2022
	No. of Board meetings	Times	13	8	11
Board of Directors	Preliminary deliberation	% -	100	100	100
Directors	BOD attendance rate	% -	97.80	100	11
	Male	D	7	8	8
	Female	Persons -	0	0	0
	Ratio of female directors in the BOD	%	0	0	0
Board diversity	Under 30 years		-	-	0
liversity	30 ~ 50 years	Persons -	-	-	0
	Above 50 years	Persons -	-	-	8
	No. of outside directors		3	3	5
	Ratio of outside directors	%	11	12.5	20.8
	Total no. of business sites		6	6	6
Anti-	No. of business sites that conducted anti-corruption risk assessment	Ea.	6	6	5 20.8 6 6 100 8
corruption	Ratio of business sites that conducted anti-corruption risk assessment	%	100	100	100
	No. of Board members who received ethics training	Persons	7	8	100
	Ratio of Board members who received ethics training	%	100	100	100
	Total no. of employees who received ethics training	Persons	1,185	1,202	20.8 6 6 100 8 100 1,661
Anti-cor- ruption	Ratio of employees who received ethics training	%	100	100	100
oolicies and procedures	Total no. of Board members who have signed the ethics pledge	Persons	7	8	8
	Ratio of Board members who have signed the ethics pledge	%	100	100	100
	Total no. of employees who have signed the ethics pledge	Persons	-	1,139	1,657
	Ratio of employees who have signed the ethics pledge	%	-	94.7	98.9
Anti-cor- ruption violations	No. of anti-corruption violations	Ea. (persons)	0	0	0

Sustainability Essentials 2023 Hansol Group Sustainability Report Introduction Hansol Sustainability Action Appendix 91

^{*}Total energy consumed in 2021: Discrepancies in statistics due to the difference between the report publication date and data collection period.

*Amount of water pollutants discharged: Units extracted from Hansol Paper's Sustainability Report

*Emissions increased due to the incorporation into the Environmental Business Headquarters in 2022.

Hansol PaperTech

Economy

Category			Unit	2020	2021	2022
	Sales			100,216	134,802	130,363
	Gross profit			11,406	15,954	16,222
	Selling, gen administrati	eral, and ve expenses		9,005 9,840		10,814
	Operating in	ncome	KRW million	2,401	6,113	5,408
Income statement	Financial inc	come		221	127	194
Statement	Financial ex	penses	THIIIIOTT	777	359	336
	Other incon	ne		98	322	1,011
	Other exper	nses		968	854	526
		before the deduction tax expenses		975	5,350	5,751
	A + -	Current assets		22,734	27,362	29,294
	Assets	Non-current assets		48,116	48,115	49,235
Balance sheet		Current liabilities	KRW	24,582	25,948	22,512
	Liabilities	Non-current liabilities	million	3,417	2,170	1,726
	Capital		_	43.461	47.358	54.290

(Based on the separate financial statements)

92

Environm	ent					
Category			Unit	2020	2021	2022
Consumptio materials	n of raw	Raw materials consumed	Tons	303,368	333,932	292,719
that contain	n of materials	Amount of recycled materials (reused raw materials) consumed	Tons	300,017	332,722	270,925
materials		Ratio of recycled materials (reused raw materials) consumed	%	98.9	99.6	92.6
_		Total energy consumed		1,168	1,235	1,449
Energy consump- tion	Total energy consumed	Scope 1 energy consumption	TJ	380	450	352
tion		Scope 2 energy consumption		788	785	1,097
		Total amount of water consumed		2,218,918	1,969,116	1,433,016
	Total	Amount of water consumed		6,503	5,475	9,227
Water con- sumption (amount, based on	amount of water consumed	Amount of underground water consumed	Tons	512,483	230,372	1,152,055
domestic data)		Amount of stream water consumed		1,352,722	1,458,720	271,734
autay	Water reuse	Amount of water reused		347,210	274,549	38,449
	vvater reuse	Ratio of water reused	%	15.6	13.9	2.7
GHG emis-	F::	Direct emissions (Scope 1)	+00	68,949	38,275	75,061
sions	Emissions	Indirect emissions (Scope 2)	tCO ₂ eq	75,695	37,554	35,059
		SOx		4.07	3.9	2.16
Air pollut-	Emissions	NOx	lea.	38.89	39.32	26.77
ants	EIIIISSIOIIS	PM	kg	1.75	2.25	1.56
		PFC		0	0	245,736
		BOD		3.7	15.4	1.8
Water	Emissions	TOC	nnm	-	-	20.2
pollutants	EIIIISSIOIIS	SS	ppm	5	5.2	4.1
		TN		8	5.5	4.5
	Total	Total amount of waste		21,749	18,902	11,665
	amount of waste (amount	Waste discharged at business sites	Tons	19,563	16,772	9,935
Waste		Designated waste	10113	2,186	2,130	1,730
		Domestic waste		0	0	0
	Waste	Recycled amount		6,289	3,100	3,147
	recycling rate	Waste recycling ratio	%	28.9	16.4	26.9
Environ- mental expenses	Environ- mental	Amount of environmental investments	KRW million	647	543	932
and invest- ments	investments	Environmental expenses	THIIIOTT	4,470	4,756	6,248

Social

Category	, .		Unit	2020	2021	2022
Iotal numbe	r of employees		Persons	131	142	143
		Total	_	4	5	4
	Executives	Female	_			0
Current		Male	_	4	5	4
employees	Permanent	Total		120	124	124
(by employ-	remanent	Female Male	Persons _	116	120	120
ment type)		Total	-	4	11	13
	Non-	Female	-		0	0
	permanent	Male	-		11	13
Outcourood	workers	ividie	Persons -	3		2
Outsourced Current employees	Full-time			131	142	143
(by work schedule)	Part-time		Persons -	0	0	0
Current em- ployees (by	Domestic		Persons -	131	142	143
ocation)	Overseas					0
	No. of male e	mployees	Persons	124	136	137
	Ratio of male	employees	%	94	95	97
	No. of female	employees	Persons	7	6	4
	Ratio of fema	le employees	%	6	5	3
	No. of male e	xecutives	Persons	4	5	4
	Ratio of male	executives	%	100	100	100
	No. of female	executives	Persons	0	0	0
	Ratio of fema		Persons 4 5 4 % 100 100 100 Persons 0 0 0 % 0 0 0 Persons - - 26 % - - 18 Persons 1 1 1 % 1 1 1 % 1 1 1 % 1 3 3 3 3 3			
	No. of male n (manager-lev	nanagers				
	Ratio of male (manager leve	managers	%	-	-	18
	No. of female		Persons	1	1	1
	Ratio of fema (manager leve	le managers	%	1	1	1
		No. of employees with disabilities	Persons	3	3	3
		Ratio of employees with disabilities	%	2	2	2
		No. of senior employees (55 years or older, excl. executives)	Persons	16	25	30
Employee		Ratio of senior employees	%	12	18	21
diversity	Hiring of the socially dis- advantaged	No. of foreign employees	Persons	0	0	0
		Ratio of foreign employees	%	0	0	0
		No. of employees with high school degree	Persons	58	69	62
		Ratio of employees with high school degree	%	44	49	44
		No. of veterans	Persons	0	0	62
		Ratio of veterans	%	0	0	0
		Persons in the age group (Under 30 years of age)	Persons	-	-	19
		Percentage (Under 30 years of age)	%	-	-	13
	Employee	Persons in the age group (30 ~ 50 years of age)	Persons	-	-	75
	composi- tion	Percentage (30 ~ 50 years of age)	%	-	-	53
		Persons in the age group (Above 50 years of age)	Persons	-	-	47
		Percentage (Above 50 years of age)	%	-	-	33
	Male			8	11	15
	female			0	0	0
New hires		Under 30 years	Persons	5	5	
	By age	30 ~ 50 years			4	
	Dy ago		-			
		Above 50 years Average male				4
Employee	Base salary	salary Average female	KRW _	54 ————————————————————————————————————	55	70
compensa- tion	and remu- neration by	salary Ratio of base		44	47	13 75 53 47 33 15 0 3 8
	gender	salaries of female to male	%	81	85	79

Category			Unit	2020	2021	2022
		Average male executive salary	KRW	-	-	363
		Average female	million	-	-	0
		Ratio of base				
		salary of female executive to male		-	-	0
		Average male permanent employee				71
	Base salary and remu- neration by gender	Average female permanent em-	KRW million			56
Employee compensa- tion		ployee salary Ratio of base sal-				
		ary of female per- manent employee to male permanent employee	%	-	-	79
		Average male non-permanent		-	-	52
		employee salary	KRW			
		Average female non-permanent employee salary	million	-	-	0
		Ratio of base salary of female non-permanent employee to male non-permanent	%	-	-	0
	Average year	employee rs of service	Years	11	11.5	9
Job		of employee turnovers	Persons		-	13
security	Voluntary tur		0/		-	77
	Non-volunta	ry turnovers	%		-	23
Talent de- velopment	education	ciaries of training/	Persons	130	143	141
	Total budget training/educ	for employee cation	KRW million	195	203	90
	Training expe	enses per employee	KRW 1,000	1,500	1,420	638
	Total no. of h	ours of training		-	-	9,306
	employee	ing hours per	Hours	66	66	66
	No. of indust occurred	rial accidents	Ea.	4	1	0
Industrial	Industrial acc	cident rate	%	3	0.7	0
accidents	No. of deaths	3	Persons	0	1	0
	No. of injuries	S		4	0	0
	Duration of w	ork-hour loss	Hours	960	0	0
Mutual	Cumpliara	Total no. of partner companies	Ea		1	181
growth	Suppliers	Total value of purchases from partners	KRW million	937	740	80,267
	No. of violation	ons of fair trade laws	Ea.	0	0	0
Fair trade	Fines impose	ed	KRW million	0 _	0	0
Informa- tion-securi- ty breaches	Customer da and losses	ta leakages, theft,	Ea.	0	0	0
Workplace discrimina- tion		aints filed in relation discrimination	Ea.	0	0	0
non-com-	No. of violations	ons that resulted in		0	0	0
pliance with regulations	No. of warnin	ngs from non-	Ea.	0	0	0
and internal codes		ons of internal codes		0	0	0
Work		oss cases in partner	Ea.		-	0
losses	companies Employees	Total			0	3
	who have	Male			0	1
	taken pa- rental leave	Female			0	2
	No. of employees	Total	Persons	0	0	2
Parental leave	who have returned to	Male		0	0	1
	work after parental	Female		0	0	1
	leave	remaie				

Category			Unit	2020	2021	2022
	No. of em- ployees who have worked	Total		0	0	2
Parental	over 12 months after returning from paren- tal leave	Male	Persons	0	0	1
leave		Female		0	0	1
	Ratio of employees who have worked over 12 months after returning from parental leave		%	-	-	67
Human rights policies and		Duration of education for prevention of workplace bullying		0	0	0
	Duration of ed harassment p	ducation for sexual prevention	Total hours (Per em-	262(1)	284(1)	286(2)
procedures	education for	Other education (Human rights ducation for persons with lisabilities, etc.)		262(1)	284(1)	286(2)
	Investment	Cash donation	KRW	14	12	23
	in CSR (incl. donation)	Non-cash donation	million	0	1	33
CSR	Total voluntee	er hours		0	301	1,716
0011	Average volumemployee	nteer hours per	Hours	0	2	12
	Direct beneficiaries of the support programs		Persons	140	140	-

^{*} Mutual growth: Due to the changes in disclosure indicator standards, the total purchases in this report are from all suppliers and partners in 2022.

Category		Unit	2020	2021	2022
	No. of Board meetings	Times	-	-	7
	No. of agendas	Ea.	-	-	16
	Preliminary deliberation	%	-	-	100
	Decisions on revised agenda		-	-	0
Directors	Reported agenda	Ea	-	-	6
No. No. Prel	BOD attendance rate	% -	-	-	95
	Non-executive attendance rate	% -	-	-	57
	Male	Daraana	-	-	5
	Female	Persons -	-	-	0
	Ratio of female directors in the BOD	%	-	-	0
Board	Under 30 years		-	-	0
aiversity	30 ~ 50 years	D	-	-	0
Anti- corruption n business sites	Above 50 years	Persons -	-	-	5
	No. of outside directors	-	-	-	1
	Ratio of outside directors	%	-	-	20
	Total no. of business sites		-	-	1
Anti- corruption in business - sites	No. of business sites that conducted anti-corruption risk assessments	Ea.	-	-	1
	Ratio of business sites that conducted anti-corruption risk assessments	%	-	-	100
ites R co	No. of Board members who received ethics training	Persons	-	-	5
	Ratio of Board members who received ethics training	%	-	-	100
	Total no. of employees who received ethics training	Persons	131	142	143
ruption	Ratio of employees who received ethics training	%	100	100	100
and proce- dures	Total no. of Board members who have signed the ethics pledge	Persons	-	-	5
	Ratio of Board members who have signed the ethics pledge	%	-	-	100
<u> </u>	Total no. of employees who have signed the ethics pledge	Persons	106	131	107
	Ratio of employees who have signed the ethics pledge	%	80	92	78
Anti-cor- ruption violations	No. of anti-corruption violations	Ea. (per- sons)	0	0	0

^{*} Ratio of employees who have signed the ethics pledge in 2022: The region's water scarcity posed challenges to normal production operations, leading to a decline in the ratio of employees who signed the ethical pledge.

Sustainability Essentials 2023 Hansol Group Sustainability Report Introduction Hansol Sustainability Action Appendix 93

Hansol PNS_Paper Distribution Division

Economy_Hansol PNS, comprehensive

Category			Unit	2020	2021	2022
	Sales			244,823	262,943	314,246
	Gross profit	:		20,436	24,039	28,474
	Selling, gen administrati	eral, and ive expenses		16,545	19,487	25,787
	Operating in	ncome		3,891	4,551	2,686
Income	Financial in	come	KRW	448	860	453
statement	Financial ex	penses	million	322	298	1,005
	Other incon	ne		536	367	1,400
	Other exper	nses		28	131	601
	Affiliates' pr	ofits and losses		0	83	-63
	Net income before the deduction of corporate tax expenses			4,523	5,432	2,870
		Current assets		89,360	73,580	98,702
	Assets	Non-current assets		17,766	36,130	36,241
		Current liabilities		60,301	53,430	78,697
	Liabilities	Non-current liabilities		3,168	6,236	5,145
Balance sheet		Shareholders' equity in the parent company	KRW million	43,656	46,577	47,355
	Capital			0	3,466	3,746

(Based on the consolidated financial statements)

Environment

Category			Unit	2020	2021	2022
Consumptio materials	n of raw	Raw materials consumed	Tons	240,900	229,400	225,100
F	Total energy consumed	Total energy consumed		7.3	6.6	6.8
Energy consump- tion		Scope 1 energy consumption	TJ	1.9	1.8	1.8
		Scope 2 energy consumption		5.3	4.7	5.0
GHG emis-	Emissions	Direct emissions (Scope 1)	tCO2ea	126	123	162
sions	LITIISSIOTIS	Indirect emissions (Scope 2)		255	225	239
	Total amount of waste (amount treated in Korea)	Total amount of waste	Tons	1,202	1,220	1,490
Waste		Waste discharged at business sites		1,202	1,220	1,490
		Designated waste	10110	-	-	0
		Domestic waste		-	-	0
	Waste	Recycled amount		1,188	1,220	1,489
	recycling rate	Waste recycling ratio	%	99	100	100
Environ- mental expenses	Environ- mental	Amount of environmental investments	KRW	3	4.5	3.7
and invest- ments	investments	Environmental expenses	HIIIIOH	-	5	
		Sales of green products and services	KRW million	-	-	298
Sales of gree	en products	Total sales		-	-	260,802
Sales of green products		Ratio of sales related to green products	%	-	-	0.11

Social

94

Category			Unit	2020	2021	2022
Total number	r of employees	3	Persons	79	86	95
		Total		1	2	5
	Executives	Female		0	0	0
Current		Male		1	2	5
	Permanent	Total		76	85	88
employees (by employ-		Female	Persons	16	20	20
ment type)		Male		60	65	68
, ,		Total		2	1	2
	Non- permanent	Female		1	0	1
	permanent	Male		1	1	1
Outsourced	workers		Persons	0	0	0

Category			Unit	2020	2021	2022
Current employees	Full-time		5	79	86	9
(by work schedule)	Part-time		Persons -	0	0	(
Current	Domestic			79	86	9
(by job location)	Overseas		Persons -	0	0	(
	No. of male employees		Persons	62	68	74
	Ratio of male	employees	%	78	77	78
	No. of female	employees	Persons	17	20	2
	Ratio of fema	le employees	%	22	23	2
	No. of male e		Persons	1	2	
	Ratio of male		<u>%</u>			
	No. of female		Persons _			
		nanagers (manager	<u>%</u>			
	level or highe		Persons	-	-	2
	Ratio of male (manager lev		%	-	-	2
	No. of female (manager lev	managers	Persons	0	0	
	Ratio of fema	le managers	%	0	0	
	(manager lev	No. of employees	Persons	1	1	
		Ratio of employees	%			
Employee		with disabilities No. of senior				
		employees (55 years or older, excl. executives)	Persons	2	1	-
		Ratio of senior employees	%	3	1	
diversity	Hiring of the socially dis-	No. of foreign employees	Persons	0	0	
	advantaged	Ratio of foreign employees	%	0	0	(
		No. of employees with high school degrees	Persons	21	24	3
		Ratio of employees with high school degrees	%	16	16	1
		No. of veterans	Persons	0	0	
		Ratio of veterans	%	0	0	
	Employee composi-	Persons in the age group (Under 30 years of age)	Persons	-	-	1
		Percentage (Under 30 years of age)	%	-	-	1
		Persons in the age group (30 ~ 50 years of age)	Persons	-	-	6
	tion	Percentage (30 ~ 50 years of age)	%		-	6
		Persons in the age group (Above 50 years of age)	Persons	-	-	1
		Percentage (Above 50 years of age)	%	-	-	1
	Male			6	19	1:
	female			4	3	
New hires		Under 30 years	Persons _	3 _	7	
	By age	30 ~ 50 years	_		15	
		Above 50 years			0	-
		Average male salary	KRW _	48	65	7
Employee		Average female salary	million	32	46	4
	Base salary and remu-	Ratio of base salary of female to male	%	66	70	6
compensa- tion	neration by gender	Average male executive salary	KRW _	-	-	19
	300	Average female executive salary	million	-	-	(
		Ratio of base salary of female executive to male executive	%	-	-	10

Category			Unit	2020	2021	20:
		Average male permanent	LCDIM	-	-	
	Dogo colony	Average female	KRW _ million			
Employee	Base salary and remu-	permanent employee salary		-	-	
compensa- tion	neration by	Ratio of base				
	gender	salary of female				
		permanent employees to	%	-	-	
		male permanent				
	Avorago voor	employees	Voore -	8.1	7.2	
Job	Average year	of employee turnovers	Years Persons	3	5	
security	Voluntary turi					1
-	Non-voluntar		% –			
		ciaries of training/	Persons	79	86	
	education					
	Total budget training/educ		KRW million	42	35	
Talent de-			KRW	532	407	4
velopment		nses per employee	1,000		407	
		ours of training	Hours -			1,2
	Average train employee	ing hours per	Hours	11	11	
	No. of industr	rial accidents		0	1	
	occurred					
Industrial	Industrial acc		<u>%</u>		1.2	
accidents	No. of deaths		Persons -		0	
	No. of injuries		Harrier -		1	
	Duration of w	ork-hour losses Total no. of partner	Hours		9	
Mutual	0	companies	Ea.	-	-	
growth	Suppliers	Total purchases	KRW		_	
	No of violatio	from partners ons of fair trade laws	million		0	
Fair trade			KRW			
	Fines impose	d 	million		0	
Informa- tion-securi- ty breaches	Customer-da and losses	ta leakages, theft,	Ea.	0	0	
Workplace discrimina-		aints filed in relation discrimination		0	0	
tion Incidents of	No. of violation	ons that resulted in		0	0	
non-com- pliance with	sanctions No of warnin	as for non				
regulations and internal	No. of warnin compliance		Ea.	0	0	
codes	No. of violation	ons of internal codes		0	0	
Work loss	No. of work-lo	oss cases in partner	Ea.	-	-	
	Employees	Total			3	
	who have	Male	-	0	0	
	taken paren- tal leave	Female	_		3	
	No. of employees	Total	Persons	0	1	
	who have returned to	Male	_	0	0	
	work after parental		-	0	1	
Parental	Return rate of	f employees who				
leave	have taken pa		%	0	53	
	No. of em-	Total		0	0	
	ployees who have worked		_			
	over 12 months after	Male	Persons _	0	0	
	returning from paren- tal leave	Female		0	0	
	Ratio of empl	oyees who have 12 months after	%	0	0	
		n parental leave				

Category			Unit	2020	2021	2022
	Duration of education for human rights		Hours	237	252	348
	No. of employees who completed human rights training		Persons	79	84	89
Human	Ratio of employees who completed human rights training		%	100	100	100
rights policies and procedures	Duration of education for prevention of workplace bullying		-	79(1)	86(1)	89
procoduros	Duration of education for sexual harassment prevention		Total hours (Per em-	79(1)	86(1)	89
	Other education (Human rights education for persons with disabilities, etc.)		ployee)	79(1)	86(1)	89
CSR	Investment	Cash donation	KRW			133
	in CSR (incl. donation) Non-cash donation		million			-

Governance

Category		Unit	2020	2021	2022
	No. of Board meetings	Times	-	-	10
BOD operation*	No. of agendas	Ea.	-	-	2
operation	BOD attendance rate	%	-	-	9
	Male	D	-	-	(
	Female	Persons -	-	-	(
	Ratio of female directors in the BOD	%	-	-	(
Board diversity*	Under 30 years		-	-	
uiversity	30 ~ 50 years	Darsons	-	-	2
	Above 50 years	Persons -	-	-	4
	No. of outside directors	-	-	-	2
	Ratio of outside directors	%	-	-	29
	Total no. of business sites		-	-	4
Anti- corruption	No. of business sites that conducted anti-corruption risk assessment	Ea.	-	-	(
	Ratio of business sites that conducted anti-corruption risk assessment	%	-	-	(
	No. of Board members who received ethics training*	Persons	-	-	7
	Ratio of Board members who received ethics training*	%	-	-	100
	Total no. of employees who received ethics training	Persons	79	86	95
Anti-cor- ruption	Ratio of employees who received ethics training	%	100	100	100
policies and procedures	Total no. of Board members who have signed the ethics pledge*	Persons	-	-	7
	Ratio of Board members who have signed the ethics pledge*	%	-	-	100
	Total no. of employees who have signed the ethics pledge	Persons	79	86	95
	Ratio of employees who have signed the ethics pledge	%	100	100	100
Anti-cor- ruption violations	No. of anti-corruption violations	Ea. (per- sons)	0	0	(

* Total number for Hansol PNS

Hansol PNS_IT Service Division

Social

96

Category			Unit	2020	2021	2022
	r of employees		Persons	134	146	176
		Total		1	2	1
	Executives	Female		0	0	0
O		Male		1	2	1
Current employees		Total		133	143	175
(by employ-	Permanent	Female	Persons	37	104	47
ment type)		Male Total		96	104	128
	Non-	Female				0
	permanent	Male			0	0
Outsourced	workers		Persons			0
Current	Full-time		- 0.001.0			176
employees (by work	Part-time		Persons	0	146	0
schedule)						
Current em- ployees (by	Domestic		Persons	132	144	173
location)	Overseas		. 0.001.0	2	2	3
	No. of male e	employees	Persons	97	106	129
	Ratio of male	employees	%	72	73	73
	No. of female	employees	Persons	38	40	47
	Ratio of fema	ale employees	%	28	27	27
	No. of male e	executives	Persons	1	2	1
	Ratio of male	executives	%	1	1	1
	No. of female	executives	Persons	0	0	0
	Ratio of fema	ale executives	%	0	0	0
	No. of male n	nanagers (manager er)	Persons	-	-	41
	Ratio of male level or highe	managers (manager er)	%	-	-	23
	No. of female (manager leve		Persons	16	16	5
	Ratio of fema (manager lev		%	12	11	3
		No. of employees with disabilities	Persons	0	0	0
		Ratio of employees with disabilities	%	0	0	0
		No. of senior employees (55 years or older, excl. executives)	Persons	1	1	2
Employee		Ratio of senior employees	%	1	1	1
diversity	Hiring of the socially dis- advantaged	No. of foreign employees	Persons	1	1	0
	auvantageu	Ratio of foreign employees	%	1	1	0
		No. of employees with high school degrees	Persons	3	2	3
		Ratio of employees with high school degrees	%	3	2	2
		No. of veterans	Persons	0	0	0
		Ratio of veterans	%	0	0	0
		Persons in the age group (Under 30 years of age)	Persons	-	-	30
		Percentage (Under 30 years of age)	%			17
	Employee	Persons in the age group (30 ~ 50	Persons		-	124
	composi- tion	years of age) Percentage (30 ~ 50 years of age)	%			70
		Persons in the age group (Above 50 years of age)	Persons	-		22
		Percentage (Above 50 years of age)	%	-	-	13
	Male			11	26	42
	female			3	10	17
New hires		Under 30 years	Persons	4	6	12
	By age	30 ~ 50 years		10	14	43
		Above 50 years		0	0	4

Category			Unit	2020	2021	202
		Average male	1 (17)	61	60	6
		Average female	KRW million	46	47	
		Ratio of base salary of female to male	%	75	78	-
		Average male				
		Average female	KRW million			
		Ratio of base salary of female executive to male executive	%	-	-	10
	Base salary	Average male permanent employee salary	KRW	-	-	(
Employee compensa- tion	and remu- neration by gender	Average female permanent employee salary	million	-	-	4
		Ratio of base salary of female permanent employee to male permanent employee	%	-	-	
		Average male non-permanent employee salary	KRW	-	-	
	Aurrana	Average female non-permanent employee salary	million	-	-	
		Ratio of base salary of female non-permanent employee to male non-permanent employee	%	-		
	Average year	rs of service	Years	15.3	7	
Job	Total number	of employee turnover	Persons	14	7	2
security	Voluntary turnover		% -	-	-	10
	Non-voluntary turnover				-	
	No. of beneficiaries of training/ education		Persons	133	143	1
	Total budget for employee training/education		KRW million	148	128	1
Talent de- velopment	Training expenses per employee		KRW 1,000	716	776	9
	Total no. of h	ours of training		-	-	7,5
	Average training hours per employee		Hours	82	44	43
	No. of indust	rial accidents	Ea.	0	0	
	Industrial acc	cident rate	%	0	0	
Industrial accidents	No. of deaths	8	Persons -	0	0	
	No. of injuries	s	1 6130113	0	0	
	Duration of w	ork-hour loss	Hours	0	0	
Mutual	Suppliers	Total no. of partner companies	Ea.	46	35	
growth		Total purchase from partners	KRW million	5,200	4,427	12,9
	No. of violation	ons of fair trade laws	<u>Ea.</u>	0	0	
Fair trade	Fines impose	ed	KRW million	0	0	
Information security breaches	Customer da and losses	ta leakages, theft,	Ea.	0	0	
Workplace discrimina- tion	to workplace	aints filed in relation discrimination	Ea.	0	0	
Incidents of non-com-	No. of violations	ons that resulted in		0	0	
pliance with regulations	No. of warnin	ngs for non-	Ea.	0	0	
and internal codes		ons of internal codes		0	0	
	No of work I	oss cases in partner				

				2000	2004	2222			
Category			Unit	2020	2021	2022			
	Employees who have	Total		1	1				
	taken pa-	Male		0	0				
	rental leave	Female		1	1	2			
	No. of employees	Total	Persons	2	0	0			
	who have returned to work after	Male		0	0	0 0 0 0 0 0 0 507 169 96 169(1)			
	parental leave	Female		2	0	0 0 0			
Parental leave	Return rate of have taken pa	f employees who arental leave	%	100	0	0			
	No. of em- ployees who have worked	Total		2	0	0			
	over 12 months after returning	Male	Persons	0	0	0			
	from paren- tal leave	Female		2	0	0			
	worked over	oyees who have 12 months after n parental leave	%	100	0	0			
	Duration of ed	ducation for human	Hours	402	429	507			
	No. of employ human rights	ees who completed training	Persons	134	143	169			
Human rights	Ratio of empl completed hu	oyees who ıman rights training	%	100	100	96			
policies and procedures	Duration of ed prevention of	ducation for workplace bullying	Total	134(1)	145(1)	169(1)			
p	Duration of ed harassment p	ducation for sexual prevention	hours (Per em-	134(1)	145(1)	169(1)			
	Other educate education for disabilities, et		ployee)	134(1)	145(1)	169(1)			
CSR	Investment in CSR (incl. donation)	Cash donation Non-cash donations	KRW million	8.8	6.2	-			

Governance

Category		Unit	2020	2021	2022
DOD	No. of Board meetings	Times	-	-	13
BOD operation*	No. of agendas	Ea.	-	-	24
operation	BOD attendance rate	%	-	-	95
	Male	Persons	-	-	6
	Female	Persons	-	-	0
Daniel	Ratio of female directors in the BOD	%	-	-	0
Board	Under 30 years		-	-	-
diversity*	30 ~ 50 years	Persons	-	-	2
	Above 50 years	Persons	-	-	4
	No. of outside directors		-	-	2
	Ratio of outside directors	%	-	-	28.57
	Total no. of business sites		-	-	1
Anti- corruption	No. of business sites that conducted anti-corruption risk assessments	Ea.		-	1
	Ratio of business sites that conducted anti-corruption risk assessments	%	-	-	100
	No. of Board members that received ethics training*	Persons	-	-	7
	Ratio of Board members who received ethics training*	%	-	-	100
	Total no. of employees who received ethics training	Persons	134	145	176
Anti-cor- ruption	Ratio of employees who received ethics training	%	100	100	100
policies and procedures	Total no. of Board members who have signed the ethics pledge*	Persons	-	-	7
	Ratio of Board members who have signed the ethics pledge*	%	-	-	100
	Total no. of employees who have signed the ethics pledge	Persons	134	145	176
	Ratio of employees who have signed the ethics pledge	%	100	100	100
Anti-cor- ruption violations	No. of anti-corruption violations	Ea. (per- sons)	0	0	0

^{*} Total number for Hansol PNS

Hansol HomeDeco

Economy

Category			Unit	2020	2021	2022			
	Sales			253,213	263,249	283,414			
	Gross profit			35,776	46,174	48,665			
	Selling, general	eral, and ve expenses		33,037	37,555	45,950			
	Operating in	ncome	LCDVA	2,739	8,619	2,714			
Income statement	Financial ind	come	KRW million	2,100	3,470	1,240			
Statement	Financial ex	penses	TIMMOTI	4,105	2,994	4,883			
	Other incom	ne		3,572	1,518	3,787			
	Other exper	nses		3,655	2,706	9,016			
		before the deduction tax expenses		650	7,905	(6,157)			
		Current assets		78,680	98,188	108,300			
	Assets	Non-current assets		216,309	216,472	211,195			
		Current liabilities		76,068	101,751	118,712			
Balance	Liabilities	Non-current liabilities	KRW	64,380	53,062	47,361			
sheet		Shareholders' equity in the parent company	million	154,542	159,847	153,347			
	Capital Shareholders' equity in the non-controlling company			0	0	74			
	Total R&D e.	xpenses for the od	KRW million	160	482	160			
R&D	R&D expens	ses/sales	%	0.06	0.18	0.06			
	No. of R&D	personnel	Persons	0	0	0			

(Based on the consolidated financial statements)

Environment

Environm	ent					
Category			Unit	2020	2021	2022
Consumptio materials	n of raw	Raw materials consumed	Tons	177,118	185,605	160,316
that contain	n of materials recycled	Amount of recycled materials (reused raw materials) consumed	Tons	84,723	96,985	87,323
materials		Ratio of recycled materials (reused raw materials) consumed	%	48	52	54
F		Total energy consumed		2,862	2,974	1,987
Energy consump- tion	Total energy consumed	Scope 1 energy consumption	TJ	-	-	965
uon		Scope 2 energy consumption		-	-	1,022
		Total amount of water consumed		610,228	592,392	617,044
Water con-	Total amount of water	Amount of water consumed		359,632	346,584	617,044 409,892 207,152
sumption (amount, based on domestic data)	consumed	Amount of underground water consumed	Tons	250,596	245,808	
	Water reuse	Amount of water reused		63,714	60,462	13,472
	vvater reuse	Ratio of water reused	%	10.4	10.2	2.2
GHG		Direct emissions (Scope 1)		13,621	12,905	9,316
emissions	Emissions	Indirect emissions (Scope 2)	tCO ₂ eq	48,180	48,865	46,088
		SOx		587	586	750
Air	Emissions	NOx	kg	80,846	72,073	72,750
pollutants	LITIIOOIOTIO	HAP	Rg	2,863	1,896	2,641
		PM		21,786	12,378	33,320
Water		BOD		11	14	9
pollutants	Emissions	COD	ppm	49	38	28
		SS		7	6	2
	Total amount	Total amount of waste		28,414	31,863	28,812
	of waste (amount	Waste discharged at business sites	Tons	25,983	29,291	28,251
Waste	treated in Korea)	Designated waste		2,430	2,570	561
	Waste	Recycled amount		20,770	25,299	21,792
	recycling rate	Waste recycling ratio	%	73	79	76

Category		Unit	2020	2021	2022
Violation of environmental laws and regulations	Amount of fines	KRW million	0	3	5
Environ- mental Environ- expenses mental and invest- ments investments	Amount of environmental investments	KRW - million	2.5	48.1	1,866
	Environmental expenses	million	1,755	2,132	1,887
	Sales of green products and services	KRW million	-	-	84,155
Sales of green products	Total sales	-	-	-	283,414
	Ratio of sales related to green products	%	-	-	29.7

*Energy consumption: Because GHG emissions and steam are measured in units of energy, it is impossible to distinguish between Scope 1 and Scope 2.

Social

Category			Unit	2020	2021	2022
Total number	r of employees	3	Persons	267	305	303
		Total		13	13	7
	Executives	Female		0	0	0
		Male		13	13	7
Current		Total	_	242	273	289
employees (by employ-	Permanent	Female	Persons _	20	31	30
ment type)		Male	_	222	242	259
	Non-	Total	_	12_	19	7
	permanent	Female	_	7	14	6
		Male		5	5	1
Outsourced	workers		Persons	0	0	0
Current employees	Full-time		Persons -	267	305	303
(by work schedule)	Part-time			0	0	0
Current em- ployees (by	Domestic		Persons -	263	301	298
location)	Overseas			4	4	5
	No. of male e	mployees	Persons	240	260	267
	Ratio of male	employees	%	89	85	88
	No. of female employees Ratio of female employees		Persons	27	45	36
	Ratio of fema	le employees	%	11	15	12
	No. of male e	xecutives	Persons	13	13	7
	Ratio of male	executives	%	5	4	2
	No. of female	executives	Persons	0	0	0
	Ratio of fema	le executives	%	0	0	0
		No. of male managers (manager level or higher)		-	-	46
	Ratio of male managers (manager level or higher)		%	-	-	15
	No. of female managers (manager level or higher)		Persons	2	3	1
	Ratio of fema (manager leve		%	2	4	0.3
Employee		No. of employees with disabilities	Persons	6	6	6
diversity		Ratio of employees with disabilities	%	2	2	2
		No. of senior employees (55 years or older, excl. executives)	Persons	9	7	13
		Ratio of senior employees	%	3	2	4
	Hiring of the socially dis-	No. of foreign employees	Persons	0	0	
	advantaged	Ratio of foreign employees	%	0	0	0.0
		No. of employees with high school degree	Persons	103	109	122
		Ratio of employees with high school degree	%	39	36	40
		No. of veterans	Persons	1	2	1
		Ratio of veterans	%	0.4	0.7	0.3

Category		D : 11	Unit	2020	2021	2022
		Persons in the age group (Under 30 years of age)	Persons		-	78
		Percentage (Under 30 years of age)	%		-	26
Employee diversity	Employee composi-	Persons in the age group (30 ~ 50 years of age)	Persons		-	- 158
ulversity	tion	Percentage (30 ~ 50 years of age)	%	-	-	52
		Persons in the age group (Above 50 years of age)	Persons		-	54
		Percentage (Above 50 years of age)	%	-	-	18
	Male			21	37	31
	female			10	21	2
New hires		Under 30 years	Persons	21	28	15
	By age	30 ~ 50 years			30	17
		Above 50 years			0	1
		Average male salary	KRW	6	33	47
		Average female	million	 25	25	35
		salary				33
		Ratio of base salary of female to male	%	59	66.8	75
		Average male executive salary		36	37	194
		Average male permanent employee salary	KRW million	59	67	44
Employee compensa- tion	Paga galany	Average female permanent employee salary		36	37	38
	Base salary and remu- neration by gender	Ratio of base salary of female permanent employee to male permanent employee	%		-	86
		Average male non-permanent employee salary	KRW	-	-	24
		Average female non-permanent employee salary	million	-	-	20
		Ratio of base salary of female non-permanent employee to male non-permanent employee	%		-	20
	Average year		Years	9.5	8	10.3
Job		of employee turnover	Persons		-	42
security	Voluntary tur	nover	%	-	-	100
	Non-voluntar	ry turnover			-	0
	No. of benefi education	ciaries of training/	Persons	267	305	296
		for employee	KRW million	250	210	29.6
Talent de- velopment		enses per employee	KRW	936	688	100
velopilielit			1,000			
		ours of training	Hours		-	6,216
	Average train employee	ing hours per	110015	29	22	21
		rial accidents	Ea.		2	3
In about 1. I	Industrial-ac	cident rate	%	0	0.65	0.96
Industrial accidents	No. of deaths	3	Persons	0	0	0
	No. of injuries			0	0	3
	Duration of w	/ork-hour loss	Hours	0	224	3,400
Mutual	Suppliers	Total no. of partner companies Total value of	Ea.		5	6
growth		purchases from partners	KRW million	6,244	6,606	7,498
Enir trada	No. of violation	ons of fair trade laws	Ea.	0	0	0
Fair trade	Fines impose	ed	KRW million	0	0	0
Informa- tion-securi- ty breaches	Customer-data leakages, theft, and losses		Ea.	0	0	0

Category			Unit	2020	2021	2022			
Workplace discrimina- tion		aints filed in relation discrimination	Ea.	0	0	0			
Incidents of non-com-	No. of violations	ons that resulted in		0	0	0			
pliance to regulations and internal	No. of warning compliance	gs from non-	Ea.	0	0	0			
codes	No. of violatio	ons of internal codes		0	0	0			
Work loss	No. of work-lo	oss cases in partner	Ea.	-	-	0			
	Employees who have	Total		3	4	2			
	taken	Male		0	1	0			
	parental leave	Female		2	3	2			
	No. of employees who have	Total	Persons	1	2	1			
	returned to work after	Male		0	1	1 0			
Parental leave	parental leave	Female		1	1	0			
		f employees who	%	0	66	25			
	have taken pa	arental leave							
	No. of em- ployees who have worked	Total		0	1	1			
	over 12 months after	Male	Persons	0	0	1			
	returning from paren- tal leave	Female		0	1	0			
	worked over 1	oyees who have 12 months after n parental leave	%	0	100	50			
	Duration of ed	ducation for workplace bullying		267(1)	305(1)	303(1)			
Human rights policies and		ducation for sexual-	Total hours (per em-	267(1)	305(1)	303(1)			
procedures	Other education for disabilities, et		ployee)	267(1)	305(1)	303(1)			
CSR	Investment in CSR (incl. donation)	Cash donation	KRW million	-	-	33			

Governance

Category		Unit	2020	2021	2022
	No. of Board meetings	Times	-	-	23
	No. of agendas	Ea.	-	-	32
	Preliminary deliberation	%	-	-	100
Board of Directors	Decisions on revised agenda	_	-	-	0
nrectors	Reported agenda	Ea.	-	-	9
	BOD attendance rate		-	-	100
	Non-executive attendance rate	%	-	-	100
	Male		-	-	7
	Female	Persons ·	-	-	0
	Ratio of female directors in the BOD	%	-	-	0
Board	Under 30 years		-	-	0
liversity	30 ~ 50 years	D	-	-	0
	Above 50 years	Persons -	-	-	7
	No. of outside directors		-	-	2
	Ratio of outside directors	%	-	-	29
	No. of Board members who received ethics training	Persons	-	-	7
	Ratio of Board members who received ethics training	%	-	-	100
	Total no. of employees who received ethics training	Persons	267	305	303
anti-cor- uption	Ratio of employees who received ethics training	%	100	100	100
olicies and rocedures	Total no. of Board members who have signed the ethics pledge	Persons	-	-	7
	Ratio of Board members who have signed the ethics pledge	%	-	-	100
	Total no. of employees who have signed the ethics pledge	Persons	267	305	303
	Ratio of employees who have signed the ethics pledge	%	100	100	100
inti-cor- uption iolations	No. of anti-corruption violations	Ea. (persons)	0	0	0

Hansol Logistics

Economy

Category			Unit	2020	2021	2022
	Sales			509,613	747,044	1,015,371
	Gross profit			42,351	64,134	78,680
	Selling, gen administrati	eral, and ve expenses		29,274	33,830	42,330
	Operating income			13,076	30,304	36,349
	Financial income		KDW	1,354	8,148	3,047
Income	Financial expenses		KRW -	3,060	2,959	8,403
Statement	Other income		TIMMOTI	3,615	4,996	17,568
	Other expenses			4,075	7,501	18,317
	Net income before the deduction of corporate tax expenses			11,895	33,509	30,450
	Gains or los method	Sains or losses using equity nethod		984	520	204
	A + -	Current assets		120,770	178,348	178,162
	Assets	Non-current assets		75,201	88,279	96,334
		Current liabilities		111,820	166,532	156,801
	Liabilities	Non-current liabilities		29,501	21,506	15,189
Balance sheet		Shareholders' equity in the parent company	KRW million	54,649	78,525	102,344
	Capital	Shareholders' equity in the non-controlling company		0	63	162

(Based on the consolidated financial statements)

Social

Category			Unit	2020	2021	2022
Total numbe	r of employee	s	Persons	359	382	323
		Total		6	5	4
	Executives	Female		0	0	C
		Male		6	5	4
Current		Total		330	355	292
employees (by employ-	Permanent	Female	Persons _	54	64	79
ment type)		Male		276	291	213
	Non-	Total		23	22	31
	permanent	Female	14	15	20	
	·	Male		9 _	7	11
Outsourced	workers		Persons	3	3	3
Current employees	Full-time		5	359	382	323
(by work schedule)	Part-time		— Persons -	0	0	
Current employees (by location)	Domestic		— Persons -	347	369	308
	Overseas		Persons -	12	13	15
	No. of male employees		Persons	276	291	224
	Ratio of male	e employees	%	81	79	69
	No. of female	No. of female employees		54	64	99
	Ratio of fema	ale employees	%	19	21	31
	No. of male	executives	Persons	6	5	4
	Ratio of male	executives	%	2	1	1
	No. of female	e executives	Persons	0	0	C
Employee diversity	Ratio of fema	ale executives	%	0	0	C
,	No. of male i		Persons	-	-	104
	Ratio of male (manager lev	e managers	%	-	-	35
	No. of female (manager lev		Persons	15	14	15
	Ratio of fema	ale managers	%	4	4	5

Category			Unit	2020	2021	202
		No. of employees with disabilities	Persons	5	5	
		Ratio of employees with disabilities	%	1	1	0.
		No. of senior employees (55 years or older, excl. executives)	Persons	17	19	1
		Ratio of senior employees	%	5	5	
	Hiring of the socially dis-	No. of foreign employees	Persons	0	0	
Employee diversity	advantaged	Ratio of foreign employees	%	0	0	
		No. of employees with high school degree	Persons	93	80	2022 1 0.3 11 4 0 0 40 14 22 1 167 23 195 666 34 11 333 6 14 255 0 69 53 77 1,153 0 0 63 46 73 139
		Ratio of employees with high school degree	%	26	21	
		No. of veterans	Persons	0	0	
		Ratio of veterans	%	0	0	
		Persons in the age group (Under 30 years of age)	Persons	-	-	6
		Percentage (Under 30 years of age)	%	-	-	2
	Employee composi-	Persons in the age group (30 ~ 50 years of age)	Persons	-	-	19
	tion	Percentage (30 ~ 50 years of age)	%	-	-	6
		Persons in the age group (Above 50 years of age)	Persons	-	-	34
		Percentage (Above 50 years of age)	%		-	1
	Male			25	38	3
New hires	female			7	12	-
		Under 30 years	Persons	18	23	1
	By age	30 ~ 50 years		11	26	2
		Above 50 years		3	1	
		Average male salary	KRW	-	-	6
		Average female salary	million		-	5
		Ratio of base salary of female to male	%	-	-	6 14 25 0 69 53 77 1,153
		Average male executive salary	KRW		-	1,15
		Average female executive salary	million			
		Ratio of base salary of female executive to male executive	%	-	-	
	Base salary	Average male permanent employee salary	KRW	-	-	6
Employee compensation	and remu- neration by gender	Average female permanent employee salary	million	-	-	4
		Ratio of base salary of female permanent employee to male permanent employee	%	-	-	7
		Average male non-permanent employee salary	KRW	-	-	2
		Average female non-permanent employee salary	million	-	-	3
		Ratio of base salary of female non-permanent	%	-	-	
		employee to male non-permanent employee				
	Average year	non-permanent employee	Years	8.6	8.6	
Joh		non-permanent employee s of service	Years Persons	8.6	8.6	3
Job security		non-permanent employee s of service of employee turnover				

Category			Unit	2020	2021	2022
	No. of benefic	ciaries of training/	Persons	337	358	296
Talent de-	Total budget training/educ		KRW million	90	200	179
velopment		nses per employee	KRW 1,000	268	558	604
	Average train employee	ing hours per	Hours	49	75	30
	No. of industr	ial accidents	Ea.	0	0	(
	Industrial-acc	ident rate	%	0		
Industrial accidents	No. of deaths	, additi ato		0		- 0
accidonto	No. of injuries		Persons	0	0	
	Duration of w		Hours	0		0
	<u> </u>	Total no. of partner companies	Ea.	942	997	798
Mutual growth	Suppliers	Total purchase from partners	KRW	278,950	431,781	605,023
growth	SME support	Total purchases from SME	million	0	0	0
		ns of fair trade laws	Incidents	0		0
Fair trade	Fines impose		KRW	0	0	0
Informa-			TIIIIIOTI			
tion-securi- ty breaches	and losses	a leakages, theft,	Ea.	0	0	0
Workplace discrimina- tion	No. of compla workplace dis	aints filed related to scrimination	Ea.	0	0	0
Incidents of non-com-	No. of violations	ns that resulted in		0	0	0
pliance with regulations and internal codes	No. of warnin compliance	gs for non-	Ea.	0	0	0
	No. of violatio	ns of internal codes		0	0	0
Work loss	No. of work lo	ess cases in partner	Ea.	-	-	0
	Employees	Total		1	7	41
	who have	Male		0	3	4
	taken pa- rental leave	Female		1	4	37
	No. of employees	Total	Persons	1	2	43
	who have returned to	Male		0	0	1
	work after parental leave	Female		1	2	33
Parental leave		employees who arental leave	%	17	25	80
	No. of em- ployees who	Total		1	0	27
	have worked over 12 months after	Male	Persons	0	0	1
	returning from paren-	Female		1	0	26
	worked over	oyees who have 12 months after	%	14	0	62
	Duration of ed	n parental leave ducation for human	Hours	1,348	1,432	1,116
		vees who completed	Persons	337	358	279
Human	Ratio of empl	oyees who	%	93	93	93
rights policies and	Duration of ed			0	0	
procedures	Duration of ed	ducation for sexual	Total hours	674(2)	716(2)	558(2)
	Duration of workplace bullying Duration of education for sexual harassment prevention Other education (Human rights		Hours	0/4(2)	110(2)	JJ0(2)

Governance

Category		Unit	2020	2021	2022
	No. of Board meetings	Times	-	-	23
	No. of agendas	_	-	-	41
Board of Directors	Reported agenda	Ea.	-	-	C
Directors	BOD attendance rate		-	-	94
	Non-executive attendance rate	%	_		87
	Male				7
	Female	Persons	-	-	0
	Ratio of female directors in the BOD	%	-	-	0
Board	Under 30 years		-	-	0
diversity	30 ~ 50 years	Persons	-	-	0
	Above 50 years	Persons	-	-	7
	No. of outside directors		-	-	2
	Ratio of outside directors	%	-	-	29
	No. of Board members who received ethics training	Persons	-	-	7
	Ratio of Board members who received ethics training	%	-	-	100
	Total no. of employees who received ethics training	Persons	362	385	363
Anti-cor- ruption	Ratio of employees who received ethics training	%	100	100	100
policies and procedures	Total no. of Board members who have signed the ethics pledge	Persons	-	-	7
	Ratio of Board members who have signed the ethics pledge	%	-	-	100
	Total no. of employees who have signed the ethics pledge	Persons	362	385	363
	Ratio of employees who have signed the ethics pledge	%	100	100	100
Anti-cor- ruption violations	No. of anti-corruption violations	Ea. (persons)	0	0	0

^{*} Total no. of employees who have signed the ethics pledge in 2022: Inconsistencies in the number of employees who signed the ethics pledge can be attributed to changes in staffing due to new hires and resignations.

Hansol Technics

Economy

Category			Unit	2020	2021	2022
	Sales			1,194,892	1,490,620	1,647,391
	Gross profit			150,987	103,451	183,094
	Selling, general, and administrative expenses Operating income Financial income			118,526	107,707	127,989
				32,460	(4,255)	55,104
Income statement			KRW million	28,970	24,449	60,831
Statement	Financial ex	penses	HIIIIOH	29,996	28,594	72,822
	Other incom	ne		1,571	2,810	2,683
	Other exper	nses		7,649	979	9,448
		before the deduction tax expenses		25,357	(6,570)	36,348
	Assets	Current assets		311,128	467,995	509,415
	Assets	Non-current assets		280,264	320,674	562,506
		Current liabilities		234,267	333,270	424,708
	Liabilities	Non-current liabilities		78,022	177,123	207,186
Balance sheet		Shareholders' equity in the parent company	KRW million	278,804	277,992	306,289
	Capital	Shareholders' equity in the non-controlling company		298	284	133,736
	Total R&D e	xpenses for the od	KRW million	19,721	18,199	22,275
R&D	R&D expens	ses/sales	%	1.65	1.22	1.35
	No. of R&D	personnel	Persons	131	138	153

(Based on the consolidated financial statements)

Environm	ent					
Category			Unit	2020	2021	2022
Consumptio materials	n of raw	Raw materials consumed	Tons	22	75	30.3
Energy		Total energy consumed		236	241	225.02
consump-	Total energy consumed	Scope 1 energy consumption	TJ	15.4	14.3	13.97
		Scope 2 energy consumption		220.1	226.5	211.05
Water con- sumption	Total	Total amount of water consumed		65,372	65,977	52,081
(amount, based on	amount of water	Amount of water consumed	Tons	33,602	32,048	22,226 709.19 10,099.7 0 230 240 14.1 20.8
domestic data)	consumed	Amount of underground water consumed		25,711	26,864	22,226
GHG emis-	Emissions	Direct emissions (Scope 1)	tCO2ea	775	726	709.19
sions	LITIISSIOTIS	Indirect emissions (Scope 2)	1002eq	10,691	10,867	10,099.7
Air		SOx		0	0	0
pollutants	Emissions	NOx	kg	158	149	230
		PM		202	217	230 240 14.1
Water		BOD		8	14	14.1
pollutants	Emissions	COD	ppm	10	12	20.8
J		SS		8	7	6.9
	Total amount	Total amount of waste		972	779	1,154
	of waste (amount	Waste discharged at business sites	Tons	778	660	917
Waste	treated in	Designated waste		9	17	31
	Korea)	Domestic waste		24	29	31
	Waste	Recycled amount		802	689	979
	recycling rate	Waste recycling ratio	%	83	88	85
Environ- mental expenses	Environ- mental	Amount of environmental investments	KRW million	33	19	65
and invest- ments	investments	Environmental expenses		290	312	299
		Sales of green products and services	KRW million	-	-	230,438
Sales of gree	en products	Total sales		-	-	1,647,391
		Ratio of sales related to green products	%	-	-	14

Social

category otal number of employees						
r of employees		Persons		656	635	
		_				
Executives		_		020 2021 2022 662 656 635 11 11 11 0 0 0 111 11 11 628 620 589 141 123 120 487 497 469 34 36 35 8 9 12 26 27 23 0 0 0 662 656 635 2 0 0 662 656 608 0 0 27 513 524 503 77 80 79 149 132 132 23 20 21 11 11 11 16 1.6 1.7 0 0 0 0 0 0 - - 227 - - <t< td=""></t<>		
		_				
		_				
Permanent		Persons _				
		_				
Non-		_				
	Female	_				
	Male		26	27	23	
workers		Persons	0	0	0	
Full-time			662	656	635	
Part-time		Persons -		0	0	
Domestic			662	656	608	
Overseas		Persons -	0	0	27	
No. of male e	mployees	Persons	513	524	503	
		%	77	80	79	
		Persons				
		% Porcons	0	0		
level or highe	r)					
level or highe	r)	- 70				
(manager leve	el or higher)				4	
	el or higher)	<u></u> ——— –				
	with disabilities					
	with disabilities	%		1	1	
Hiring of the socially dis-	employees (55 years or older, excl. executives)	Persons	27	25	33	
	Ratio of senior employees	%	4	4	5	
	No. of foreign employees	Persons	0	0	0	
advantaged	Ratio of foreign employees	%	0	0	0	
	No. of employees with high school degree	Persons	192	175	172	
	Ratio of employees with high school degree	%	29	27	27	
	No. of veterans	Persons	2	2	2	
	Ratio of veterans	%	0.3	0.3	0.3	
	Persons in the age group (Under 30	Persons	-	-	71	
	Percentage (Under 30 years of age)	%	-	-	11	
Employee composi-	Persons in the age group (30 ~ 50	Persons	-	-	482	
tion	Percentage (30 ~ 50 years of age)	%	-	-	75	
	Persons in the age group (Above 50 years of age)	Persons	-	-	93	
	Percentage (Above 50 years of age)	%	-	-	14	
Male			70	49	85	
female		_			15	
	Under 30 years	Persons			45	
By age		- 0100113			50	
Dy age	oo - oo years	_	- 04	2	50	
	Executives Permanent Non- permanent workers Full-time Part-time Domestic Overseas No. of male e Ratio of female No. of female Ratio of female No. of female e Ratio of male re Ratio of male re Ratio of female No. of female Ratio of female No. of female wol or highe Ratio of female Ievel or highe Ratio of female Ievel or highe Ratio of female Ivaniager level Hiring of the socially dis- advantaged	Executives Female Male Total Permanent Non- permanent Non- permanent Male Total Female Male Total Female Male Total Female Male Total Female Male Total Female Male Male Male Total Female Male Male Male Male Male Female Male Male Male Part-time Domestic Overseas No. of male employees Ratio of male employees Ratio of female employees Ratio of male employees Ratio of male executives Ratio of male executives Ratio of male managers (manager level or higher) Ratio of male managers (manager level or higher) No. of male managers (manager level or higher) Ratio of female managers (manager level or higher) Ro. of employees With disabilities Ratio of senior employees With disabilities No. of senior employees With disabilities Ratio of foreign employees With disabilities Ratio of senior employees	Total Female Male Total Persons Male Total Female Total T	Total Female Male 11 O Male 11 Total Female Female Female Female Male Ma	Total Female Male 111 11 11 11 11 11 11	

Category			Unit	2020	2021	202
		Average male salary	KRW	65	60	Ę
		Average female salary	million	50	43	4
		Ratio of base salary of female to male	%	76	71	8
		Average male executive salary				66 22
		Average male permanent	KRW		-	į
		Average female permanent	million			4
Compensation of Employee	Employee compensa- tion	employee salary Ratio of base salary of female permanent employee to male permanent employee	%	-	-	
		Average male non-permanent employee salary	KRW		-	4
		Average female non-permanent employee salary	million			2
		Ratio of base salary of female non-permanent employee to male non-permanent employee	%		-	1
	No. of benefi	ciaries of training/	Persons	662	607	6
		for employee cation	KRW million	270	271	2
Talent de-		enses per employee	KRW 1,000	436	442	4
velopment	Total no. of h	ours of training				
	Average trair employee	ning hours per	Hours	65		
	Ratio of wag	es to training	%	1	1	
		rial accidents	Ea.	1	0	
Industrial	Industrial acc	cident rate	%		0	
accidents	No. of deaths				0	
	No. of injurie		Persons			
	Duration of v	vork-hour loss	Hours	960	0	
		Total no. of partner companies	Ea.	429	394	6
Mutual growth	Suppliers	Total purchase from partners	KRW	565,361	657,792	661,7
	SME support	Total purchases from SME	million	54,038	134,336	81,2
	No. of violation	ons of fair trade laws	Ea.	0	0	
Fair trade	Fines impose	ed	KRW million	0	0	
Information security breaches	Customer da and loss	ata leakage, theft,	Ea.	0	0	
Workplace discrimina- tion		aints filed in relation discrimination	Ea.	0	0	
Incidents of non-com-	No. of violations	ons that resulted in		0	0	
pliance to regulations		ngs from non-	Ea.	0	0	
and internal codes		ons of internal codes		0	0	
Work loss	No. of work locompanies	oss cases in partner	Ea.	-	-	

Category			Unit	2020	2021	2022
	Employees	Total		14	16	13
	who have taken pa-	Male		4	5	5
	rental leave	Female		10	11	8
	No. of employees	Total	Persons	6	12	6
	who have returned to work after	Male	Male		5	5
	parental leave	arental Female 5			7	1
Parental leave	Return rate of have taken pa	employees who rental leave	%	43	75	46
	No. of em- ployees who have worked	Total		6	12	5
	over 12 months after	Male	Persons	1	5	4
	returning from paren- tal leave	Female		5	7	1
	worked over 1	oyees who have 2 months after n parental leave	%	100	100	100
	Duration of ed prevention of	ducation for workplace bullying	-	-	25(1)	681(1)
Human rights policies and	Duration of ed harassment p	ducation for sexual revention	Total hours (per em-	662(1)		
procedures	Other education for disabilities, et		ployee)	662(1)	607(1)	710(1)
	Investment	Cash donation	KRW	0.4	0.4	2
CSR	in CSR (incl. donation)	Non-cash donation	million	32.5	73.5	38
	Direct benefic		Persons	262	814	36

Governance

ategory		Unit	2020	2021	2022
	No. of Board meetings	Times	-	-	7
	No. of agendas	Ea.	-	-	23
	Preliminary deliberation	%	-	-	100
oard of irectors	Decisions on revised agenda	Ea	-	-	0
1001013	Reported agenda	Ed.	-	-	11
	BOD attendance rate	% -	-	-	86.3
	Non-executive attendance rate	70	-	-	100
	Male	Persons -	-	-	7
	Female	reisons -	-	-	0
	Ratio of female directors in the BOD	%	-	-	0
oard	Under 30 years		-	-	0
versity	30 ~ 50 years	Persons -	-	-	1
	Above 50 years	reisons -	-	-	6
	No. of outside directors		-	-	2
	Ratio of outside directors	%	-	-	29
	Total no. of business sites		-	-	7
nti-	No. of business sites that conducted anti-corruption risk assessment	Ea		-	0
лириоп	Ratio of business sites that conducted anti-corruption risk assessment	%	-	-	0
	No. of Board members who received ethics training	Persons	-	-	7
	Ratio of Board members who received ethics training	%	-	-	100
	Total no. of employees who received ethics training	Persons	663	657	646
nti-cor- ption	Ratio of employees who received ethics training	%	100	100	100
olicies and ocedures	Total no. of Board members who have signed the ethics pledge	Persons	-	-	7
	Ratio of Board members who have signed the ethics pledge	%	-	-	100
	Total no. of employees who have signed the ethics pledge	Persons	663	657	646
	Ratio of employees who have signed the ethics pledge	%	100	100	100

102 2023 Hansol Group Sustainability Report Sustainability Essentials Hansol Sustainability Action Introduction Appendix 103

Hansol IONES

Economy

Category			Unit	2020	2021	2022
	Sales			-	-	163,912
	Gross profi	t	-	-	-	57,959
	Selling, general, and administrative expenses		-	-	-	21,886
	Operating i	ncome		-	-	36,072
Income statement	Financial in	come	KRW -	-	-	1,809
Statement	Financial ex	penses	IIIIIIIIII -	-	-	(1,022)
	Other incor	ne	-	-	-	668
	Other expe	nses	-	-	-	(3,741)
		before the deduction e tax expenses		-	-	36,741
	Assets	Current assets		-	-	99,779
	Assets	Non-current assets	-	-	-	127,588
		Current liabilities	-	-	-	70,826
	Liabilities	Non-current liabilities	-	-	-	5,725
Balance sheet		Shareholders' equity in the parent company	KRW million	-	-	150,815
	Capital	Shareholders' equity in the non-controlling company	-	-	-	0
	Total R&D e	expenses for the od	KRW million	-	-	109
R&D	R&D expen	ses/sales	%	-	-	0.61
	No. of R&D	personnel	Persons	-	-	13

(Based on the consolidated financial statements)

Environment

Category			Unit	2020	2021	2022
Consumptio materials	n of raw	Raw materials consumed	Tons	-	-	1,640
Consumptio that contain	n of materials recycled	Amount of recycled materials (reused raw materials) consumed	Tons	-	-	166
materials		Ratio of recycled materials (reused raw materials) consumed	%	-	-	10
		Total amount of water consumed		-	-	123,103
	Total	Amount of water consumed		-	-	166 10 123,103 123,103 0 0 0 159 10,741 0.09 6.98 15.99 561 421 140
sumption (amount, based on domestic data)	amount of water consumed	Amount of underground water consumed	Tons	-	-	0
		Amount of seawater consumed		-	-	0
	Water reuse	Amount of water reused		-	-	
	vvater reuse	Ratio of water reused	%	-	-	
GHG emis-	Emissions	Direct emissions (Scope 1)	tCO2eq	-	-	159
sions	EITHSSIONS	Indirect emissions (Scope 2)	tCO2eq	-	-	10,741
		SOx		-	-	0.09
Air pollutants	Emissions	NOx	kg	-	-	6.98
ponutunta		PM		-	-	15.99
	Total amount	Total amount of waste		-	-	561
	of waste (amount	Waste discharged at business sites	Tons	-	-	421
Waste	treated in	Designated waste	.5115	-	-	140
	Korea)	Domestic waste		-	-	0
	Waste	Recycled amount		-	-	445
	recycling rate	Waste recycling ratio	%	-	-	79

Social

Category			Unit	2020	2021	2022	
Iotal numbe	r of employees		Persons		-	588	
		Total				7	
	Executives	Female		-	-	0	
		Male			-	7	
Current		Total	_			567	
employees (by employ-	Permanent	Female	Persons _		-	87	
ment type)		Male		-	-	480	
		Total	_		-	14	
	Non- permanent	Female		-	-	2	
	permanent	Male	_	-	-	12	
Outsourced	workers		Persons		_	-	
Current						500	
employees	Full-time		Persons -			588	
(by work	Part-time		reisuis	-	_	-	
schedule)							
Current em-	Domestic			-	-	588	
ployees (by location)	Overseas		Persons -			-	
location							
	No. of male e	mployees	Persons			499	
	Ratio of male	employees	%		-	85	
	No. of female	employees	Persons	-	-	87	
	Ratio of fema	ale employees	%	-	-	15	
	No. of male e		Persons	-	-	10	
	Ratio of male		%			2	
	No. of female		Persons _			0	
	Ratio of fema		<u>%</u>			0	
	level or highe		Persons		_	27	
	Ratio of male level or highe	managers (manager r)	%		-	5	
	No. of female (manager lev		Persons	-	-	0	
	Ratio of fema (manager lev	le managers	%	-	-	0	
	(manager iov	No. of employees	Persons	-	-	11	
	Hiring of the	Ratio of employees	 %			2	
		No. of senior employees (55 years or older,	Persons			11	
		excl. executives) Ratio of senior	 -				
Employee diversity		employees No. of foreign					
	socially dis- advantaged	employees Ratio of foreign	Persons -				
		employees No. of employees	% 			2	
		with high school degrees	Persons	-	-	233	
		Ratio of employees with high school degrees	%	-	-	40	
		No. of veterans	Persons	-	-	2 11 2 233 40 0 0	
		Ratio of veterans	%				
		Persons in the age group (Under 30	Persons		_		
		years of age) Percentage (Under	 -		_	31	
	Employee	30 years of age) Persons in the age group (30 ~ 50	Persons		_	380	
	composi- tion	years of age) Percentage (30 ~					
		50 years of age) Persons in the age	<u></u> ——— –			64	
		group (Above 50 years of age) Percentage (Above	Persons -			24	
		50 years of age)	%	-	-	4	
	Male					149	
	female				-	35	
		Under 30 years	Persons	-	-	78	
New hires							
New hires	By age	30 ~ 50 years	_	-	-	99	

Category			Unit	2020	2021	2022	
		Average male		-	_	47	
		salary	KRW				
		Average female salary	million	-	-	36	
		Ratio of base					
		salary of female to	%	-	-	76	
		male					
		Average male executive salary	KRW	-	-	125	
		Average female	million				
		executive salary		-	-	0	
		Ratio of base					
		salary of female	%	-	-	0	
		executive to male executive					
		Average male					
		permanent		-	-	47	
Employee	Base salary	employee salary	KRW million				
compensa-	and remu- neration by	Average female permanent	HIIIIOH	_	_	36	
tion	gender	employee salary					
		Ratio of base					
		salary of female					
		permanent employee to	%	-	-	76	
		male permanent					
		employee					
		Average male non-permanent				10	
		employee salary	KRW			10	
		Average female	million				
		non-permanent		-	-	8	
		employee salary					
		Ratio of base salary of female					
		non-permanent	%			80	
		employee to male	70	_	-	00	
		non-permanent employee					
	Average year		Years			3.5	
Job		of employee turnover	Persons			157	
security	Voluntary tur		- 0100110			92	
-	Non-volunta		%			8	
		for employee	KRW				
	training/educ		million		-	38	
Talent de-	Training expe	enses per employee	KRW	_	_	66	
velopment			1,000				
		urs of training		3,029			
	employee	ing hours per	110013	-	-	5.19	
		rial accidents	Agendas	-	-	1	
	Industrial acc		%			0.17	
Industrial	No. of deaths					0.17	
accidents	No. of injurie		Persons			12	
		ork-hour loss	Hours			880	
		Total no. of partner					
	Suppliers	companies	Ea.		-	70	
Mutual	ouppliers	Total purchase		-	-	49,004	
growth	SME	from partners	KRW million			.,	
	support	Total purchases from SME	HIIIIOH	-	-	41,869	
		ons of fair trade laws	Ea.		-	0	
Fair trade			KRW				
	Fines impose	ou .	million			0	
Informa-	Customer-da	ata leakages, theft,	F-0			^	
tion-securi- ty breaches	and losses		Ea.	-	-	0	
Workplace							
discrimina-	No. of compl workplace di	aints filed related to	Ea.	-	-	0	
tion							
		ons that resulted in		-	_	0	
	sanctions	age for non					
	No. of warnir	igs for non-	Ea.	-	-	0	
pliance to	No. of warnings for non- compliance						
pliance to regulations and internal		one of internal and -				^	
non-com- pliance to regulations and internal codes	No. of violation	ons of internal codes			-	0	

Category			Unit	2020	2021	2022
	Employees	Total		-	-	6
	who have taken pa-	Male		-	-	0
	rental leave	Female		-	-	6
	No. of employees	Total	Persons	-	-	3
	who have returned to work after	Male			-	0
	parental leave	Female		-	-	3
Parental leave	Return rate of employees who have taken parental leave		%	-	-	50
	No. of employees who have worked over 12 months after returning from parental leave	Total		-	-	1
		Male	Persons	-	-	0
		Female		-	-	1
	Ratio of employees who have worked over 12 months after returning from parental leave		%		-	17
	Duration of e	ducation for workplace bullying		-	-	1
Human rights policies and	Duration of enharassment p	ducation for sexual prevention	Total hours (per em-	-	-	1
procedures	Other educate education for disabilities, e		ployee)	-	-	1
		Cash donations		-	-	15
CSR	Investment in CSR (incl. donation)	Non-cash donations	KRW million	-	-	0
	uonation)	Business expenses		-	_	0

Governance

Category		Unit	2020	2021	2022
	No. of Board meetings	Times	-	-	11
	No. of agendas	Ea.	-	-	23
	Preliminary deliberation	%	-	-	100
Board of Directors	Decisions on revised agenda	Ea	-	-	0
Directors	Reported agenda	Ea	-	-	13
	BOD attendance rate	% -	-	-	99
	Non-executive attendance rate	% -	-	-	97
	Male	Persons -	-	-	8 0 0
	Female	Persons -	-	-	0
	Ratio of female directors in the BOD	%	-	-	0
Board	Under 30 years		-	-	-
diversity	30 ~ 50 years	Persons -	-	-	2
	Above 50 years	Persons -	-	-	6
	No. of outside directors	_	-	-	3
	Ratio of outside directors	%	-	-	38
	Total no. of business sites		-	-	4
Anti-	No. of business sites that conducted anti-corruption risk assessments	Ea.	-	-	4
corruption	Ratio of business sites that conducted anti-corruption risk assessments	%	-	-	0
	No. of Board members who received ethics training	Persons	-	-	8
	Ratio of Board members who received ethics training	%	-	-	100
	Total no. of employees who received ethics training	Persons	-	-	588
Anti-cor- ruption	Ratio of employees who received ethics training	%	-	-	100
policies and procedures	Total no. of Board members who have signed the ethics pledge	Persons	-	-	8
	Ratio of Board members who have signed the ethics pledge	o of Board members who	100		
	Total no. of employees who have signed the ethics pledge	Persons	-	-	588
	Ratio of employees who have signed the ethics pledge	%	-	-	100
Anti-cor- ruption violations	No. of anti-corruption violations	Ea. (Persons)	-	-	1

Hansol Inticube

Economy

Category			Unit	2020	2021	2022
	Sales			52,588	59,462	59,146
	Gross profit			5,979	11,767	12,319
	Selling, gen administrati	eral, and ve expenses		11,499	12,011	16,292
	Operating in	ncome		(5,520)	(243)	(3,972)
Income	Financial in	come	KRW	181	203	244
statement	Financial expenses		million	151	110	131
	Other income			348	132	413
	Other expenses			792	86	2,806
	Affiliates' pr	Affiliates' profits and losses		8,655	0	0
	Net income before the deduction of corporate tax expenses			2,721	(105)	(6,253)
		Current assets		34,199	32,455	25,186
	Assets	Non-current assets		7,587	16,339	14,630
		Current liabilities		13,433	18,248	14,138
	Liabilities	Non-current liabilities		2,124	1,760	2,413
Balance sheet		Shareholders' equity in the parent company	KRW million	26,229	26,376	21,932
	Capital	Shareholders' equity in the non-controlling company		-	2,409	1,333
	Total R&D e	xpenses for the od	KRW million	1,765	1,818	1,426
R&D	R&D expens	ses/sales	%	3	3	3
	No. of R&D	personnel	Persons	7	5	0

(Based on the consolidated financial statements)

Social

Category			Unit	2020	2021	2022
Total numbe	r of employee	s	Persons	227	224	253
		Total		3	3	6
	Executives	Female		0	0	C
		Male		3	3	6
Current		Total	_	219	212	247
employees (by employ-	Permanent	Female	Persons	54	53	67
ment type)		Male	_	165	159	180
	Non-	Total	_	5	9	(
	permanent	Female		2	2	(
	·	Male		3	7	C
Outsourced workers		Persons	2	0	(
Current employees	Full-time		Persons -	227	224	253
(by work schedule)	Part-time		reisons	0	0	C
Current em- ployees (by location)	Domestic	Domestic		227	224	253
	Overseas		Persons -	0	0	C
	No. of male employees		Persons	171	169	186
	Ratio of male employees		%	75	75	74
	No. of female employees		Persons	56	55	67
	Ratio of female employees		%	25	25	26
	No. of male	executives	Persons	3	3	Е
	Ratio of male	executives	%	1	1	2
	No. of female	e executives	Persons	0	0	C
Employee diversity	Ratio of fema	ale executives	%	0	0	(
,	No. of male r	managers (manager er)	Persons	-	-	128
	Ratio of male	e managers (manager er)	%	-	-	51
	No. of female (manager lev		Persons	20	18	23
		ale managers	%	9	8	9

Category			Unit	2020	2021	202
		No. of employees with disabilities	Persons	3	2	
		Ratio of employees with disabilities	%	1	1	
		No. of senior employees (55 years or older, excl. executives)	Persons	2	2	,
		Ratio of senior employees	%	1	1	
	Hiring of the socially dis-	No. of foreign employees	Persons	0	0	
	advantaged	Ratio of foreign employees	%	0	0	
		No. of employees with high school degree	Persons	4	5	
Employee diversity		Ratio of employees with high school degree	%	2	2	
		No. of veterans	Persons	2	2	
		Ratio of veterans	%	1	1	
		Persons in the age group (Under 30 years of age)	Persons		-	5
		Percentage (Under 30 years of age)	%		-	2
	Employee composition	Persons in the age group (30 ~ 50 years of age)	Persons	-	-	16
		Percentage (30 ~ 50 years of age)	%		-	6
		Persons in the age group (Above 50 years of age)	Persons		-	3
		Percentage (Above 50 years of age)	%	-	-	1
	Male			14	31	5
	female			5	9	2
New hires		Under 30 years	Persons	13	11	2
	By age	30 ~ 50 years		6	29	4
		Above 50 years		0	0	
		Average male salary	KRW	48	48	5
		Average female salary	million	40	41	4
		Ratio of base salary of female to male	%	83	85	7
		Average male executive salary	KRW			11
		Average female executive salary	million			
		Ratio of base salary of female executive to male executive	%	-	-	
	Base salary	Average male permanent employee salary	KRW	-	-	5
Employee compensa-tion	and remu- neration by gender	Average female permanent employee salary	million		-	4
		Ratio of base salary of female permanent employee to male permanent employee	%	-	-	7
		Average male non-permanent employee salary	KRW	-	-	
		Average female non-permanent employee salary	million	-	-	
		Ratio of base salary of female non-permanent employee to male non-permanent employee	%	-	-	

Category			Unit	2020	2021	2022
	Average year		Years	7.5	8	7.5
Job	Total number	of employee tumover	Persons			41
security	Voluntary turn	nover	%		-	88
	Non-voluntar					12
	No. of beneficiaries of training/ education		Persons	222	220	253
Talent de-	Total budget for employee training/education		KRW million	252	170	238
velopment	Training expenses per employee		1,000	1,135	775	960
	Total no. of hours of training			13,947	7,213	7,169
	Average train employee	ing hours per	Hours	26	28	29
	No. of industr	rial accidents	Ea.	0	0	C
Industrial accidents	Industrial acc	ident rate	%	0	0	C
	No. of deaths		Persons	0	0	C
	No. of injuries	3	Persons	0	0	C
	Duration of w	ork-hour loss	Hours	0	0	C
	0	Total no. of partner companies	Ea.	226	200	209
Mutual growth	Suppliers	Total purchases from partners	KRW	23,005	29,684	30,434
	SME support	Total purchases from SME	million	18,499	20,613	20,159
		ons of fair trade laws	Ea.	0	0	0
Fair trade			KRW			
	Fines impose	u	million		0	C
Information security breaches	Customer data leakages, theft, and losses		Ea.	0	0	C
Workplace discrimina- tion	workplace dis		Ea.	0	0	C
Incidents of non-com-	No. of violations	ons that resulted in		0	0	C
pliance to regulations	No. of warnin compliance	No. of warnings for non- compliance		0	0	C
and internal codes	No. of violation	ons of internal codes		0	0	0
Work loss	No. of work-lo	oss cases in partner	Ea.		-	C
	Employees	Total		4	1	4
	who have	Male			0	2
	taken pa- rental leave	Female		3	1	2
	No. of	Total	Persons	4	1	C
	employees who have returned to	Male	Persons	1	0	0
	work after parental leave	Female		3	1	C
Parental	Return rate of	f employees who	%	100	100	
leave	No. of em-	Total		4	1	3
	ployees who have worked over 12					
	months after returning	Male	Persons		0	1
	from paren- tal leave	Female		3	1	2
	worked over	oyees who have 12 months after n parental leave	%	100	100	75
	Duration of hi Hours	uman rights training	Hours	1,135	1,100	771
Human	No. of employ human rights	vees who completed training	Persons	227	220	257
	Ratio of empl		%	100.00	98.20	100
rights policies and	Duration of ed			227(1)	224(1)	257(1)
procedures		ducation for sexual	Total hours	340(1.5)	336(1.5)	257(1)
		ion (Human rights	(per em- ployee)	340(1.5)	336(1.5)	257(1)

Category			Unit	2020	2021	2022
		Cash donation	KRW million	8.1	7.3	7.7
CSR	Investment in CSR (incl. donation)	Non-cash donations		1.5	3.2	0
		Business expenses		0	0	0
	Total voluntee	er hours		0	0	0
	Average volu	nteer hours per	Hours	0	0	0

Governance

Category		Unit	2020	2021	2022
	No. of Board meetings	Times	-	-	10
Board of	No. of agendas	Ea.	-	-	20
Directors	Reported agenda	Ed.	-	-	12
	BOD attendance rate	%	-	-	100
	Male	Persons	-	-	7
	Female	reisons	-	-	0
	Ratio of female directors in the BOD	%	-	-	0
Board	Under 30 years		-	-	0
diversity	30 ~ 50 years	Persons	-	-	2
	Above 50 years	Persons	-	-	5
	No. of outside directors		-		3
	Ratio of outside directors	%	-	-	43
	Total no. of business sites		-	-	1
Anti- corruption	No. of business sites that conducted anti-corruption risk assessment	Ea.	-	-	1
	Ratio of business sites that conducted anti-corruption risk assessment	%	-	-	100
	No. of Board members who received ethics training	Persons	-		7
	Ratio of Board members who received ethics training	%	-	-	100
	Total no. of employees who received ethics training	Persons	227	224	253
Anti- corruption	Ratio of employees who received ethics training	%	100	100	100
policies and procedures	Total no. of Board members who have signed the ethics pledge	Persons	-		7
	Ratio of Board members who have signed the ethics pledge	%	-	-	100
	Total no. of employees who have signed the ethics pledge	Persons	227	224	253
	Ratio of employees who have signed the ethics pledge	%	100	100	100
Anti- corruption violations	No. of anti-corruption violations	Ea. (Persons)	0	0	0

Hansol Chemical

Economy

Category			Unit	2020	2021	2022
	Gross profit			619,277	768,688	885,470
	Selling, genadministrati	eral, and ve expenses		213,876	267,971	265,682
	Operating in	ncome		61,942	70,287	79,691
	Financial inc	come		151,933	197,684	185,990
	Financial ex	Financial expenses		4,033	4,204	9,227
Income statement	Other income		KRW million	10,044	6,176	7,518
Statement	Other expenses		THIIIOTT	6,915	6,631	9,009
	Affiliates' profit and loss			4,719	6,999	10,742
		before the deduction e tax expenses		12,693	13,356	8,271
	Net income before the deduction of corporate tax Expenses			160,812	208,702	194,237
	Assets	Current assets		307,726	411,301	386,120
	Assets	Non-current assets		691,474	785,873	867,190
		Current liabilities		171,630	199,711	153,669
	Liabilities	Non-current liabilities		205,299	229,593	247,144
Balance sheet		Shareholders' equity in the parent company	KRW million	553,201	689,239	763,481
	Capital	Shareholders' equity in the non-controlling company		69,069	78,630	89,014
	Total R&D excurrent period	xpenses for the od	KRW million	13,004	13,640	18,955
R&D	R&D expens	ses/sales	%	2	2	3
	No. of R&D	personnel	Persons	107	120	127

(Based on the consolidated financial statements)

Environment

Category			Unit	2020	2021	2022
Consumptio materials	n of raw	Raw materials consumed	Tons	150,967	151,701	147,161
Consumptio that contain	n of materials	Amount of recycled materials (reused raw mate- rials) consumed	Tons	0	0	0
materials		Ratio of recycled materials (reused raw materials) consumed	%	0.0	0.0	0
	Total energy consumed	Total energy consumed		2,628	3,119	3,395
Energy consump-		Scope 1 energy consumption	TJ	320	502	559
tion		Scope 2 energy consumption		2,308	2,617	2,836
	Energy intens	Energy intensity		4,243.7	4,057.6	3,834.1
		Total amount of water consumed	Tons	2,148,690	2,214,557	2,557,065
	Total	Amount of water consumed		28,933	40,407	46,267
sumption (amount, based on domestic data)	amount of water consumed	Amount of underground water consumed		0	0	0
		Amount of seawa- ter consumed		0	0	0
	Water reuse	Amount of water reused		0	0	0
		Ratio of water reused	%	0	0	0
GHG emis-		Direct emissions (Scope 1)		70,687	84,466	87,066
sions	Emissions	Indirect emissions (Scope 2)	tCO2eq	66,989	77,153	82,266
		SOx		96	5,960	1,110
Air	Emissions	NOx	kg	46	16,316	19,499
pollutants		PM		441	983	674
		BOD		9.9	14.1	14.3
Water		COD	ppm	31.3	28.5	33.9
pollutants	Emissions	SS		15.3	23.2	12.5
		TN		18.4	8.1	7.2
	Total	Total amount of waste		6,439	8,526	10,202
	amount of waste	Waste discharged at business sites		3,552	4,327	4,817
Waste	(amount treated in	Designated waste	Tons	2,887	4,199	5,385
	Korea)	Domestic waste		0	0	0
	Waste	Recycled amount		4,537	6,299	7,907
	recycling	Waste recycling ratio	%	70	74	78

Category			Unit	2020	2021	2022
Hazardous (Hazardous (chemical) No. of chemical spi		Cases	0	3	0
substance s		Amount of chemicals spilled	Tons	0	5.1	0
Environ- mental expenses	Environ- mental	Amount of environmental investments	Ea.	5,129	3,069	4,232
and invest- ments	investments	Environmental expenses		1,981	2,717	2,922

* Consumption of materials that contain recycled materials: Error in the previous disclosure; Hansol Chemical did not use recycled raw materials * SOx emissions: Decrease in emission due to differences in measurement methods

Social

Category			Unit	2020	2021	2022
Total number	r of employees		Persons	563	632	658
	F	Total		13	14	16
	Executives	Female Male		1 12	1 13	15
Current		Total		508	520	548
employees	Permanent	Female	Persons	65	76	80
by employ- ment type)		Male	. 0.001.0	443	444	468
nent type)		Total		42	98	94
	Non- permanent	Female		0	0	2
	permanent	Male		42	98	92
Outsourced	workers		Persons	0	0	(
Current	Full-time		Persons	563	632	658
by work schedule)	Part-time				0	(
Current em- ployees (by	Domestic		Persons	560	629	653
location)	Overseas		1 0100110	3	3	5
	No. of male e	mployees	Persons	497	555	575
	Ratio of male	employees	%	88	87	87
	No. of female	employees	Persons	66	77	83
	Ratio of fema	le employees	%	12	12	13
	No. of male e		Persons	12	13	15
	Ratio of male	executives	%	2	2	2
	No. of female	executives	Persons	1	1	
	Ratio of female executives		%	0.2	0.2	0.2
		nanagers (manager	Persons	-	-	110
	Ratio of male level or highe	managers (manager r)	%	-	-	18
	No. of female (manager leve		Persons	11	12	16
	Ratio of female managers (manager level or higher)		%	11	12	12
	Hiring of the socially dis-	No. of employees with disabilities	Persons	5	4	Ę
		Ratio of employees with disabilities	%	1	1	
		No. of senior employees (55 years or older, excl. executives)	Persons	24	13	23
Employee		Ratio of senior employees	%	4	2	4
diversity		No. of foreign employees	Persons	0	0	(
	advantaged	Ratio of foreign employees	%	0	0	(
		No. of employees with high school degree	Persons	146	135	153
		Ratio of employees with high school degree	%	26	21	23
		No. of veterans	Persons	4	4	4
		Ratio of veterans	%		1	
		Persons in the age group (Under 30 years of age)	Persons	-	-	220
		Percentage (Under 30 years of age)	%		-	34
	Employee composi-	Persons in the age group (30 ~ 50 years of age)	Persons	-	-	360
	tion	Percentage (30 ~ 50 years of age)	%	-	-	55
		Persons in the age group (Above 50 years of age)	Persons		-	72
		Percentage (Above 50 years of age)	%	-	-	11

Category			Unit	2020	2021	2022
	Male			54	123	79
	female			11	15	20
New hires		Under 30 years	Persons	49	116	71
	By age	30 ~ 50 years		13	20	27
		Above 50 years		3	2	1
		Average male salary	KRW million	90	88	101
		Average female salary		60	64	103
		Ratio of base salary of female to male	%	66	72	103
		Average male executive salary	KRW			914
		Average female executive salary	million			2,940
		Ratio of base salary of female executive to male executive	%		-	322
	Paga calany	Average male permanent employee salary	KRW	-	-	106
Employee compensation	Base salary and remu- neration by gender	Average female permanent employee salary	million		-	69
		Ratio of base salary of female permanent employee to male permanent employee	%	-	-	65
		Average male non-permanent		-	-	58
		Average female non-permanent	KRW million			0
		Ratio of base salary of female non-permanent employee to male non-permanent	%		-	0
		employee				7.0
	Average year		Years	7	- 6	7.6
Job security		of employee turnover	Persons			91
,	Voluntary tur Non-voluntar		%			9
		ciaries of training/	Persons	485	553	652
Talent de-	Total budget for employee training/education		KRW million	868	859	329
velopment	Training expenses per employee		KRW 1,000	451	522	504
	Average training hours per employee		Hours	17	19	79
		ial accidents occurred	Ea.	2	2	0
	Industrial acc		%		0	0
ndustrial accidents	No. of deaths	3	Dorossa	1	0	0
accidents	No. of injuries		Persons	1	2	0
		ork-hour loss	Hours	0	0	0
	Suppliers	Total no. of partner companies	Ea.	147	148	206
Mutual growth		Total purchase from partners	KRW	105,929	144,366	262,609
	SME support	Total purchases from SME	million	32,615	43,876	56,506
	No. of violation	ons of fair trade laws	Ea.	0	0	0
Fair trade	Fines impose	ed	KRW million	0	0	0
Information security breaches	Customer da and loss	ta leakage, theft,	Ea.	0	0	0
Workplace discrimina- tion		aints filed in relation discrimination	Ea.	0	0	0
Incidents of non-com-	No. of violations	ons that resulted in		0	0	0
pliance to regulations	No. of warnin	ngs from non-	Ea.	0	0	0
and internal codes	No. of violation	ons of internal codes		0	0	0
Work loss	No. of work le	oss cases in partner	Fa			0
**UIN 1055	companies		Ea.			

Category			Unit	2020	2021	2022
outogo.y	Employees	Total		1	2	8
	who have	Male			0	4
	taken pa- rental leave	Female		0	2	4
	No. of employees	Total	Persons	1	1	7
	who have returned to	Male		1	0	4
	work after parental leave	Female		0	1	3
Parental leave	Return rate of e taken parental	employees who have leave	%	100	50	88
	No. of employ- ees who have	Total		1	0	4
	worked over 12 months after returning	Male	Persons	1	0	3
	from parental leave	Female		0	0	1
	Ratio of employees who have worked over 12 months after returning from parental leave		%	100	0	50
	Duration of education for human rights		Hours	1	1	1
	No. of employees who completed human rights training		Persons	496	617	625
Human	Ratio of employees who completed human rights training		%	88	98	100
rights policies and	Duration of education for prevention of workplace bullying			388(1)	132(1)	625(1)
procedures	Duration of ed harassment p	ducation for sexual prevention	Total hours (per em-	451(1)	609(1)	625(1)
	Other educati education for disabilities, et		ployee)	461(1)	630(1)	625(1)
	Investment	Cash donation	1489114	296	212	214
	in CSR (incl.	Non-cash donation	KRW million	0	0	1
	donation)	Business expenses	TTIIIIOTT	0	0	0
CSR	Total voluntee	er hours		480	420	513
3311	Average volumemployee	nteer hours per	Hours	0.9	0.7	0.84
	Direct benefic		Persons	500	500	700

Category		Unit	2020	2021	2022
	No. of Board meetings	Times	-	-	8
	No. of agendas	Ea.	-	-	14
Board of	Preliminary deliberation	%	-	-	0
Directors	Decisions on revised agenda	F-	-	-	0
	Reported agenda	Ea		-	3
	BOD attendance rate	%	-	-	100
	Male	Doronno	-	-	5
	Female	Persons -		-	1
	Ratio of female directors in the BOD	%	-	-	16.7
Board	Under 30 years		-	-	0
diversity	30 ~ 50 years	D	-	-	2
	Above 50 years	Persons -	-	-	4
	No. of outside directors	_	-	-	3
	Ratio of outside directors	%	-	-	50
Anti-	Total no. of business sites		-	-	4
	No. of business sites that conducted anti-corruption risk assessment	Ea.	-	-	0
опараоп	Ratio of business sites that conducted anti-corruption risk assessment	%	-	-	0
	No. of Board members that received ethics training	Persons		-	6
	Ratio of Board members that received ethics training	%		-	100
	Total no. of employees that received ethics training	Persons	563	632	652
Anti-cor- ruption	Ratio of employees that received ethics training	%	100	100	100
oolicies and procedures	Total no. of Board members who have signed the ethics pledge	Persons		-	6
	Ratio of Board members who have signed the ethics pledge	%	-	-	100
	Total no. of employees who have signed the ethics pledge	Persons	522	593	614
	Ratio of employees who have signed the ethics pledge	%	93	94	93
Anti-cor- ruption violations	No. of anti-corruption violations	Ea. (Persons)	0	0	0

108 2023 Hansol Group Sustainability Report Sustainability Essentials Hansol Sustainability Action Appendix 109 Introduction

Tapex

Economy

Category			Unit	2020	2021	2022
	Sales			118,772	154,922	182,261
	Gross profit			27,655	36,543	42,585
	Selling, gen administrati	eral, and ve expenses		13,813	15,289	17,133
	Operating in	ncome		13,842	21,254	25,451
Income	Financial inc	come	KRW	290	864	1,660
statement	Financial ex	penses	million	1,407	449	382
	Gains or loss	es using equity method		0	0	(3,321)
	Other income Other expenses			5,675	2,708	3,527
				1,685	900	3,236
	Net income before the deduction of corporate tax expenses			16,715	23,477	23,699
	A + -	Current assets		66,120	74,930	84,233
	Assets	Non-current assets		96,485	105,883	51,900
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Current liabilities		38,868	25,968	24,861
Balance	Liabilities	Non-current liabilities	KRW	9,321	23,536	19,971
sheet		Shareholders' equity in the parent company	million	114,416	131,309	147,966
	Capital Shareholders' eq- uity in the non-con- trolling company		0	0	0	
R&D		Total R&D expenses for the		3,050	3.956	3,973
	current peri	od	million			
Παυ	R&D expens	ses/sales	%	2.59	2.60	2.21
	No. of R&D	personnel	Persons	31	29	32

(Based on the consolidated financial statements)

110

Category Unit 2020 202 Consumption of raw materials Raw materials Tons 11,975 13,01 Appendix for product Tons 11,975 13,01	1 2022
materials consumed 10ns 11,975 13,01	
	0 12,757
Amount of recycled materials (reused raw materials) consumed that contain recycled materials) consumed Deficiency and the contain recycled materials (reused raw Tons materials) and the contain recycled materials (reused raw Tons materials) and the contain recycled materials (reused raw Tons materials) and the contain recycled materials (reused raw Tons materials) and the contain recycled materials (reused raw Tons materials) and the contain recycled materials (reused raw Tons materials) and the contain recycled materials (reused raw Tons materials) and the contain recycled materials (reused raw Tons materials) and the contain recycled materials (reused raw Tons materials) and the contain recycled materials (reused raw Tons materials) and the contain recycled materials (reused raw Tons materials) and the contain recycled materials (recycled raw Tons materials) and the contain recycled materials) and the contain recycled materials (recycled raw Tons materials) and the contain recycled materials (recycled raw Tons materials) and the contain recycled materials (recycled raw Tons materials) and the contain recycled materials (recycled raw Tons materials) and the contain recycled materials (recycled raw Tons materials) and the contain recycled materials (recycled raw Tons materials) and the contain recycled materials (recycled raw Tons materials) and the contain recycled raw Tons materials (recycled raw Tons materials) and the contain recycled raw Tons materials (recycled raw Tons materials) and the contain raw Tons materials (recycled raw Tons materials) and the contain raw Tons materials (recycled raw T	0 2,260
materials Hallo of recycled materials (reused raw % 18 1 materials) consumed	9 18
Total energy 223 26 consumed	4 273
Total energy	- 76
consumption	- 198
Energy intensity GJ/KRW - billion	- 1,516
Total amount of water consumed 2,022,800 2,057,56	8 2,156,459
Amount of water 220,255 221,84	7 218,792
Yanggam Amount of underground water 0 consumed	0 0
Amount of seawa- ter consumed 0	0 0
Amount of water 785,800 786,99	4 921,301
Water con- Amount of un-	0 0
domestic Amount of seawa-	0 0
data) Amount of water consumed 1,016,745 1,048,72	7 1,016,366
Amount of un-	0 0
Amount of seawa- ter consumed 0	0 0
Amount of water 2,003,076 2,034,71 Water reuse reused	2 2,140,452
Ratio of water reused % 99 9	9 99
Direct emissions 3,396 4,28 (Scope 1)	5 4,131
Emissions Indirect emissions tCO ₂ eq 7,643 8,80	0 9,452
emissions Greenhouse gas emissions (Scope 1+2) 11,039 13,08	5 13,583
CO:eq/ GHG emission intensity to the third	- 76
SOx 58 35	1 604
NOx 8,672 9,95	
Air POP -	- 0
pollutants Emissions VOC kg -	- 0
HAP 14,807 20,65	
PM 13,894 13,97	9 13,864 0
Water Emissions COD npm 0 8	
pollutants $\frac{\text{COD}}{\text{SS}}$ $\frac{\text{Spin}}{\text{SS}}$ $\frac{\text{COD}}{\text{SS}}$ $\frac{\text{Spin}}{\text{SS}}$ $\frac{\text{COD}}{\text{SS}}$	

Category			Unit	2020	2021	2022
	Total amount treated in Kor	of waste (amount ea)		1,239	1,423	1,317
	General	General waste discharged at business sites		833	909	816
	waste	Incineration		0	0	0
		Landfill		33	14	0
		Recycling		800	895	816
		Designated waste discharged	Tons	382	488	467
Waste	Designated waste	Incineration		1	30	56
		Landfill		0	0	0
		Recycling		381	458	411
	Domestic waste	Domestic waste discharged		24	25	34
		Incineration		0	0	C
		Landfill		0	0	C
		Recycling		24	25	34
	Waste	Recycled amount		1,205	1,379	1,261
	recycling rate	Waste recycling ratio	%	97	97	96
Environ- mental ex-	Environ- mental	Amount of environ- mental investments	KRW	91	1,378	731
penses and investments	investments	Environmental expenses	million	68	223	59
Salos of area	n producto	Sales of green prod- ucts and services	KRW million	-	-	154
Sales of green products		Ratio of sales related to green products	%	-	-	0.09

Social

Category			Unit	2020	2021	2022
	r of employees	S	Persons	277	401	432
	1 7	Total		7	7	8
	Executives	Female	_	1	1	1
		Male	_	6	6	7
Current		Total	_	269	363	390
employees	Permanent	Female	Persons	30	31	32
(by employ-		Male	_	239	332	358
ment type)		Total	_	1	2	4
	Non-	Female	_	1	1	4
	permanent	Male	_	0	1	0
Outsourced	workers		Persons	0	29	30
Current employees	Full-time		Persons -	277	394	421
(by work schedule)	Part-time		Persons	0	7	11
Current em- ployees (by	Domestic		Persons -	274	398	427
ocation)	Overseas		1 0100110	3	3	5
	No. of male e	mplovees	Persons	245	345	371
			%	88.5	86.0	85.9
	Ratio of male employees		Persons	32	56	61
	No. of female employees					
	Ratio of female employees No. of male executives		<u>%</u>	11.6	14.0	14.1
			Persons	6	6	7
	Ratio of male		% Persons	2.17	1.50	1.62
		No. of female executives		1	1	1
	Ratio of female executives		%	0.36	0.25	0.23
	No. of male managers (manager level or higher)		Persons	-	-	75
	Ratio of male managers (manager level or higher)		%	- [-	17.4
	No. of 18 managers (manager level or higher)		Persons	7	10	11
	Ratio of female managers (manager level or higher)		%	2.5	2.5	2.6
Employee diversity		No. of employees with disabilities	Persons	2	3	7
uiversity		Ratio of employees with disabilities	%	0.7	0.8	1.6
		No. of senior employ- ees (55 years or older, excl. executives)	Persons	3	8	6
		Ratio of senior employees	%	1.1	2.0	1.4
	Hiring of the socially dis-	No. of foreign employees	Persons	3	3	3
	advantaged	Ratio of foreign employees	%	1.1	0.8	0.7
		No. of employees with high school degree	Persons	88	156	165
		Ratio of employees with high school degree	%	31.8	38.9	38.2
		No. of veterans	Persons	2	2	2
		Ratio of veterans	%	0.7	0.5	0.5

Category		Persons in the age	Unit	2020	2021	2022
		group (Under 30 years of age)	Persons	-	-	64
		Percentage (Under 30 years of age)	%	-	-	14.8
Employee	Employee composi-	Persons in the age group (30 ~ 50 years of age)	Persons	-	-	315
diversity	tion	Percentage (30 ~ 50 years of age)	%	-	-	72.9
		Persons in the age group (Above 50 years of age)	Persons	-	-	53
		Percentage (Above 50 years of age)	%	-	-	12.3
	Male			111	177	105
New hires	female	Lll 00	D		4	30
new filles	By age	Under 30 years 30 ~ 50 years	Persons	55 61	59 113	82
	Dy ago	Above 50 years		2	9	0
		Average male		53	55	64
		Average female salary	KRW million	44	45	48
		Ratio of base salary of female to male	%	83	81	75
		Average male executive salary	KRW		-	273.37
		Average female executive salary	million	-	-	244.73
		Ratio of base salary of female executive to male executive	%	-	-	89.5
	Base salary	Average male permanent employee salary	KRW	-	-	65.05
Employee compensa-tion	and remu- neration by gender	Average female permanent	million	-	-	59.58
		employee salary Ratio of base salary of female permanent	%			91.6
		employees to male permanent employees Average male	70			91.0
		non-permanent employee salary	KRW			0
		Average female non-permanent employee salary Ratio of base salary of	million			2.44
		female non-perma- nent employees to male non-permanent	%	-	-	-
	Average year	employees rs of service	Years	5.8	4.9	5.2
Job		of employee turnover	Persons	-	-	83
security	Voluntary tur		%	-	-	95.2
	Non-volunta			-	-	4.8
		ries of training/education for employee	Persons	277	401	402
	training/educ		million	123	185	225
Talent de- velopment	Training expe	enses per employee	KRW	445	462	560
roiopinoni		ours of training	1,000	3,687	4,082	3,818
		ng hours per employee	Hours	13	10	9
		No. of industrial accidents occurred	Ea.	2	2	1
		Industrial accident rate	%	0.7	0.5	0.3
	Employees	No. of deaths	Persons	0	0	0
Industrial		No. of injuries Duration of work-	Hours	2 1,104	1,008	128
accidents		No. of industrial accidents occurred	Fa.	-		0
	Cuba	Industrial accident rate	%		-	0
	Subcon- tractors	No. of deaths No. of injuries	Persons	-	-	0
		Duration of work- hour loss	Hours	-	-	0
Mutual	Suppliers	Total no. of partner companies Total purchase	Ea.	102	114	104
Mutual growth	SME	from partners Total purchases	KRW million	49,792	71,199	76,311
	support	from SME		31,239	47,211	57,265
Coix tuc -1-	No. of violation	ons of fair trade laws	Ea.	-	-	0
Fair trade Information	Fines impose		KRW million			0
security breaches	and loss	ita leakage, theft,	Ea.	0	0	0
Workplace	No of	aints filed in relation				

Category						0000
	N. 6 1 1 1		Unit	2020	2021	2022
Incidents of non-com-	sanctions	ns that resulted in		0	0	0
pliance to regulations	No. of warning compliance	gs from non-	Ea.	0	0	0
and internal codes	No. of violatio	ns of internal codes		0	0	0
Work loss	No. of work lo companies	ss cases in partner	Ea.	-	-	0
	Employees	Total		6	1	9
	who have	Male		3	0	4
	taken pa- rental leave	Female		3	1	5
	No. of em- ployees who	Total	Persons	1	6	5
Parental leave	have returned to work after	Male		0	4	2
	parental leave	Female		1	2	3
	Return rate of employees who have taken parental leave		%	100	86	50
	No. of employ- ees who have worked over 12 months after returning from parental leave	Total		6	6	8
		Male	Persons	1	2	5
		Female		5	4	3
	worked over 1	oyees who have 12 months after n parental leave	%	100	86	72
	Duration of educ	ation for human rights	Hours	-	1	1
	human rights		Persons		369	399
Human rights	Ratio of emplo	oyees who ıman rights training	%	-	92.0	92.4
policies and procedures	Duration of edu of workplace bu	cation for prevention ullying	Total	236(2)	369(2)	798(2)
procedures	Duration of ed harassment p	ducation for sexual revention	hours (per em-	236(1)	369(1)	399(1)
		(Human rights educa- rith disabilities, etc.)	ployee)	236(2)	369(2)	798(2)
		Cash donation		0	0	18
	Investment in CSR (incl.	Non-cash donation	KRW million	3	10	10
CSR .	donation)	Business expenses		-	-	2
CSH .	Total voluntee	er hours		18	18	300
	Average volunte	er hours per employee	Hours	0.06	0.04	0.69
	Direct benefic		Persons	65	86	179

Governance

aovernan					
Category		Unit	2020	2021	2022
Board of Directors	No. of Board meetings	Times	-	-	8
	No. of agendas	Ea.	-	-	13
	Preliminary deliberation	%	-	-	100.0
	Decisions on revised agenda	Ea.	-	-	0
	Reported agenda	⊏a.	-	-	7
	BOD attendance rate	%	-	-	93.8
	Non-executive attendance rate	70		-	91.7
	Male	Persons	-	-	5
	Female	Persons	-	-	1
	Ratio of female directors in the BOD	%	-	-	16.7
Board	Under 30 years		-	-	0
diversity	30 ~ 50 years	Persons	-	-	1
	Above 50 years	reisons	-	-	5
	No. of outside directors			-	3
	Ratio of outside directors	%		-	50.0
	Total no. of business sites		-	-	4
Anti-	No. of business sites that conducted anti-corruption risk assessment	Ea.	-	-	0
corruption	Ratio of business sites that conducted anti-corruption risk assessment	%	-	-	0
	No. of Board members who received ethics training	Persons	-	-	3
	Ratio of Board members who received ethics training	%	-	-	50
	Total no. of employees who received ethics training	Persons	274	369	399
Anti-cor- ruption	Ratio of employees who received ethics training	%	98.9	92	92.4
policies and procedures	Total no. of Board members who have signed the ethics pledge	Persons	-	-	0
	Ratio of Board members who have signed the ethics pledge	%	-	-	0
	Total no. of employees who have signed the ethics pledge	Persons	244	311	353
	Ratio of employees who have signed the ethics pledge	%	88.09	77.56	81.7
Anti-cor- ruption violations	No. of anti-corruption violations	Ea. (Persons)	0	0	0

2023 Hansol Group Sustainability Report Sustainability Essentials Introduction Hansol Sustainability Action Appendix 111

^{*} Newly disclosed indicators in 2022: Energy intensity, GHG emission intensity
* No significant spills of hazardous (chemical) substances or violation of environmental laws and regulations in the past three years (zero cases)

GRI CONTENT INDEX

Hansol Holdings reported in accordance with GRI standards from January 1, 2022 to December 31, 2022.
GRI 1: Foundation 2021 applied

UNIVERSAL STANDARDS

General Disclosures 2021

112

Index		Description	ISO 26000	Page no.
	2-1	Organizational details		6, 7
The	2-2	Entities included in the organization's sustainability reporting		2, 6~15
organization and its reporting	2-3	Reporting period, frequency and contact point		2
practices	2-4	Restatements of information	6.3.10/6.4.1~	X
	2-5	External assurance	6.4.5/6.8.5	114
	2-6	Activities, value chain and other business relationships		6~15
Activities and workers	2-7	Employees		88, 90, 92, 94, 96, 98,
	2-8	Workers who are not employees		100, 102, 104, 106, 108, 110
	2-9	Governance structure and composition		72~75
	2-10	Nomination and selection of the highest governance body		74, 75
	2-11	Chair of the highest governance body	6.2/7.4.3/7.7.5	
	2-12	Role of the highest governance body in overseeing the management of impacts		74
	2-13	Delegation of responsibility for managing impacts		The company has not delegated responsibility for managing impact.
	2-14	Role of the highest governance body in sustainability reporting	6.2/7.4.3/7.7.5	74
Governance	2-15	Conflicts of interest		There is no process to prevent conflicts of interest
	2-16	Communication of critical concerns		Insufficient data (No information)
	2-17	Collective knowledge of the highest governance body		Annual education sched- ule starting 2023
	2-18	Evaluation of the performance of the highest governance body		Insufficient data (No information)
	2-19	Remuneration policies		Confidential; not to be disclosed
	2-20	Process to determine remuneration		Insufficient data (No information)
	2-21	Annual total compensation ratio		Confidential; not to be disclosed

Index		Description	ISO 26000	Page no.
	2-22	Statement on sustainable development strategy	4.7/6.2/7.4.2	5
	2-23	Policy commitments		00.04.00
	2-24	Embedding policy commitments		22~24, 62
Chunka m.	2-25	Processes to remediate negative impacts		Insufficient data (No information)
Strategy, policies and	2-26	Mechanisms for seeking advice and raising concerns	6.6.3	62
practices	2-27	Compliance with laws and regulations		88~111
	2-28	Membership associations	7.8	121
	2-29	Approach to stakeholder engagement	5.3	86
	2-30	Collective bargaining agreements		Insufficient data (No information)

Material Topics 2021

Index		Description	ISO 26000	Page no.
	3-1	Process to determine material topics	5.2/7.3.2~7.3.4	86
Material topics 3	3-2	List of material topics	5.2/1.5.2~1.5.4	87
	3-3	Management of material topics	7.5.3/7.6.2	87

Topic Specific Standards Economic Performance

Index		Description	ISO 26000	Page no.
Economic	201-1	Direct economic value generated and distributed	6.8.1~	6~15, 88~107
performance	201-2	Financial implications and other risks and opportunities due to climate change	6.8.3/6.8.7/6.8.9	50~53
economic -	203-1	Infrastructure investments and services supported	6.3.9/6.6.6/ 6.6.7/6.7.8/ - 6.8.1~	70, 71
	203-2	Significant indirect economic impacts	6.8.2/6.8.5/ 6.8.7/6.8.9	26~71
Anti-corruption	3-3	Management of material topics		87
	205-2	Communication and training about anti-corruption policies and procedures	6.6.1~6.6.3	88~107

Topic Specific Standards Environmental Performance

Index		Description	ISO 26000	Page no.
	3-3	Management of material topics		87
Energy	302-1	Energy consumption within the organization	054	88~107
	302-5	Reductions in energy requirements of products and services	6.5.4 —	53, 54
Water and	303-2	Management of water discharge-related impacts	054	56, 57
effluents	303-3	Water withdrawal	6.5.4 —	88~107
	3-3	Management of material topics		87
Water	305-1	Direct (Scope 1) GHG emissions		
discharge	305-2	Direct (Scope 2) GHG emissions	6.5.5	88~107
	305-7	Nox, Sox, and other significant air emissions		
	3-3	Management of material topics		87
	306-2	Management of material impacts related to waste		56, 57
Waste	306-3	Waste by type and disposal method	6.5.6	31, 64
	306-4	Waste recycling	_	26, 54

Topic Specific Standards Social Performance

114

Index		Description	ISO 26000	Page no.
	3-3	Management of material topics		87
Employment	401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	6.4.4/6.8.7	62, 63
	401-3	Parental leave	6.4.4	88~107
	3-3	Management of material topics		87
	403-1	Occupational health and safety management system		25, 64
Occupational nealth and safety	403-4	Worker participation, consultation, and communication on occupational health and safety	6.4.6/6.8.8 —	65
saicty	403-5	Worker training on occupational health and safety	0.4.0/0.0.0	64
	403-9	Work-related injuries		88~107
	3-3	Management of material topics		87
Training and education	404-2	Programs for upgrading employee skills and transition assistance programs	0.47/0.05	62, 63
	404-3	Percentage of employees receiving regular performance and career development reviews	6.4.7/6.8.5 —	88~107
Diversity and equal	3-3	Management of material topics		87
	405-1	Diversity of governance bodies and employees	6.2.3/6.3.7/	88~107
opportunity	405-2	Ratio of basic salary and remuneration of women to men	6.4.3/6.4.4	
ocal communities	413-1	Operations with local community engagement, impact assessments, and development programs	6.3.9/6.5.1~ 6.5.3/6.8	70, 71
Supplier social assessment	414-2	Negative social impacts in the supply chain and actions taken		33
Customer health and safety	3-3	Management of material topics		87
	416-2	Incidents of non-compliance concerning the health and safety impacts of products and services		N/A
Marketing and abeling	417-1	Requirements for product and service information and labeling	6.7.3	50, 51

UN SUSTAINABLE DEVELOPMENT GOALS

The UN Sustainable Development Goals, (hereinafter referred to as SDGs), which replace the Millennium Development Goals (MDGs), are the common goals the United Nations and the international community aim to achieve from 2016 to 2030. The SDGs consist of 17 goals and 169 specific tasks for the sustainable development of all nations around the world, such as reduction of poverty and inequality and responses to climate change, as well as economic growth and job creation. Hansol Group's key issues for sustainable management align with the UN SDGs. This commitment is transparently shared in the Sustainability Report to ensure responsible task execution.

Key issues	UN SDGs	Activities
Ethical management and anti- corruption	3 marin. √√• 12 marin. (Constitution of the constitution of t	 - All affiliates conducted compliance management assessment. - All affiliates reviewed risk management system. - All affiliates established the ESG Indicator Management System.
2 Management of air pollutants in the manufacturing process	2 streets South	- Hansol Chemical upgraded facilities for energy efficiency Hansol Technics cut GHG emissions through facility upgrades.
3 Creation of a safe work environment	4 mm; 5 mm; ©	 All affiliates established the Hansol Safety Rating System (HSRS) to manage health and safety. ISO 45001 certification obtained by Hansol Paper, Hansol Logistics, Hansol PaperTech, Hansol Chemical, Hansol Technics, and Tapex.
Enhancing product-responsibility and customer satisfaction	7 ************************************	 - Hansol Holdings hosted Group Innovation Olympics. - Hansol Group and KAIST established a joint research center in the field of materials, parts, and equipment. - 7 affiliates of Hansol Group obtained ISO 9001 for quality management.
5 Promotion of work-life balance	13 Sees Sees Sees Sees Sees Sees Sees See	- Hansol Paper, Hansol Chemical, and Tapex certified as family-friendly companies A telecommuting employment platform introduced for persons with disability.
Supporting employee capacity building	4 1887	- All affiliates developed an online education curation system utilizing competency diagnosis. - Tapex introduced an internal referral system.
Minimizing raw material consumption and promoting recycling	13 and 14 for some 15 for some	- Hansol Paper and Hansol HomeDeco increased share of green products Hansol HomeDeco increased use of recycled raw materials.
Safe waste, wastewater, and chemical discharge management	15 flux	- Hansol Chemical reduced waste water discharge by 30,000 tons Hansol Paper, Hansol HomeDeco, Hansol PaperTech, and Hansol Technics invested in environmental facilities.
9 Fostering an agile organizational culture	6 seconds 13 thm	- Hansol Technics, Tapex, and Hansol IONES hosted meetings to enhance intergenerational communication Hansol PNS operates flexible working system.
In-house human rights policy and education	5 mm,	- Hansol Holdings established Group Human Rights Management Policy Operation of Group Employee Mental Health Promotion Program.

INDEPENDENT ASSURANCE STATEMENT

To: Executives and Stakeholders of Hansol Holdings

Introduction

Korean Standards Association (KSA, hereinafter, the "Assurer") was commissioned by Hansol Holdings to conduct an independent assurance of the 2023 Hansol Group Sustainability Report hereinafter (the "Report"). The Assurer reviewed the validity of the data contained in the report prepared by Hansol Holdings and presented an independent assurance opinion. The data and presentation in the Report are solely the responsibility of Hansol Holdings.

Independence

The Assurer, as an independent assurance agency, is solely dedicated to providing third-party assurance on the Report, with no vested interests or affiliations in Hansol Holdings' business activities that could compromise their independence or financial gains.

Assurance Standards and Level

In accordance with the assurance standard of AA1000AS v3, the Assurer verified compliance with the principles of comprehensiveness, materiality, responsiveness, and impact. The evaluation has determined a "moderate" level of reliability for the information presented in the Report. Furthermore, compliance with the GRI Standards 2021 was verified, covering both the universal standards and topic-specific standards.

Assurance-Type and Scope

The Assurer conducted a Type 1 assurance, confirming adherence to the four principles of AA1000AP (Account Ability Principles) 2018.

The scope of assurance covered the period from January 1, 2022, to December 31, 2022, with a particular focus on Hansol Group's sustainability-management policies, objectives, initiatives, standards, and accomplishments, including those of Hansol Holdings and its affiliates during the reporting period. Verification encompassed environmental and social data as well as broader financial data related to economic performance. However, verification of stakeholder engagement was limited to a review of the materiality test process.

Methodology

To collect the information, data and evidence for assurance, the Assurer performed the following activities;

- Examination of stakeholder-engagement and materiality test process of Hansol Holdings by sustainability management experts;
- Assessment of the media-research results that pertained to Hansol Holdings' sustainability management and the overall balance of reporting;
- Verification of the consistency in financial performance data, undertaken by a certified public accountant, including a review of the financial statement and disclosed data;
- Review of conformity with the environmental information disclosure data by the Greenhouse Gas Assurer; and
- Review of other pertinent performance documents and data.

Conclusion and Opinion

116

The Assurer examined the initial draft of the Report and offered insights, leading to subsequent revisions that incorporated these suggestions. No major errors or improper statements were identified within the Report's contents. The Assurer's assessment of the 2023 Hansol Group Sustainability Report can be summarized as follows.

Inclusivity

Has Hansol Holdings actively involved stakeholders in shaping its strategic response to sustainability?

It is confirmed that Hansol Holdings acknowledges the significance of engaging with stakeholders in advancing sustainable practices and is actively working to establish a participatory framework. The company has specifically identified employees, partners, shareholders/investors, government/local authorities, customers, and local communities/NGOs as essential stakeholder groups and maintains dedicated communication channels for each group to gather a wide range of perspectives and valuable input.

Materiality

Has Hansol Holdings provided crucial information in the report to empower stakeholders' informed decision-making?

Our assessment indicates that Hansol Holdings has diligently included all pertinent information for stakeholders. Moreover, we verified that a comprehensive materiality test was conducted, encompassing the key issues identified through an exhaustive analysis of both the internal and external factors affecting Hansol Holdings, and these findings were reported.

Responsiveness

Has Hansol Holdings adequately responded to the needs and concerns of stakeholders?

Our review did not uncover any indications of misreported or inadequate response activities by Hansol Holdings.

Impact

Has Hansol Holdings effectively monitored its influence on stakeholders?

Our assessment confirmed that Hansol Holdings is diligently monitoring and comprehending the impact of its business operations on stakeholders. Furthermore, we verified that this information has been accurately incorporated into the Report.

GRI Standards Disclosure Review

The Assurer confirms that the Report adheres to the GRI Standards. The sections pertaining to both Universal Standards and Topic Standards indicators are presented based on data supplied by Hansol Holdings. Our review of the data substantiates the accuracy of these representations.

June 2023
Chair of Korean Standards Association,
Kang Myeong-Soo







The Korean Standards Association is a special corporation established according to the Industrial Standardization Act in 1962. It is a knowledge service institution that supplies and spreads industrial standardization, quality management, sustainable management, and KS and ISO certifications, etc. It contributes to the sustainable development of Korean society as an ISO 26000 Korean agency, GRI designated education institution, AA1000 assurance institution, Korea Sustainability Index (KSI), UN CDM operation organization, and institution of greenhouse gas and energy management system assurance.

(*As of June 2022)

AFFILIATES WITH CERTIFICATIONS

118

Company	Certification						
name	Environment	Quality	Safety and health	Family-friendly certification	Other		
Hansol Paper	ISO 14001 Green Business (Janghang Plant)	ISO 9001 (Daejeon, Janghang, Shintanjin, Cheonan Plants)	ISO 45001 (Daejeon, Janghang Plants)	Family- friendly business	Gold-certified in the Ecovadis sustainability evaluation		
Hansol PaperTech	ISO 14001 (Headquarters)		ISO 45001 (Headquarters)				
Hansol PNS	ISO 14001 (Paper distribution division)				ISMS (information security management, IT service) (Subsidiary) Hansol Coever Youth- friendly small giant		
Hansol HomeDeco	ISO 14001 (Headquarters, Iksan Plant)	ISO 9001 (Iksan Plant)	KOSHA-MS				
Hansol Logistics	ISO 14001 (Headquarters)	ISO 9001 (Headquarters)	ISO 45001 (Headquarters)		AEO certification (Excellent company for export/ import safety management) Outstanding logistics provider General logistics service, international freight forwarding, and trucking)		
Hansol Technics	ISO 14001 (Jincheon, Ochang Plants)	ISO 9001 (Jincheon, Ochang Plants) IATF 16949 (Automobile quality management system) certification	ISO 45001 (Jincheon, Ochang Plants)				
Hansol IONES	ISO 14001 (Headquarters, Baran Plant)	ISO 9001 (Headquarters, Baran Plant) AS 9100	ISO 45001 (Headquarters) KOSHA-MS (Headquarters, Baran Plant)		ISO 22301 (Business continuity management system) ISO 27001 (Information security management system)		
Hansol Chemical	ISO 14001 (Jeonju, Ulsan Plants) Green business	ISO 9001 (Jeonju, Ulsan Plants) IATF 16949	ISO 45001 (Jeonju, Ulsan Plants)	Family- friendly business	Materials and parts specialist (Ministry of Trade, Industry and Energy)		
Тарех	ISO 14001 (Yanggam, Hwaseong, Uniwrap Plants)	ISO 9001 (Yanggam, Hwaseong, Uniwrap Plants) IATF 16949 (Yanggam, Hwaseong Plants)	ISO 45001 (Yanggam, Hwaseong Plants)	Family- friendly business	Materials/parts/equipment specialist (Korea Evaluation Institute of Industrial Technology)		

AWARDS

Affiliates	Awards	Awarded by
Hansol Paper	The most respected company in Korea: ranked top in the paper sector for 20 consecutive years	Korea Management Association Consulting (KMAC)
Hansol HomeDeco	Best Space Award	Seoul Living Design Fair
Hansol Logistics	2022 AEO Sharing Contest: Recognition Award (Lee Jin-seok)	Korea Customs Service
Turisor Edgistics	Certificate of Commendation from Seoul Regional Customs (Lee Jin-seok)	Seoul Regional Customs
	2022 DX Sector Environmental Safety Innovation Contest Partner Day: Excellence Award	Samsung Electronics
Hansol Technics	2021 Agricultural and Fishing Villages Collaborative Cooperation Fund: Honorary Award	Ministry of Trade, Industry and Energy
	Certificate of Commendation (No. 125758, Choi Jong-ik)	Ministry of Agriculture, Food and Rural Affairs
Hansol IONES	The Anseong City Entrepreneur Awards: Harmonious Labor-Management Award (Corporate)	Anseong Chamber of Commerce
	Selected as the top three company in materials, parts and equipment in 2022 Beacon Company Tower of 300 Million Dollar Export	Ministry of Trade, Industry and Energy
	2022 Outstanding Innovation Partners: Grand Prize	Samsung Electronics
Hansol Chemical	Fire Safety Management Practical Ability Contest: Grand Prize (Joo Hyungang)	
	Commendation on Firefighting Day (Joo Hyungang)	Jeollabuk-do
	Industrial Complex Disaster Monitoring: Certificate of Commendation (Kim Seong-jin)	
Tonov	Excellence Award in Materials, Parts, and Equipment Manufacturing: Minister's Award	Ministry of Trade, Industry and Energy
Tapex	Tower of 50 Million Dollar Export	Korea International Trade Association

LOCAL BUSINESS SITES

Company name	Business site	Address
Hansol	Headquarters	25/F, Pine Avenue Building B, 100 Eulji-ro, Jung-gu,
Holdings	Headquarters	Seoul, Republic of Korea 23 ~ 24/F, Pine Avenue Building B, 100 Eulji-ro, Junggu, Seoul, Republic of Korea
	Janghang Plant	149 Jangsan-ro, Janghang-eup, Seocheon-gun, Chungcheongnam-do, Republic of Korea
	Daejeon Plant	Daejeon Plant 50 Sinilseo-ro 68 beon-gil, Daedeok- gu, Daejeon, Republic of Korea
Hansol Paper	Cheonan Plant	4186 Sejong-ro, Gwangdeok-myeon, Dongnam-gu, Cheonan-si, Chungcheongnam-do, Republic of Korea
	Sintanjin Plant	60 Sinilseo-ro 126 beon-gil, Daedeok-gu, Daejeon, Republic of Korea
	Environmental Business Headquarters	3/F, Ubiquitous Building, 68 Pangyo-ro 255 beon-gil (616 Sampyeong-dong), Bundang-gu, Seongnam, Gyeonggi-do, Republic of Korea
Hansol PaperTech	Headquarters	80 Daechi 7-gil, Daejeon-myeon, Damyang-gun, Jeollanam-do, Republic of Korea
	Headquarters (Paper Distribution Division)	5/F, Ilheung Building, 213 Toegye-ro, Jung-gu, Seoul, Republic of Korea
Harrad PMO	Headquarters (IT Service Division)	13/F and 14/F, Nuritkum Square Business Tower, 396 Worldcupbuk-ro, Mapo-gu, Seoul, Republic of Korea
Hansol PNS	Chungmuro Center	120-1 Family Building, Pildong 2-ga, Jung-gu, Seoul, Republic of Korea
	Paju Converting Center	108 Jikji-gil, Paju-si, Gyeonggi-do, Republic of Korea
	Paju Integration Center	96 Jikji-gil, Paju-si, Gyeonggi-do, Republic of Korea
	Headquarters	27/F, Jeonmun Geonseol Hoegwan, 15 Boramae 5-gil, Dongjak-gu, Seoul, Republic of Korea
Hansol HomeDeco	TI Business Division	15/F, Jaram Building, 78 Mapo-daero, Mapo-gu, Seoul, Republic of Korea
	Iksan Plant	54 Seogam-ro 17-gil, Iksan-si, Jeollabuk-do, Republic of Korea
	Headquarters	22/F, Pine Avenue Building B, 100 Eulji-ro, Jung-gu, Seoul, Republic of Korea
	Icheon Center	#202, 288 Cheongganggachang-ro, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea
	Gunsan CY Center	Gunsan Station, 197 Naeheung 2-gil (Naeheungdong), Gunsan-si, Jeollabuk-do, Republic of Korea
	Gunsan Branch	Pier 5, Gunsan Port, 194 Seohae-ro (Soryong-dong), Gunsan-si, Jeollabuk-do, Republic of Korea
	Damyang Center	Hansol PaperTech, 80 Daechi 7-gil, Daejeon-myeon, Damyang-gun, Jeollanam-do, Republic of Korea
	Daejeon Center	Hansol Paper Daejeon Plant, 50 Sinilseo-ro 68 beongil (Sinil-dong), Daedeok-gu, Daejoen, Republic of Korea
	Busan Center	11/F, Jungang Building, 89 Haegwan-ro (Daechangdong 1-ga), Jung-gu, Busan, Republic of Korea
	Busan New Port Center	#202 Jian Square, 6 Hwajeonsandan 4-ro 30beon-gil, Gangseo-gu, Busan, Republic of Korea
Hansol	Samsung C&T Fashion Business Team	M1 Floor, Kendall Square Bucheon Logistics Park, 80 Sinheung-ro 511beon-gil, Bucheon, Gyeonggi-do, Republic of Korea
Logistics	Metropolitan Area Business Team	M2 Floor, Kendall Square Bucheon Logistics Park, 80 Sinheung-ro 511beon-gil, Bucheon, Gyeonggi-do, Republic of Korea
	Shintanjin CY Center	Shintanjin CY, 24-3 Pyeongchon-dong, Daedeok-gu, Daejeon, Republic of Korea
	Sintanjin Center	Hansol Paper Shintanjin Plant, 60 Sinilseo-ro 126beon-gil (Sinil-dong), Daedeok-gu, Daejeon, Republic of Korea
	Opo Center	Hansol REF, 34-16 Jangji 9-gil (Jangji-dong), Gwangju, Gyeonggi-do, Republic of Korea
	Suwon Center	4/F, Hansol REF, 55 Omokcheon-ro 132beon-gil (Gosaek-dong), Gwonseon-gu, Suwon, Republic of Korea
	Iksan Center	Hansol HomeDeco Iksan Plant, 54 Seogam-ro 17-gil, Iksan, Jeollabuk-do, Republic of Korea
	Janghang Center	Hansol Paper Janghang Plant, 149 Jangsan-ro, Janghang-eup, Seocheon-gun, Chungcheongnam- do, Republic of Korea
	Cheonan Center	Hansol Paper Cheonan Plant, 4186 Sejong-ro, Gwangdeok-myeon, Cheonan-si, Chungcheongnam- do, Republic of Korea

Company name	Business site	Address
	Headquarters	5/F, Pine Avenue Building B, 100 Eulji-ro, Jung-gu, Seoul, Republic of Korea
	Jincheon Plant	55 Hansam-ro, Deoksan-myeon, Jincheon-gun, Chungcheongbuk-do, Republic of Korea
Hansol Technics	Ochang Plant	140 Gwahaksaneop 1-ro, Oksan-myeon, Heungdec gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea
	Suwon Research Center	#801, Building C, Digital Empire Building, 16, Deokyeong-daero 1556beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea
	Headquarters	2061 Anseong-daero, Gosam-myeon, Anseong-si, Gyeonggi-do, Republic of Korea
Hansol IONES	Balan Campus	71-29, Balangongdan-ro 4-gil, Hyangnam-eup, Hwaseong-si, Gyeonggi-do, Republic of Korea
	Dongtan R&D Center	7, Dongtansandan 7-gil, Hwaseong-si, Gyeonggi-de Republic of Korea
		13/F and 14/F, Nuritkum Square Business Tower, 39 Worldcupbuk-ro, Mapo-gu, Seoul, Republic of Kore
	Headquarters	7~8/F, K Tower, 513, Teheran-ro, Gangnam-gu, Seo Republic of Korea
Hansol	Jeonju Plant	873 Gwahang-no, Bongdong-eup, Wanju-gun, Jeollabuk-do, Republic of Korea
Chemical	Ulsan Plant	116 Napdo-ro, Nam-gu, Ulsan, Republic of Korea
	Iksan Plant	1101, Oryong-ri, Samgi-myeon, Iksan-si, Jeollabuk- do, Republic of Korea
	Headquarters	#812-813, 8th Floor, 17 Daehak4-ro, Yeongtong- gu (lui-dong, Ace Gwanggyo Tower 1-cha), Suwon, Gheonggi-do, Republic of Korea
	Yanggam Plant	62-16 Chorok-ro 532beon-gil, Yanggam-myeon, Hwaseong-si, Gyeonggi-do, Republic of Korea
Тарех	Hwaseong Plant	95-4 Goju-ri, Paltan-myeon, Hwaseong-si, Gyeong do, Republic of Korea
	Uniwrap Plant	108 Mannyeon-ro, Hyangnam-eup, Hwaseong-si, Gyeonggi-do, Republic of Korea
	Gunsan Plant	San 38-3, Saemangeum National Industrial Completosikdo-dong, Gunsan-si, Jeollabuk-do (to be completed in October 2023)

MEMBERSHIP OF ASSOCIATIONS

Hansol Holdings

Korea Listed Companies Association

Korea Investor Relations Service

The Korea Employers Federation

Hansol Paper

Gorean Federation of Design Industry

Associations

Korean Standards Association

Korea Personnel Improvement

Korea International Trade Association

Korea Electric Engineers Association

The Institute of Internal Auditors

Seoul Chamber of Commerce and Industry

Daedeok Association

Korea Fire Safety Institute

Korea Chemicals Management Association

Korea Industrial Technology Association

Korea Industrial Safety Association

Korea Listed Companies

The Korea Employers Federation

Daejeon Chungnam Environmental Preservation Association

Korea Paper Association

Korea Energy Engineers Association

Fair Competition Federation

Fair Competition Federation

Daejeon Sejong Chungnam Environmental Engineers Association Korea Society of Packing Science &

Korea Exchange

Korea Investor Relations Service

Korea Resources Circulation Industry Promotion Association (GR Association)

Korean Standards Association

Korea Package Design Association

Korea Chamber of Commerce and Industry (Associate Member)

Federation of Korean Industries

Construction Association of Korea

International Contractors Association of Korea

Korea Construction Engineers

Korea Engineering and Consulting Association

Korea Fire Facility Association

Korea Electric Engineers Association

Korea Fire Safety Institute

and Industry

Korea Specialty Contractors Association
The Seongnam Chamber of Commerce

Hansol PaperTech

Korea Paper Industry Cooperative

Korea Fire Safety Institute

Gwangju Jeonnam Jeju Area PSM Council

Korea International Trade Association

Hansol PNS

Korea Software Industry Association

Korea International Trade Association

Korean Information & Communication Contractors Association

Korea Listed Companies Association

Hansol HomeDeco

Korea Industrial Safety Association

Korean Industrial Health Association

Korean Standards Association

Korea Electric Engineers Association

Jeonbuk Environmental Managers Council Jeonbuk Branch of Korea Safety

Association
Hansol Honam Council

Hansol Safety and Health Council

Korea Specialty Contractors Association
Seoul Metropolitan City Council

Korea Wood Panel Association

Korea Exchange Seoul Office

Iksan Business Environment Council

Iksan Regional Safety and Health Council

- Industriograma delety and Floatin dear

Korea Energy Engineers Association

Jeonbuk Environmental Preservation

Association

Korea Waste Recycling Association

Jeonbuk Regional Chemical Plant

Hazardous Goods Fire Safety Council

Korea Exchange

Korea International Trade Association

Korea Listed Companies Association

Korea Franchise Association

Korea Fire Safety Association

Hansol Group Seoul Council

The Korean Society of Wood Science and Technology

Korea Proptech Forum

Hansol Logistics

Korea Trucking Association

Korea Freight Forwarders Association

Korea Railroad Logistics Association

Korea Port Logistics Association

Korea Chamber of Commerce and

Korea Listed Companies Association

Korean Industrial Health Association

Korea Industrial Safety Association

Environmental Preservation Association

Korea Photovoltaic Industry Association

Environmental Preservation Association

Anseong Managers Association

Korea World Class Enterprise

Anseong Chamber of Commerce

mation & Communication

Korea International Trade Association

Seoul Chamber of Commerce and

KOSDAQ Listed Companies Association

KOSDAQ Listed Companies Association

Korea International Trade Association

Chungbuk Environmental Engineers

Chungbuk Sejong Environmental

Korea Personnel Improvement

AEO Promotion Association

ansol Technics

Korea Fire Safety Institute

Korean Nurses Association

Preservation Association

lansol IONES

Fire Safety Institute

Hansol Inticube

Contractors Association

Korea Software Financial Cooperative

Korea Customs Logistics Association

Korea International Logistics Association

Korea Fire Safety Association

Korea International Trade Association

Ulsan Environmental Engineers

International Air Transport Association

(IATA)

Association

Korea Energy Engineers Association

Jeonbuk Environmental Engineers

Hansol Chemical

Korea Chamber of Commerce and

Korea International Trade Association

Korea Industrial Safety Association

International Semiconductor Equipment and Materials Association

Association
Wanju Environmental Engineers

Jeonbuk Chemical Plant Council

Jeonju Wanju Industrial Complex Fire

Jeonju Industrial Complex Safety and Health Managers Council

Health Managers Council

Jeonbuk Green Business Council

Jeonbuk Business Environment Council

Tapex

Korea Listed Companies Association

Hwaseong Chamber of Commerce and

Korea International Trade Association

Korea Vinyl Environmental Council

.....

Korea Industrial Technology Association

Korea Adhesive Industry Association
The Society of Adhesion and Interface,

Korea Fire Safety Association

Korea Industrial Safety Association

Korea Electric Engineers Association

Korea Energy Engineers Association



2023 Hansol Group Sustainability Report

Publisher Hansol Holdings Communication Team

Date of publication June 30, 2023

Address 100 Eulji-ro, Jung-gu, Seoul 04551 Republic of Korea

Tel +82-2-3287-6875

Email hansolholdings.communication@hansol.com

Website www.hansol.com



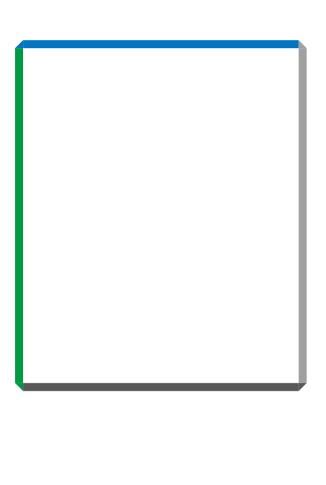
FSC® certified paper produced by Hansol Paper

This report was produced using INSPER ECO by Hansol Paper, FSC-certified paper that contains 30-percent recycled pulp. SC® certification is an internationally recognized mark provided by the Forest Stewardship Council®, a non-profit organization advocating for responsible forest management on a global scale. Our dedication to forest protection is demonstrated through our use of paper sourced from well-managed, FSC® certified forests, along with other sustainable materials.



Soy ink printing

We used soy ink for the printing of this report, which contains a significant portion of vegetable oil derived from soybeans. Due to the high concentration of vegetable oil, soy ink is highly biodegradable and low in volatile organic compounds (VOCs).



Hansol

