2023 **HANSOL GROUP SUSTAINABILITY REPORT** Hansol

About this Report

Hansol Group published its first Sustainability Report back in 2020 and this one will be our third Sustainability Report. The purpose of this report is to disclose information about the company's involvement and performance in regard to the economic, social, and environmental factors. Additionally, keeping in mind stakeholders' values and integrating it within our business model.

Reporting Time Period

This report will present both financial and non-financial performance of Hansol Group's sustainability related activities from January 1 to December 31, 2022. However, there will also be data included from the first half of 2023 and for growth measurement and comparison purposes it will also include information from the past three years from January 1, 2020. to December 31, 2022.

Report Scope

This report covers the sustainability related activities and achievements that are initiated by Hansol Group also in recognition of Hansol Holdings and its 10 subsidiaries' involvement throughout. In the case of financial information, it is limited to the consolidated financial statements in accordance with the Korean International Financial Reporting Standards (K-IFRS).

Reporting Principles and Standards

This report was generated in respect to the GRI (Global Reporting Initiative) standards in accordance with their core principles and criteria's. Besides that, in relation to corporate social responsibility, Hansol Holdings also complies with ISO 26000.

Report Verification

In order to assure reliability of the information provided in the report, it has been verified by an official sustainability report assurance provider and this can be shown on p.114 of this report.

Contact Information regarding the Report

If you desire more information on Hansol Group's sustainability activities or performance, please reach out to the contact information provided below.

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Contents

INTRODUCTION **CEO Message** Hansol Holdings at a Glance 06 History Group Business Portfolio 10 SUSTAINABILITY ESSENTIALS Sustainability Key Figures 2022 18 Sustainability Management System Sustainability Focus Issues HANSOL SUSTAINABILITY ACTION Consumer - Management for Customer Satisfaction Environment - Eco-friendly Product Development and Climate Change Strategy - Achieving Sustainable Growth Together Governance - Transparent Governance and Shareholder-friendly Management **APPENDIX** Materiality Assessment Data Center **GRI Content Index** 112 UN Sustainable Development Goals (SDGs) 115 3rd Party Assurance Statement 116 Certification Status of Affiliates 118 Award History 119 Domestic Business Sites 120

121

Affiliation Association

CEO MESSAGE

Dear our Stakeholders,

04

We would like to express our deepest gratitude for your continued support and encouragement to Hansol Holdings.



2022 was a year full of changes especially for businesses and their external surroundings within the economy and the interest on sustainability has never been greater.

Despite the rapid changes and therefore, difficulties in the business world, Hansol Group is striving to build a sustainable business model.

Hansol Holdings aims to secure competitive advantage through differentiation and deliver maximum value in order to generate sustainable growth with our customers and stakeholders.

In addition, our business principles of being customer-oriented, willingness of adhering new values, acknowledging progressive methods, and creating differentiation, increases our corporate value and allows continuous recognition for new businesses that help us grow.

Evidently, each affiliate is challenged to maximize their performance and competitiveness, executing innovative tasks. We are creating a sustainable business structure by building a future-oriented business model.

Moreover, we have established four organizational principles which are commitment, transparency, respect, and speed, a foundation for the mindset of our employees. We contribute to the creation of a sustainable organizational structure by actively practicing these four principles throughout all our business activities.

Particularly in 2023, we developed the ESG Indicator Management System in efforts to enhance our ESG performance. Through standardized and accurate ESG data management, we will continue to help each of our affiliates to generate growth to strengthen our ESG per-

formance by identifying and implementing ESG focused strategies that will further solidify our ESG management system.

In addition, Hansol Group's affiliates attain certifications such as the international environmental management system (ISO) certifications like ISO 14001 and ISO 45001 and the International Safety Rating System (ISRS). Besides that, we also declared a company-wide human rights management and guidelines to ensure respect between all stakeholders and employees.

Meanwhile, we are conducting a compliance management diagnostics for all affiliates to improve governance practices with active engagement through voluntary corporate governance report disclosures for both financial and non-financial aspects. Moreover, we have implemented a mid-to long-term shareholder return policy and operated the external director candidate recommendation committee to strengthen communication with our stakeholders.

We look forward to your continued interest and support for Hansol Holdings' sustainable growth.

Thank you.

Hansol Holdings' CEO

Jae Hee Lee

HANSOL HOLDINGS AT A GLANCE

Hansol Holdings also realizes the importance of the responsibility 'Hansol' group holds in terms of brand reputation, building a diversified business portfolio, and efficiently allocating resources and the impact this has on sustainable management. Hansol Holdings will continue to construct our business model focusing on Hansol Group's competitive advantage and differentiation in order to further enhance our corporate value through sustainable management.



Company's Status

Founded

Jan. 1965

Headquarters

25th Floor, Pine Avenue Building B Seoul, Jung-gu, Euljiro 100 Credit score

(NICE Investors

ors A

ESG rating

(Korean ESG Report Standard 2022 Composite Rating)

Key business

Management advisory and consulting, investment asset management, brand management, etc.

2022 Financial Results

(Based on separate financial statements, as of Dec. 2022)

06

Total Assets

KRW 4,567 billion (equivalent to \$358 million USD)

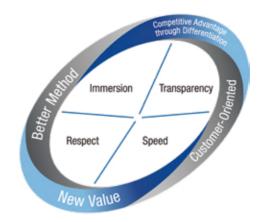
Sales

KRW 344billion (equivalent to \$27 million USD)

Operating Profit

KRW 163 billion (equivalent to \$12.7 million USD)

Hansol Management System (HMS)



Our Mission

We thrive to deliver maximum value as a company by gaining competitive advantage through differentiation and continuously grow with our company

Our Principles

- · Put our customers first
- · The future depends on new values
- · The better approach is our way of doing business
- Differentiated competitive advantage is our way of leading the market

Group Status

Holding company

Hansol Holdings' Companies

Major Subsidiaries

Hansol Paper Hansol PaperTech

Hansol PNS

Hansol Technics

Hansol IONES

Hansol Logistics

Hansol HomeDeco

Hansol Inticube

Major Affiliates

Hansol Chemical

Tapex

Hansol Holdings Shareholding 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%

0

Hansol Inticube

26.65%

Hansol Technics

20.26%

HISTORY

For the past 50 years, Hansol has been meeting customers in various fields such as paper manufacturing, electrical/electronics, chemicals, logistics, and IT, starting from its roots in the paper industry in 1965. It has been a journey of overcoming limitations and pioneering the future through constant challenges. Now, leveraging outstanding competitiveness and expertise in the global market, Hansol is leaping forward as a global company that extends beyond the domestic market. Building upon the accumulated capabilities and experiences, Hansol will continue to innovate in line with future changes and strive for sustainable growth.



2000 - Hansol Logistics ventures into global logistics platform

2000

business - Hansol Paper declares vision to become the most outstanding 2015 - Transition to a holding paper company in Asia

2001 - Hansol Logistics develops the world's first intelligent delivery system

2002 - Hansol Group establishes the leadership of Chairman Dong-Kil

2005 - Celebration of the 40th anniversary and declaration of vision

2007 - Hansol Paper obtains international forest certification 2019 - Establishment of Hansol

2008 - Hansol PNS acquires Hansol Inticube

2009 - Hansol Paper ranked 4th largest printing paper producer in Asia

2020 - Establishment of Hansol V

2011 - Acquisition of Hansol

2012 - Establishment of Hansol Chemical's subsidiary (HanSong Electronics) in

the world's first mass

Management System (HMS)

Vietnam

2023

2023 - Hansol Paper receives the 1st place in the paper sector for the 20th consecutive year as the "Most Admired Company"

> - Hansol Group is designated as a group of companies subject to disclosure requirements



1990

1980 Declaration

1981 - First domestic paper

1 million tons.

1982 - First in the industry to

afforested area.

1987 - Development of the first

production surpasses

exceed 10,000 hectares of

domestic thermal paper.

HomeDeco

1992 - Establishment of Hansol Chemical (now Hansol

> - Completion of Hansol Paper's Janghang Factory

- Completion of Hansol

- Completion of Hansol

Technics and Hansol PNS

Technics' Jincheon Factory - Expansion of afforestation project to New Zealand by Hansol HomeDeco

by Hansol HomeDeco



1970

1972 - First listing of Samsung Group on the Korea Exchange (KRX)

1979 - Establishment of the first-ever paper research institute in the industry

1991 - Separation and independence from Samsung Group Management System

- Establishment of Hansol

Chemical)

- Establishment of Hansol

Cultural Foundation

Paper's Daejeon Factory

HomeDeco's Iksan Factory - Establishment of Hansol

1996 - Completion of Hansol

1997 - Launch event for Chammaru

PaperTech

China

2013 - Opening of Museum SAN.

2014 - Hansol Chemical achieves production of QD (Quantum Dot) technology

company structure with the establishment of Hansol Holdinas

- Declaration of Hansol

- Hansol Technics makes a full-fledged entry into the mobile phone assembly business (EMS)

2016 - Acquisition of Tapex by Hansol Chemical

HomeDeco's subsidiary in

Frontiers 2021 - Acquisition of Eastern Logistics by Hansol Logistics

> - Acquisition of Coever Information Technology by Hansol PNS

- Acquisition of BS (BS) by Hansol PNS

- Acquisition of Stickers Corporation by Hansol Inticube

2022 - Acquisition of Seongwoo NB Tech by Hansol Paper

- Issuance of ESG Bonds by Hansol Paper

- Acquisition of IONES by Hansol Technics

- Acquisition of Moonlogis by

Hansol Logistics - Spin-off of VHOM by Hansol HomeDeco

1965 - Establishment of Saehan Paper Industry Co., Ltd. - Acquisition of Saehan

Paper Industry Co., Ltd. by

Samsung Group 1968 - Change of name to Jeonju Paper Co., Ltd.

08 2023 Hansol Group Sustainability Report

GROUP BUSINESS PORTFOLIO





Founded January 2015

Headquarters 100 Euljiro, Jung-gu, Seoul, Korea, Pine Avenue Building B Floor 23&24

 $\textbf{Key business} \quad \text{Business sector: production of printing paper, industrial paper, specialty paper, thermal} \\$

paper

Environment sector: EPC (engineering, procurement, construction) and O&M (Operations $\,$

and Maintenance

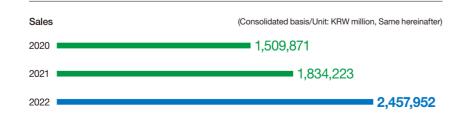
Credit score A (rated by NICE credit)

ESG rating B+ (Korea ESG Reporting Standards)

Hansol Paper was founded in 1965 and since founded they have been producing a wide range of paper products and is the largest paper company that has made major contributions to the development of Korea's culture and industry. They are the only paper mill company in Korea that produces a combination of paper products including but not limited to printing paper, industrial paper, specialty paper, and thermal paper at four different locations, Janghang, Daejeon, Cheonan, and Sintanjin. They have been building their brand value through stringent quality control, continuous research & development, and advanced customer service. Recently, the company has been heavily focusing on high-tech paper production that is eco-friendly and technology-intensive in hopes to collaboratively work and build strong connections with global companies such as in the United States and Europe. Additionally, the merger with Hansol EME has established a foundation for business diversification in the eco-friendly field of resource circulation.



10





unded February 2000

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

Key business corrugated cardboard and paper production

Credit score B1

Hansol PaperTech is a company that produces and sells all types of corrugated paper such as surface paper, double-sided paper, and corrugated cardboard not only within Korea but also exports internationally. Corrugated paper is used for product packaging especially within the transportation and has an excellent cushioning effect that protects the product by absorbing external damage. Evidently, it is most commonly used to make boxes for industrial products or agricultural products for courier, electronics, and general industrial packaging. Through well-maintained partnerships Hansol PaperTech was able to continuously provide such materials and earn profitable sales. Through a strong foundation, we will continue to pursue innovativeness in making high-quality, eco-friendly products with new technologies.





11



Founded February 1975

Headquarters 5th floor, Ilheng Building, 213 Toegye-ro, Jung-gu, Seoul

Key business paper distribution services, IT services

Credit score A3 ESG rating B

Hansol PNS is the largest paper distribution company in Korea and also separately runs an IT service business. In order to ensure future competitiveness within the industry, they are currently working on a project in efforts of digital transformation. As a first step, they launched an online mall and as the second step of the project, they are in preparation of building a mobile system to enter the data/platform industry. As such, the IT service sector designs information systems for companies, develops hardware and application software, and creates customized solution systems for customers. In particular, the Smart Factory business plays a crucial role for small and medium- sized businesses' digital transformation within Korea and also is significant for customers' ESG management.







Founded December 199

Headquarters 27th floor, Professional Construction Centre, 15 Boramae-ro 5-gil, Dongjak-gu, Seoul

Key business Forestry sector: manufacturing and distribution of panels (MDF), flooring, and interior Cogeneration sector: biomass renewable energy (power and steam production)

Afforestation sector: Investment in overseas afforestation business in collaboration with a

corporation in New Zealand

Credit score BE ESG rating B

Hansol HomeDeco is a company that specializes in furniture material MDF and eco-friendly interior material production. They have established a wood resource circulation system by getting involved in areas like international afforestation, lumber, furniture components, flooring, wall coverings, interior material distribution, renewable energy, and forestry resource recycling. Besides this, they have created a value chain within the forestry business by utilizing by-products of MDF and lumber delivering additional value. In 2022, we released a direct interior platform called 'VHOM' that functions both as a web browser and an app which is customer-friendly targeting a broader consumer base. Moreover, in order to create competitive advantage and grow the market for their online 'Total Interior', they have divided the business sector and newly established 'Hansol Everybody's Spring'.



12





Founded June 1994

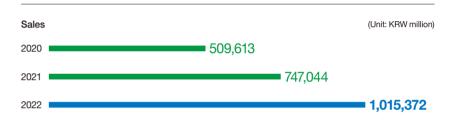
Headquarters 22nd floor, Pine Avenue Building B, 100 Euljiro, Jung-gu, Seoul

Key business International logistics, freight forwarding services, logistics consulting, W&D

Credit score A3

Hansol Logistics was founded in 1994 and is a comprehensive logistics company that is globally active providing all types of freight forwarding services such as ground, air, sea, and railway, and also consultation services thriving to be the best SCM Solution Provider delivering utmost customer satisfaction. They also embrace ESG management within their business by creating a safe workplace, practicing ethical management, and enhancing stakeholders' value. Overall, Hansol Logistics is successfully operating in seven different countries and 20 individual overseas networks by providing such logistics services.







Founded August 1966

Headquarters 5th floor, Pine Avenue Building B, 100 Euljiro, Jung-gu, Seoul

Key business electrical and electronic power modules, wireless chargers, photovoltaic modules, LED

material processing, mobile phone EMS

Credit score BBB ESG rating B+

Hansol Technics operates a PMD (Power Module Device) business manufacturing digital power, mobile phones, wireless charging modules, and automotive electronics and also an ES (energy solution) business that produces solar modules and LED wafers, all under the management philosophy of talent and technology oriented and futuristic approaches. Through this they are able to deliver high quality, advanced product development capabilities, and cost efficiency. Furthermore, they are growing into one of the leading companies within the electronic energy solutions industry through successful commercialization through continuous innovative business development. Additionally, recognizing that we are a key player in the export industry within Korea, we strive to embed ESG management and promote SMEs.







Founded March 1993 (formerly Dong-A Engineering)

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

Key business semiconductor front-end processing, precision processing, cleaning, and coating of

display manufacturing equipment parts

Credit score BBB (rated by Ecredible)

Hansol IONES is a future-oriented, innovative company that provides ultra-precision specialized components for semiconductors and displays from designing to processing, measuring, cleaning, coating, and analyzing, essentially being a one-stop service provider that prospers growth with our customers through high quality and advanced technology. We have proven our differentiated competitiveness and advantage in the market by supplying precision parts and also cleaning and coating services for semiconductor consumables to the global top-tier semiconductor companies. Moving forward Hansol IONES aims to grow into a global company that specializes in parts used within the industrial field and contribute to industrial development as a whole with the foundation of new material development, nano coating, and surface treatment technology, welcoming change and challenge for growth.







Founded

Headquarters 14th floor, Nuri Dreamsquare Business Tower, 396 WorldCup Buk-ro, Mao-gu, Seoul Key business digital contact center, Al communications, cloud communications, mobile solutions

Credit score BB+ (rated by Ecredible on April 20, 2022)

Hansol Inticube is a leading communication solutions provider business utilizing Al contact centers. Based on abundant experience in building various digital contact centers, we confidently provide customers with integrated solutions from consulting to maintenance of optimized contact center infrastructures. Hansol Inticube launched an Al communication tool called 'ISAC-Al' that uses the core IT technologies in the next upcoming industrial revolution which are AI, cloud, and big data. in efforts to help small and medium-sized companies introduce an AI consultation service. We will continue to be a company that actively contributes to digital growth, transformation and expansion within the industry.



14



Founded March 1980

Headquarters 7&8th floor, K-Tower, 513 Teheran-ro, Gangnam-gu, Seoul

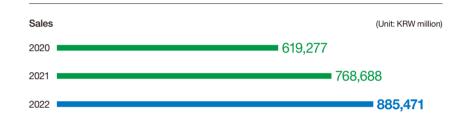
Key Business fine chemicals, display materials, semiconductor materials, secondary battery materials

Credit score A+ (rated by Moody's Investor Service KR)

ESG rating

Hansol Chemical was founded in 1980 and has been a leader in the market by producing excellent chemical products through continuous innovation. With large-scale production facilities in Jeonju, Ulsan, and Xi'an, China, the company has secured a wide range of business areas from fine chemicals to electronic materials. Hansol Chemical will demonstrate sustainable growth by gaining advantage in the market for semiconductor materials, advanced displays, and secondary batteries. Evidently, integrating ESG strategies to maximize our global capabilities in discovering new business opportunities.





Tapex

Headquarters 8th floor, 17 university 4-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do

Key Business industrial tape production for electronics, food packaging wraps, and consumer goods

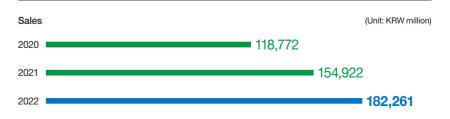
Credit score A- (Moody's Investor Services KR)

ESG rating

Tapex was founded in 1994 and is a company specializing in industrial tapes, production of tapes for electronic materials used as core materials in secondary batteries, displays, and semiconductor processes, wraps for food packaging, etc., that is eco-friendly. Recognizing the urgency of the current global climate change issues and its corresponding environmental policy changes, we have diversified our business by entering the eco-friendly and renewable energy industries. As a result, we have established ourselves as a global leader in the field of functional tapes for eco-friendly electric vehicles and set a foundation for sustainable management as a material company that contributes to the preservation of the environment while also promoting business growth.







Hansol's new established values create a better future. Hansol took the initiative to produce and certify eco-friendly products. We strive to secure competitive advantage through managing climate risks and therefore, creating business opportunities.

Sustainability Essentials -

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

SUSTAINABILITY KEY FIGURES 2022

By embedding ESG principles, Hansol Group will continue to demonstrate sustainable growth, gain customers' trust, and enhance corporate value. In consequence, Hansol Group's commitment can be proven through our key ESG performance data and statistics below.

International environmental management system ISO 14001 certified in

International Safety and Health Management System ISO 45001 certified in Number of consulting companies in support of Hansol HomeDeco's safety and health management system Hansol Technics' total donation of solar power modules in KRW for social welfare facilities

19 locations

12 locations

7 locations

International Quality

Management System

ISO 9001 certified in

companies

80%

(as of 2022)

Corporate value of 15 start-ups in Hansol V Frontiers (as of December 2022)

Hansol Paper signed a business agreement for ecofriendly packaging material development with Number of employees attending the Hansol Technics Win-Win cooperation Day Hansol Paper Partners shared growth Win-Win Fund

Hansol HomeDeco MDF

recycled raw material utilization

Percentage increase of investment for Tapex's safety

million KRW

99,550,000,000KRW

pprox. \$78 million USD

18

10 companies

100 people

6 billion KRW

52%

and health facilities

Hansol Paper's annual carbon dioxide uptake

Share of eco-friendly products in Hansol Paper's total sales (as of 2022)

Number of employee requests/
complaints in each corporate
level within Tapex

Num
Hai

Number of consecutive years
Hansol Paper earned EcoVadis
Gold status
(top 5% in ESG performance)

approx. \$4.7 million USD

Hansol Group corporate governance report disclosure affiliates

32,264.8tCO2eq

66%

reports

3 years

/ companies

19

SUSTAINABILITY MANAGEMENT SYSTEM

Hansol Group has established the Hansol Management System (HMS) under the vision of attaining differentiated competitive advantages and promoting sustainable growth and utilizes it as a core value that all employees share and practice. With that said, we have established environmental management, human rights management, ethical management, and safety and health management systems to actively practice sustainable management. In 2022, we revised the HMS and focused on bettering our ethical management.

Hansol Management System (HMS)

In June 2022, Hansol Management System included an additional organizational principle, respect, to the existing three which are commitment, transparency, and speed, officially integrating four principles. By doing so, we aim to embed where mutual respect can be accomplished throughout all members of the organization both psychologically and physically.

20

Organizational principles

Commitment: Focus and uniformity for exceptional performance

Delivering exceptional performance not only requires execution but also requires commitment. We will work on creating an environment where it embodies individual and organizational growth actively challenging the status quo with positivity.

Transparency: open and honest sharing of processes and outcomes

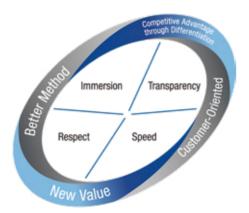
A transparent corporate culture is fundamental to Hansol. We strengthen a transparent culture for our customers, shareholders, employees, and communities by practicing ethical business conduct, accountability, and open communication.

Speed: being practical and getting straight to the point

Speed is simplicity meaning focusing your efforts on the essence and core in a way that emphasizes substance over form. When it comes to communicating with customers, it's about quickly identifying their wants and needs and having them met with the appropriate services.

Respect: valuing each other

Those who have been successful with a respectful culture within their organizations first respect themselves, then it is possible to value others and respect the individuality and diversity of others. At Hansol, we provide fair opportunities for our employees to fulfill their capabilities and potential.



Environmental Management (EMS)

Hansol has established an ESG indicator management system that enables all affiliated companies to manage ESG data systematically and efficiently, with the focus on Hansol Holdings, the holding company of the affiliates. In particular, EMS was organized by the Environmental Management Promotion Committee, which consists of practitioners in major departments and the communication team and is practiced by all affiliates allowing information sharing amongst employees much feasible. Through this ESG indicator management system, we continuously manage data on environmental management system certifications, climate change response, greenhouse gas emissions, energy and water usage, and pollutant and waste management to check target levels and improve environmental management activities.

Environmental Management

In January 2023, Hansol Group established an ESG indicator management system that is applicable to all affiliates. Hansol ESG indicator management system contains about 300 indicators that can be used to proactively respond to domestic and international ESG disclosures. It also provides detailed guidelines for those who may require a more in-depth understanding for accuracy purposes. Hansol has integrated the newly established ESG indicator management system to further strengthen company-wide ESG management and sustainable business.

Hansol Holdings Environmental Policy

Efficient use of resources and environmental stewardship

We are committed to preventing environmental pollution and protecting the environment through efficient use of resources and energy and minimizing waste.

Operationalize and continuously improve your EMS

All employees of the company shall recognize this environmental policy, target, and implement achievable goals for continuous improvement for environmental performance and to enhance the environmental management system by reflecting nonconformities and improvements that occur.

Communicate with stakeholders and meet compliance obligations

Periodically review the direction of our environmental goals and objectives through continuous communication with our stakeholders and disclose our environmental compliance obligations and management standards to reflect the needs of our stakeholders.

Transparent environmental management practices

Disclose environmental policies and environmental management information to stakeholders to encourage active participation and practice transparent environmental management

International environmental management systems

- Status of ISO 14001 certification holdings

19_{affiliates}

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

Human Rights Management

In accordance with Article 25 (2) of the National Human Rights Commission Act, Hansol Group has published the Human Rights Management guidelines that emphasize on the protection and promotion of human rights of all stakeholders, including employees. We respect the dignity and value of human beings as recognized in the Universal Declaration of Human Rights, the Declaration on the Rights of Workers, and the international human rights standards and norms, comply with a non-discriminatory working environment, prohibition of forced and child labor, quarantee of occupational safety, and protection of environmental rights.

22

Hansol Holdings Human Right Management Operating Guidelines

As companies will have a bigger influence on society and the environment, the responsibility of companies to respect human rights has become mandatory. Hansol Group prevents and protects against labor rights violations in accordance with Principle 1 of the UNGC, which states that "Businesses should support and respect the protection of internationally proclaimed human rights".

In May 2022, Hansol Holdings prepared and disseminated the Human Rights Management Operational Guidelines to the entire company. The guidelines include standards for human rights violations, remedial procedures, and prevention programs when employees or stakeholders experience violation or discrimination related in regard to any Hansol Holdings' business activities or executives, and representative cases and reports of human rights violations, so that they can be applied routinely.

Human Rights Management System

Human rights management statement

Hansol declares human rights management to ensure the dignity and value of human beings in all business activities and all employees practice the declaration as a standard for behavior and value judgment in human rights management.

Human rights representative

- Hansol has a human rights management representative to systematically implement regulatory procedures, education, etc. to promote human rights
- 2. The duties and functions of the human rights management representative are as follows:
 - Developing and implementing a plan to promote human rights
 - Implementation of human rights training
 - Remedies/solution to requite for human right violations
 - Other matters determined to require human rights management review

Human rights education

Conduct human rights-related training to raise the human rights awareness of all employees at least once a year and choose the method training period.

Support human rights activities

Hansol may take necessary measures to spread the protection and promoting of human rights and values, and may provide support to human rights-related institutions or organizations and stakeholders.

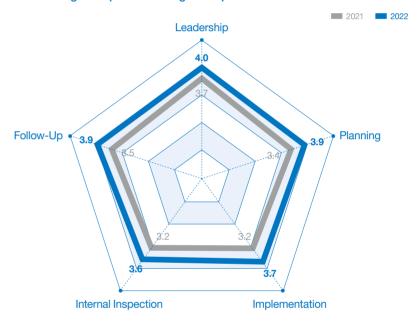
Compliance

Society is increasingly demanding that companies comply with the law and be accountable for their actions. The most basic requirement for companies in ESG management is compliance management. In order to further systematize compliance management to respond to growing pressure from society, Hansol analyzed and identified strategic tasks to tackle vulnerabilities of each affiliate for improvement purposes.

Compliance Diagnostics

Hansol Group has been conducting compliance management diagnosis since 2021. In 2022, we diagnosed the compliance management status of six affiliates - Hansol Paper, Hansol Technics, Hansol HomeDeco, Hansol Logistics, Hansol PNS, and Hansol Inticube - regarding five aspects: leadership, planning, execution support, internal inspection, and follow-up. As a result, the overall compliance management operation level of the six companies averaged to 3.8 points (out of 5), an increase of 0.4 points compared to the previous year. Through the compliance management diagnosis, we were able to spread the importance of compliance management and the will to implement it throughout Hansol Group. With the goal of establishing a compliance risk management system and strengthening on-the-job execution, each of the six companies will derive improvement tasks based on the diagnosis results to further strengthen the group's compliance management process.

Hansol's average compliance management performance

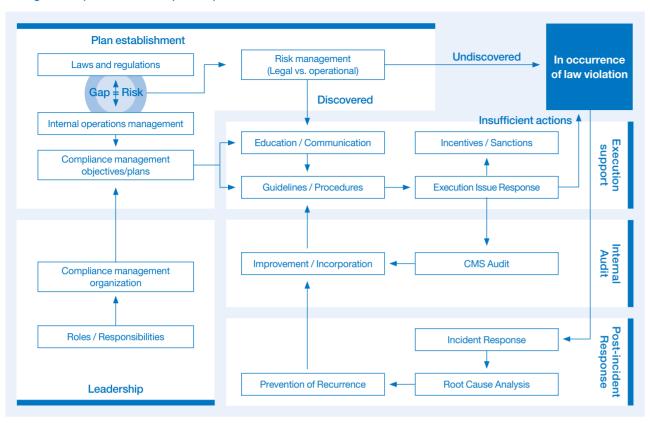


Strengthen compliance processes

The six affiliates, Hansol Paper, Hansol Technics, Hansol HomeDeco, Hansol Logistics, Hansol PNS, and Hansol Inticube, selected compliance management tasks by considering urgent areas of legal and regulatory issues that require strengthening of all aspects of the compliance management process and risk reduction for each company.

Strengthen corporate-wide compliance processes

24





Safety and Health Management

"There should be no work where injuries are a given" is a phrase that represents Hansol Group's safety and health management awareness. Hansol introduced the Hansol Safety Rating System (HFRS) to address intensifying legal and regulatory risks and to complete its safety culture as a trusted company. HSRS is Hansol's own safety and health work standards and evaluation system that optimizes the international quantitative evaluation systems ISRS system to reflect the company's business characteristics.

Introduction of the Hansol Safety Rating System (HSRS) safety and health management evaluation system

In order to be prepared and have an appropriate safety response and solution system, Hansol Group initially introduced the ISRS assessment in 2019, an international safety management assessment, to examine the current state of safety management and verified its effectiveness in 2020 and completed the second round of performance measure in 2021. Through this, we advanced the business system necessary for fundamental responses to safety management and fostered safety management personnel. In 2022, we introduced HSRS, an evaluation system that considers the characteristics of Hansol's business.

HSRS Evaluation Metrics

Category	Level	Level description	Comparison with ISRS
L5	Progressive (80 or above)	Stage where field members voluntarily recognize the strengths and weaknesses of the organization and continuously strive for improvement	L7
L4	Preventive (60-80 points)	Stage where necessary systems for controlling key processes are established and members participate through motivation from leaders	L 5~6
L3	Directive (50-60 points)	Stage where systems for controlling significant risks are implemented, and members participate passively under the guidance of leaders	L 4~5
L2	Reactive (40-50 points)	Stage where key processes for loss prevention are not identified, and changes are sought only when incidents occur	L 2~3
L1	Indifferent (Less than 40 points)	Stage where the importance of systems is not recognized, and no investment is made in improving member safety activities	L 1~2

HSRS process metrics



HSRS assessment and application sites

Hansol Paper's four plants and the environmental business division,
Hansol HomeDeco, Hansol PaperTech Hansol Logistics, and Hansol Technics

HANSOL FOCUS ISSUES

ISSUE

Developing Green **Products and Technology**

The world is integrating the importance of carbon neutrality through carbon taxes, credits, and activating the carbon trading markets. In Korea, various actors including the government, businesses, and society, are taking action to achieve carbon neutrality by 2050. On the corporate side, we need to focus on product and technology innovation that can turn climate change risks into opportunities.

OUR APPROACH

BACKGROUND

Hansol is striving to develop products and technologies that minimize environmental impact in all sectors of Hansol's business, such as making eco-friendly materials and resource recycling technologies. In addition to strengthening eco-friendly values, we also encourage all stakeholders of Hansol to practice carbon neutrality to generate sustainable growth.

MANAGEMENT BRIEFING

Sang Won Oh, Head Manager of the Eco-Packaging Team at Hansol Paper

As companies are standardizing ESG integration within their business model, the need for eco-friendly packaging is expected to rise even more than the current demand. In particular, consumers are becoming increasingly invested in eco-friendliness and are taking the lead in 'responsible consumption' to practice environmental values and therefore, the future of eco-friendly packaging is bright. We plan to continue to expand our product line with sustainable products that can replace plastic to meet the seeking demand of eco-friendliness from customers. In the case of eco-friendly paper containers, we are developing a product line that is multi-functional to replace plastic containers currently in use within the food and beverage sector. We also intend to diversify our product line with 'Protego' which is an eco-friendly packaging product that can replace

OUR PERFORMANCE

Developing Green Products

Hansol Paper

In accordance with the rising demand of eco-friendly products, we have locked down the manufacturing technology and process for nanocellulose (product name: Duracle), which is a new eco-friendly material that has been gaining attention and is currently exploring ways to expand its application and use cases. Recognizing the importance of de-plasticization in the packaging market and broadening application uses for eco-friendly materials, we have produced and supplied eco-friendly paper containers with our water-based barrier coating technology (product name: Terravas) and eco-friendly paper packaging materials (product name: Protego) to various customers. In specific, Protego, an eco-friendly flexible paper packaging material, is a high-tech product that has won three domestic and international awards such as the 'Asia Star Packaging Award 2020' the 'Minister of Trade, Industry and Energy Award for Packaging Daejeon, Korea', and the 'World Star Packaging Award 2021' selected by the World Packaging Organization (WPO).

Hansol HomeDeco

We are striving to offer products that consumers can trust more by obtaining authoritative eco-friendly product certifications. Accordingly, we are reviewing the possibility of developing lowcarbon emission products and preparing to establish our own standards for eco-friendly products. In December 2022, SB Flooring Ultra Steel, one of our flagship products, received the Low Carbon Product Environmental Performance Label Certificate, which is given by the head of the Korea Institute of Environmental Industry and Technology. Based on this, we plan to track data on how to manage low-carbon products, sales, and measuring the greenhouse gas emissions reduction from our products.

Hansol Technics

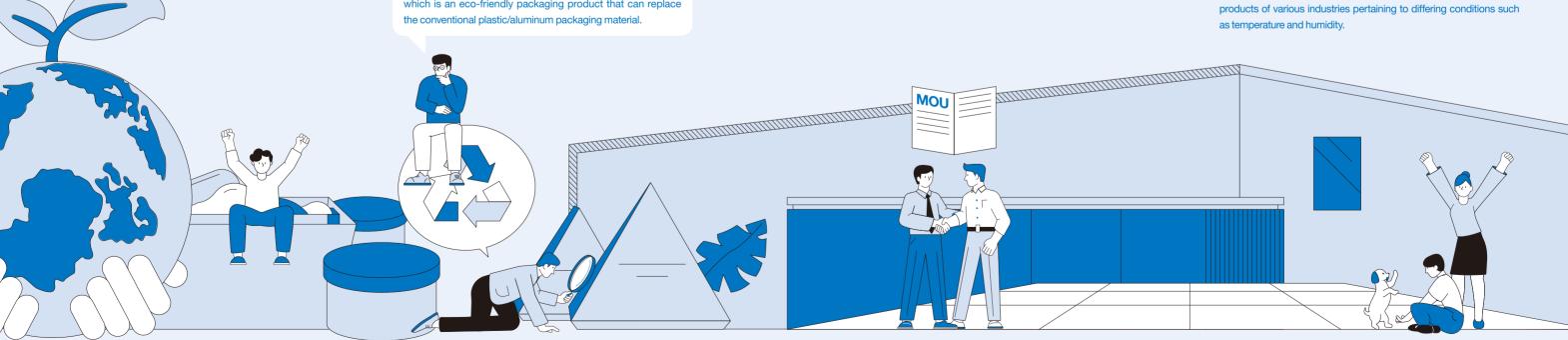
Hansol Technics develops and provides highly reliable and functional solar modules that comply with the KS certification and carbon verification system. Hansol Technics has a wide range of solar products, including media PV, high-power solar modules, and floating solar modules that have obtained KS certification for the first time in Korea. The Media PV product is a combination of solar modules and light-emitting diode (LED) media that can generate solar power with an output of up to 470 watts during the day and can also function as a LED media at night. Since multiple modules are connected to form a single screen, it is easy to install on buildings, structures, etc. where miniaturized models are required due to space constraints. By using the product, we can take a step closer to RE100 by making renewable

MOU for Sustainable Packaging Development

Hansol Paper

Since 2020, Hansol Paper has signed MOUs with 10 leading Korean companies in various fields such as cosmetics, food, pharmaceuticals. confectionery, coffee franchises, and health supplementary foods to strengthen ESG management and develop sustainable packaging. Most of the companies that signed MOUs with Hansol Paper are eager to introduce eco-friendly packaging to enhance their corporate value and sustainable management in the long term, and already have high level research capabilities and experience. This combined with Hansol Paper's ability to develop the best eco-friendly paper materials in Korea, made it possible to introduce eco-friendly packaging which is difficult to achieve. Additionally, through these relationships and sharing of technologies, we were able to gain a broader understanding of eco-friendly packaging materials and accumulate knowledge on packaging technologies that can be applied to various as temperature and humidity.

27



2023 Hansol Group Sustainability Report Sustainability Essentials 26 Introduction Hansol Sustainability Action **Appendix**

2

Safety and Health Management

BACKGROUND

The enforcement of the Act on the Punishment of Major Accidents on January 27, 2022, requires careful preparation for the fulfillment of the obligations of those in charge of management to ensure safety and health. As a result, industrial sites are required to make multifaceted efforts to ensure the safety and health of workers, such as appropriating management budgets and preparing manuals and inspections in case of major industrial accidents.

OUR APPROACH

In 2019, Hansol Group introduced the ISRS assessment, an international safety management assessment, for the first time and established the HSRS (Hansol Safety Rating System) safety and health management assessment optimized for Hansol's business characteristics by reflecting the results of effectiveness verification and performance measurement. Through this, Hansol aims to build a more promising safety culture.

MANAGEMENT BRIEFING

Yeon Jae Jin, Head Team Manager of Safety Support and Lee Chung Hwa from the Health Management Team of Hansol Technics

One of the key roles of Hansol Technics' safety and health management activities is the participation of supervisors and workers. Firstly, workers are continuously identifying sub-accidents and potential risks and implementing the 5S activities to eliminate risk factors. Secondly, we are participating in the creation and selection of health and management. Thirdly, we are utilizing QR codes so that everybody entering and leaving the workplace can easily communicate with each other if they have any safety and health risks or suggestions.

In addition, those employees who participate in these activities are personally recognized by the CEO at the monthly EHS meeting which encourages participation.

Hansol Technics also benchmarks the EHS best practices of other companies, including our customer Samsung Electronics. Notably, we've benchmarked the inspection of Samsung Electronics' 22 themes and selected 15 themes that correspond to our own and periodically conduct intensive inspections, reflecting them in our own work by referring to major trends in EHS, and also share use cases. Furthermore, we disclose information on major accidents with the Ministry of Labor to raise safety awareness among our employees.



SPEED LIMIT 20



OUR PERFORMANCE

Establishing HSRS (Hansol Safety Rating System) safety and health management evaluation system

Hansol Holdings

In order to improve efficiency of the Group's safety and health assessment and to establish a field-centered safety and health management system, Hansol Group introduced the HSRS in 2022, a unique assessment system that actively reflects the characteristics of Hansol's business, starting with the initial assessment of ISRS in 2019, followed by the effectiveness verification in 2020 and the secondary performance measurement in 2021. In particular, the HSRS was developed to include verification of execution capabilities in the field and enhanced compliance on domestic laws and regulations. In 2022, we completed the effectiveness verification of HSRS through trained assessors specializing in safety and health. Based on this, we established an advanced IT integrated safety system to streamline field work. The HSRS is currently being applied to nine business sites, including Hansol HomeDeco, Hansol PaperTech, Hansol Logistics, and Hansol Technics, in addition to Hansol Paper's four facilities and their Environmental Business sector. The ultimate goal of HSRS is for work sites to achieve and maintain Level 5, creating a stronger safety and health implementation system for the entire group.

PSM (Process Safety Management) Achieved S-grade for Process Safety Management System

Tapex

The PSM is a system designed to prevent major industrial accidents for workers and incidents regarding leakage of hazardous substances from dangerous facilities, fires, and explosions. The PSM targets seven industries that have hazardous and dangerous facilities designated by the President, as well as facilities that manufacture, handle, or store one or more of the 51 hazardous and dangerous substances more than the prescribed amount, and related process facilities. In August 2022, Tapex obtained an S (good) rating in the first new assessment of its audited workplaces. This was the result of strengthening its workplace safety management system in various ways in conjunction with the implementation of the Serious Accident Punishment Act. Acquiring the S rating enhanced the credibility and image of workplace safety management and was recognized for strengthening safety and health levels and establishing a periodic education and training system. Furthermore, in 2022, we expanded participation in the safety campaign to partners (in-house contractors) instead of only employees and invested 814 million KRW in safety and health-related facilities, which is a 52% increase from 535 million KRW in the previous years.

3 Safety and Health Management System and SMT Management activities

Hansol Paper

Hansol Paper has the international safety and health management system certification ISO 45001 and KOSHA MS at the Daejeon and Jang airfields. In addition, we implement SMT (Safety Management Tour) and COC (Care Observe Change) activities at all business sites and suppliers to prevent industrial accidents and implement SMT (Safety Management Tour) safety activities led by the CEO and CSO. Through SMT, we promote the motivation and participation of employees, identify issues and action plans derived from dialogues and discussions, establish implementation strategies, and monitor them to ensure the effectiveness of plan implementation, such as evaluating the progress of action items, assessing the impact of unresolved issues, and identifying the appropriateness of action items.





Customer **Satisfaction** and Product Liability

BACKGROUND

Customer-centric management means recognizing customers' needs and providing solutions to their problems customers didn't even know they had themselves. Furthermore, companies aim to create new opportunities by reflecting this from a business perspective. Therefore, it is necessary to gain competitive advantage in overseas markets through systematic data analysis and insight discovery.

OUR APPROACH

Hansol Group seeks to identify customers' VOC and needs and create strategies to secure differentiability and competitive advantages. In order to realize maximum value and continuously grow together with our customers, we apply various diagnostic/measurement analysis systems to systematize all stages of strategy execution, process management and performance creation.

MANAGEMENT BRIEFING

Gil Jae Kang, Marketing Team Leader from Hansol Paper

Since 1997, Hansol Paper has regularized customer satisfaction (CSI) surveys twice a year, once each in the first half and the second half of the year, to identify comprehensive customer satisfaction levels in areas such as sales, quality, C/S, delivery, price, and brand image, to know what to improve by constantly checking customer needs and pain points. Since 2004, the survey has been conducted once a year, including the export sector, and in 2010, the survey was conducted in accordance with the Net Promoter Score (NPS). Since 2020. we have been conducting surveys in line with the needs of the times by boxing the domestic sector survey to online and enhancing customer convenience with immediacy. By doing so, we are aware of the causes of customer dissatisfaction, the dos and don'ts, and discover improvement measures to gain product and service competitiveness in each sector. In 2022, the CSI increased by 4 points in comparison to last year and we strive to continuously analyze, and review customers' wants and needs to enhance customer satisfaction.

OUR PERFORMANCE

Hansol Group hosts the Innovation Olympics

Hansol Holdings

Hansol Holdings holds an annual Innovation Olympics for all affiliates with the purpose to review and recognize the outcomes of various projects that were executed by each affiliate over the past year. This encourages the corporation to share lessons learned, achievements, and areas for improvements. Under the premise that the driving force for Hansol's continuous growth is the 'Hansol employees' ceaseless spirit of challenge for innovation, the Innovation Olympics was first held for only major affiliates since 2013 and to further strengthen competitiveness within the company, all affiliates participated from 2014. In 2022, it was held on December 16. At Hansol, innovation is something that is mandated and is derived from the portfolio strategy, mid-term strategy, etc. and further aim to embed this matter of attitude throughout the company. Hansol's innovation promotion system recognizes that carrying out innovativeness is a difficult task and encourages task leaders to guide through with their problem-solving skills.

Diversified customer base by entering the European market, reached \$500 billion KRW in alobal revenue.

Hansol Logistics

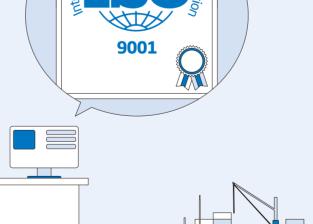
Hansol Logistics' global business was mainly focused in Asian markets with a specific customer target within the secondary battery industry, however, in order to achieve sustainable growth and competitiveness, we also entered the European markets. As a result, we were able to successfully sign a large-scale long-term contract with company S. a major company in Europe and secured new orders for equipment transportation from company H which is a local secondary battery equipment manufacturer. In recognition of this result, we won the gold medal at the Innovation Olympics. In addition, we established major secondary battery manufacturers and medium/large vendors in the Asian market, mainly in China, while also securing our position as a global secondary battery logistics company. Based on our differentiated capabilities with secondary battery logistics, we are building the foundation of a global supply chain service leader for electric vehicle production by focusing out company-wide capabilities, such as setting up new bases in Poland and the eastern United States, to pioneer the logistics market for electric vehicle parts including secondary batteries.

Hansol Group-KAIST established a joint research center for small businesses.

Hansol holdings

To enhance customer value, Hansol Group signed a business agreement with KAIST to develop new technologies in the field of small parts like materials, components, and equipment production. The KAIST-Hansol Material Parts Innovation Research Center will be established and conduct cooperative research on material parts worth 500 million KRW per year and the agreement period is until August 31, 2025. At the center, researchers from major affiliates of Hansol Group, including Hansol Paper, Hansol Technics, and Hansol IONES, and researchers from KAIST in related fields will collaborate to conduct research in relation to small-scale manufacturing and Al. Hansol having solid knowledge in the manufacturing field since 1965 and KAIST being a well-recognized research institution of materials, electronics, and machinery, will create synergies and produce good results as a outcome of their collaborative work.







2023 Hansol Group Sustainability Report Sustainability Essentials 30 Introduction **Hansol Sustainability Action Appendix** 31

32

Supply Chain Management

BACKGROUND

When large companies and SMEs pursue short-term profit maximization, it weakens the ability of SMEs to survive and causes disruption within the business. Moreover, when the 'EU Corporate Sustainability Due Diligence Act', that was released by the European Union (EU) is implemented in 2024, many export companies in Korea will be subjected to it. Subsequently, supply chain management has become crucial for companies to secure sustainable global competitiveness.

OUR APPROACH

Hansol Group establishes and systematically manages a shared growth promotion system to coexist with suppliers. Consequently, we are conducting fair and transparent assessments to manage supplier risks, and involve educating and practicing ESG in numerous ways such as providing safety and health consultations and conducting supplier meetings.

MANAGEMENT BRIEFING

Young Soo Park, from the Hansol HomeDeco **Environmental Safety team**

Hansol HomeDeco incorporates safety and health management at business sites of its suppliers as a top priority. To continuously improve our safety and health management system with our suppliers, we have created an organic cooperation system that promotes awareness among representatives of our suppliers and made efforts to motivate and improve the environment for the employees of our suppliers. For instance,

OUR PERFORMANCE

Supplier shared growth support program.

Hansol Paper

In addition to cost and quality competitiveness with suppliers. Hansol Paper seeks to realize shared growth by strengthening ESG management capabilities and enhancing competitiveness throughout our supply chain. As a win-win outcome, we are engaged in carious cooperation and support activities to snake sustainable growth with our suppliers. We provide leadership to help our suppliers grow in various aspects such as cooperation in technology and education support, operation of a 6 billion KRW fund, support for Six Sigma and Hansol cyber education, safety management support, environmental support, and enhanced communication through representative/practitioner meetings.

Consulting on establishing a safety and health management system for suppliers.

Hansol HomeDeco

In April 2023, Hansol HomeDeco began consultation on the safety and health management system for its suppliers, centered on risk assessment. The consulting, which is currently getting reviewed by the Korea Occupational Safety and Health Agency, is expected to help a total of seven Hansol HomeDeco suppliers resolve the risk of safety accidents. The consultation will be conducted over a four-month period in 2023 with a total of five visits to business facilities and will cover the seven core elements of establishing a safety and health management system: risk identification, risk assessment including elimination, substitution, and control of risk

A Hosted a Supplier Win-Win Cooperation Day

Hansol Technics

Hansol Technics stipulates and complies with the principles for fair trade to coexist with suppliers and provide welfare for employees through management support programs such as education, management and quality consulting, technology protection support, performance sharing system, and recreation facilities for long-term employees. We also hold 'Win-Win Cooperation Day' events to introduce 15 shared growth programs and promote fair and transparent trade practices by disseminating the attest management trends, providing training (Producer Responsibility Recycling System, SME Technology Protection Support System), disclosing future purchasing strategies for each business sectors, and holding purchasing consultations. In November 2022, 100 employees of suppliers participated in the event and 10 suppliers participated in individual purchase counseling sessions.



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

5

34

Ethics and Compliance

BACKGROUND

The world is increasingly demanding that companies adhere to the law and be socially responsible within their operations. A company failing to do so can be called out deteriorating the company's reputation and can often result in a business crisis having a serious impact on the company's future operations.

OUR APPROACH

Hansol Group's number one management principle is compliance with the law and ethics. Hansol Group discloses its management principles to external stakeholders, including suppliers, customers, and investors. To strengthen our ethics and compliance management, Hansol has systematized efforts to diagnose the current status of compliance management across the company, identify issues, and improve them since 2021.

MANAGEMENT BRIEFING

Jeong Woon Kim, Compliance Team Leader of Hansol Holdings

Hansol Holdings has implemented a Compliance Risk Management System to proactively inspect the entire company and all employees to ensure that they do not violate laws and regulations in the course of their work and monitor results of the inspection and report them regularly to the board of directors (BOD) and other executives. Since 2021, we have conducted a compliance management diagnosis once a year to determine the level of compliance of each affiliate and derive individual tasks to further strengthen the act of compliance. The current status of Hansol Paper, Hansol Technics, Hansol PNS, Hansol Inticube, Hansol Logistics, and Hansol HomeDeco was analyzed to identify weaknesses and implement strategies for improvement. Hansol Group aims to reduce the risk of legal and regulatory violations and eradicate various irregularities through the application of supplementary and improvement measures for each company. We will also continue to grow and develop by creating a healthy organizational structure.



OUR PERFORMANCE

Group compliance audits

Hansol Holdings

The elements required for compliance management are leadership, planning, execution, support, internal monitorization, and supplementation/improvement. To determine the level of each element at each affiliate, we conducted interviews from executives to those in charge, analyzed relevant data, and affiliate specific tasks to strengthen the compliance management system based on the results of the 2021 diagnosis. After a year of implementation, we compared 2021 and 2022 and found that the planning and execution/support areas were the most well performed. In the future. Hansol Holdings will continue to practice ESG management by designing and continuously managing practical tasks and inducing active compliance management communication between each company's headquarters and business facilities to expand compliance management awareness and consensus throughout all of Hansol Holdings.

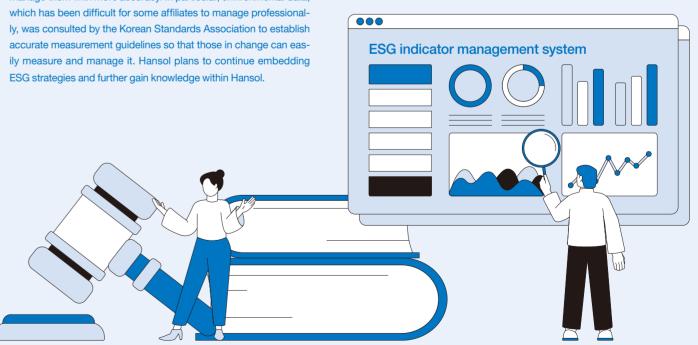
2 Establish an ESG indicator management system

Hansol Holdings

Hansol Holdings established the 'ESG Indicator Management System' to help affiliates, including the holding company, manage non-financial performance systematically and efficiently with common standards, and officially opened in January 2023. The ESG Indicator Management System contains about 300 indicators that can be used to proactively respond to domestic and international ESG disclosures and provides detailed guidance for ESG practitioners to manage them with more accuracy. In particular, environmental data, which has been difficult for some affiliates to manage professionally, was consulted by the Korean Standards Association to establish accurate measurement guidelines so that those in change can easily measure and manage it. Hansol plans to continue embedding ESG strategies and further gain knowledge within Hansol.

Review your group risk management framework

In 2022, Hansol Group conducted a risk transfer survey for all affiliates to comprehensively review the status of financial and non-financial risk management. Financial risk examines business areas such as markets, customers, equity investments, and project inquiries, while financial areas such as exchange rates, interest rates, liquidity, taxes, and credit ratings are also reviewed. Under non-financial risks, we examine compliance areas such as environment, safety, operational areas such as information security, human resources, and supply chains, and external communication areas such as crisis response, brand value, and investor relations. Going forward, Hansol Group will continue to conduct regular inspections every January to address and resolve risks of all affiliates, prevent risks from occurring in advance, and practice sustainable management.



Hansol adapts fast to the ever-changing environment and stepped foot in the energy and semiconductor industry which are crucial for mankind. Additionally, we incorporate our customers' wants and needs to further enhance competitiveness and prosper growth. Hansol's innovativeness creates a better tomorrow.



Hansol Sustainability Action -

- 38 Consumer | Management for Customer Satisfaction
- 48 Environment | Eco-friendly Product Development and Climate Change Strategy
- 60 Social | Achieving Sustainable Growth Together
 - Governance | Transparent Governance and Shareholder-friendly Management

CONSUMER

Management for Customer Satisfaction

Hansol Group strives to lead the market by continuously developing innovative products based on differentiated technologies and stable production capabilities. In particular, we are making efforts to enhance core competencies and seize future business opportunities through business area restructuring and mergers and acquisitions in response to changes in the business environment.

For the Sustainability

38

Hansol Group recognizes sustainable management as the essence and core element of corporate governance and strives to integrate it into its products and services. In order to achieve this, we focus on improving product quality and devote ourselves to exploring future growth drivers. Firstly, we actively concentrate on our core technologies for the secondary battery and semiconductor industries while realizing ESG values through mergers and acquisitions. The flagship product of Tapex, functional tapes for secondary batteries, has been experiencing steady growth in sales and global customers, in line with the expansion of environmentally friendly electric vehicles. As a result, we have expanded the quality management system certification in the automotive sector to include all manufacturing facilities producing tapes for secondary batteries. Hansol Technics expanded its business area by acquiring Hansol IONES, a specialized company in the manufacturing of semiconductor equipment parts and cleaning/coating.

Hansol Holdings strives to enhance the group's distinctive competitiveness under the proposition of 'Hansol employees' ceaseless spirit of challenge for innovation' by annually hosting the Innovation Olympics for all affiliates. Furthermore, the program "Hansol V Frontiers", organized by Hansol Holdings to foster promising startups, has been successful in increasing the average enterprise value by six times for a total of 15 companies from the 1st to the 3rd cohort. Additionally, Hansol Paper, Hansol Technics, Hansol HomeDeco, and other companies have made efforts to strengthen the marketing of competitive products by actively participating in diverse energy and eco-friendly expos, aiming to bring themselves closer to consumers.

Key Sustainability Issues

New Business and

Market Expansion

Hi e>

Hansol Logistics' global market expansion with secondary battery sector generates

Key Performance

trillion KRW

- Hansol Group enters the semiconductor industry for the first time through the acquisition of Hansol IONES System.
- Hansol Homedeco develops business strategies for its operations in Vietnam.
 Hansol Holdings fosters startups through the 'Hansol
- V Frontiers' program.
 Hansol PNS opens the online mall 'Grooup' for its
- paper distribution division.
- Hansol PNS opens the Innovation Center in its IT services division.

2 Improving Customer Satisfaction & Strengthening Marketing Seven companies within the Hansol Group have achieved international certification

ISO 900°

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

- Hansol Paper, Hansol Technics, and Hansol HomeDeco participate in domestic and international trade shows and exhibitions.
- Hansol Paper has entered into business agreements with 10 companies for the development of eco-friendly packaging.
- Hansol IONES has achieved a 60% increase in the customer satisfaction index (AGS Score) as of 2023.

Digital Transformation

Hansol PNS's IT services division implements smart factory safety management solutions at all

- Hansol Inticube accelerates the Core AI and AICC businesses on its global AI platform.
- Hansol Logistics subsidiary, Logismile, establishes a digital truck transportation system.

6

1. New Business and Market Expansion

Smart Paper Online Mall 'Grooup' Opening

40



Hansol PNS Paper Distribution Division

'Grooup' (www.grooup.co.kr) is an online mall where customers can order various papers, including Hansol Paper, and it was developed with active incorporation of customer feedback. It provides customer-centered services such as a smart 'Integrated Search' feature that allows easy and quick product search, 'Real-time Delivery Information SNS Notifications,' and 'Cart/Reorder' functionality. Furthermore, through integration with payment gateway providers, various payment methods, including card payments, are available, enabling purchases by individual customers. Even after the opening, continuous updates based on customer needs and feedback will be made to further develop the online mall into a more customer-friendly platform.

Securing
New Growth
Momentum
through Global
Network
Expansion

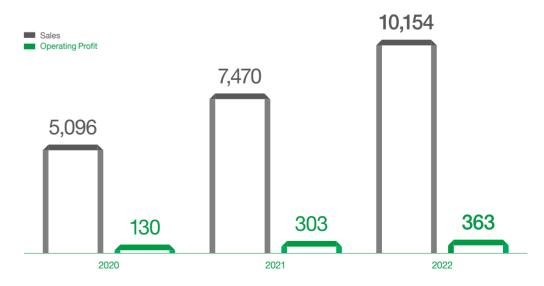


Hansol Logistics

Hansol Logistics has established a total of 19 logistics networks in seven countries worldwide, enabling it to expand its customer base from global conglomerates to medium-sized manufacturers focused on materials, components, and equipment. With its operational competitiveness in various industries such as electric/electronic, chemical, automotive parts, and a service-oriented approach tailored to local customers, Hansol Logistics has secured major second battery manufacturers and large vendors in the Asian market, particularly in China. With over 10 years of exceptional operational references, it has solidified its position as a dominant player in the second battery logistics market. Furthermore, leveraging its expertise in second battery logistics, Hansol Logistics is expanding its business into the rapidly growing market of electric vehicles. It has established new branches in Poland, the United States, India, and other countries to expand its logistics operations for electric vehicle parts, including second batteries. As a result, Hansol Logistics achieved a record-breaking revenue of 1 trillion KRW in 2022.

Hansol Logistics Profit Trend through Diversification of Global Customers

(Unit: Hundred Million KRW, Consolidated Basis)



41

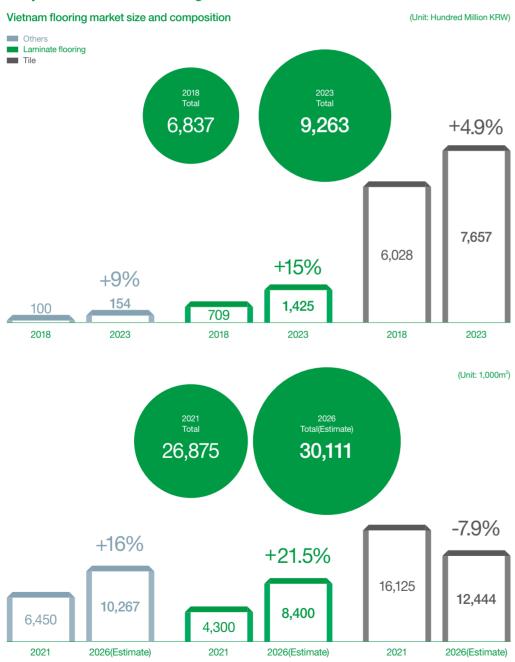
Consulting on Development of Vietnam Business Strategy

42

Hansol HomeDeco

Hansol HomeDeco conducted a market analysis to further systematize its business in the rapidly growing Vietnamese market. The objective was to increase the area of potential growth in the domestic market for strengthened flooring and assess the growth potential of Hansol HomeDeco's products in the domestic market of Vietnam. Additionally, the aim was to derive the strategic direction for overseas exports from the Hansol Vietnam base. The outcome of the strategic consultation revealed that the potential of the domestic market should be observed in medium to long term, focusing on securing business in high-end construction projects. Regarding the overseas export strategy, a more detailed exploration of business opportunities was established by concentrating on the Vietnamese-originated export opportunities to the United States for strengthened flooring.

Analysis of the Vietnamese Flooring Market



Entry into the Semiconductor Industry and Investment in Innovative Technology LiDAR Sensors

Hansol Technics

In January 2022, Hansol Technics made a new entry into the semiconductor industry by acquiring Al-WONs, a specialized company in semiconductor equipment component processing, cleaning, and coating. The acquisition amount was KRW 127.5 billion, securing a total stake of 34.47% and gaining management control. Through this acquisition, Hansol Technics aimed to strengthen its revenue structure by entering the high-growth and high-value-added semiconductor industry.

In May 2022, Hansol Technics made an investment in SOS LAB, a leading specialist company with global competitiveness in LiDAR sensors, a promising future technology area. Through this investment, Hansol Technics secured priority in the mass production of SOS LAB's products and is expected to gain opportunities for in-house adoption of LiDAR technology and become the exclusive ODM partner through future joint product development.

Hansol Holdings

Hansol V Frontiers is an open innovation program operated by Hansol Group in collaboration with accelerator Bluepoint Partners since 2020. The successful completion of the 3rd program took place in September 2022, and the 4th program is scheduled for 2023. Open innovation is a strategy that leverages external resources, such as external technological capabilities, ideas, and services, to create new value. Hansol V Frontiers is part of Hansol Holdings' ESG management, contributing to the establishment of a robust industrial ecosystem through support for innovative startups and fulfilling the company's social responsibilities.

The total value of the 15 startups that participated in Hansol V Frontiers from the 1st to the 3rd program has increased approximately six-fold compared to their pre-participation value, reaching a total of KRW 99.55 billion as of December 2022. Notably, all five teams selected in the 3rd program achieved success in attracting follow-up investments.

Successful PoC with Startups

Hansol PNS - IT services division

Hansol PNS, in the IT services division, is also driving open innovation to expand its value chain by establishing diverse collaboration ecosystems. In 2022, through open innovation in the form of startup support institutions (Incheon Creative Economy Innovation Center, Seongnam Industrial Promotion Agency) and competitions, we successfully conducted Proof of Concept (PoC), validating new solutions, with two startups in the fields of 'Big Data/Al' and 'Microservices Architecture (MSA)'. Building upon the achievements in 2022, we are dedicated to establishing a collaborative system with venture capital firms and accelerator programs that possess diverse startup portfolios, aiming to enhance the qualitative and quantitative improvement of our projects in 2023. Hansol PNS's IT services division actively shares technologies with external organizations and startups through open innovation, striving to enhance service competitiveness and become a customer-centric company.

2. Enhancing Customer Satisfaction & Strengthening Marketing

Quality
Management
Certification

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

Hansol Paper manages quality throughout the entire distribution process of its products by connecting overseas marketing hubs with domestic and international production, distribution, and sales through an integrated marketing system (Enterprise Resource Planning - ERP). Rigorous quality management from production to delivery has enabled Hansol Paper to obtain ISO9001 certification.

Hansol Group strives to promptly respond to customer demands and market changes by obtaining international quality certifications and applying and maintaining the latest updates. Through the acquired international quality system certifications, Hansol Group has established a globally standardized quality management process, ensuring stable quality for both domestic and overseas production. Annual post-audits and certification renewal every three years are conducted to maintain the certifications.

Quality
Management
System
Certification in
the Automotive
Field

44

Tapex

Tapex, a leading manufacturer of functional tapes for secondary batteries, has been experiencing consistent growth in sales and an increasing number of global customers, driven by the expanding adoption of environmentally friendly electric vehicles. In line with this trend, Tapex has expanded its Quality Management System certification to its entire facility involved in the production of tapes for secondary batteries, following the IATF 16949 certification standard for the automotive field. The IATF certification is a quality management system used by major automotive companies, including the "BIG3" in the United States, such as GM and Ford, and it is developed by the International Automotive Task Force (IATF) in collaboration with the International Organization for Standardization (ISO). Following the initial certification of the Hwaseong factory in 2016, Tapex obtained additional certification for the Yanggam factory in September 2022.

Certification Status of Affiliates

Affiliates	Facilities	Certification
Hansol Paper	Daejeon, Janghang, Sintanjin, Cheonan factories	ISO 9001
Hansol HomeDeco	Seoul headquarters, Iksan factory	ISO 9001
Hansol Technics	Jincheon, Ochang factories	ISO 9001
Hansol IONES	Anseong headquarters, Balan factory	ISO 9001, AS 9100
Hansol Logistics	Headquarters	ISO 9001
Hansol Chemical	Jeonju, Ulsan factories	ISO 9001
Тарех	Yanggam, Hwaseong factories, UniLab factory	ISO 9001, IATF 16949 (Automotive Quality Management System, Yanggam, Hwaseong factories)

Improvement of customer satisfaction index

Hansol Paper, Hansol IONES

Hansol Paper conducts customer satisfaction surveys by sector (printing paper, industrial paper, special paper) in accordance with ISO9001 requirements every August to September, through which we identify customer needs and implement immediate improvement activities. In 2022, despite the price increase and service reduction, satisfaction rose 4 points from the previous year to 76 points in all items and rose in all items.

Hansol IONES is improving customer satisfaction with prompt and accurate responses. In particular, Applied Materials, the largest company in the global semiconductor equipment industry, evaluates the customer's satisfaction index for delivery performance and continuously announces the AGS Score. As of March), the customer satisfaction index increased by about 60% compared to the previous year.

Hansol Paper Customer Satisfaction Survey System

Step 01



Enhancement of brand image through exhibition participation

Hansol Paper, Hansol Technics, Hansol HomeDeco

Hansol Group promotes high-quality new Hansol products on the domestic and international stages through participation in various expos and exhibitions, enhancing its brand value in the global market. Starting with the Chicago Label Expo in 2014, Hansol Paper participated in the Brussels Label Expo in 2019, LUXEPACK Shanghai, Asia's largest luxury packaging exhibition, and FESPA, Europe's largest graphic and textile exhibition, receiving great interest from designers and agencies. We are solidifying our status as a leading company in the paper industry. In addition, through the 'Korea ESG Eco-Friendly Exhibition' held in November 2022, domestic customers were also informed of Hansol Paper's eco-friendly, high-quality, plastic-free products.

Hansol HomeDeco participated in the '2023 Hotel Fair' held in January 2023 as an eco-friendly building materials and interior company, introducing a variety of products with new construction methods that further enhance safety and eco-friendliness. Through the planning hall with the concept of 'web 3.0 hotel lounge & space trend', it received high praise from hotel-related architecture and interior buyers. Also, at the Seoul Living Design Fair, we received the 'Award for Outstanding Space', enhancing our brand image externally.

Hansol Technics participated as a platinum sponsor and official sponsor of the 'International Green Energy Expo', an exhibition specializing in new and renewable energy held from April 12 to 14, 2023. We received attention from many buyers by introducing various solar products such as media PV, high-output solar modules, and water-type solar modules that obtained KS certification for the first time in Korea.



Participated in Hansol HomeDeco '2023 Hotel Fair'

Eco-friendly package business MOU signed.

46

Hansol Paper

Hansol Paper has signed MOUs with leading domestic companies in various fields such as cosmetics, food, pharmaceuticals, confectionery, coffee franchises, and health functional foods, and is actively developing and introducing eco-friendly paper packaging materials. While strengthening ESG management to create a sustainable future with each corporate customer, we are exerting a positive influence by encouraging general consumers to practice environmental protection in their daily lives by applying eco-friendly paper packaging materials in various fields.

3. Digital transformation

Intelligent
Energy
Management
Solution
CoEMS
Expansion

Hansol PNS

Intelligent energy management solution CoEMS, the flagship product of Hansol PNS IT Service Division, is a factory-centered energy management system that reduces greenhouse gas emissions and energy consumption through efficient energy management and distribution. This product contributes to customers' ESG management through betterment of the production process. Currently, it is being reflected in Hansol HomeDeco's digital cluster business within affiliates, and in addition to group affiliates, various manufacturers such as JianWood and MS Chem Korea are also participating in the business. In 2023, we will contribute to the establishment of ESG management throughout the manufacturing industry by continuously expanding the smart factory business.

Global Al platform Core Al and MOU, accelerate AICC business.

Hansol Inticube

In March 2023, Hansol Inticube commenced a partnership with Core AI, a leading global interactive artificial intelligence (AI) platform, to promote AICC business. Core AI is the preferred conversational AI and digital UX technology provider for Global 2000 companies, providing solutions recognized as market and technology leaders by organizations such as Gartner and IDC. Core AI is headquartered in Orlando, USA. Since its establishment in 2015, more than 100 of the Fortune 500 companies, including the top 4 global banks, are currently using Core AI solutions. Hansol Inticube uses Core AI's LLM (Large Language Model) and generative AI technology to develop conversational AI services such as ChatGPT by eliminating the manual work of people involved in creating conversation scenarios and learning natural language processing., which will drastically improve the cost and operational efficiency involved.



CEO of Hansol Inticube, Vice President of Core Al

Incorporating
IT technology
into trucking,
promoting
growth as the
No.1 digital
trucking cargo
transport
company

Hansol Logistics

Logismile, a subsidiary of Hansol Logistics, has built an app-based digital truck transportation system. We are strengthening our differentiated competitiveness in the trucking market by adding digital trucking solutions to our nationwide direct dispatch service capabilities. In order to digitize the operating structure of the existing truck transportation market, which relied on manual methods, we completed the self-development of TMS (transportation management system) and the installation of robotics technology, which enables all tasks from dispatch to settlement online, and application of Al algorithms in the future. We will lead the digitalization of the trucking business by advancing the system.

ENVIRONMENT

Eco-friendly product development and climate change strategy

Amid heightened awareness of the climate crisis, domestic and foreign companies' movements to achieve carbon neutrality by 2050 are also active. The Hansol Group is also making efforts to minimize greenhouse gas emissions, convert to new and renewable energy, and develop eco-friendly technologies and products in order to minimize negative environmental impacts from business activities and contribute to solving the global climate crisis.

For the Sustainability

48

Based on the market development and business expansion strategy through eco-friendly technology development, the Hansol Group is concentrating its efforts on research and development of eco-friendly technologies and products, thereby securing new growth engines for the future and realizing sustainable growth. Hansol Paper and Hansol HomeDeco's eco-friendly product development and technology accumulated over the years have become the main pillars of business growth. In line with the expansion of the use of new and renewable energy, eco-friendly materials products such as Hansol Technics and Tapex are also in the limelight. Hansol will continue to take the lead in responding to climate change and creating an eco-friendly business ecosystem through generous R&D investments in eco-friendly products and technologies.

Key Sustainability Issues

Eco-friendly

technology

development and

product certification

Hansol Paper's 2022 eco-friendly certified product sales

Key Performance

KRW

1,464.7billion

- 30% of Hansol HomeDeco's eco-friendly flooring and MDF product sales
- Developed 100% sugar cane paper for Hansol P&S paper distribution division
- Sales of Tapex paper straws increased by 22% and multi-use cups by 120%
- Hansol Technics low-carbon product development

2 GHG reduction and energy saving

Hansol HomeDeco's 2023 CO2 absorption amount within New Zealand's afforestation business activities

149,000_{tonnes}

- Replacing high-efficiency facilities in Hansol Chemical Energy
- Greenhouse gas reduction by replacing old facilities at Hansol Technics

Environmental pollutants and waste management

Hansol Chemical's waste water emissions at Ulsan factory decreased by

15%

- Hansol HomeDeco incinerator fly ash heavy metal reduction facility construction
- Increased recycling of Hansol PaperTech waste sludge

4 Global Initiative & Environmental Management Certification Tapex Uniwrap Plant

ISO 1400⁻
Acquire new certification

- Compliance with Hansol Paper TCFD recommendations
- Designated as a green company by Hansol Paper Joined Hansol HomeDeco UNGC
- Establishment of Hansol IONES Environment Committee

1. Eco-friendly technology development and product certification

Expansion of eco-friendly material duracle market

50

Duracle, a brand of Hansol Paper, is an eco-friendly eco-solution material that contains not only nanocellulose but also microfibril cellulose. This is a material that can be applied not only to batteries and paints, but also to cosmetics, urethane foam, rubber, and packaging. Currently, we are developing application technologies in collaboration with leading companies in each field, and in terms of market demand, it is expected that the application of Duracle materials will have great market impact as they are beneficial to carbon neutrality and circular economy.

In addition, Protego, an eco-friendly paper packaging material, Thera Bath, a container containing nature, and 'Wet Wipes to Save Whales', which do not generate microplastics because they are made of natural pulp and plant-derived rayon fabric, launched in February 2022, are also very positive in the market. getting a response

Hansol Paper Environmentally Certified Product Line

Certification	Production Plant	Species	Product Name	
	Daejeon Plant	industrial paper	Hi-Q AB Lite, 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, off-white white paper, new white paper, High Plus, New Plus, Advanced Textbook, Fine Coat Paper, Hi-Q Duo Mat, Hi-Q Millennium Art, etc.	
		thermal paper	Hansol Thermal Paper Green, Hansol Thermal Paper Green HS, Hansol Thermal Paper Green AFH, Hansol Thermal Paper CL, Hansol Thermal Paper EL, Hansol Thermal Paper SL, Hansol Thermal Paper HB, Hansol Thermal Paper HL, Hansol Thermal Paper PF, Hansol Thermal Paper Pro, etc.	
FSC	Shintanjin Plant	print	Campus magazine (S, J), New Classic, New White Paper, New Plus, Green Textbook, Advanced Textbook, Hi-Q Mat Premium, Hi-Q Mystic, Hi-Q One-sided Art, Hi-Q Duo Mat, Hi-Q Millennium Art, etc.	
		thermal paper	Hansol Thermal Paper Green HS, Hansol Thermal Paper Green AFH, Hansol Thermal Paper SL, Hansol Thermal Paper Green EL Slim, Hansol Thermal Paper Green EL, Hansol thermal paper Green HB, Hansol thermal paper Green, Hansol thermal paper CL, etc.	
	Cheonan Plant	fancy paper	Fancy paper, eco-friendly products, outsourcing products, etc.	
		Thermal Paper	Hansol Thermal Paper Green, Hansol Thermal Paper Pro, etc.	
		Inkjet type	Inkjet transfer paper	
UL ECV 2485	Cheonan, Daejeon Plant		Protego S(EB Smart) 70g, Terravas Cup	
GR (Good Recycled)	Shintanjin Plant		Green Textbook	
Green Seal	Cheonan Plant		Inspur_Smooth Shopping (E) PCW30, 90	
	Janghang Plant		New Baeksang Blue, New Plus Blue, Hi-Duo Matt Blue	
Eco-label certified products	Cheonan Plant		Inspur Signature Eco, AHC Willow Paper, Inspur Aloe, Insper Magic Comma, Dr. G_Cica Paper, Inspur Eco	
	Shintanjin Plant		Hi-Q Millennium Art, Advanced Textbook Blue	





left: Hansol Paper held a 'National ESG Eco-friendly Competition' in November of 2022 right: Hansol HomeDeco Eco-friendly SB Flooring

Hansol HomeDeco Environmentally Certified Products

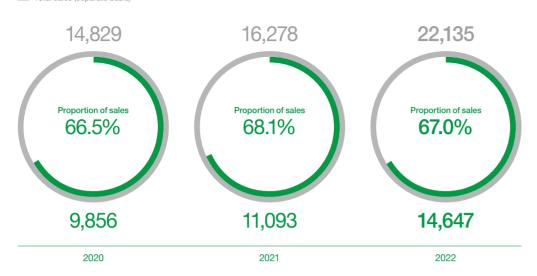
Certified product	Certification	Product Features
E0 MDF 35 type	Eco-label	Made by only selecting wood from construction site waste. Boards made from recycled chips (more than 35Mpa in flexural strength
E0 MDF 30 type	Eco-label	Made by only selecting wood from construction site waste. Boards made from recycled chips (more than 30Mpa in flexural strength)
SPB	Eco-label	A board made to replace it with fiberboard in line with the trend of increasing domestic particle board imports (flexural strength of 20Mpa or more)
Laminate floor	Eco-label, HB	Eco-label, HB mark 7.5mm E0 grade non-adhesive flooring made by bonding LPL to HDF and then reinforcing it
ultra	Eco-label, HB, Low-carbon plywood	7.5mm thick E0 grade flooring made by bonding HPL to low carbon plywood
story wall	Eco-label, HB	9mm thick, E0 grade flame retardant wall material made by bonding LPL to HDF
SB Normal (Edge/Stone)	Eco-Label, HB, Environmental Product Declaration	6mm thick SE0 grade flooring made by adhering PP to SB core that is resistant to water and moisture
SB Steel (Edge/Stone)	Eco-Label, HB, Environmental Product Declaration	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 (patterned texture is alive)
Ultra steel	Eco-Label, HB, Low-Carbon	7.5mm thick SE0 grade flooring made by bonding HPL to SB core that is resistant to water and moisture
Wellstone	НВ	Semi-nonflammable grade product with excellent dimensional stability, water resistance and processability by bonding LPL to inorganic rock wool material
prium	НВ	10mm SE0 grade hardwood flooring made by UV coating on HB mark plywood

Hansol Paper Eco-Friendly Sales Performance

(Unit: KRW 100 million)

Sales of eco-friendly products

52



Eco-friendly Product Sales Status by Subsidiary

(Unit: KRW 100 Million)

Subsidiary	Eco-certified products (as of 2023)			2020	2021	2022
Tapex	1 piece (hanji oil paper environmental label certification)			2	2	2
Hansol HomeDeco	A total of three types of MDF 30/35 type and floor products (20 pieces)			830	793	842
Hansol PaperTech	11 types of back paper, corrugated medium and surface paper			814	1,014	1,237
	Total number of cumulative carbon certified models: 188					
	Enhancement level standard					
	Carbon	Number of	Carbon emissions			
Hansol Technics	Grade	certifications	(kgCO ₂ /kW)			
	Grade 1	42	~ 630	1,296	1,426	2,304
	Grade 2	39	630~670			
	Grade 3	24	670~730			
	Grade 4	83	730 ~			

Development of low-carbon products

Hansol Technics

Hansol Technics has established and is implementing mid- to long-term plans to reduce greenhouse gas emissions. In 2018 the total amount of greenhouse gas emissions was 27,652tCO2eq and so with the goal to reduce 25% of that by 2030, we are engaged in ESG activities such as investing in high-efficiency energy facilities and facilities, introducing photovoltaic renewable energy, and planning projects for manufacturing processes with high carbon emissions. In addition, as a long-term goal, we are constantly researching and implementing measures to achieve carbon neutrality by 2050. We have completed the development of low-carbon grade 1-3 products and will continue to provide environmentally friendly and sustainable services through the development and production of products that can approach carbon neutrality.

Launched 'Sugar Pack', 100% paper made from sugar cane.

Hansol PNS

Sugar Pack, that was launched within the paper distribution division, is paper made from 100% sugarcane that protects forests without cutting down trees. Sugarcane is used as a raw material and is one of the most cultivated crops in the world. Non-wood paper is made by recycling sugarcane by-products left over from the sugar manufacturing process. It is an eco-friendly product that has been brought back to nature without any harmful chemical treatment or artificial bleaching and can be used for food packaging.

Expand supply of paper straws and reusable cups

Tapex

Tapex paper straws and multi-use cups (reusable cups) complies with the government's plastic disposable product regulation policy and plan to expand its production. Our 2022 sales increased by 22% ever since the plastic straw regulation was officially implemented in November 2022 and the replacement of disposable cups, multi-use cups, also increased by 120% compared to the previous year to 800 million won in 2022. This is estimated at about 145 tons for carbon reduction performance. In addition, we are further strengthening the company's eco-friendly business image by signing Habit Eco Alliance (SK Telecom, SK Happiness Connect, Starbucks, Tapex, and local governments) and participating in programs.

Secondary battery tape life cycle evaluation LCA implementation

Tapex

For the first time, Tapex applied Life Cycle Assessment (LCA), which evaluates the environmental impact (greenhouse gas emissions) of a product throughout its life cycle, to its flagship products. In the first half of 2022, a LCA TF team was formed to evaluate the secondary battery tape that is used in production process of electric vehicles.



2. GHG reduction and energy saving

Replacing energy-efficient facilities

Hansol Chemical

Hansol Chemical's Jeonju Plant is making improvements in various aspects to reduce power and steam consumption as energy consumption is increasing every year due to steady business expansion. Recently, we have carried out activities to reduce power consumption (approx. 2,700MW) by replacing high-efficiency LED lights and high-efficiency refrigerators, and steam consumption (approx. 5,000 tons) by improving flare stack operation and recovering steam in the process. Through these energy consumption reduction activities, we also were able to reduce our greenhouse gas emissions.

Investment in carbon emission reduction facilities

Hansol Technics

Hansol Technics replaced an aging air compressor at the Jincheon Plant as part of its efforts to reduce greenhouse gas emissions. In the past, an old 200HP compressor was used, which is now replaced with the new 100HP compressor to prevent unnecessary energy loss caused by a decrease plant operation rate and large-capacity facilities. With this replacement of the compressor, you can expect to save KRW 10,500,000/year. In addition, the Ochang plant replaced the boiler with a high-efficiency, low-NOX boiler and changed the discharge method from a combined discharge method to an individual discharge method, enabling stable boiler operation. In the past, we improved energy use efficiency by improving pipe corrosion, ignition problems, and boiler temperature management problems caused by condensation caused by temperature drop (140→75℃).

New Zealand afforestation business and sales of carbon credits

54

Hansol HomeDeco

Since 1991, Hansol HomeDeco has been the first Korean company to carry out overseas afforestation. Through this, it became possible to secure a stable source of wood resources. In 1996, we entered the afforestation business in New Zealand, and now we are absorbing $149,000 \text{ tCO}_2$ of carbon dioxide every year and generating profits through the carbon credits business.

Increased recycled content

#1 in the world for recycled content within MDF

80%

Percentage of recycled materials to be increased to 100%

Reduce greenhouse gas emissions and preserve energy

Annual amount CO₂ reduction

2,000
t

5% annual decrease for overall usage

Increasing the share of green products

Green products as a percentage of total sales 30%

Will use recycled materials for MDF, living room, etc.

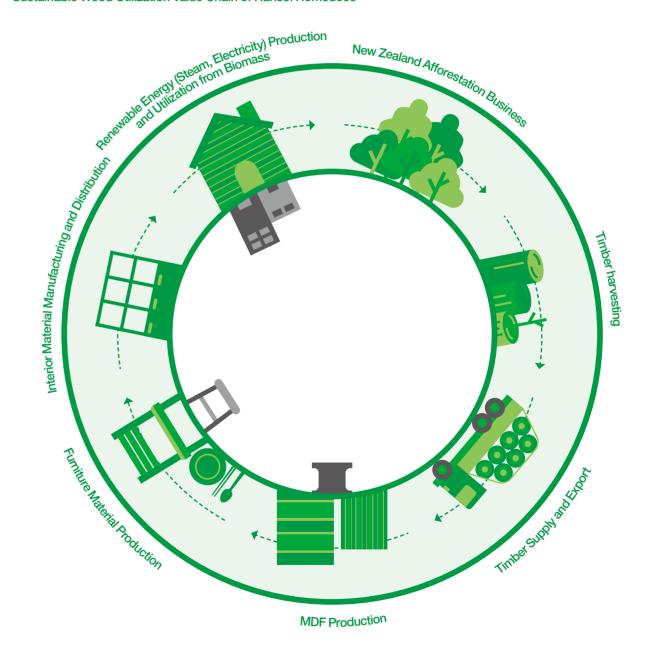
Overseas reforestation projects and carbon credits

Total area of oversea reforestation

10,000 ha

Annual CO₂ amount of 149,000 tons reduced

Sustainable Wood Utilization Value Chain of Hansol Homedeco



3. Environmental pollutants and waste management

Reduced wastewater discharge by 30,000 tons

Hansol Chemical

Hansol Chemical's Ulsan Plant discharged a total of 160,151 tons (440 tons/day) of wastewater in 2022, a reduction of about 15% from 189,823 tons (520 tons/day) of wastewater discharged in 2021. Despite business expansion, Hansol Chemical Ulsan Plant made efforts to protect water resources by reducing water use and water pollutant emissions in 2022. Through efficiency in the product manufacturing process and facility investment, the reuse rate of wastewater was increased, and as a result, wastewater discharge was reduced by about 30,000 tons compared to the previous year.

Strict Wastewater Discharge Management

Hansol PaperTech

Hansol PaperTech manages waste water dischargement through their own standards which is well below the required legal standards.

	Legal Standards	Self-Standards
TOC	25	20
COD	32	25
SS	30	22
PH	8.6	8
TN	30	23
ТР	4	3.5

Investment in environmental facilities

56

Hansol Paper

Hansol Paper thoroughly manages to minimize resource waste and pollutant discharge by increasing the waste recycling rate for eco-friendly resource circulation and investing in facilities to achieve zero marine waste discharge. Hansol Paper has been steadily investing KRW 5.6 billion in 2020, KRW 6 billion in 2021, and KRW 1.5 billion in 2022 in environment-related facilities over the past three years for resource circulation. We are reducing material.

Hansol HomeDeco

Hansol HomeDeco has invested in the construction of fly ash heavy metal reduction facilities in incinerators. In the past, the content of heavy metals in fly ash from incinerators exceeded the legal standard and was classified as designated waste, so waste was treated at high cost. In this process, by injecting heavy metal release inhibitor chemicals into the fly ash of the incinerator, the fly ash is converted into general waste and recycled, resulting in an improvement in the waste treatment process and cost reduction.

Hansol PaperTech

Hansol PaperTech prepares a recycling plan for waste (sludge) generated during production and continuously implements it to make efforts to turn waste into resources. We are also focusing on facility investment to stabilize waste disposal.

Hansol Technics

Hansol Technics carried out sludge dredging construction for collection tanks and discharge tanks for efficient wastewater treatment and discharge of concentrations below legal standards. This is because wastewater sludge accumulated in the collection tank and effluent for a long time increases the concentration of water pollution and adversely affects facility maintenance (pumps and piping). After the dredging, the concentration of wastewater contamination was noticeably reduced for each item, such as BOD 78%, TOC 19%, SS 52%, and T-P 85%.

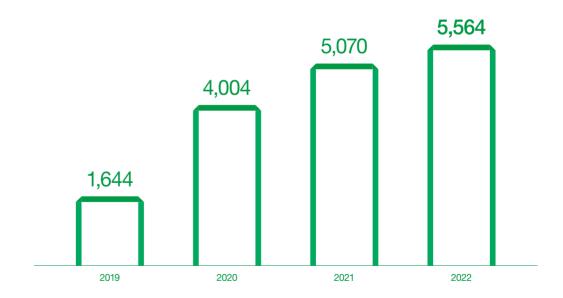
2022-2023 Hansol PaperTech Environmental Facility Investment

(Unit: KRW million)

Environment Facilities	Investment Amount
Replacement of water quality TMS (TOC)	62
SDR upper replacement	82
Aeration Tank Turbo Blower Spare and Piping Installation	91.5
Additional installation of advanced water quality treatment (corresponding to TOC regulations)	618
Replace Bag Filter Hopper	140
Replace Bag Filter Valve	49
Replacing the submersible pump in the preliminary aeration tank	31
Nano filter installation	563

Hansol PaperTech Sludge Recycling Increase Trend

(Unit: ton)



4. Global Initiative & Environmental Management Certification

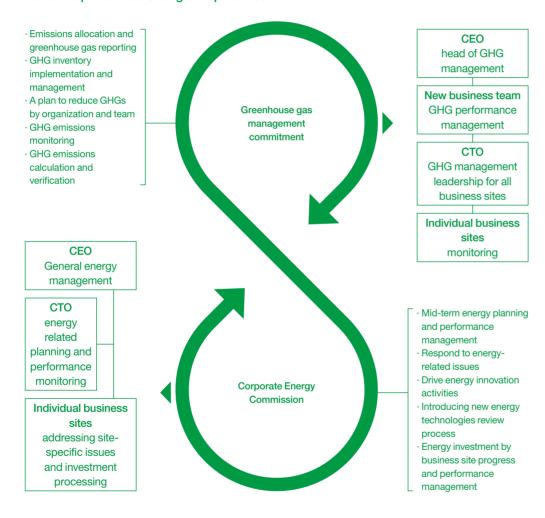
Compliance
with TCFD
recommendations
and designation
as a green
company

58

Hansol Paper

TCFD (Task Force on Climate-related Financial Disclosures) is an organization created by the International Financial Stability Board (FSB) and presents TCFD recommendations, which are standards for disclosing governance, strategies, risk management, indicators, and targets for climate change response. Hansol Paper discloses climate change-related information in accordance with TCFD recommendations to support decision-making by major internal and external stakeholders and to advance the climate change response system. In addition, it was designated as a green company qualified by the Ministry of Environment and the Geumgang River Basin Environmental Office and was again recognized for its eco-friendly management.

Hansol Paper Climate Change Response Governance



Joined the United Nations Global Compact (UNGC)

Hansol HomeDeco

Hansol HomeDeco has joined the United Nations Global Compact (UNGC) to strengthen ESG management and social responsibility practices that meet global standards. UNGC is the world's largest voluntary corporate citizenship initiative (autonomous agreement) and is an international agreement launched in New York, USA in 2000 to promote corporate social responsibility. Currently, about 20,000 member companies from 162 countries around the world are participating, and the member companies that have signed up adhere to the 10 principles in the four areas of human rights, labor, environment, and anti-corruption, which are the core values of UNGC, and report on achieving the Sustainable Development Goals (SDGs). (cop) must be submitted and disclosed annually. Hansol HomeDeco's involvement in the UNGC is a promise to faithfully fulfill its duties as a responsible corporate citizen.

Addition of new ISO 14001 acquisition sites

Tapex

Tapex's Unilab business site established a systematic environmental management system and newly acquired the international environmental management system certification (ISO 14001) in 2022, and as a result, all three domestic business sites have been certified.



environmental committee and establishment of improvement goals

Hansol IONES

Hansol IONES established an environmental committee in 2023 and held a meeting at the Anseong headquarters and Balan campus. The committee plans to hold quarterly meetings to respond to internal and external issues related to the environment and evaluate environmental risks and has established specific goals necessary for this. In the future, Hansol IONES plans to promote management activities with a focus on environmental management, which requires the most urgent and preemptive response.

SOCIAL

Achieving Sustainable Growth Together The responsibility of companies regarding respecting human rights has never been so important and relevant in today's world. Sustainable is only achievable for companies that consider human rights for all stakeholders, including employees, suppliers, and local communities. Hansol promotes this by complying with the Universal Declaration of Human Rights and the United Nations Guiding Principles on Business and Human Rights (UNGP).

For the Sustainability

60

Hansol Group strives to demonstrate ESG values all together with our employees, suppliers, and local communities. For employee labor human rights, we have prepared the Human Rights Management Operating Guidelines and trained all employees. Furthermore, we intend to implement a safe and enjoyable workplace and strengthen competency through educational support programs. In 2022, we established the HSRS (Hansol Safety Rating System) safety and health management evaluation system tailored to the characteristics of Hansol's business, while major affiliates have already established the foundation with the ISO 45001 certification. To take initiative, we provided regular meetings, training, and consulting to ensure the safety and security of employees at each affiliate and partner company. Hansol rewards employees in the event of exceptional performance and is determined within the labor management committee after a discussion process where employees can make recommendations about annual salary increase and so forth. In addition, we are striving to promote diversity among employees and encourage interactive communication to create a pleasant workplace atmosphere and retain talented employees.

Key Sustainability Issues

Creating growth with

Certified family-friendly companies

3affiliates

Hansol Paper, Hansol Chemical, Tapex

Key Performance

- Launched online education curation system based on Hansol Holdings competency evaluation
- Establishment of HSRS Health and Safety Management Evaluation System
- Employment inclusivity for people with disabilities at

Shared Growth with Partners

employees

Number of Hansol Technics' shared growth programs

15

- Hansol Technics Win-Win Cooperation Day, 10 companies attend individual purchase consultations
- Sustainability assessment for Hansol Paper's suppliers
- Hansol Paper Win-Win Fund
- Hansol Inticube published a guidebook on Good Subcontracting Practices

3 Community communication and engagement Number of visitors at the Museum Mountain for Hansol's Culture Foundation

1,631,922

- Hansol Holdings Employee Volunteer Program
- Hansol Technics Solar PV Module Community
 Donation
- Regular cleaning to remove odors from Hansol PaperTech
- ESG campaigns such as Tapex Beachcombing and waste electronics collection

1. Creating growth with employees

Established human rights management operating guidelines and employee psychological counseling programs

Hansol Holdings

Hansol Holdings has established specific guidelines for practicing appropriate human rights management. The guidelines contain definitions of human rights, human rights management, types of human rights violations, and procedures for remedying human rights violations. The human rights management system is applicable to holding companies and affiliates, their employees, customers, and suppliers, operating a system that allows various stakeholders to report possible human rights violations through various channels, including the "Red Whistle" (anonymous reporting) system, website, mail, email, and telephone. In 2023, human rights management will be expanded to major affiliates and training will be done once a year for every affiliate. Through the Declaration on Human Rights Management, Hansol Holdings aims to spread human rights awareness among employees and create an environment that deeply values human rights. Moreover in 2023, we will operate a counseling program where all employees can receive psychological counseling for various problems experienced, such as work stress, workplace conflicts, burnout syndrome, and interpersonal conflicts, as well as human rights violations, through an external professional counseling center.







How to use the specific human rights violation remedy procedures and prevention programs contained in the Human Rights Management Operating Guidelines.

Employee Growth Support Program

62

Free Agent (FA) System: the FA system was introduced in 2020 and gives employees who had the same job for a certain amount of time, the right to apply for other jobs if they wish with priority given to those with FA qualifications through job postings from time to time.

External MBA Support: Each year, each affiliate recommends candidates for an internal MBA to nurture future executives

Mentoring System: We operate a variety of mentoring systems to help new employees to adapt to the company and prosper

Hansol Training System: We operate systematic training programs for each position level and support employee growth by providing personalized online training, phone consultations, and sales and outsourcing training Respect Leadership: Respect and leadership are significant for leaders of the company that create organizations where members can grow through mutual respect and are also core values of the Hansol Management System (HMS)

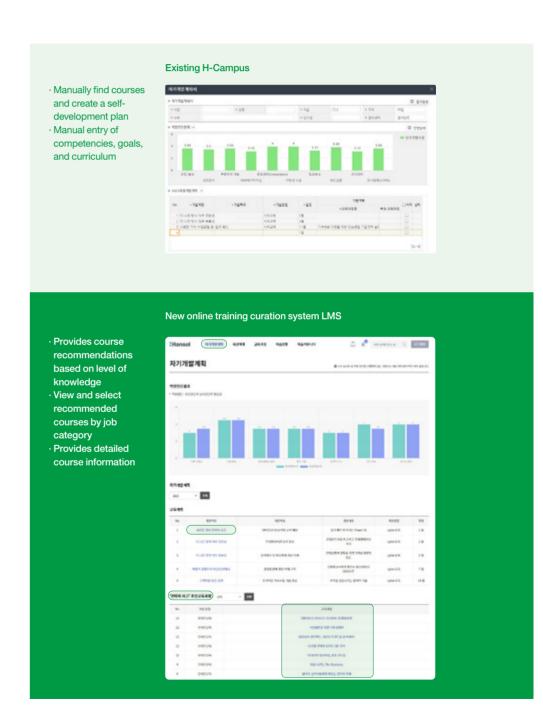
Absolute Evaluation: We operate a performance management system that grows by achieving common goals based on the values of collaboration and never ill competition

Team Ground Rules: The team ground system is operated so that all teams of Hansol Group can create an autonomous work environment by reflecting their unique characteristics and culture

Online training curation system based on competency evaluation

Hansol Holdings

Hansol Group has newly launched an online education system for employees with 'Da Vinci', an HR software platform and 'H-Campus', an online education system. The system is an integrated education system that offers learning resources such as curriculum content, videos/YouTube, and other learning resources based on individual learning needs and learning data analysis and manages learning support and history. Through this education infrastructure, Hansol Group has internalized a culture of voluntary learning in the organization and actively supports self-development for all employees.



Establishment of HSRS Health and Safety Management **Evaluation** System

Hansol Holdings

Starting with the first evaluation of ISRS, the International Safety Rating System, in 2019, Hansol Group has been building its own safety and health working standards that are optimized to reflect the characteristics of Hansol's business. In 2022, we introduced the HSRS, an evaluation system where effectiveness and performativity has been verified. The evaluation rating is categorized into five levels from Level 1 to 5, with Hansol Paper and Hansol HomeDeco, both being manufacturing businesses, aim to achieve and maintain HSRS Level 5, which is more or less equivalent to ISRS Level 7. Through this, Hansol Holdings plans to strengthen safety and health competitiveness of the group and promote safety culture to its suppliers.

Hansol Paper's Jang Airfield rated L5 in HSRS assessment



Strengthening occupational safety and health education

64

Hansol PaperTech

We have further strengthened occupational safety and health training in relation to the Serious Accident Punishment Act. The annual safety and health training is conducted once a year. The competency required for the job is judged to be satisfied only when the score is 70 or more in the evaluation through the KSA competency evaluation form. Regular safety and health training is mandatory for more than six hours on a quarterly basis. Special safety and health training is required for full-time employees working 16 hours or more and day laborers. We strictly apply the standard of 16 hours or more for regular employees and more than two hours day laborers. This applies to work with cranes weighing more than 1 ton, work in confined spaces, and workplaces with five or more unloading machines for transportation.

Number of affiliates that attain ISO 45001

Health Examination Occupational Safety Policy to Protect Employees' Health

and

Hansol PaperTech conducts pre-placement health examinations and performs regular health examinations at least once a year for employees who are newly hired and assigned to tasks involving special health risks. Prior to assignment, the company informs employees about the specific health examination requirements related to hazardous factors in the assigned tasks or workplaces. In particular, for tasks involving hazardous processes such as noise, dust generation, radiation processes, sulfuric acid, and welding operations, pre-placement health examinations are conducted. Accordingly, employees engaged in hazardous risk processes, material handling, and night work, as specified in the Industrial Safety and Health Act, undergo special health examinations based on the types of hazardous factors. In addition, the company regularly reviews the adequacy of its occupational safety and health policy to ensure the well-being of employees. After formulating the strategies for the occupational safety and health policy, the company collects feedback from members and stakeholders through communication channels such as emails, official letters, meetings, and internal notices to incorporate their opinions for revision or reestablishment. The occupational safety and health organization reports the safety and health performance to the top management semi-annually and takes steps to improve any areas that fall short of the requirements.

Introducing a specialized work-fromhome employment platform for people with disabilities

Hansol Group

Hansol PaperTech

Hansol Group is striving to expand recruitment of people with disabilities by introducing a solution platform provided by Vdream, a support company specializing in employment of people with disabilities, at its major affiliates. Hansol Logistics, Hansol PNS IT Service Division, Hansol Inticube, Hansol Chemical, and Hansol Technics have adopted and are operating the platform, which enables people with disabilities to perform support tasks such as document data management and article clipping, while receiving the same benefits as existing employees, such as tuition and medical expenses and medical examinations. To promote diversity in employment and fulfill our corporate social responsibility, we increased number of employees with disabilities in 2022. We hired four new employees, compared to two previously, and now have six employees with disabilities. In particular, we focused on job positions where work from home is possible, such as CS, design, and general affairs, to improve work efficiency and reduce inconvenience for employees.



Vdream (vdream.co.kr) allows people with disabilities to select and apply for jobs by job title.

Certified Family-Friendly Business

Hansol Paper, Hansol Chemical, Tapex

Hansol Paper, Hansol Chemical, and Tapex are certified by the Ministry of Gender Equality and Family Affairs after they completed the Family Friendly Management Evaluation. During the family-friendly certification audit, we received good feedback for operating childbirth and child-rearing support systems, flexible work schedules, 12:00 p.m. Fridays, family-friendly programs, family care leave, and family-friendly workplace culture.



Tapex women's room remodeled to make it more comfortable with maternity breaks Break room

Recognized as a Young Adult Friendly Small Business

66

Hansol Coever

Hansol Coever, a subsidiary of Hansol PNS, has been selected as a young adult friendly small business in 2023. Since 2016, the Ministry of Employment and Labor has selected outstanding companies based on wage, work-life balance, and employment stability every year and Hansol Coever was selected as a company that meets the criteria. Consequently, they are eligible to receive benefits such as recruitment support services, preferential financing, preferential treatment when selecting companies excluded from regular tax surveys, and preferential treatment for companies with special military service.

Holding meetings to minimize communication gap between generations.

Tapex

As the number of employees rapidly increased in recent years, the organization is comprised of various generations, Tapex has made concrete efforts to establish a desirable corporate culture. Consequently, we have been conducting meetings to listen and resolve employees' concerns since 2022, which are held at least once a year for each level and position under the supervision of the division manager or head of management support. Through this, we aim to create a healthy workplace by strengthening communication with employees. In 2022, a total of 264 employees participated in the meetings, receiving 211 complaints and finding ways to improve.

Hansol Technics

Every month, Hansol Technics supports activities to strengthen communication with the MZ generation employees so that they can express their opinions freely with related departments such as support, HR, and general affairs. In addition, we conduct junior board discussions and meetings as an intergenerational (interdisciplinary) communication event. Through meetings with the CEO, the older generation, and the MZ generation, it eliminates pretenses and helps to understand each other through heartfelt communication. Moreover, there are a total of six junior board members, two from each business site, which are active.

Hansol IONES

In 2023, Hansol IONES held a company-wide meeting between the CEO and employees. To avoid one-sided communication where only the business executives participate, the meeting was centered on practitioners, excluding executives and directors, allowing everybody to express their thoughts and opinions without the pressure from the upper hands. Hansol IONES will practice ESG management by internalizing ESG social values through such communication across all levels of positions and generations.

'For me', a flexible work arrangement policy

Hansol PNS

Hansol PNS's paper distribution division operates a 'for me' program that allows flexible work arrangements for employees and can simply be understood as 'Fridays are for me'. It allows employees to work four days and then take three days off for a refresher period. In addition to the 16 days per year, employees are granted eight additional days off, giving them a total of 24 days off, which basically is having Friday's off on a bi-weekly basis. We set the 2nd and 4th Fridays of each week as the default days off, which can be spread out to suit the team and individual autonomy.

Introduce an internal employee referral program.

Tapex

We are introducing various programs to expand our talent acquisition channels, which are essential for strengthening corporate competitiveness. In 2022, we introduced a new internal employee referral system in addition to continuation of recruiting university graduates, which was suspended in the second half of 2013. If an employee joins the company through the internal employee referral system and works for more than a year, the referrer receives an incentive worth KRW 500,000 to KRW 2 million. Moreover in 2022, we also hired 10 talented university graduates throughout various fields within our corporation.

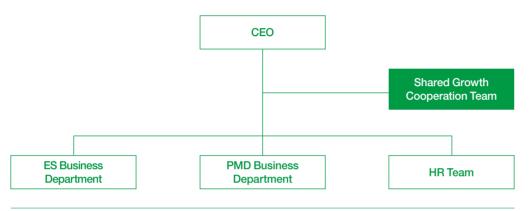
2. Shared Growth with Suppliers

Shared Growth Programs

Hansol Technics

To continuously promote fair trade and shared growth with its suppliers, Hansol Technics has moved the Shared Growth Cooperation Team to a department directly provisioned by the CEO. Understanding that shared growth with suppliers is a social value, Hansol Technics boldly overthrows unfair trade elements that have been inherited in practice, supports technology exchange, consulting, and training with the idea of filling in the gaps that suppliers lack, and enhances the working satisfaction of employees of suppliers by sharing welfare systems. As a result, improving the quality of our suppliers and securing excellent human resources are becoming Hansol's advantage and strength.

Shared growth activities provided by Hansol Technologies to suppliers



Key activities in 2022

- 1. support for patent application
- 2. 2 patent trainings
- 3. support for technology assignment system
- support for tec
 early payment
- 5. procurement consultation
- 6. performance sharing system
- 7. support for in-house ventures

- 8. support for solar power supply projects
- 9. safety and energy saving consulting
- 10. manufacturing process improvement support
- 11. recreational facility support
- 12. support for long-term tenure of key personnel
- 13. dissemination of new systems and laws
- 14. support for cultural life

Hosted a Win-Win Cooperation Day event

68

Hansol Technics

'Win-Win Cooperation Day' is Hansol Technics' signature shared growth project. We introduce the shared growth activities achieved during the year and disclose plans for the upcoming year. We also disseminate the latest management trends and revised laws. On the Win-Win Cooperation Day in 2022, we provided purchasing strategies for each business division and held purchasing consultations to provide business stability to our suppliers.

Management of 180 Supply Chains

Hansol PaperTech

Hansol PaperTech's corrugated cardboard manufacturing business is focused on providing for agricultural and marine products due to the increase in the freight forwarding industry and the government's growing interest on the environment. The market is expected to grow with expansions of packaging and the increased frequency of online shopping. There are currently 180 supply chains that are managed by Hansol PaperTech. Besides Logismile, which is an outsourcing supply chain logistics company, and Jeongjin Development, a human labor subcontracting company, there are 35 raw material companies, two incineration fuel companies, seven waste treatment companies, 15 subsidiary material companies, etc., consisting of 120 networked supply chain companies.

Create a guidebook for good subcontracting practices.

Hansol Inticube

Hansol Inticube has published the 'Guidebook for Desirable Subcontracting Transactions' to comply with fair and transparent subcontracting transaction orders. The guidebook contains key points of the Act on Fair Subcontracting Transactions to support accurate legal compliance and work when subcontracting with partners. It shall be utilized in practice by focusing on the definition of subcontracting, applicable requirements, and obligations of prime contractors. In particular, parts that are difficult for practitioners to interpret, such as transaction requirements and exceptions, and issues in practice were covered in more detail through Q&A to enhance practitioners' understanding.





^{*} In addition to the above programs, 'Language Education Support' will be added in 2023.

3. Community communication and engagement

Museum Mountain diversifies culture of art and architect as a healing destination

70



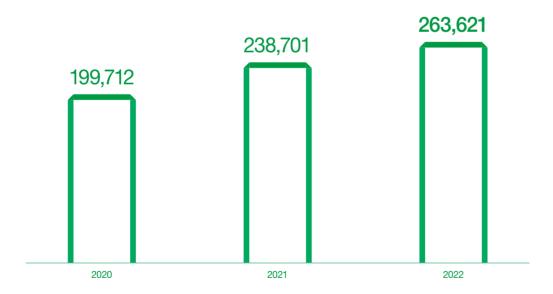


Hansol Cultural Foundation

Since the opening of Museum Mountain in 2013 that is operated by Hansol Cultural Foundation, it has established itself as a representative cultural space in Korea that lives up to its intention of providing therapy and healing through the enjoyment of art in a cultural space outdoors. It has accumulated 1,631,922 visitors over the past 10 years and is visited by more than 200,000 people annually, contributing to the revitalization of the local economy. Since its inception, Museum Mountain has been popular for its minimalist concrete architecture design of world-renowned architect Tadao Ando and is also James Turrell's largest exhibition in Asia who is an artist of light and space and has become a more meaningful and desired destination delivering inspiration to visitors. In 2023, the museum celebrated its 10th anniversary by hosting the exhibition "Tadao Ando-Young Chun", which explored the challenging work of architect Tadao Ando and the world of architecture, providing the public with another opportunity to engage with art and architecture.

Visitors to Museum Mountain in the last three years

(Unit: Employees)



Solar PV Module Community Donations and Corporate Social Responsibilities (CSR) Activities

Hansol Technics

Hansol Technologies demonstrates social value within rural areas through eco-friendliness. In 2017, we were the first private company to sign an agreement to contribute to the Rural Livelihood Fund, and we supply solar panels to KEPCO's Light Sharing Panel Project, which supports welfare organizations in Jeollanam-do, Incheon's Scholarship Support Project for Remote Islands, and Iksan City's Village Self-Governance Pension Solar Power Project to improve the lives of residents. Every year, we hold an oriental medicine health sharing event for the residents of Deoksan-eup, Jincheon-gun, and it has become an indispensable event for the local community.

Hansol Technics Community Support History

(Unit: KRW thousand)

Compania History	Scale (in thousand won)		
Support History	Spot	Cash	
Supporting Local Farmers (Produce: Shine Muskat)	2,500	131	
Electrical Safety Corporation Solar Module Support	8,344	439	
Support for solar modules in Iksan City	11,757	618	
KEPCO KPS Solar Module Support	15,549	818	
Supporting seniors living alone	1,000	-	
Helping disabled children (girls and boys)	-	400	
Deoksan-eup Oriental Medicine Event	-	20,000	

Environmental
Preservation:
ESG
Campaigns,
Beachcombing
& Waste
Electronics
Recovery

Tapex

Recognizing the seriousness of marine pollution and marine plastic waste, we executed beachcombing to protect the local environment and biodiversity with the participation of employees. Beachcombing refers to the act of picking up and collecting sea debris and garbage as if you were to comb a beach and was held three times at Gungpyeong Port in consultation with Hwaseong City, where the Tapex facility is located, with 62 employees participating. We also conducted a campaign to raise awareness of resource recycling through an agreement with the Korea Electronics Recycling Cooperative (KERC), collecting and donating waste electrical and electronic products such as used cell phones. The campaign not only involved Tapex, but also Hansol Chemical, raising ESG awareness.

Regular community service

Hansol Holdings

Every fourth Friday of each month, about 15 employees visit Eunpyeong Rehabilitation Center located in Eunpyeong-gu, Seoul, Korea, to take part in volunteer activities. In addition to repairing facilities and organizing donated items, Hansol Holdings employees also did face-to-face volunteer activities, such as visiting cafes and beauty salons near the rehabilitation center with residents. Hansol Holdings will continue to operate volunteer activities to interact with the local community, fulfill its social responsibilities and obligations, and practice the spirit of corporate sharing.

GOVERNANCE

Transparent Governance and Shareholder-friendly Management

The environmental and social aspects of ESG are promised, as long as exceptional governance is in place. A transparent governance is essential to a company's prosperous growth and can also prepare for the future to a certain extent. The board of directors (BOD) should show independence, professionalism, and diversity and make decisions where all stakeholders, including customers, shareholders, and suppliers are considered.

For the Sustainability

72

As the highest decision-making body, the BOD of Hansol Group appoints members with expertise to ensure transparent and independent decision-making. The BOD is equipped with a governance system that makes productive business possible throughout the company. Moreover in 2023, Hansol Holdings, Hansol Paper, Hansol Chemical, Hansol PNS, Hansol Technics, and Tapex paid cash dividends in accordance with the shareholder return policy. In particular, Hansol Technics was able to return cash dividends to shareholders for the first time in 12 years due to its strong performance. Hansol is also actively responding to ESG disclosure. In addition to Hansol Paper, which is obligated to disclose the Corporate Governance Report, six affiliated companies (Hansol Holdings, Hansol Technics, Hansol Chemical, Hansol Logistics, Hansol HomeDeco, and Hansol PNS) that are not obligated to also made voluntary disclosures. Meanwhile, to further enhance ESG management, Hansol Holdings established an ESG indicator management system used by all affiliates, conducted a comprehensive review and improvement of the risk management status of all affiliates through a risk survey, and implemented a holistic strategy for managing the group's financial and non-financial risks, including diagnosing compliance management, and identifying tasks.

Key Sustainability Issues

- - Hansol Holdings 2022 Dividend
 - 10.5%
 - Number of ESG indicators within Hansol Group
- Reviewed the risk management system of all Hansol Holdings affiliates and derived improvement plans

- Audit committees for seven publicly traded companies

- Hansol IONES established a committee to strengthen

- Hansol Holdings to pay a cash dividend of 120 KRW

- Hansol Holdings, Hansol Paper, Hansol Chemical,

Hansol PNS, Hansol Technics, Tapex Cash Dividends

- Hansol Paper announces 2023 year-end dividend plan

- Hansol Holdings Outside Directors 42.9% (2022)

management transparency

per share (3.5% payout ratio)

- Conducted compliance management diagnosis for all affiliates of Hansol Holdings
- Hansol Paper's seven areas of ESG-related nonfinancial risk management

73

A board of directors with independence and expertise

Continued

governance reports from

Disclosure of corporate

Key Performance

(voluntary disclosure from six companies)

Strengthen risk management systems and crisis response capabilities

shareholder advocacy

(as of May 2023)

1. A board of directors with independence and expertise

Establishing a Genuine and Rightful Governance Structure The BOD of Hansol Holdings is authorized to make decisions and control major management matters of the company in accordance with relevant laws and regulations and the Articles of Incorporation. A total of seven directors, four internal directors and three external directors, perform management decision-making and management supervision functions, in accordance with the regulation that external directors cannot serve more than six years within the board. The BOD will be subjected to review and advise on the most important topics from the materiality assessment to better engage in ESG management starting from August, 2023. In addition, in order to create an efficient internal accounting management system, the head of the finance team, who is the internal accounting manager, participates in the BOD as an internal director to enhance the effectiveness of the internal accounting management system and the transparency of the governance structure.

Board composition Status

Classification	Name	Gender	Duration	Background	
	Jae Hee Lee	Male	2015. 1. 2 ~ 2024. 3. 30	CEO of Hansol Holdings (current)	
Corporate	Dong Gil Cho	Male	1997. 2. 26 ~ 2024. 3. 30	Chairman, Hansol Group (current)	
Directors	Hoon Jeon	Male	2019. 3. 26 ~ 2025. 3. 29	Head of Finance and RM at Hansol Holdings	
	Min Hyuk Go	Male	2020. 3. 30 ~ 2023. 3. 29	Head of HR, Hansol Holdings	
	II Tae Son	Male	2018. 3. 29 ~ 2024. 3. 30	Professor Emeritus, Department of Trade, Kyung Hee University	
External Directors	Nam Woo Lee	Male	2020. 3. 30 ~ 2023. 3. 29	Visiting Professor at Yonsei University Graduate School of International Studies and Advisor to the Career Development Center	
	Chang Yeon Won	Male	2023. 3. 29 ~ 2026. 3. 29	Dongin Law Firm, Attorney at Law	

Ensure Board Diversity and Expertise

74

Hansol Holdings appoints internal directors with a high level of experience in related tasks to ensure expertise and diversity of the BOD and external directors are selected in accordance with relevant laws and guidelines of the corporate governance service. We exclude people who infringe on shareholder value or hinder independence and recommend candidates that are crucial for company growth, management activity advice, and compliance.

Board of Directors meeting in 2022

6
times total

Board attendance

100%

Board Evaluation, Remuneration System, and Payment The directors' renumeration can be set within the limit approved at the general shareholders' meeting, but the final decision is delegated to the BOD. At the general shareholders' meeting in 2022, the maximum amount of renumeration for directors was approved at KRW 4 billion and the actual amount paid was KRW 2.46 billion.

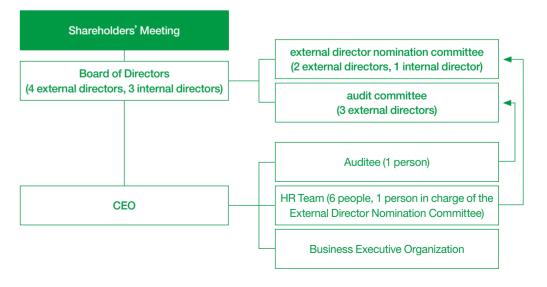
(Unit: Million KRW)

Classification	Personnel	Total Compensation	Average Compensation per Person	Remarks
Registered Directors (Excluding External Directors and Audit Committee Members)	4	2,301	575	4 Internal Directors
External Directors (Excluding Audit Committee Members)	-	-	-	-
Audit Committee Members	3	162	54	3 External Directors
Auditors	-	-	-	-

Establishment an audit committee and an external director nomination committee Hansol Holdings has established an audit committee and an external director nomination committee within the BOD. The audit committee is composed of three external directors and supervises the BOD and management by ensuring transparency in the auditing process. The committee also has an organization that supports productive work ethics. We have one person in charge of the external director nomination committee within the HR department to carry out the committee's work, and one person in charge of the Audit Department as a support organization to assist the audit committee in carrying out its work.

Board and committee organizational chart

(as of May 2023)



Jeong-Do Management Transparency Committee Operation

Hansol IONES

Hansol IONES has established the 'Jeong-Do Management Transparency Enhancement Committee' for Jeong-Do management and transparent governance. The committee, which consists of two or more external experts and one or more independent directors, meets on a quarterly basis to review the appropriateness of executives' corporate card details, review monthly payments of executives' remuneration, and review executives' transactions with stakeholders. Hansol IONES aims to pursue sustainable development by enhancing management transparency through the operation of Jeong-Do Management Transparency Enhancement Committee.

Corporate Governance Report Disclosure

76

Since 2022, disclosure of corporate governance reports has been mandatory for companies listed on the securities market with assets of KRW 1 trillion or more. Within Hansol Group, Hansol Paper falls under this category. However, Hansol Holdings, Hansol Technics, Hansol Chemical, Hansol Logistics, Hansol HomeDeco, and Hansol PNS, which are not subject to the disclosure obligation, are also voluntarily disclosing their corporate governance reports as well. This is partly in preparation for the change to be expanded to listed companies with assets of KRW 500 billion or more starting from 2024, and partly as an effort by Hansol to increase transparency in corporate management. Thanks to its efforts in voluntary disclosure since 2018, Hansol Group has also received positive feedback on ESG management.

2. Continuation of shareholder-friendly policies

Implement a mid- to long-term shareholder return policy Hansol Holdings regularly informs shareholders that the shareholder return policy is continuously implemented by posting details regarding the shareholder return policy including cash dividends, on its website, as well as in the IR materials issued every quarter and posted on the website. On May 13, 2022, Hansol Holdings resolved the <Shareholder Return Policy for '22~'24>, which includes maintaining the existing shareholder return policy ('19~'21) until '24 and announced it through fair disclosure. In the future, Hansol Holdings plans to continuously initiate predictability and enhance shareholder value related to dividend policy.

Dividend breakdown for the last three years

Category	unit	2020	2021	2022
Dividend per share – common stock	KRW	120	120	120
Market price dividend rate – common stock	%	3.3	3.4	3.5
Dividend total	Billion KRW	50	50	50
Dividend payout ratio	%	7.1	23.3	10.5

Returning to shareholders with a year-end dividend

Hansol Paper

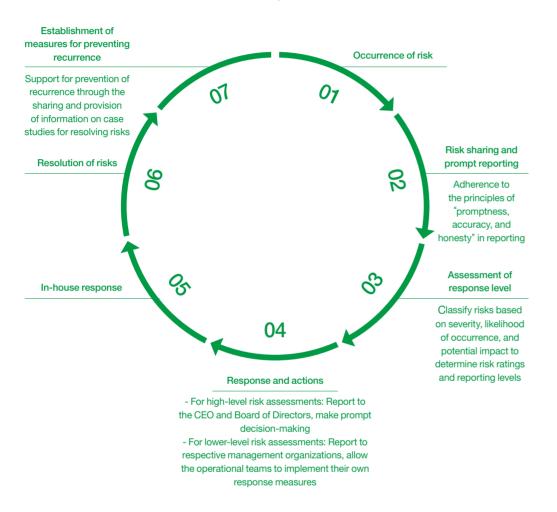
In its business report released in March 2021, Hansol Paper stated plans to utilize approximately 25-35% of its consolidated net profit towards the shareholder return policy. The consolidated cash dividend payout ratio was 29.1% in 2020 and 104.3% in 2021. Furthermore, Hansol announced its plan to pay a final dividend at the end of November, the end of the business year. At the end of 2022, the company announced a settlement dividend plan of KRW 500 per share based on the expected annual results for 2022 and confirmed a final dividend of KRW 500 and an interim dividend of KRW 200 per common share at the shareholders' meeting in March 2023.

3. Strengthen risk management systems and crisis response capabilities

Group Risk Response Process

78

Hansol Group always monitors the occurrence of each risk to effectively respond to major risks. In the event of an accident, we promptly and accurately share it internally to respond immediately, and we have established a risk response process to categorize and manage risks that have a significant impact on business operations. For risks that have already occurred, we consider measures to prevent recurrence and for a more effective risk response manual. In particular, as a holding company, Hansol Holdings extensively checks the status of risk management through a risk survey for all affiliates and collaborates with affiliates from time to time on areas that need improvement.



Risk Assessment Procedure

Hansol PaperTech

Hansol PaperTech registers, manages, and improves major harmful and hazardous factors and risks in order to minimize the possibility of accidents and maintain a safe and pleasant working environment. The CEO, CSO, factory manager, management executives, safety team leader, safety managers, and team leaders (supervisors) have responsibilities and authority for this. All employees are required to participate in risk assessments and establish measures to reduce risks.

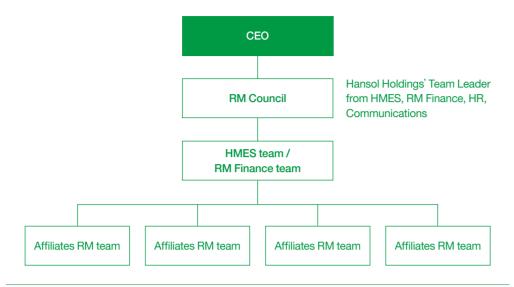
Category	Responsible	Period	Job Duties
Review of Risk Assessment	Assignment by Team	Once a year	Identifying risk factors that may impact occupational health and safety and identifying critical tasks associated with major risks.
Risk Monitoring	Assignment by Team	Initial: Equipment Introduction Regular: Once a year Initial: Anytime	Conducting Risk Assessment based on Identified Risk Factors
Assessment and Improvement	Safety Team	Once a year	Verification of the Adequacy of Risk Assessment Results
Conducting Risk Assessment	Assignment by Team	Anytime	Establishment and Implementation of Improvement Plans for Critical Tasks and Risk Factors with a Risk Rating of 8 or above
Identification/Review of Risk Factors	Assignment by Team	Initial: Equipment Introduction Regular: Once a year Initial: Anytime	Sharing of risk assessment results with all members

Risk Reporting System

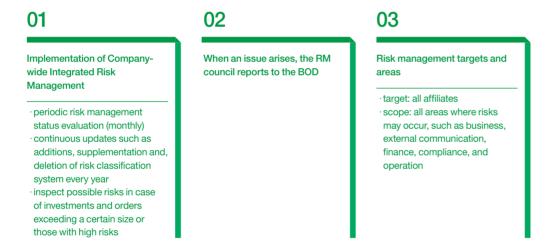
80

Hansol Holdings effectively responds to changes in the internal and external business environment by establishing a risk management council organization and reporting system including the CEO and executives for periodic risk inspection and rapid response.

Reporting Structure



Management Process



^{*} Regular and occasional monitoring of internal and external business environment changes (for each affiliate)

Group Risk System by Category

C	ategory	Level 1	Level 2	Level 3
				Political/Legal
				Economic
		Markets/ Customers	Trend (PESTEL)	Social
		Oustomers	(I LOTEL)	Technological
				Environmental
				Business model validation
		Equity investments	Business models	Scalability and visioning
	Business		Drafting	Laws and regulations
				Project structure
				Complaints
Financials		Orders	Project	Contractual hidden clauses
				Construction/Delivery Period
				Quality/Performance Assurance
		Property rights	Intellectual Property Infringement	Patents/Trademarks
		Market	Currency exchange rates	-
			Interest Rate	-
	Financials	Liquidity	Funding	-
		Liquidity	Profit or loss	
		Taxes	Taxes	
		Credit	Credit rating	
		Environment/ Safety	Environment	Climate Change, Carbon Emissions
			Safety	Safety incidents
	Compliance			Legal
	Compilarioc		Negative	
		Compliance	Disclosures	-
			Unethical behavior	-
		Security		
Non- financial		Human Resources		
Risk	Operations	Supply chain		
	Operations	Quality/ Certification	-	-
		Receivables Management	-	-
		Crisis response	Brand	Image (reputation) damage
	External	Brand	Harm to brand equity	CI misuse
	Communication	Markets/ Shareholders	IR	-

Review risk management system and implement improvements In 2022, Hansol Group conducted a risk survey based on the 'Group Risk Classification System' for all affiliates to comprehensively check the status of risk management and define improvement processes for outstanding items. Through the survey, Hansol Holdings' HMES and Finance RM teams will review investments and orders that are subject to group investment/order consultation or have the potential to generate risks, item by item, with affiliates. In March 2023, we will check and report on the implementation of the improvement process for the items that are insufficient during the process and track the implementation status. Going forward, Hansol will update the risk items that need to be added, supplemented, or deleted through regular checks every January to prevent risks from occurring and enhance the sustainability integration.

Conduct a compliance audit

82

Since 2021, Hansol Group has diagnosed the compliance management status of each affiliate. The five categories of compliance leadership, planning, execution and support, internal inspection, and supplementation/improvement were measured and analyzed. Based on the results of the diagnosis through interviews with employees and analysis of relevant data, we were able to derive specific action tasks for each affiliate. With compliance management as the foundation of sustainable management, Hansol Group will strive to spread compliance awareness among employees, reduce legal and regulatory risks, and systematize compliance management.

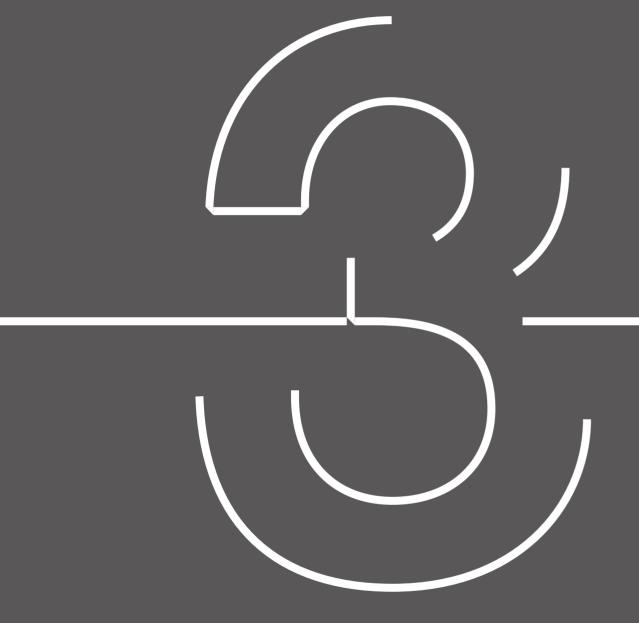
Roadmap to strengthen compliance management by affiliate

Hansol Paper	Hansol Technics	Hansol Home Deco
· Risk awareness/lead improvement activities of field workers (direct, partner, and subsidiary companies) · Stabilize subsidiary compliance systems and operations	Establish/operate a compliance management system for overseas subsidiaries and affiliates Strengthen environmental risk management Improve safety and environmental incident prevention practices in the field	· Strengthen risk management for fair trade, subcontracting, internal controls, and more
Hansol Logistics	Hansol PNS Tributary Distribution	Hansol PNS IT Service Division /Hansol Inticube
Strengthen compliance and self-checks for subsidiaries Strengthen accident prevention management for carriers and suppliers	Enhance education and communication to strengthen organizational commitment to compliance.	Enhance education and communication to strengthen organizational commitment to compliance. Stabilize subsidiary compliance systems and operations

Establishment of the ESG Indicator Management System Hansol Group has established an 'ESG Indicator Management System' to carry out a more systematic and efficient sustainability management which all affiliates are currently using since January 2023. In the case of environmental data, which is essential for risk management due to the nature of the industry, we set up accurate measurement guidelines with the advice of the Korean Standards Association. Through integrated ESG data management, Hansol aims to become a leading company in sustainability management.

ESG Indicator Management System Content

Main Content	Sub-Content	Content Summary		
ESG indicator	Indicator Pool	Select and manage indicators based on importance usability, representativeness, clarity, urgency, etc., among 1000 evaluation items		
management	Indicator classification management	from global disclosure guidelines (GRI, TCFD ASB) and domestic and other ESG institutions		
	Selection of indicators by industry			
ESG indicator selection	Affiliates industry definition	Composed of 2 ESG inspection processes: · inspection of all affiliates on 60 common indicators · industry group index according to each affiliates' operating business		
	Affiliate index management			
	Create a measurement plan	· provide current status so that indicators of all affiliates can be compared		
ESG verification	Perform indicator check	a glance continuous data management through data management cycle and		
	Payment of measurement results	designation of person in charge		
ESG statistics	3 year indicator performance	· Compare and manage ESG data entered by each company for up to 3		
ESG STATISTICS	Indicator performance by company	years for each indicator		
Notice board	Announcements	· Announcements and sharing of information for employees within the ESG		
Notice board	Q&A	field		



- Appendix -

86	Materiality Assessment	118	Certification Status of Affiliate
88	Data Center	119	Award History

12 GRI Content Index 120 Domestic Business Sites

UN Sustainable Development Goals (SDGs)
 3rd Party Assurance Statement

MATERIALITY ASSESSMENT

Hansol Group selects key issues by analyzing the interests of stakeholders, at home and abroad, and their impact on business. The Materiality assessment is 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 a total of 10 key issues and disclose our management approach and achievements on key issues by publishing this report.

Materiality Assessment process

In order to determine the core reporting content of the sustainability report and identify sustainability management issues to focus on, we conducted a Materiality assessment through the following four steps in accordance with the GRI (Global Reporting Initiative), a global sustainability reporting guideline.

Step 1. A Basic issue pool

- Analysis of press releases, data, and global trends from January 2022 to March 2023
 Analysis of issues of 15 rivals
- and relevant businesses at home and abroad
- Response to international standards, such as ISO 26000 and GRI Standards, ESRS General Requirements, and compliance with ESG evaluation criteria
- such as KCGS and MSCI.
- · Identification of 28 sustainability management issues

86

Step 2. Materialist Assessment

- · Assurance of compliance with international standards for the issue pool and stakeholder interests
- · Identification of key issues through stakeholder surveys · Assessment of the materiality
- of each key issue
 Selection of 10 material issues

Step 3. Key issue management

- · Identification of risks/opportunities in relation to the key issues identified
- Management of related activities and performance and onthe-job body management
 Strategic task setting in prepa-

ration for external evaluation in

Step 4.

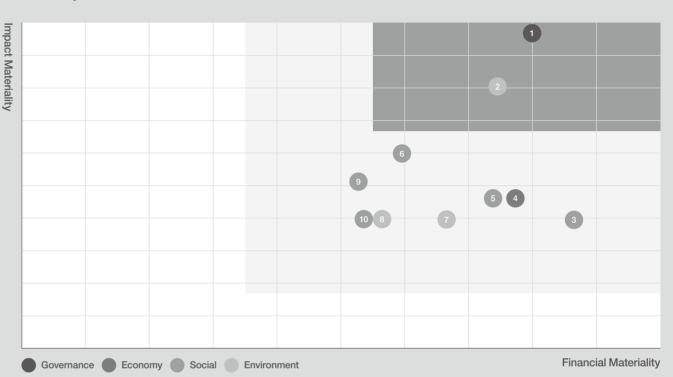
Monitoring and reporting

- Sustainability report making and filing
- · Report on the organization of major affiliates and feedback
- Disclosure of the report online and offline and to stakeholders

Channels of communication with stakeholders

Stakeholders	Channels of communication				Issues of interest
Employees	Communication with management Investor presentation		Labor-management Council Employee portals Employee training Workshop		Fair compensation, safe working environment, mid- to long-term vision, professional training, Employee communication, employee benefits, management-labor relations
Subcontractors	Meetings Workshops for mutual growth Mutual growth council		· Surveys · Mutual growth day		Mutual growth, win-win business management, sustainable business management
Shareholders and investors	General meetings Marketing brochure Investor meetings Calls for candidates of outside directors		Disclosure, business performance presentation Investor blitz Sustainability management reports 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 Collaborative program			· · 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 public policy, workplace safety compliance
Customers	Website YouTube Customer satisfaction surveys	· Blog · Brochures · Customer even	ts	FacebookAdvertising videosExhibitions, fairs	Quality and service improvement, customer communication, brand value
Local community/ NGO	Corporate social responsibility (C Communication with local comm Sustainability management repo	nunities near work	sites		Reduction of waste water and waste, pollutant management in the work sites, job creation and maintenance, CSR activities, development of the local economy

Materiality Assessment results



Reports on key issues as a result of the Materiality Assessment

Classification	Key issues	GRI CONTENT INDEX	Report contents	Page
Governance	1 Ethical management and anti-corruption	GRI 3-3, GRI 205-2	Ethical management	p.22~24, 34, 81~83
Environment	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	Increase of 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	Over the cities are a large	p.20, 64, 66, 67
Social	Employee competency development support	GRI 3-3, GRI 404	Growth with employees	p.62, 63
Environment	Reduction of raw material usage and expansion of recycling	GRI 3-3, GRI 306-4	GHG-emissions reduction and energy conservation	p.21, 54, 58, 59
Environment	Safe waste, wastewater, and chemical discharge management	GRI 3-3, GRI 303-2	Environmental pollutants and waste management	p.21, 56
Social	Building a flexible organizational culture	-	Growth with employees	p.65~67
Social	10 In-house human rights policy & 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 p	rofit		10,963	13,304	16,279
Income	Financial inc	ome	KRW	412	964	1,470
statement	Financial co	sts	million	367	406	1,036
	Other incom	e		10,194	2,233	248
	Other costs			30	63	2,769
		before the deduction tax Expenses		30 63 2,769 21,171 16,031 14,190		
	Assets	Current assets		56,289	64,779	73,919
Statement	Assets	Non-current assets	LCDIAL	381,185	386,883	382,738
of financial	Liabilities	Current liabilities	KRW million	9,160	9,394	10,299
position	LIADIIILLES	Non-current debt	111111011	1,279	29,323 16,019 13,304 964 406 2,233 63 16,031 64,779 386,883	6,566
	Capital			427,035	434,896	439,792

(Based on standalone financial statements)

88

Social						
Category			Unit	2020	2021	2022
No. of emplo	yees Unit		Employees	47	50	46
		Total		11	10	8
	Executives	Female	_	0	0	0
Current		Male		11	10	8
employees		Total		35	39	36
(by	Full-time	Female	Employees _	6	9	10
employment type)		Male	_	29	30	26
туреј	Non-regular	Total	_	1	1	2
	worker	Female	_	0	0	1
		Male		1	1	1
	human resour	ces	Employees		0	0
Current em-	Full-time		Employees -	44	47	44
ployees (by work type)	Part time			3	3	2
Current employees	Local		Employees -	45	47	44
(by work location)	Overseas			2	3	0
	No. of male e	mployees	Employees	41	41	35
	Ratio of male	employees	%	64	66	65
	No. of female	employees	Employees	6	9	11
	Ratio of fema	le employees	%	13	18	24
	No. of male e	xecutives	Employees	11	10	8
	Ratio of male	executives	%	23	20	17
	No. of female	executives	Employees	0	0	0
	Ratio of fema	le executives	%	0	0	0
	No. of female (manager lev		Employees	1	1	3
	Ratio of fema (manager lev		%	2	2	6.5
		No. of people with disabilities	Employees	0	0	0
Employee		Ratio of employees with disabilities	%	0	0	0
diversity		No. of senior employ- ees (over 55 years old, excluding executives)	Employees	0	0	5
	Recruit-	Ratio of senior employees	%	0	0	11
	ment of the socially	No. of foreign employ- ees	Employees	2	3	2
	disadvan- taged	Ratio of foreign employees	%	4	6	4
		No. of high school graduates	Employees	1	1	2
		Ratio of high school graduates	%	2	2	4
		No. of national veterans	Employees	0	0	0
		Ratio of national veterans	%	0	0	0

Category			Unit	2020	2021	2022
		No. of employees (Under 30 years)	Employees	0	0	1
		Ratio of employees (Under 30 years)	%	0	0	2
Employee	Ratio of	No. of employees (30- 50 years)	Employees	35	36	35
diversity	employees	Ratio of employees (30-50 years)	%	74	72	76
		No. of employees (Over 50 years)	Employees	12	14	10
		Ratio of employees (Over 50 years)	%	26	28	22
	Male		_	9 _	11	6
Recruit-	female		_	2	3	2
ment of new		Under 30 years	Employees	0	0	1
employees	By age	30-50 years	_	10	13	7
		Over 50 years		1	1	0
		Average of male earnings	KRW	135	139	196.1
		Average of female earnings	million	55	75	67.6
		the ratio of male to female's basic salary	%	40	53	34
Compen- sation of Employee		Average compensation of male executives	KRW	-	-	446.43
		Average compensation of female executives	million	-	-	0
	Gender- based base	the ratio of male executive to female executive's basic salary	%	-	-	0
	salary and compensa-	Average of regular male earnings	KRW	-	-	117.21
	tion	Average of regular female earnings	million	-	-	71.88
		the ratio of regular male to regular female's basic salary	%	-	-	61
		Average of contractual male earnings	KRW	-	-	82.54
		Average of contractual female earnings	million	-	-	24.7
		the ratio of contractual male to contractual female's basic salary	%	-	-	30
	Average tenu	ire	Years	9.5	9	9.7
Job	Total number of job changers		Employees	-	-	13
security	Voluntary ret	irement rate		-	-	69.2
	Involuntary re	etirement rate	% -	-	-	30.8
	No. of benefi	ciaries of education	Employees	47	50	46
	Total budget training	for employee	KRW million	29	17	19.9
Talent develop- ment	Training expe	enses per employee	KRW thousand	627	358	433
	Total hours for	or employee training		2,947	1,794	1,098
	Average train employee	ing hours per	Hours	54	49	23.87
	No. of indust occurred	rial accidents	Agendas	0	0	0
Industrial	Industrial acc	cident rate	%	0	0	0
accidents	No. of deaths	3	Employees -	0	0	0
	No. of injured			0	0	0
		ork-hour loss	Hours	0	0	0
	No. of fair tra	de law violations	Incidents	0	0	0
Fair trade	Fines impose	ed	KRW million	0	0	0
Information security breaches	No. of custor and loss	mer data leak, theft,	Incidents	0	0	0
Complaints on discrimi- nation in the workplace	No. of compl discriminatio filed and han	n in the workplace	Incidents	0	0	0

Category			Unit	2020	2021	2022
Violations	No. of penaliz for regulatory	ed or sanctioned violations		0	0	0
of Regulations and Self-	No. of receiving regulatory vio	ng warnings for lations	Incidents	0	0	0
Regulatory Guidelines		g internal self- idelines within the		0	0	0
Labor losses	No. of labor lo subcontracto		Incidents	-	-	0
	Employees	Total		-	-	0
	who have	Male	_	-	-	0
	taken pa- rental leave	Female		-	-	0
	No. of employees	Total	Employees	-	-	1
	who have returned to work after	Male	_	-	-	0
	parental leave	Female		-	-	1
Parental leave	Ratio of employees who have returned to work after parental leave		%	-	-	100
	No. of em- ployees who have worked	Total		-	-	0
	over 12 months after	Male	Employees	-	-	0
	returning from paren- tal leave	Female		-	-	0
	Ratio of employees who have worked over 12 months after returning from parental leave		%	-	-	0
	Duration of education for human rights		Hours	43	50	46
Human rights	Duration of exprevention of	ducation for workplace bullying	Total -	43(1)	49(1)	46(1)
policies and procedures	harassment p		hours (per em	43(1)	49(1)	46(1)
	Other education (Human rights education for people with disabilities, etc.)		ployee)	43(1)	49(1)	46(1)
	Investment in CSR	Cash donation	KRW _	20	10	10
	(including donations)	In-kind donation	million	0	0	0
CSR	Duration of vo	olunteer work		-	480	564
	Duration of vo	olunteer work per	Hours	-	9.6	12
	Direct and incof the suppor	direct beneficiaries	Employees	-	250	406

^{*} Industrial accident rate: (Number of injured workers/ Number of workers subject to industrial accident)×100
All affiliated companies are the same, based on Hansol Holdings
* Base salary ratio: Calculated based on the average compensation
All affiliated companies are the same, based on Hansol Holdings
* Parental leave: The 2020 and 2021 data are not included as they pertain to the new disclosure starting in 2022

Governance

Category		Unit	2020	2021	2022
	No. of BOD meetings	Meeting	9	7	6
	No. of agenda items	Agenda	22	15	13
	Preliminary deliberation	%	100	100	100
BOD	Decisions on revised agenda	A	0	0	С
Structure	Report agenda	Agenda -	10	8	8
	BOD attendance rate		98.4	100	100
	Non-executive director attendance rate	%	100	100	100
	Male		7	7	7
	Female	Employees -	0	0	C
	Ratio of female directors	%	0	0	C
BOD	Under 30 years		-	-	C
Diversity	30-50 years		-	-	C
	Over 50 years	Employees -	-	-	7
	No. of external directors	_	-	-	3
	Ratio of external directors	%	-	-	43
	No. of board members who have received ethics training	Employees	7	7	7
	Ratio of board members who have received ethics training	%	100	100	100
	No. of employees who have received ethics training	Employees	47	50	46
Anticor- ruption	Ratio of employees who have received ethics training	%	100	100	100
policy and procedures	No. of board members who have signed the ethics pledge	Employees	7	7	7
	Ratio of board members who have signed the ethics pledge	%	100	100	100
	No. of employees who have signed the ethics pledge	Employees	45	47	46
	Ratio of employees who have signed the ethics pledge	%	96	94	100
Anticor- ruption violations	No. of violations of anticorruption laws	Incidents (employ- ees)	0	0	С

^{*} New disclosure indicators for 2022: Age distribution of board members All affiliated companies are the same, based on Hansol Holdings

Hansol Paper

Economy

Category			Unit	2020	2021	2022
	Sales			1,509,871	1,834,224	2,457,953
	Gross reven	ue		300,684	361,179	572,466
		Selling, general, and administrative expenses		206,123	300,451	442,241
	Operating profit			94,561	60,728	130,226
Income statement	Financial income		KRW million	10,165	4,090	12,561
Statement	Financial costs		THIIIIOTT	26,282	28,022	45,852
	Other income			1,509,871 1,834,224 2,45 300,684 361,179 572 206,123 300,451 442 94,561 60,728 130 10,165 4,090 12 26,282 28,022 44 13,530 16,429 44 72,189 28,746 99 567,002 663,678 1,00 1,173,433 1,224,155 1,20 618,262 727,426 1,08 487,310 481,074 381 634,821 679,292 743	48,250	
	Other costs				24,479	49,357
	Net income before the deduction of corporate tax Expenses			72,189	28,746	95,828
		Current assets		567,002	663,678	1,007,797
	Assets	Non-current assets		1,173,433	1,224,155	1,202,219
	Liabilities	Current liabilities		618,262	727,426	1,082,342
Statement		Non-current debt		487,310	481,074	385,130
of financial position	0	Equity interest of parent company shareholders	KRW million	634,821	679,292	742,419
	Capital	Equity interest of non-controlling shareholders		41	41	125
Research and devel-	Total R&D ex current perio	xpenses for the od	KRW million	5,870	6,321	8,769
opment	R&D expens	ses as a ratio of sales	%	0.52	0.48	0.36
status	Number of F	R&D personnel	Employees	33	49	55

(Based on standalone financial statements)

Category			Unit	2020	2021	2022
Consumption materials	n of Raw	Raw materials consumed	Metric Ton/year	1,165,645	1,222,487	1,211,504
that contain	n of materials	Amount of recycled materials (reused raw materials) consumed	Metric Ton/year	579,830	587,022	562,309
materials		Ratio of recycled materials (reused materials) consumed	%	49.7	48.0	46.4
	T-4-1	Total energy consumption		15,753	16,488	16,968
Energy consumption	Total energy consump- tion	Scope 1 energy consumption	TJ	2,358	2,347	2,176
		Scope 2 energy consumption		13,395	14,141	14,792
	Total water consumption Water reuse	Total water con- sumption	Metric Ton/year	23,735,541	26,733,756	30,530,836
		Amount of water consumed		6,076,727	7,276,014	6,181,350
Water con- sumption (Based on local use)		Amount of underground water consumed		280,915	199,624	253,947
		Amount of Surface water		9,098,761	9,923,582	10,866,778
		Amount o 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	%	35	35	32
Green-	Emission	Direct emissions (Scope 1)	tCO ₂ eq	341,087	296,456	303,070
house gas emissions	amount	Indirect emissions (Scope 2)	1002eq	587,461	626,738	725,892
		SOx		2.3	0.8	15
Emission of air pollut-	Emission	NOx	Metric	89.9	73.7	8,982
ants	amount	HCI	Ton/year	5.4	5.4	520
		PM		8.4	14.7	184
Emission		BOD		9	8	27
of water	Emission amount	COD	ppm	32	31	74
pollutants	arriount	SS		13	11	95
	Total waste disposal amount (treatment	Total waste disposal amount (treatment amount, domestic standard)	Makin	250,523	235,754	346,280
	amount,	Industrial waste	Metric Ton/year	235,648	220,428	323,015
Waste	domestic	Designated waste	210,9000	2,332	2,172	5,317
	standard)	Municipal waste		12,543	13,154	17,947
	Waste	Recycling amount		134,457	122,424	134,559
	recycling rate	Waste recycling rate	%	37.3	40.0	40.0

Category		Unit	2020	2021	2022
Violation of environmental laws and regulations	Amount of fines	KRW million	3	2	0
Environmental expenditure and investment	Environmental protection investment	KRW million	5,600	6,000	1,488
	Eco-friendly product sales	KRW	-	-	146,470
Eco-friendly product sales	Sales	– million	-	-	207,801
Saiso	Ratio of eco- friendly sales	%	-	-	70.5

^{*}Total energy consumption in 2021: Discrepancies in data may occur due to differences between the reporting date and the data collection period.

*Water pollutant emissions: retrieved from Hansol Paper's ESG Report.

*Emissions increase due to expansion with the joining of Environment Business headquarters.

Social

Category			Unit	2020	2021	2022
No. of emplo	yees Unit		Employees	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-	Full-time	Female	Employees _	101	99	129
ment type)		Male	-	1,067	1,077	1,464
	Non-regular	Total	-	18		64
	worker	Female	-	6 4	14	
		Male		12	12	50
	human resour	ces	Employees	0	0	0
Current em-	Full-time		Facilities =	1,168	1,186	1,575
ployees (by work type)	Part time		Employees =	0	0	0
Current employees	Local		Employees -	1,178	1,192	1,639
(by work location)	Overseas		Employees	8	10	18
	No. of male e	mployees	Employees	1,078	1,089	1,514
	Ratio of male	employees	%	90.4	90.6	91.4
	No. of female		Employees	107	113	143
		le employees	%	9.6	9.4	8.6
	No. of male e		Employees	27	24	24
	Ratio of male		%	2.2	1.9	1.7
	No. of female		Employees -	0	0	0
		le executives	<u>%</u>			0
	level or highe		Employees	180	197	288
	level or highe	Ratio of Male managers (manager level or higher)		15.1	16.3	17.3
	No. of female managers (manager level or higher)		Employees	3	5	8
	Ratio of female managers (manager level or higher)		%	0.3	0.4	0.4
	Recruit- ment of the socially disadvan- taged	No. of people with disabilities	Employees	30	34	43
Employee diversity		Ratio of employees with disabilities	%	2.5	2.8	2.9
		No. of senior employees (over 55 years old, excluding executives)	Employees	21	25	24
		Ratio of senior employees	%	1.8	2.1	1.5
		No. of foreign employees	Employees	162	176	254
		Ratio of foreign employees	%	14	15	15
	Ratio of	No. of high school graduates	Employees -	763	702	917
	employees	Ratio of high school graduates	%	64	58	55
		No. of national	Employees	251	324	486
		Ratio of national	%	21	27	29
	Male	veterans		73	114	211
	female		-	15	114	26
Recruit-	lemale	Llanda a OO	-			
ment of new employees		Under 30 years	Employees	51	89	124
opioyees	By age	30-50 years	_	32	43	75
		Over 50 years		4	2	0

Category			Unit	2020	2021	2022
		Average of male		75	73	90
		earnings Average of female	KRW million			
		earnings		49	49	64
		the ratio of male to female's basic salary	%	65	67	72
	Gender- based base salary and compensa-	Average compensation of male	L/DW	-		338
		Average compensation of female	KRW million			(
		the ratio of male				
Compen-		executive to female executive's basic salary	%			(
sation of Employee		Average of regular male earnings	KRW			61
	tion	Average of regular female earnings	million			48
		the ratio of regular male to regular female's basic salary	%	-	-	78
		Average of contractual male earnings	KRW	-	-	43
		Average of contractual female earnings	million	-	-	26
		the ratio of contractual male to contractual fe- male's basic salary	%	-	-	61
	Average tenu		Years	17.6	17.5	15.8
Job security	Total number	r of job changers	Employees	74	111	182
security	Voluntary ret	irement rate	%	3.4	6.0	8.7
	No. of beneficiaries of education		Employees	1,186	1,202	1,657
	Total budget for employee		KRW	542	986	1,226
Talent de-	training		million			.,
velopment		enses per employee	KRW thousand	476	820	740
	employee	ning hours per	Hours	61	53	51
	occurred	rial accidents	Agendas	7	5	3
Industrial	Industrial acc		%	0.82	0.57	0.28
accidents	No. of deaths		Employees		0	(
	No. of injured			7	5	3
	Duration of v	vork-hour loss Total number of	Hours Number	1,001	1,027	9,336
Mutual growth	Supplier status	Total amount of purchases from	KRW	173,727	193,016	246,200
		suppliers	million			
Faintenada	No. of fair tra	de law violations	Incidents	0	0	(
Fair trade	Fines impose	ed	KRW million	0	0	(
Information security breaches	No. of custor and loss	mer data leak, theft,	Incidents	0	0	(
Complaints on discrimination in the workplace	No. of compl discrimination filed and han	n in the workplace	Incidents	0	0	(
Violations	No. of penali	zed or sanctioned y violations		1	0	(
of Regulations and Self-	No. of receiv regulatory via	ing warnings for olations	Incidents	0	1	(
and Self- Regulatory Guidelines		ng internal self- uidelines within the		0	0	(
Labor	No. of labor l	osses in	Incidents			(

Category			Unit	2020	2021	2022
	Employees	Total		1	2	4
	who have taken pa-	Male		0	1	(
	rental leave	Female		1	1	4
	No. of employees who have	Total	Employees	1	6	4
	returned to work after	Male		0	1	С
	parental leave	Female		1	5	4
Parental eave	Ratio of employees who have returned to work after parental leave		%	100	100	80
	No. of em- ployees who have worked	Total		10	6	4
	over 12 months after	Male	Employees	2	1	0
	returning from paren- tal leave	Female		8	5	4
	worked over	oyees who have 12 months after n parental leave	%	100	100	100
	Duration of ed	ducation for human son)	Hours	3.08	5.82	3.33
Human rights	Duration of ed tion of workp	ducation for preven- ace bullying	Tatal	1,185(1)	1,202(1)	1,788
policies and procedures	harassment p		Total hours (per em-	1,185(1)	1,202(1)	1,732
	Other educate education for disabilities, et		ployee)	1,185(1)	1,202(1)	1,620
	Investment in CSR (including donations)	In-kind donation	KRW million	307	336	328
CSR	Duration of vo	olunteer work	Lleure	3,000	115	230
	Duration of vo	olunteer work per	Hours, Employees	906	40	57
	Direct and incof the suppor	direct beneficiaries t programs	Employees	491	360	700

Cases of Violation of Regulations and Voluntary Guidelines 1. Sanction by Judicial Authority in 2020: 17 million KRW 2. Sanction by Tax Authorities in 2021: 3,814 million KRW

Governance

No. of BOD meetings Preliminary deliberation BOD attendance rate	Unit Meeting %	2020 13	2021	2022
Preliminary deliberation		13	8	
	%		0	11
BOD attendance rate		100	100	100
	%	97.80	100	100
Male		7	8	8
Female	Employees	0	0	0
Ratio of female directors	%	0	0	0
Under 30 years			-	0
30-50 years		-	-	0
Over 50 years	Employees		-	8
No. of external directors		3	3	5
Ratio of external directors	%	11	12.5	20.8
Total number of business facilities		6	6	6
Number of business facilities assessed for corruption risk	Number	6	6	6
Ratio of business facilities assessed for corruption risk	%	100	100	100
No. of board members who have received ethics training	Employees	7	8	8
Ratio of board members who have received ethics training	%	100	100	100
No. of employees who have received ethics training	Employees	1,185	1,202	1,661
Ratio of employees who have received ethics training	%	100	100	100
No. of board members who have signed the ethics pledge	Employees	7	8	8
Ratio of board members who have signed the ethics pledge	%	100	100	100
No. of employees who have signed the ethics pledge	Employees	-	1,139	1,657
Ratio of employees who have signed the ethics pledge	%	-	94.7	98.9
No. of violations of anticorruption laws	Incidents (employ- ees)	0	0	0
	Female Ratio of female directors Junder 30 years 30-50 years 30-50 years 30-50 years 30-50 years 30-50 years 30-60 years 30-60 external directors Ratio of external directors Ratio of external directors Ratio of external directors Situal number of business facilities sussessed for corruption risk Ratio of business facilities sussessed for corruption risk No. of board members who have eccived ethics training Ratio of board members who have received ethics training No. of employees who have eccived ethics training Ratio of employees who have eccived ethics training No. of board members who have signed the ethics pledge No. of employees who have signed the ethics pledge No. of employees who have signed the ethics pledge No. of employees who have signed the ethics pledge No. of violations of anticorruption	Employees Ratio of female directors Ander 30 years Sou-50 years Sou-50 years Sou-50 years Ratio of external directors Ratio of business facilities Ratio of board members who have Ratio of board members who have Ratio of employees who have Ratio of board members who Ratio of corruption places Ratio of corruption places Ratio of corruption femployees Ratio of	Employees 0 Ratio of female directors 9% 0 Joher 30 years	Female Employees 0 0 0 Ratio of female directors % 0 0 0 Index 30 years

Sustainability Essentials 90 2023 Hansol Group Sustainability Report Introduction Hansol Sustainability Action Appendix 91

Hansol PaperTech

Economy

Category			Unit	2020	2021	2022
	Sales			100,216	134,802	130,363
	Gross revenue			11,406	15,954	16,222
Income statement	Selling, general, and administrative expenses			9,005	9,840	10,814
	Operating profit		LCDVA	2,401	6,113	5,408
	Financial income		KRW million	221	127	194
	Financial costs		THIIIIOTT	777	359	336
	Other income			98	322	1,011
	Other costs			968	854	526
	Net income before the deduction of corporate tax Expenses			975	5,350	5,751
	Assets	Current assets		22,734	27,362	29,294
Statement	Assets	Non-current assets	LCDVA	48,116	48,115	49,235
of financial position	Liebilities	Current liabilities	KRW million	24,582	25,948	22,512
	Liabilities	Non-current debt	1111111011	3,417	2,170	1,726
	Capital			43,461	47,358	54,290

(Based on standalone financial statements)

92

Environm	ent					
Category			Unit	2020	2021	2022
Consumption materials	n of Raw	Raw materials consumed	Metric Ton/year	303,368	333,932	292,719
that contain	n of materials	Amount of recycled materials (reused raw materials) consumed	Metric Ton/year	300,017	332,722	270,925
materials		Ratio of recycled materials (reused materials) consumed	%	98.9	99.6	92.6
Enormy	Total anaray	Total energy consumption		1,168	1,235	1,449
Energy consump- tion	Total energy consump-tion	Scope 1 energy consumption	TJ	380	450	352
		Scope 2 energy consumption		788	785	1,097
		Total water consumption	Metric Ton/year	2,218,918	1,969,116	1,433,016
	Total water consumption	Amount of water consumed		6,503	5,475	9,227
Water consumption (Based on		Amount of underground water consumed		512,483	230,372	1,152,055
local use)		Amount of stream water consumed		1,352,722	1,458,720	271,734
	Water reuse	Amount of water reused		347,210	274,549	38,449
		Water reuse ratio	%	15.6	13.9	2.7
Green-	Emission amount	Direct emissions (Scope 1)	tCO2eq	68,949	38,275	75,061
house gas emissions		Indirect emissions (Scope 2)		75,695	37,554	35,059
		SOx		4.07	3.9	2.16
emission of	Emission	NOx		38.89	39.32	26.77
air pollut- ants	amount	PM	kg	1.75	2.25	1.56
		PFC		0	0	245,736
		BOD		3.7	15.4	1.8
emission	Emission	TOC		-	-	20.2
of water pollutants	amount	SS	ppm	5	5.2	4.1
politicanto		TN		8	5.5	4.5
	Total waste disposal amount (treatment	Total waste disposal amount (treatment amount, domestic standard)		21,749	18,902	11,665
	amount.	Industrial waste	Metric Ton/year	19,563	16,772	9,935
Waste	domestic	Designated waste	1011/ y Cui	2,186	2,130	1,730
	standard)	Municipal waste		0	0	0
	Waste	Recycling amount		6,289	3,100	3,147
	recycling rate	Waste recycling rate	%	28.9	16.4	26.9
Environ- mental	Environ-	Environmental investment cost	KRW	647	543	932
expenditure and invest- ment	mental protection investment	Environmental management cost	million	4,470	4,756	6,248

Social

	11.00		F 1	2020	2021	2022
No. or emplo	yees Unit	T	Employees	131	142	143
		Total	_	4		4
	Executives	Female	_			0
Current		Male Total	_	120	124	124
employees	Full-time	Female	Employees -	4	4	4
(by employ-	i dii-tiirie	Male	Lilipioyees _	116	120	120
ment type)		Total	-	4	11	13
	Non-regular	Female	-	0 -	0	0
	worker	Male	-	4	11	13
Outsourced I	human resour		Employees	3	2	2
Current em-	Full-time			131	142	143
ployees(by work type)	Part time		Employees —	0	0	0
Current employ-	Local			131	142	143
ees(by work location)	Overseas		Employees —	0	0	0
	No. of male e	mployees	Employees	124	136	137
	Ratio of male		%	94	95	97
	No. of female		Employees	7	6	4
		ale employees	%	6		3
	No. of male e		Employees			4
	Ratio of male		%	100	100	100
	No. of female			0	0	0
		e executives	Employees _			0
		nanagers (manager	Employees —	-	-	26
		managers (manager	%	-	-	18
	No. of female (manager lev	managers	Employees	1	1	1
	Ratio of fema (manager lev	le managers	%	1	1	1
		No. of people with disabilities	Employees	3	3	3
		Ratio of employees with disabilities	%	2	2	2
Employee	Recruit- ment of the socially disadvan- taged	No. of senior employees (over 55 years old, excluding executives)	Employees	16	25	30
diversity		Ratio of senior employees	%	12	18	21
		No. of foreign employees	Employees	0	0	0
		Ratio of foreign employees	%	0	0	0
		No. of high school graduates	Employees	58	69	62
		Ratio of high school graduates	%	44	49	44
		No. of national veterans	Employees	0	0	0
		Ratio of national veterans	%	0	0	0
		No. of employees	Employees		_	19
		(Under 30 years) Ratio of employees	%	-		13
	Potio of	(Under 30 years) No. of employees (30-50 years)	Employees	-	-	75
	Ratio of employees	Ratio of employees (30-50 years)	%	-	_	53
		No. of employees	Employees	-	-	47
		(Over 50 years) Ratio of employees	%	-	-	33
	Male	(Over 50 years)			11	
			_	8 _		15
Recruit-	female	11-100				0
ment of new employees		Under 30 years	Employees _			3
employees	By age	30-50 years	_	3	4	8
		Over 50 years		0	2	4
		Average of male	KDW	54	55	70
Compen-	Gen- der-based	Average of female	KRW _ million	44	47	56
sation of Employee	base salary and com-	earnings the ratio of male			85	79

Category			Unit	2020	2021	20
		Average com- pensation of male executives	KRW	-	-	3
		Average compensation of female executives	million	-	-	
		the ratio of male executive to female executive's basic salary	%	-	-	
		Average of regular	100111	-	_	
Compen-	Gender- based base	male earnings Average of regular	KRW million			
sation of	salary and	female earnings the ratio of regular				
Employee	compensa- tion	male to regular female's basic salary	%	-	-	
		Average of contractual male earnings	KRW	-	-	
		Average of contractual female earnings	million	-	-	
		the ratio of contractual male to contractual fe- male's basic salary	%	-	-	
	Average tenu	ire	Years	11	11.5	
Job	Total number	r of job changers	Employees		-	
security	Voluntary ret		% -		-	
		etirement rate ciaries of education	Employees -	130	143	
Talent de- velopment	Total budget for employee training		KRW	195	203	
			million KRW			
		enses per employee or employee training	thousand	1,500	1,420	0.3
		ning hours per	Hours	66	66	9,3
	No. of indust occurred	rial accidents	Agendas	4	1	
Industrial	Industrial accident rate		%		0.7	
Industrial accidents	No. of deaths			0	1	
	No. of injured		Employees -	4	0	
	Duration of w	ork-hour loss	Hours	960	0	
Mutual	Supplier	Total number of suppliers	Number	1	1	
growth	status	Total amount of purchases from suppliers	KRW million	937	740	80,2
	No. of fair tra	de law violations	Incidents	0	0	
Fair trade	Fines impose	ed	KRW million	0	0	
Information security breaches	No. of custor and loss	ner data leak, theft,	Incidents	0	0	
Complaints on discrimi- nation in the workplace	No. of compl discriminatio filed and han	n in the workplace	Incidents	0	0	
Violations	No. of penalize for regulatory	zed or sanctioned violations		0	0	
of Regulations and Self-	No. of receiving	ing warnings for plations	Incidents	0	0	
Regulatory Guidelines		ng internal self- uidelines within the		0	0	
Labor	No. of labor l		Incidents	-	-	
	Employees	Total		0	0	
	who have taken pa-	Male		0	0	
	rental leave	Female		0	0	
	No. of employees	Total	Employees	0	0	
Parental leave	who have returned to work after	Male		0	0	
	parental leave	Female		0	0	
		loyees who have				

Category			Unit	2020	2021	2022
	No. of em- ployees who have worked	Total		0	0	2
Parental	over 12 months after returning	Male	Employees	0	0	1
leave	from paren- tal leave	Female		0	0	1
	Ratio of employees who have worked over 12 months after returning from parental leave		%	-	-	67
Human	Duration of earights	ucation for human Total		0	0	0
rights policies and	Duration of education for prevention of workplace bullying		hours (per em- ployee)	262(1)	284(1)	286(2)
procedures	Duration of education for sexual harassment prevention			262(1)	284(1)	286(2)
	Investment in CSR	Cash donation	KRW	14	12	23
	(including donations)	In-kind donation	million	0	1	33
CSR	Duration of vo	olunteer work		0	301	1,716
	Duration of vo	olunteer work per	Hours	0	2	12
	Direct and income of the support	direct beneficiaries t programs	Employees	140	140	-

* Mutual growth: Disclosure of the total amount of purchases from all suppliers and business partners supplying to our company based on revised disclosure indicators in 2022.

Category		Unit	2020	2021	2022
	No. of BOD meetings	Meeting	-	-	7
	No. of agenda items	Agenda	-	-	16
	Preliminary deliberation	%	-	-	100
BOD	Decisions on revised agenda		-	-	0
structure	Report agenda	Agenda -	-	-	6
	BOD attendance rate		-	-	95
	Non-executive director attendance rate	%	-	-	57
	Male	Empleyees	-	-	5
	Female	Employees -	-	-	0
	Ratio of female directors	%	-	-	0
BOD	Under 30 years		-	-	0
Diversity	30-50 years	Employees -	-	-	0
	Over 50 years	Employees	-	-	5
	No. of external directors		-	-	1
	Ratio of external directors	%	-	-	20
	Total number of business facilities		-	-	1
Anti- corruption n business	Number of business facilities assessed for corruption risk	Number	-	-	1
acilities	Ratio of business facilities assessed for corruption risk	%	-	-	100
	No. of board members who have received ethics training	Employees	-	-	5
	Ratio of board members who have received ethics training	%	-	-	100
	No. of employees who have received ethics training	Employees	131	142	143
Anticor- ruption policy and	Ratio of employees who have received ethics training	%	100	100	100
oroce- dures	No. of board members who have signed the ethics pledge	Employees	-	-	5
	Ratio of board members who have signed the ethics pledge	%	-	-	100
	No. of employees who have signed the ethics pledge	Employees	106	131	107
	Ratio of employees who have signed the ethics pledge	%	80	92	78
Anticor- ruption riolations	No. of violations of anticorruption laws	Incidents (employ- ees)	0	0	0

* Ratio of employees who have signed the ethics pledge in 2022: Due to the water shortage issue in the region and the difficulties in normal work for production staff, there has been a decrease in the ratio of employees who have signed the ethics pledge.

Hansol PNS_Paper Distribution Division

Economy_Including Hansol PNS

Category			Unit	2020	2021	2022
	Sales			244,823	262,943	314,246
	Gross reven	ue		20,436	24,039	28,474
	Selling, general, and administrative expenses			16,545	19,487	25,787
	Operating profit			3,891	4,551	2,686
Income	Financial inc	ome	KRW	448	860	453
statement	Financial cos	sts	million	322	298	1,005
	Other incom	e		536	367	1,400
	Other costs			28	131	601
	Profit of affili	ated companies		0	83	-63
	Net income before the deduction of corporate tax Expenses			4,523	5,432	2,870
	Assets	Current assets		89,360	73,580	98,702
	Assets	Non-current assets		17,766	36,130	36,241
	Liabilities	Current liabilities		60,301	53,430	78,697
Statement	Liabilities	Non-current debt		3,168	6,236	5,145
of financial position		Equity interest of parent company shareholders	KRW million	43,656	46,577	47,355
	Capital	Equity interest of non-controlling shareholders		0	3,466	3,746

(Based on standalone financial statements)

Environment

Category			Unit	2020	2021	2022
Consumption materials	n of Raw	Raw materials consumed	Metric Ton/year	240,900	229,400	225,100
F	Tatal an annu	Total energy consumption	TJ	7.3	6.6	6.8
Energy consump- tion	Total energy consump-	Scope 1 energy consumption		1.9	1.8	1.8
uon	1011	Scope 2 energy consumption		5.3	4.7	5.0
Green- house gas	Emission	Direct emissions (Scope 1)	tCO2eq	126	123	162
emissions	amount	Indirect emissions (Scope 2)		255	225	239
	Total waste disposal amount (treatment amount.	Total waste disposal amount		1,202	1,220	1,490
		Industrial waste		1,202	1,220	1,490
		Designated waste	Metric Ton/vear	-	-	0
Waste	domestic standard)	Municipal waste	TOTI/ year	-	-	0
	Waste	Recycling amount		1,188	1,220	1,489
	recycling rate	Waste recycling rate	%	99	100	100
Environ- mental	Environ- mental	Environmental investment cost	KRW	3	4.5	3.7
expenditure and invest- ment	protection investment	Environmental management cost	million	-	5	
		Eco-friendly product sales	KRW	-	-	298
Eco-friendly sales	product	Sales	million	-	-	260,802
Sales		Ratio of eco- friendly sales	%	-	-	0.11

Social

94

Category			Unit	2020	2021	2022
No. of emplo	yees Unit		Employees	79	86	95
		Total		1	2	5
	Executives	Female		0	0	0
		Male		1	2	5
Current		Total		76	85	88
employees	Full-time	Female	Employees	16	20	20
(by employ- ment type)		Male		60	65	68
	Non-regular worker	Total		2	1	2
		Female		1	0	1
		Male		1	1	1
Outsourced I	numan resour	ces	Employees	0	0	0
Current em-	Full-time			79	86	95
ployees(by work type)	Part time		Employees	0	0	0
Current employ-	Local		F	79	86	95
ees(by work location)	Overseas		Employees —	0	0	0

Category			Unit	2020	2021	202
	No. of male	employees	Employees	62	68	7-
	Ratio of male	employees	%	78	77	7
	No. of female	employees	Employees	17	20	2
	Ratio of fema	ale employees	%	22	23	2
	No. of male	executives	Employees	1	2	
	Ratio of male	executives	%	1	2	
	No. of female	executives	Employees	0	0	
	Ratio of fema	ale executives	%	0	0	
	No. of Male r	managers (manager er)	Employees	-	-	2
	level or highe		%		-	2
	No. of female (manager lev	el or higher)	Employees	0	0	
	Ratio of fema (manager lev		%	0	0	
		No. of people with disabilities	Employees		1	
		Ratio of employees with disabilities	%	1	1	
Employee		No. of senior employees (over 55 years old, excluding executives)	Employees	2	1	
liversity	Recruit- ment of	Ratio of senior employees	%	3	1	
	the socially disadvan- taged	No. of foreign employees	Employees	0	0	
		Ratio of foreign employees	%	0	0	
		No. of high school graduates	Employees	21	24	3
		Ratio of high school graduates	%	16	16	1
		No. of national veterans	Employees	0	0	
		Ratio of national veterans	%	0	0	
		No. of employees (Under 30 years)	Employees		-	1
	Ratio of employees	Ratio of employees (Under 30 years)	%			1
		No. of employees (30-50 years)	Employees			6
		Ratio of employees (30-50 years)	%			6
		No. of employees (Over 50 years)	Employees		-	1
		Ratio of employees (Over 50 years)	%	-	-	1
	Male			6	19	1
Recruit-	female		-	4	3	
ment of new	Under 30 years		Employees	3	7	
employees	By age	30-50 years		7	15	
	, ,	Over 50 years	-		0	
		Average of male earnings	KRW	48	65	7
		Average of female earnings	million	32	46	4
		the ratio of male to female's basic salary	%	66	70	6
		Average compensation of male executives	KRW _	-	-	19
Compen- sation of Employee	Gender- based base salary and	Average compensation of female executives	million	-	-	
	compensa- tion	the ratio of male executive to female executive's basic salary	%	-	-	10
		Average of regular male earnings	KRW	-	-	6
		Average of regular female earnings	million	-	-	4
	female earnings the ratio of regular male to regular female's basic		%	-	-	7

Category			Unit	2020	2021	202
	Average tenu		Years	8.1	7.2	
Job		of job changers	Employees	3	5	1
security	Voluntary reti		% -		-	10
	Involuntary re				-	
		ciaries of education	Employees	79	86	5
	Total budget for employee training		KRW million	42	35	4
Talent de- velopment	Training expenses per employee		thousand	532	407	42
		r employee training				1,23
	Average train employee		Hours	11	11	1
	No. of industroccurred	ial accidents	Agendas	0	1	
Industrial	Industrial acc	ident rate	%	0	1.2	
accidents	No. of deaths		Employees -	0	0	
	No. of injured			0	1	
	Duration of w		Hours	0	9	
Mutual	Supplier	Total number of suppliers	Number		-	
growth	status	Total amount of purchases from suppliers	KRW million	-	-	
	No. of fair train	de law violations	Incidents		0	
Fair trade			KRW			
	Fines impose	a	million		0	
Information security breaches	No. of custon and loss	ner data leak, theft,	Incidents	0	0	
Complaints on discrimi- nation in the workplace	No. of compla discrimination filed and hand	n in the workplace	Incidents	0	0	
Violations	No. of penaliz	red or sanctioned		0	0	
of Regulations and Self- Regulatory Guidelines		ng warnings for	Incidents	0	0	
	No. of violating internal self- regulatory guidelines within the company			0	0	
Labor	No. of labor lo subcontracto		Incidents	-	-	
	Employees Total			2	3	
	who have	Male	-	0	0	
	taken parental leave No. of employees who have returned to work after parental leave	Female	-	2	3	
			Employees			
		Total		0		
		Male	_	0	0	
		Female		0	1	
Parental leave	Ratio of employees who have returned to work after parental leave		%	0	53	;
	No. of em- ployees who	Total		0	0	
	have worked over 12 months after	Male	Employees	0	0	
	returning from paren-		_	0	0	
	tal leave Ratio of empl	oyees who have				
	worked over	12 months after n parental leave	%	0	0	4
	Duration of ed	ducation for human	Hours	237	252	34
	Number of parights educat	articipants in human ion	Employees	79	84	1
	Percentage of participants in human rights education Duration of education for		%	100	100	10
				79(1)	86(1)	
Human rights policies and procedures	Duration of ed	ducation for workplace bullying	Total	73(1)	00(1)	
rights policies and	Duration of ed prevention of Duration of ed	workplace bullying ducation for sexual	Total _ hours (per em-	79(1)	86(1)	
rights policies and	Duration of ed prevention of Duration of ed harassment p Other educat	workplace bullying ducation for sexual prevention ion programs (such	hours			4
rights policies and	Duration of ed prevention of Duration of ed harassment p Other educat	workplace bullying ducation for sexual prevention	hours (per em-	79(1)	86(1)	

Governance

Category		Unit	2020	2021	2022
DOD	No. of BOD meetings	Meeting	-	-	13
BOD Structure*	No. of agenda items	Agenda	-	-	24
Structure	BOD attendance rate	%	-	-	95
	Male	F	-	-	6
	Female	Employees	-	-	0
	Ratio of female directors	%	-	-	0
BOD	Under 30 years		-	-	-
Diversity*	30-50 years		-	-	2
	Over 50 years	Employees -	-	-	4
	No. of external directors	-	-	-	2
	Ratio of external directors	%	-	-	29
	Total number of business facilities		-	-	4
Anti- corruption in business	Number of business facilities assessed for corruption risk	Number	-	-	0
acilities	Ratio of business facilities assessed for corruption risk	%	-	-	0
	No. of board members who have received ethics training*	Employees	-	-	7
	Ratio of board members who have received ethics training*	%	-	-	100
	No. of employees who have received ethics training	Employees	79	86	95
Anticor- ruption	Ratio of employees who have received ethics training	%	100	100	100
policy and procedures	No. of board members who have signed the ethics pledge*	Employees	-	-	7
	Ratio of board members who have signed the ethics pledge*	%	-	-	100
	No. of employees who have signed the ethics pledge	Employees	79	86	95
	Ratio of employees who have signed the ethics pledge	%	100	100	100
Anticor- ruption violations	No. of violations of anticorruption laws	Incidents (employ- ees)	0	0	0

^{*} Including Hansol PNS numerical value

Hansol PNS_IT Service

Social

96

No. of employees Unit	Cotogowy		_	Lleit	2020	2021	2022
Total	Category No. of emplo	vees Init		Unit	2020	2021	2022
Current employees (by employment type) Female (by employment t	140. Or emplo	yoes offic	Total	Litipioyees			
Maile		Executives					
employees (by employoes) ment type) Full-time Permale Male Employees Male Male Moverage Male 37 39 47 Outsourced human resources Employees 0					1	2	1
Comment type			Total		133	143	175
Maile Mail		Full-time		Employees			
Non-regular Male							
Maile		Non-regular					
Current employes playes by work type Current employes (type) Full-time Employees (type) Current employes Current em							_
Current employees(by employees(by employees(by work type)	Outsourced	human resour		Employees			
Doveses Dove Part time				Linployees			
Local Employees Employees Tocal Tocal Tocal Tocal Employees Tocal	ployees(by			Employees			
Seed Provided Pr	Current	Local			132	144	173
Ratio of male employees % 72 73 73 73	ees(by work	Overseas		Employees	2	2	3
No. of female employees		No. of male e	mployees	Employees	97	106	129
Ratio of female employees % 28 27 27		Ratio of male	employees	%	72	73	73
No. of male executives		No. of female	employees	Employees	38	40	47
Ratio of male executives		Ratio of fema	le employees	%	28	27	27
No. of female executives		No. of male e	xecutives	Employees			_
Ratio of female executives		Ratio of male	executives	%	1	1	1
No. of Male managers (manager level or higher)							
Level or higher) Sation of Male managers (manager level or higher) No. of female managers (manager level or higher) Ratio of female managers (manager level or higher) Ratio of female managers (manager level or higher) Sation of people with disabilities Ratio of employees (over 55 years old, excluding executives) Sation of employees (over 55 years old, excluding executives) Sation of senior employees Sation of foreign employees Sation of national evetrans Sation of national evetrans Sation of national evetrans Sation of mational evetrans Sation of employees (Under 30 years) No. of employees (Under 30 years) No. of employees (Sa)-50 years) Sation of employees (Sa)-50 years) Sation of employees (Over 50 years) Sation				%	0	0	0
Level of highery No. of female managers (manager level or higher) Ratio of employees (manager level or higher) No. of people with disabilities Employees 0		level or highe	r)	Employees			41
Maile Mail				%			23
Mo. of people with disabilities Employees Mo. of people with disabilities Employees Mo. of senior employees Mo. of senior employees Mo. of senior employees Mo. of foreign employees Mo. of high school graduates Mo. of national veterans Mo. of national veterans Mo. of employees Mo. of employees Mo. of national veterans Mo. of employees Mo				Employees	16	16	5
Complete				%	12	11	3
Mo. of senior employees (over 55 years old, excluding executives)				Employees	0	0	0
Employee diversity			with disabilities	%	0	0	0
No. of foreign employees No. of high school graduates Employees No. of national veterans No. of employees (Under 30 years) No. of employees (No. of emplo	Employee		employees (over 55 years old, excluding	Employees	1	1	2
The socially disadvantaged	diversity			%	1	1	1
Part		the socially		Employees	1	1	0
Patio of high school graduates Patio of high school graduates Patio of hational veterans Patio of national veterans Patio of national veterans Patio of national veterans Patio of operations Patio of employees (Under 30 years) Patio of employees (Under 30 years) Patio of employees (Under 30 years) Patio of employees (30-50 years) Patio of employees (30-50 years) Patio of employees (30-50 years) Patio of employees (Over 50 ye		taged		%	1	1	0
School graduates School grad				Employees	3	2	3
Veterans				%	3	2	2
Veterans Veterans				Employees	0	0	0
Complete Complete				%	0	0	0
Ratio of employees Cover 50 years Ratio of employees Ratio of em				Employees	-		30
Ratio of employees Ratio o				%	-	-	17
Complete Complete		Ratio of		Employees	-	-	124
Cover 50 years Employees - - 22		employees		%	-	-	70
Male Male 11 26 42				Employees	-	-	22
Recruit- ment of new employees female Under 30 years Employees 4 6 12 8 y age 30-50 years 10 14 43				%	-	-	13
ment of new employees Under 30 years Employees 4 6 12 30-50 years 10 14 43		Male			11	26	42
ment of new employees Under 30 years Employees 4 6 12 y age 30-50 years 10 14 43	Recruit-	female			3	10	17
	ment of new		Under 30 years	Employees	4	6	12
Over 50 years 0 0 4	employees	By age	30-50 years		10	14	43
			Over 50 years		0	0	4

Category			Unit	2020	2021	2022
		Average of male	1470111	61	60	62
		earnings Average of female	KRW _ million	46	47	48
		the ratio of male to female's basic salary	%	75	78	77
		Average compensation of male executives	KRW	-	-	16
		Average compensation of female executives	million	-	-	(
	Gender-	the ratio of male executive to female executive's basic salary	%	-	-	100
Compen- sation of Employee	based base salary and compensa-	Average of regular male earnings	KRW	-	-	6
1	tion	Average of regular female earnings	million			48
		the ratio of regular male to regular female's basic salary	%		-	79
		Average of contractual male earnings	KRW _	-	-	
		Average of contractual female earnings	million	-	-	(
		the ratio of contractual male to contractual female's basic salary	%	-	-	1
	Average tenu	ire	Years	15.3	7	
Job	Total numbe	r of job changers	Employees	14	7	2
security	Voluntary ret	irement rate	% -		-	100
	Involuntary retirement rate					
	No. of beneficiaries of education Total budget for employee		Employees _	133	143	17
	training		million	148	128	170
Talent de-	Training expenses per employee		KRW	716	776	994
velopment	Total hours for employee training		thousand			7,592
	Average training hours per		Hours -			
	employee	rial accidents		82	44	43.
	occurred		Agendas			-
Industrial	Industrial acc		<u>%</u>			(
accidents	No. of deaths		Employees -			(
	No. of injured	vork-hour loss	Hours -		0 -	(
		Total number of suppliers	Number	46	35	9
Mutual growth	Supplier status	Total amount of purchases from suppliers	KRW million	5,200	4,427	12,900
	No. of fair tra	de law violations	Incidents	0	0	(
Fair trade	Fines impose	ed	KRW million	0	0	(
Information security breaches	No. of custor and loss	mer data leak, theft,	Incidents	0	0	
Complaints on discrimi- nation in the workplace	No. of compl discrimination filed and han	n in the workplace	Incidents	0	0	(
Violations	for regulator			0	0	(
Regulations	No. of receiv regulatory via	ing warnings for plations	Incidents	0	0	(
and Self- Regulatory Guidelines	No. of violation	ng internal self- uidelines within the		0	0	(
Labor	No. of labor l	osses in				
losses	subcontracto		Incidents	-	-	

Category			Unit	2020	2021	2022
	Employees	Total		1	1	3
	who have taken pa-	Male		0	0	1
	rental leave	Female		1	1	2
	No. of employees	Total	Employees	2	0	0
	who have returned to work after	Male	_	0	0	0
	parental leave	Female		2	0	0
Parental leave		oyees who have ork after parental	%	100	0	0
	No. of em- ployees who have worked	Total		2	0	0
	over 12 months after returning from paren- tal leave	Male	Employees	0	0	0
		Female		2	0	0
	worked over	oyees who have 12 months after n parental leave	%	100	0	0
	Duration of education for human rights		Hours	402	429	507
	Number of pa rights educat	articipants in human ion	Employees	134	143	169
Human rights	Percentage of human rights	f participants in education	%	100	100	96
policies and procedures	Duration of ed prevention of	ducation for workplace bullying	Total _	134(1)	145(1)	169(1)
	Duration of ed harassment p	ducation for sexual prevention	hours (per em-	134(1)	145(1)	169(1)
		ion programs (such ights education)	ployee)	134(1)	145(1)	169(1)
CSR	Investment in CSR	Cash donation	KRW	8.8	6.2 -	-
OSH	(including donations)	In-kind donation	million	0.0	0.2	-

Governance

Category		Unit	2020	2021	2022
	No. of BOD meetings	회	-	-	13
BOD Structure*	No. of agenda items	건	-	-	24
Ottucture	BOD attendance rate	%	-	-	95
	Male	F	-	-	6
	Female	Employees -	-	-	0
	Ratio of female directors	%	-	-	0
BOD	Under 30 years		-	-	-
Diversity*	30-50 years		-	-	2
	Over 50 years	Employees -	-	-	4
	No. of external directors		-	-	2
	Ratio of external directors	%	-	-	28.57
A .:	Total number of business facilities		-	-	1
Anti- corruption in business facilities	Number of business facilities assessed for corruption risk	Number	-	-	1
	Ratio of business facilities assessed for corruption risk	%	-	-	100
	No. of board members who have received ethics training*	Employees	-	-	7
	Ratio of board members who have received ethics training*	%	-	-	100
	No. of employees who have received ethics training	Employees	134	145	176
Anticor- ruption	Ratio of employees who have received ethics training	%	100	100	100
policy and procedures	No. of board members who have signed the ethics pledge*	Employees	-	-	7
	Ratio of board members who have signed the ethics pledge*	%	-	-	100
	No. of employees who have signed the ethics pledge	Employees	134	145	176
	Ratio of employees who have signed the ethics pledge	%	100	100	100
Anticor- ruption violations	No. of violations of anticorruption laws	Incidents (employ- ees)	0	0	0

^{*} Including Hansol PNS numerical value

Hansol HomeDeco

Economy

Category			Unit	2020	2021	2022
	Sales			253,213	263,249	283,414
	Gross rever	nue		35,776	46,174	48,665
		Selling, general, and administrative expenses		33,037	37,555	45,950
	Operating p	rofit		2,739	8,619	2,714
Income statement	Financial inc	come	KRW million	2,100	3,470	1,240
Statement	Financial co	sts	HIIIIOH	4,105	2,994	4,883
	Other income			3,572	1,518	3,787
	Other costs			3,655	2,706	9,016
	Net income before the deduction of corporate tax Expenses			650	7,905	(6,157)
	Assets	Current assets		78,680	98,188	108,300
		Non-current assets		216,309	216,472	211,195
	1 . 1	Current liabilities		76,068	101,751	118,712
Statement	Liabilities	Non-current debt		64,380	53,062	47,361
of financial position	0	Equity interest of parent company shareholders	million	154,542	159,847	153,347
	Capital Equity interest of non-controlling			0	0	74
Research and devel-	Total R&D e current peri	xpenses for the od	KRW million	160	482	160
opment	R&D expens	ses as a ratio of sales	%	0.06	0.18	0.06
status	Number of I	R&D personnel	Employees	0	0	0

(Based on standalone financial statements)

Environment

Category			Unit	2020	2021	2022
Consumption materials	n of Raw	Raw materials consumed	Metric Ton/year	177,118	185,605	160,316
Consumption that contain	on of materials	Amount of recycled materials (reused raw materials) consumed	Metric Ton/year	84,723	96,985	87,323
materials		Ratio of recycled materials (reused materials) consumed	%	48	52	54
F	T-1-1	Total energy consumption		2,862	2,974	1,987
Energy consump- tion	Total energy consump- tion -	Scope 1 energy consumption	TJ			965
		Scope 2 energy consumption				1,022
		Total water con- sumption		610,228	592,392	617,044
Water con-	Total water consumption	Amount of water consumed	Metric Ton/year	359,632	346,584	409,892
sumption (Based on local use)		Amount of underground water consumed		250,596	245,808	207,152
	Water reuse	Amount of water reused		63,714	60,462	13,472
		Water reuse ratio	%	10.4	10.2	2.2
Green- house gas	Emission	Direct emissions (Scope 1)	tCO2eq	13,621	12,905	9,316
emissions	amount	Indirect emissions (Scope 2)	1002eq	48,180	48,865	46,088
		SOx		587	586	750
emission of air	Emission	NOx	kg	80,846	72,073	72,750
pollutants	amount	HAP	ng .	2,863	1,896	2,641
		PM		21,786	12,378	33,320
emission	Emission	BOD		11	14	9
of water	amount	COD	ppm	49	38	28
pollutants		SS		7	6	2
	Total waste disposal	Total waste disposal amount		28,414	31,863	28,812
Waste	amount (treatment	Industrial waste		25,983	29,291	28,251
	amount, domestic standard)	Designated waste	Metric Ton/year	2,430	2,570	561
	Waste	Recycling amount		20,770	25,299	21,792
	recycling rate	Waste recycling rate	%	73	79	76

Category			Unit	2020	2021	2022
Violation of e laws and reg	nvironmental ulations	Amount of fines	KRW million	0	3	5
Enviromen- tal expen-	Environ- mental	Environmental investment cost	KRW million	2.5	48.1	1,866
diture and protection investment		Environmental management cost		1,755	2,132	1,887
		Eco-friendly product sales	KRW	-	-	84,155
Eco-friendly sales	product	Sales	million	-	- 283,414	
Suics		Ratio of eco- friendly sales	%	-	-	29.7

^{*}Energy consumption: Since greenhouse gas emissions and steam are measured as energy conversions, the distinction between Scope 1 and Scope 2 is not applicable.

Social

Category			Unit	2020	2021	2022
No. of emplo	yees Unit		Employees	267	305	303
		Total		13	13	
	Executives	Female	_	0	0	(
		Male	_	13	13	
Current		Total	_	242	273	289
employees	Full-time	Female	Employees _	20	31	30
(by employ- ment type)		Male		222	242	259
		Total		12	19	-
	Non-regular worker	Female		7	14	(
	WOINEI	Male	_	5	5	
Outsourced I	Outsourced human resources		Employees	0	0	(
Current em-	Full-time			267	305	30
ployees(by work type)	Part time		Employees -	0	0	
Current employ-	Local		Employees -	263	301	29
ees(by work location)	Overseas		Lilipioyees	4	4	
	No. of male e	mployees	Employees	240	260	26
	Ratio of male	employees	%	89	85	8
	No. of female	employees	Employees	27	45	3
	Ratio of fema	ale employees	%	11	15	1:
	No. of male e	executives	Employees	13	13	
	Ratio of male		%	5	4	
	No. of female		Employees	0	0	
		ale executives	<u>%</u>		0	
		nanagers (manager	Employees		-	4
	Ratio of Male	Ratio of Male managers (manager level or higher)				1
	No. of female managers (manager level or higher)		Employees		3	
	Ratio of female managers (manager level or higher)		%		4	0.3
	(manager lev	No. of people with disabilities	Employees	6	6	(
Employee diversity		Ratio of employees with disabilities	%	2	2	
		No. of senior employees (over 55 years old, excluding executives)	Employees	9	7	1
	Recruit- ment of	Ratio of senior employees	%	3	2	4
	the socially disadvan-	No. of foreign employees	Employees	0	0	
	taged	Ratio of foreign employees	%	0	0	0.
		No. of high school graduates	Employees	103	109	12
		Ratio of high school graduates	%	39	36	41
		No. of national veterans	Employees	1	2	
		Ratio of national veterans	%	0.4	0.7	0.3

Category			Unit	2020	2021	2022
		No. of employees (Under 30 years)	Employees	-	-	78
		Ratio of employees (Under 30 years)	%	-	-	26
Employee	Ratio of	No. of employees (30-50 years)	Employees	-	-	158
diversity	employees	Ratio of employees (30-50 years)	%	-	-	52
		No. of employees (Over 50 years)	Employees		-	54
		Ratio of employees (Over 50 years)	%		-	18
	Male		-	21	37	31
Recruit-	female	nale		10	21	2
ment of new		Under 30 years	Employees _	21	28	15
employees	By age	30-50 years	-	10	30	17
		Over 50 years		0	0	1
		Average of male earnings	KRW _	6	33	47
		Average of female earnings	million	25	25	35
		the ratio of male to female's basic salary	%	59	66.8	75
		Average compensation of male executives		36	37	194
		Average of regular male earnings	KRW million	59	67	44
Compen-	Gender- based base	Average of regular female earnings		36	37	38
sation of Employee	salary and compensa- tion	the ratio of regular male to regular female's basic salary	%	-	-	86
		Average of contractual male earnings	KRW _	-	-	24
		Average of contractual female earnings	million	-	-	20
		Ratio of contractual male to contractual female's basic salary	%	-	-	83
	Average tenu		Years	9.5	8	10.3
Job		r of job changers	Employees			42
security	Voluntary ret					100
		etirement rate	% -			
		ciaries of education	Employees	267	305	296
	Total budget	for employee	KRW million	250	210	29.6
Talent de- velopment	training Training expenses per employee		KRW thousand	936	688	100
	Total hours fo	or employee training		-	-	6,216
	Average train employee	ning hours per	Hours	29	22	21
	No. of indust occurred	rial accidents	Incidents	0	2	3
Industrial	Industrial acc	cident rate	%	0	0.65	0.96
accidents	No. of deaths	S	Employees -	0	0	C
	No. of injured			0	0	3
	Duration of w	vork-hour loss	Hours	0	224	3,400
Mutual	Supplier	Total number of suppliers	Number	4	5	6
growth	status	Total amount of purchases from suppliers	KRW million	6,244	6,606	7,498
	No. of fair tra	de law violations	Incidents	0	0	C
Fair trade	Fines impose	ed	KRW million	0	0	C
Information security breaches	No. of custor and loss	mer data leak, theft,	Incidents	0	0	0
Complaints on discrimi- nation in the workplace	No. of compl discriminatio filed and han	n in the workplace	Incidents	0	0	C

Cotogory			Unit	2020	2021	2022
Category	No of populi	red or sanctioned	Unit	2020	2021	2022
Violations of	for regulatory	violations	-	0	0	0
Regulations and Self-	No. of receivi	ng warnings for lations	Incidents	0	0	0
Regulatory Guidelines	No. of violating internal self- regulatory guidelines within the company			0	0	0
Labor losses	No. of labor lo subcontracto		Incidents		-	0
	Employees who have	Total	_	3	4	2
	taken parental	Male	_	0	1	0
	leave	Female	Employees -	2	3	2
	No. of employees who have	Total		1	2	1
	returned to work after	Male		0	1	1
	parental leave	Female		1	1	0
Parental leave		oyees who have ork after parental	%	0	66	25
	No. of employees who have worked over 12 months after	Total	Employees	0	1	1
		Male		0	0	1
	returning from paren- tal leave	Female		0	1	0
	worked over	oyees who have 12 months after n parental leave	%	0	100	50
Human	Duration of ed prevention of	ducation for workplace bullying	Total	267(1)	305(1)	303(1)
rights policies and	Duration of ed	ducation for sexual prevention	hours (per em-	267(1)	305(1)	303(1)
procedures		ion programs (such ights education)	ployee)	267(1)	305(1)	303(1)
CSR	Investment in CSR (including donations)	Cash donation	KRW million	-	-	33

Governance

Category		Unit	2020	2021	2022
	No. of BOD meetings	Meeting	-	-	23
	No. of agenda items	Agenda	-	-	32
	Preliminary deliberation	%	-	-	100
BOD	Decisions on revised agenda	A	-	-	0
Structure	Report agenda	Agenda	-	-	9
	BOD attendance rate		-	-	100
	Non-executive director attendance rate	%	-	-	100
	Male	Empleyees	-	-	7
	Female	Employees	-	-	0
	Ratio of female directors	%	-	-	0
BOD	Under 30 years		-	-	0
Diversity	30-50 years	Employees	-	-	0
	Over 50 years	Employees	-	-	7
	No. of external directors		-	-	2
	Ratio of external directors	%	-	-	29
	No. of board members who have received ethics training	Employees	-	-	7
	Ratio of board members who have received ethics training	%	-	-	100
	No. of employees who have received ethics training	Employees	267	305	303
Anticor- ruption	Ratio of employees who have received ethics training	%	100	100	100
oolicy and procedures	No. of board members who have signed the ethics pledge	Employees	-	-	7
	Ratio of board members who have signed the ethics pledge	%	-	-	100
	No. of employees who have signed the ethics pledge	Employees	267	305	303
	Ratio of employees who have signed the ethics pledge	%	100	100	100
Anticor- ruption violations	No. of violations of anticorruption laws	Incidents (employ- ees)	0	0	0

Hansol Logistics

Economy

Category			Unit	2020	2021	2022
	Sales			509,613	747,044	1,015,371
	Gross revenue			42,351	64,134	78,680
	Selling, general, and administrative expenses			29,274	33,830	42,330
	Operating p	Operating profit		13,076	30,304	36,349
Income statement	Financial inc	Financial income		1,354	8,148	3,047
	Financial costs		million	3,060	2,959	8,403
	Other income			3,615	4,996	17,568
	Other costs			4,075	7,501	18,317
	Net income before the deduction of corporate tax Expenses			11,895	33,509	30,450
	Equity method profit/loss			984	520	204
	Assets	Current assets		120,770	178,348	178,162
	Assets	Non-current assets		75,201	88,279	96,334
	Liabilities	Current liabilities		111,820	166,532	156,801
Statement	LIADIIILIES	Non-current debt		29,501	21,506	15,189
of financial position	Capital	Equity interest of parent company shareholders	KRW million	54,649	78,525	102,344
	Equity interest of non-controlling shareholders			0	63	162

(Based on standalone financial statements)

Social

Category			Unit	2020	2021	2022
No. of emplo	yees Unit		Employees	359	382	323
		Total		6	5	4
	Executives	Female		0	0	0
		Male	Employees	6	5	4
Current	Full-time	Total		330	355	292
employees (by employ-		Female		54	64	79
ment type)		Male	_	276	291	213
	Non-regular	Total	_	23	22	31
	worker	Female	_	14	15	20
		Male		9 _	7	11
Outsourced human resources		Employees	3	3	3	
Current em-	Full-time			359	382	323
ployees(by work type) Current employ- ees(by work location)	Part time		Employees	0	0	C
	Local		Employees -	347	369	308
	Overseas			12	13	15
	No. of male employees		Employees	276	291	224
	Ratio of male employees		%	81	79	69
	No. of female employees		Employees	54	64	99
	Ratio of female employees		%	19	21	31
	No. of male e	xecutives	Employees	6	5	4
	Ratio of male	executives	%		1	1
	No. of female	executives	Employees	0	0	C
Employee diversity	Ratio of fema	le executives	%		0	C
uiversity	No. of Male n	nanagers (manager	Employees	-	-	104
		managers (manager	%	-	-	35
	No. of female (manager leve		Employees	15	14	15
	Ratio of fema	le managers	%	4	4	5

Category			Unit	2020	2021	2022
		No. of people with disabilities	Employees	5	5	1
		Ratio of employees with disabilities	%	1	1	0.3
	Recruit- ment of	No. of senior employees (over 55 years old, excluding executives)	Employees	17	19	11
		Ratio of senior employees	%	5	5	4
	the socially disadvan-	No. of foreign employees	Employees	0	0	C
	taged	Ratio of foreign employees	%	0	0	C
Employee		No. of high school graduates	Employees	93	80	40
diversity		Ratio of high school graduates	%	26	21	14
		No. of national veterans	Employees	0	0	2
		Ratio of national veterans	%	0	0	1
	Ratio of employees	No. of employees (Under 30 years)	Employees		-	67
		Ratio of employees (Under 30 years)	%			23
		No. of employees (30-50 years)	Employees			195
		Ratio of employees (30-50 years)	%		-	66
		No. of employees (Over 50 years)	Employees .		-	34
		Ratio of employees (Over 50 years)	%			11
	Male				38	33
Recruit- ment of new employees	female	Under 30 years	Employees		23	14
	By age	30-50 years	Zinpioj000	11	26	25
	-)-9-	Over 50 years		3	1	- (
		Average of male earnings	KRW		-	69
		Average of female earnings	million	-	-	53
		the ratio of male to female's basic salary	%	-	-	77
		Average compensation of male executives	KRW	-	-	1,153
		Average compensation of female executives	million	-	-	(
	Gen-	the ratio of male executive to female executive's basic salary	%	-	-	(
Compen- sation of Employee	der-based base salary and com-	Average of regular male earnings	KRW	-	-	63
p.oy00	pensation	Average of regular female earnings	million	-	-	46
		the ratio of regular male to regular female's basic salary	%	-	-	73
		Average of contractual male earnings	KRW		-	22
		Average of contractual female earnings the ratio of	million	-	-	3
		contractual male to contractual female's basic salary	%	-	-	139
	Average tenu		Years	8.6	8.6	7
Job		r of job changers	Employees	28	31	33
security	Voluntary ret	irement rate	0/-	-	-	100
	Involuntary retirement rate		%		_	0

Category			Unit	2020	2021	202
	No. of benefic	ciaries of education	Employees	337	358	29
Talent de-	Total budget for employee training		KRW million	90	200	17
velopment	Training expenses per employee		KRW thousand	268	558	60
	Average train employee	ing hours per	Hours	49	75	3
	No. of industroccurred	ial accidents	Agendas	0	0	
Industrial	Industrial acc	ident rate	%	0	0	
accidents	No. of deaths			0	0	
	No. of injured		Employees	0	0	
	Duration of w	ork-hour loss	Hours	0	0	
	Cupplior	Total number of suppliers	Number	942	997	79
Mutual growth	Supplier	Total amount of purchases from suppliers	KRW	278,950	431,781	605,02
9.0	Support for Small and Medium Enterprises	Total purchase amount from small and medium enterprises	million	0	0	
		de law violations	Incidents	0		
Fair trade			KRW			
	Fines impose	d	million	0	0	
Information security breaches	No. of customer data leak, theft, and loss		Incidents	0	0	
Complaints on discrimi- nation in the workplace	No. of complaints on discrimination in the workplace filed and handled		Incidents	0	0	
Violations	No. of penaliz	red or sanctioned violations		0	0	
of Regulations and Self- Regulatory Guidelines	No. of receiving regulatory vio	ng warnings for lations	Incidents	0	0	
	No. of violating internal self- regulatory guidelines within the company			0	0	
Labor losses	No. of labor lo subcontracto		Incidents	-		
	Employees	Total		1	7	4
	who have taken pa-	Male		0	3	
	rental leave	Female		1	4	;
	No. of employees	Total	Employees	1	2	
	who have returned to work after	Male		0	0	
	parental leave	Female		1	2	3
Parental leave		Ratio of employees who have returned to work after parental		17	25	8
	No. of em- ployees who have worked	Total		1	0	4
	over 12 months after	Male	Employees	0	0	
	returning from paren- tal leave	Female		1	0	4
	worked over	oyees who have 12 months after n parental leave	%	14	0	(
		ducation for human	Hours	1,348	1,432	1,1
	Number of pa	articipants in human	Employees	337	358	2
Human rights		f participants in	%	93	93	Ç
policies and procedures	Duration of ed		Total	0	0	
		ducation for sexual prevention	hours (per em-	674(2)	716(2)	558
	harassment prevention Other education programs (such		ployee)	674(2)	716(2)	558

Governance

Category		Unit	2020	2021	2022
	No. of BOD meetings	Meeting	-	-	23
	No. of agenda items	A	-	-	41
BOD	Report agenda	Agenda	-	-	C
Structure	BOD attendance rate		-	-	94
	Non-executive director attendance rate	%	-	-	87
	Male		-	-	7
	Female	Employees	-	-	C
	Ratio of female directors	%	-	-	C
BOD	Under 30 years		-	-	0
Diversity	30-50 years	Employees	-	-	0
	Over 50 years	Litibiolities	-	-	7
	No. of external directors		-	-	2
	Ratio of external directors	%	-	-	29
	No. of board members who have received ethics training	Employees	-	-	7
	Ratio of board members who have received ethics training	%	-	-	100
	No. of employees who have received ethics training	Employees	362	385	363
Anticor- ruption	Ratio of employees who have received ethics training	%	100	100	100
policy and procedures	No. of board members who have signed the ethics pledge	Employees	-	-	7
	Ratio of board members who have signed the ethics pledge	%	-	-	100
	No. of employees who have signed the ethics pledge	Employees	362	385	363
	Ratio of employees who have signed the ethics pledge	%	100	100	100
Anticor- ruption violations	No. of violations of anticorruption laws	Incidents (employ- ees)	0	0	С

* Total number of employees who signed the ethical pledge in 2022:

There may be variations in the number of employees who signed the ethical pledge due to new hires and departures.

Hansol Technics

Economy

Category			Unit	2020	2021	2022
	Sales			1,194,892	1,490,620	1,647,391
	Gross reven	ue		150,987	103,451	183,094
	Selling, general, and administrative expenses			118,526	107,707	127,989
	Operating profit			32,460	(4,255)	55,104
Income statement	Financial inc	come	KRW million	28,970	24,449	60,831
Statement	Financial costs		TIMIOTI	29,996	28,594	72,822
	Other income			1,571	2,810	2,683
	Other costs			7,649	979	9,448
	Net income before the deduction of corporate tax Expenses			25,357	(6,570)	36,348
	Assets	Current assets		311,128	467,995	509,415
		Non-current assets		280,264	320,674	562,506
	Liabilities	Current liabilities		234,267	333,270	424,708
Statement	Liabilities	Non-current debt		78,022	177,123	207,186
of financial position	Conital	Equity interest of parent company shareholders	KRW million	278,804	277,992	306,289
	Equity interest of non-controlling shareholders		298	284	133,736	
Research and devel-	Total R&D excurrent period	xpenses for the od	KRW million	19,721	18,199	22,275
opment	R&D expens	ses as a ratio of sales	%	1.65	1.22	1.35
status	Number of F	R&D personnel	Employees	131	138	153

(Based on standalone financial statements)

Environm	ent					
Category			Unit	2020	2021	2022
Consumption materials	n of Raw	Raw materials consumed	Metric Ton/year	22	75	30.3
Enorm	Total energy consump-	Total energy consumption		236	241	225.02
Energy consump- tion		Scope 1 energy consumption	TJ	15.4	14.3	13.97
		Scope 2 energy consumption		220.1	226.5	211.05
Water con-		Total water con- sumption	Metric Ton/year -	65,372	65,977	52,081
sumption (Based on	Total water consump- tion	Amount of water consumed		33,602	32,048	29,855
local use)		Amount of underground water consumed		25,711	26,864	22,226
Green- house gas	Emission	Direct emissions (Scope 1)	tCO2ea	775	726	709.19
emissions	amount	Indirect emissions (Scope 2)	tCO2eq	10,691	10,867	10,099.7
	Emission	SOx		0	0	0
	amount	NOx	kg	158	149	230
		PM		202	217	240
Emission	Emission amount	BOD	ppm	8	14	14.1
of water		COD		10	12	20.8
pollutants		SS		8	7	6.9
	Total waste disposal	Total waste disposal amount		972	779	1,154
	amount	Industrial waste		778	660	917
	(treatment amount.	Designated waste	Metric Ton/year	9	17	31
Waste	domestic standard)	Municipal waste	1011/you	24	29	31
	Waste	Recycling amount		802	689	979
	recycling rate	Waste recycling rate	%	83	88	85
Environ- mental	Environ- mental	Environmental investment cost	KRW	33	19	65
expenditure and invest- ment	protection investment	Environmental management cost	million	290	312	299
F 6:		Eco-friendly product sales	KRW million	-	-	230,438
Eco-friendly sales	product	Sales	IIIIIIIIII	-	-	1,647,391
		Ratio of eco- friendly sales	%	-	-	14

Social

Category	11.7		Unit	2020	2021	2022
No. of employ	yees Unit		Employees	662	656	635
		Total	_	11	11	11
	Executives	Female	_		0	0
O		Male	_		11	11
Current employees	F 11 .:	Total		628	620	589
(by employ-	Full-time	Female	Employees _	141	123	120
ment type)		Male	-	487 34	497	469
	Non-regular	Total			36	35 12
	worker	Female	-	8 -	9	
Outoourood		Male	Employees			23
Current em-	ruman resour Full-time	ces	Employees		0	635
ployees(by work type)	Part time		Employees -	662 2	656	033
Current employ-	Local			662	656	608
ees(by work location)	Overseas		Employees -	0	0	27
ioodilonj	No. of male e	mnlovees	Employees	513	524	503
	Ratio of male		%	77	80	79
	No. of female			149	132	132
			Employees			
		le employees	% 		20	21
	No. of male e		Employees		11	11
	Ratio of male		<u>%</u>	1.6	1.6	1.7
	No. of female		Employees		0	0
	Ratio of fema		<u>%</u>		0	0
	level or highe		Employees			227
	level or highe		%			35.1
	No. of female (manager leve	el or higher)	Employees	5	6	6
	Ratio of fema (manager leve	el or higher)	%		3	4
	Recruit- ment of	No. of people with disabilities	Employees	4	3	5
		Ratio of employees with disabilities	%	1	1	1
Employee		No. of senior employees (over 55 years old, excluding executives)	Employees	27	25	33
diversity		Ratio of senior employees	%	4	4	5
	the socially disadvan-	No. of foreign employees	Employees	0	0	0
	taged	Ratio of foreign employees	%	0	0	0
		No. of high school graduates	Employees	192	175	172
		Ratio of high school graduates	%	29	27	27
		No. of national veterans	Employees	2	2	2
		Ratio of national veterans	%	0.3	0.3	0.3
		No. of employees (Under 30 years)	Employees	-	-	71
		Ratio of employees (Under 30 years)	%	-	-	11
	Ratio of	No. of employees (30-50 years)	Employees	-	-	482
	employees	Ratio of employees (30-50 years)	%	-	-	75
		No. of employees (Over 50 years)	Employees -	-	-	93
		Ratio of employees (Over 50 years)	%	-	-	14
	Male	(Over 50 years)		70	49	85
			-			
Recruit-	female	Lladox 20 · · · · · · ·	-	10 -	9	15
ment of new employees		Under 30 years	Employees _	43 _	25	45
opioyeea	By age	30-50 years	_	34	31	50
	Over 50 years			3	2	5

Category			Unit	2020	2021	202
		Average of male earnings	KRW	65	60	
		Average of female earnings	million	50	43	
		the ratio of male to female's basic salary	%	76	71	
		Average compensation of male executives		-	-	3
		Average of regular male earnings	KRW million	-	-	
Compen-	Gender- based base	Average of regular female earnings		-	-	
sation of Employee	salary and compensa- tion	the ratio of regular male to regular female's basic salary	%			
		Average of contractual male earnings	KRW	-	-	
		Average of contractual female earnings	million	-	-	
		Ratio of contractual male to contractual female's basic salary	%	-	-	
Talent de- velopment	No. of benefi	ciaries of education	Employees	662	607	6
	Total budget training	for employee	KRW million	270	271	2
	Training expe	enses per employee	KRW thousand	436	442	4
	Total hours fo	or employee training				28,1
	employee	ing hours per	Hours	65	62	
	cost	ing cost to labor	%	1	1	
	No. of industrial accidents occurred		Agendas	1	0	
Industrial	Industrial accident rate		%	0	0	
accidents	No. of deaths		Employees	0	0	
	No. of injured			0	1	
	Duration of w	Total number of	Hours Number	960	394	6
	Supplier status	Total amount of purchases from		565,361	657,792	661,7
Mutual growth	Support for	suppliers Total purchase	KRW million			
	Small and Medium Enterprises	amount from small and medium enterprises		54,038	134,336	81,2
	No. of fair tra	de law violations	Incidents	0	0	
Fair trade	Fines impose	ed	KRW million	0	0	
Information security breaches	No. of custon and loss	ner data leak, theft,	Incidents	0	0	
Complaints on discrimi- nation in the workplace	No. of compli discriminatio filed and han	n in the workplace	Incidents	0	0	
Violations	No. of penaliz	zed or sanctioned violations		0	0	
of Regulations and Self-	No. of receiving	ng warnings for blations	Incidents	0	0	
Regulatory Guidelines		ng internal self- iidelines within the		0	0	_
Labor	No. of labor le		Incidents	-	-	

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 who have	Total	Employees	6	12	6
	returned to work after	Male		1	5	5
	parental leave	Female		5	7	1
Parental leave		oyees who have ork after parental	%	43	75	46
	No. of em- ployees who have worked	Total		6	12	5
	over 12 months after returning	Male	Employees	1	5	4
	from paren- tal leave	Female		5	7	1
	Ratio of employees who have worked over 12 months after returning from parental leave		%	100	100	100
Human	Duration of ed	ducation for workplace bullying	Total	-	25(1)	681(1)
rights policies and	Duration of ed harassment p	ducation for sexual prevention	hours (per em-	662(1)	607(1)	710(1)
procedures		ion programs (such ights education)	ployee)	662(1)	607(1)	670(1)
	Investment in CSR	Cash donation	KRW	0.4	0.4	2
CSR	(including donations)	In-kind donation	million	32.5	73.5	38
	Direct and incof the suppor	direct beneficiaries t programs	Employees	262	814	36

Governance

Category		Unit	2020	2021	2022
	No. of BOD meetings	Meeting	-	-	7
	No. of agenda items	Agenda	-	-	23
	Preliminary deliberation	%	-	-	100
BOD	Decisions on revised agenda		-	-	(
Structure	Report agenda	Agenda -	-	-	1
	BOD attendance rate		-	-	86.3
	Non-executive director attendance rate	%	-	-	100
	Male		-	-	
	Female	Employees -	-	-	-
	Ratio of female directors	%	-	-	(
BOD	Under 30 years		-	-	
Diversity	30-50 years	-	-	-	
	Over 50 years	Employees -	-	-	
	No. of external directors	_	-	-	
	Ratio of external directors	%	-	-	2
4:	Total number of business facilities		-	-	
Anti- corruption n business	Number of business facilities assessed for corruption risk	Number	-	-	
acilities	Ratio of business facilities assessed for corruption risk	%	-	-	
	No. of board members who have received ethics training	Employees	-	-	
	Ratio of board members who have received ethics training	%	-	-	10
	No. of employees who have received ethics training	Employees	663	657	64
Anticor- ruption	Ratio of employees who have received ethics training	%	100	100	10
oolicy and orocedures	No. of board members who have signed the ethics pledge	Employees	-	-	
	Ratio of board members who have signed the ethics pledge	%	-	-	10
	No. of employees who have signed the ethics pledge	Employees	663	657	64
	Ratio of employees who have signed the ethics pledge	%	100	100	10

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

Hansol IONES

Economy

Category			Unit	2020	2021	2022
	Sales			-	-	163,912
	Gross rever	iue			-	57,959
	Selling, general, and administrative expenses Operating profit			-	-	21,886
				-	-	36,072
Income statement	Financial income		KRW million	-	-	1,809
Statement	Financial co	ests	IIIIIIIOII		-	(1,022)
	Other incon	ne		-	-	668
	Other costs			-	-	(3,741)
	Net income before the deduction of corporate tax Expenses			-	-	36,741
	A + -	Current assets		-	-	99,779
	Assets	Non-current assets		-	-	127,588
		Current liabilities		-	-	70,826
Statement	Liabilities	Non-current debt		-	-	5,725
of financial position	0	Equity interest of parent company shareholders	KRW million	-	-	150,815
	Capital Equity interest of non-controlling shareholders			-	-	0
Research and devel-	Total R&D e current peri	xpenses for the od	KRW million	-	-	109
opment	R&D expens	ses as a ratio of sales	%	-	-	0.61
status	Number of I	R&D personnel	Employees	-	-	13

(Based on standalone financial statements)

Environment

Environm	ent					
Category			Unit	2020	2021	2022
Consumption materials	on of Raw	Raw materials consumed	Metric Ton/year	-	-	1,640
Consumption of materials that contain recycled materials		Amount of recycled materials (reused raw materials) consumed	Metric Ton/year	-	-	166
		Ratio of recycled materials (reused materials) consumed	%	-	-	10
		Total water con- sumption	_	-	-	123,103
	Total water	Amount of water consumed		-	-	123,103
	consumption Water reuse	Amount of underground water consumed	Metric Ton/year	-	-	0
		Amount of sea water consumed		-	-	0
		Amount of water reused		-	-	0
		Water reuse ratio	%	-	-	0
Green- house gas	Emission	Direct emissions (Scope 1)	tCO2ea -	-	-	159
emissions	amount	Indirect emissions (Scope 2)	toozeq -	-	-	10,741
Emission		SOx	_	-	-	0.09
of air	Emission amount	NOx	kg	-	-	6.98
pollutants	arrioarre	PM		-	-	15.99
	Total waste disposal	Total waste disposal amount		-	-	561
	amount	Industrial waste	-	-	-	421
	(treatment amount.	Designated waste	Metric Ton/year -	-	-	140
Waste	domestic standard)	Municipal waste	TOTI/year =	-	-	0
	Waste	Recycling amount		-	-	445
	recycling rate	Waste recycling	%	-	-	79

Social

	,					
	Total			-	-	7
	Executives	Female		-	-	0
		Male		_	-	7
Current		Total		-	-	567
employees	Full-time	Female	Employees	-	-	87
(by employ- ment type)		Male		-		480
mont type,		Total		-	-	14
	Non-regular	Female				2
	worker	Male				12
Outsourced I	human resour	ces	Employees			-
Current em-	Full-time					588
ployees(by work type)	Part time		Employees			-
Current employ-	Local				-	588
ees(by work location)	Overseas		Employees			-
	No. of male e	mployees	Employees	-	-	499
	Ratio of male	employees	%			85
	No. of female		Employees			87
		le employees	%			15
						_
	No. of male e		Employees			10
	Ratio of male		%			2
	No. of female		Employees			0
	Ratio of fema		%			0
	No. of Male n level or highe	nanagers (manager r)	Employees			27
	Ratio of Male level or highe	managers (manager r)	%			5
	No. of female (manager leve	•	Employees			0
	Ratio of fema (manager leve		%			0
	Recruit- ment of the socially disadvan- taged	No. of people with disabilities	Employees			11
		Ratio of employees with disabilities	%			2
Employee		No. of senior employees (over 55 years old, excluding executives)	Employees	-	-	11
diversity		Ratio of senior employees	%		-	2
		No. of foreign employees	Employees	-	-	11
		Ratio of foreign employees	%	-	-	2
		No. of high school graduates	Employees	-	-	233
		Ratio of high school graduates	%	-	-	40
		No. of national veterans	Employees			0
		Ratio of national veterans	%		-	0
		No. of employees (Under 30 years)	Employees			182
		Ratio of employees (Under 30 years)	%			31
	Ratio of	No. of employees (30-50 years)	Employees			380
	employees	Ratio of employees (30-50 years)	%			64
		No. of employees (Over 50 years)	Employees			24
		Ratio of employees (Over 50 years)	%			4
	Male					149
Recruit-	female				-	35
ment of new		Under 30 years	Employees	-		78
employees	By age	30-50 years		-	-	99

 Category
 Unit
 2020
 2021
 2022

 No. of employees Unit
 Employees
 588

Category			Unit	2020	2021	2022
		Average of male			_	47
		earnings Average of female	KRW million		-	36
		the ratio of male to female's basic salary	%		-	76
	Gender-	Average compensation of male executives	KRW	-	-	125
		Average compensation of female executives	million	-	-	0
		the ratio of male executive to female executive's basic salary	%	-	-	0
Compen- sation of Employee	based base salary and compensa-	Average of regular male earnings	KRW	-	-	47
Linployee	tion	Average of regular female earnings	million	-	-	36
		the ratio of regular male to regular female's basic salary	%	-	-	76
		Average of contractual male earnings	KRW	-	-	10
		Average of contractual female earnings	million		-	8
		the ratio of contractual male to contractual female's basic salary	%	-	-	80
	Average tenu		Years		_	3.5
Job		r of job changers	Employees		-	157
security	Voluntary ret				-	92
	Involuntary re	etirement rate	%	-	-	8
	No. of beneficiaries of education		KRW million		-	38
Talent de- velopment	Total budget for employee training Total hours for employee training		KRW thousand		-	66
	Average train	ning hours per	Hours			3,029 5.19
	No. of industrial accidents		Agendas	_		1
	occurred Industrial accident rate					
Industrial	Industrial accident rate		%			0.17
accidents	No. of deaths		Employees			12
	No. of injured	vork-hour loss	Hours			880
	- Duration of v	Total number of suppliers	Number		-	70
Mutual	Supplier status	Total amount of purchases from suppliers		-	-	49,004
growth	Support for Small and Medium Enterprises	Total purchase amount from small and medium enterprises	KRW million		-	41,869
		de law violations	Incidents		_	0
Fair trade	Fines impose		KRW million	-	-	0
Information security breaches	No. of custor and loss	mer data leak, theft,	Incidents	-	-	0
Complaints on discrimi- nation in the workplace	No. of compl discrimination filed and han	n in the workplace	Incidents	-	-	0
Violations	No. of penali	zed or sanctioned y violations		-	-	0
of Regulations and Self-	regulatory vio		Incidents		-	0
Regulatory Guidelines		ng internal self- uidelines within the		-	-	0

Category			Unit	2020	2021	2022
	Employees	Total		-	-	6
	who have taken pa-	Male	_	-	-	0
	rental leave	Female		-	-	6
	No. of employees who have returned to work after	Total	Employees	-	-	3
		Male	_			0
	parental leave	Female			-	3
Parental leave	Ratio of employees who have returned to work after parental leave		%	-	-	50
	No. of em- ployees who have worked	Total	_		-	1
	over 12 months after returning from paren- tal leave	Male	Employees		-	0
		Female		-	-	1
	Ratio of employees who have worked over 12 months after returning from parental leave		%	-	-	17
Human	Duration of e	ducation for workplace bullying	Total _	-	-	1
rights policies and	Duration of e	ducation for sexual prevention	hours (per em-	-	-	1
procedures		ion programs (such ights education)	ployee)	-	-	1
	Investment	Cash donation		-	-	15
CSR	in CSR (including	In-kind donation	KRW million	-	-	0
	donations)	Business expenses		-	-	0

Governance

Category		Unit	2020	2021	2022
	No. of BOD meetings	Meeting	-	-	11
	No. of agenda items	Agenda			23
	Preliminary deliberation	%	-	-	100
BOD	Decisions on revised agenda	Al -	-	-	0
Structure	Report agenda	Agenda	-	-	13
	BOD attendance rate			-	99
	Non-executive director attendance rate	%	-	-	97
	Male	Empleyees	-	-	8
	Female	Employees	-	-	0
	Ratio of female directors	%	-	-	0
BOD	Under 30 years		-	-	-
Diversity	30-50 years	Employees	-	-	2
	Over 50 years	Employees	-	-	6
	No. of external directors		-	-	3
	Ratio of external directors	%	-	-	38
	Total number of business facilities		-	-	4
Anti- corruption in business	Number of business facilities assessed for corruption risk	Number			
facilities	Ratio of business facilities assessed for corruption risk	%	-	-	0
	No. of board members who have received ethics training	Employees	-	-	8
	Ratio of board members who have received ethics training	%	-	-	100
	No. of employees who have received ethics training	Employees	-	-	588
Anticor- ruption	Ratio of employees who have received ethics training	%	-	-	100
policy and procedures	No. of board members who have signed the ethics pledge	Employees	-	-	8
	Ratio of board members who have signed the ethics pledge	%	-	-	100
	No. of employees who have signed the ethics pledge	Employees	-	-	588
	Ratio of employees who have signed the ethics pledge	%	-	-	100
Anticor- ruption violations	No. of violations of anticorruption laws	Incidents (employ- ees)	-	-	1

Hansol Inticube

Economy

Category			Unit	2020	2021	2022
	Sales			52,588	59,462	59,146
	Gross reven	ue		5,979	11,767	12,319
	Selling, general, and administrative expenses			11,499	12,011	16,292
	Operating p	rofit		(5,520)	(243)	(3,972)
Income	Financial ind	come	KRW	181	203	244
statement	Financial co	sts	million	151	110	131
	Other income			348	132	413
	Other costs			792	86	2,806
	Profit of affil	iated companies		8,655	0	0
	Net income before the deduction of corporate tax Expenses			2,721	(105)	(6,253)
	Assets	Current assets		34,199	32,455	25,186
		Non-current assets		7,587	16,339	14,630
	Liabilities	Current liabilities		13,433	18,248	14,138
Statement	Liabilities	Non-current debt		2,124	1,760	2,413
of financial position	0	Equity interest of parent company shareholders	KRW million	26,229	26,376	21,932
	Capital	Equity interest of non-controlling shareholders		-	2,409	1,333
Research and devel-	Total R&D excurrent period	xpenses for the od	KRW million	1,765	1,818	1,426
opment	R&D expens	ses as a ratio of sales	%	3	3	3
status	Number of F	R&D personnel	Employees	7	5	0

(Based on standalone financial statements)

Social

Category			Unit	2020	2021	2022
No. of emplo	yees Unit		Employees	227	224	253
		Total		3	3	6
	Executives	Female		0	0	0
		Male		3	3	6
Current	Full-time	Total	Employees	219	212	247
employees (by employ-		Female		54	53	67
ment type)		Male	_	165	159	180
		Total	_	5	9	0
	Non-regular worker	Female		2	2	0
	WOTTE	Male	_	3	7	0
Outsourced human resources		Employees	2	0	0	
Current em-	Full-time			227	224	253
ployees(by work type)	Part time		Employees -	0	0	0
Current	Local			227	224	253
employ- ees(by work location)	Overseas		Employees	0	0	0
	No. of male e	mployees	Employees	171	169	186
	Ratio of male	employees	%	75	75	74
	No. of female	employees	Employees	56	55	67
	Ratio of fema	lle employees	%	25	25	26
	No. of male e	xecutives	Employees	3	3	6
	Ratio of male	executives	%	1	1	2
	No. of female	executives	Employees	0	0	0
Employee diversity	Ratio of fema	le executives	%		0	0
arrorony	No. of Male n	nanagers (manager	Employees	-	-	128
	Ratio of Male level or highe	managers (manager r)	%	-	-	51
	No. of female (manager lev		Employees	20	18	23
	Ratio of fema (manager lev		%	9	8	9

Category			Unit	2020	2021	202
		No. of people with disabilities	Employees	3	2	:
		Ratio of employees with disabilities	%	1	1	
		No. of senior employees (over 55 years old, excluding executives)	Employees	2	2	
	Recruit-	Ratio of senior employees	%	1	1	
	ment of the socially disadvan-	No. of foreign employees	Employees	0	0	
	taged	Ratio of foreign employees	%	0	0	
		No. of high school graduates	Employees	4	5	
Employee diversity		Ratio of high school graduates	%	2	2	
		No. of national veterans	Employees	2	2	
		Ratio of national veterans	%	1	1	
		No. of employees (Under 30 years)	Employees	-	-	5
		Ratio of employees (Under 30 years)	%	-	-	2
	Ratio of employees	No. of employees (30-50 years)	Employees	-	-	16
		Ratio of employees (30-50 years)	%	-	-	6
		No. of employees (Over 50 years)	Employees		-	3
		Ratio of employees (Over 50 years)	%	-	-	1
	Male			14	31	5
Recruit-	female			5	9	2
ment of new		Under 30 years	Employees _	13	11	2
employees	By age	30-50 years	_	6	29	4
		Over 50 years		0	0	
		Average of male earnings	KRW _	48	48	5
		Average of female earnings	million	40	41	4
		the ratio of male to female's basic salary	%	83	85	7
		Average compensation of male executives	KRW	-	-	11
		Average compensation of female executives	million	-	-	
0	Gender-	the ratio of male executive to female executive's basic salary	%		-	
Compen- sation of Employee	based base salary and compensa-	Average of regular male earnings	KRW	-	-	5
	tion	Average of regular female earnings	million	-	-	4
		the ratio of regular male to regular female's basic salary	%	-	-	7
		Average of contractual male earnings	KRW _	-	-	
		Average of contractual female earnings	million	-	-	
		the ratio of contractual male to contractual female's basic salary	%	-	-	
	Average tenu		Years	7.5	8	7.
Job		r of job changers	Employees	-	-	4
security						8
	Voluntary retirement rate		% -			

Category			Unit	2020	2021	202
	No. of benefic	ciaries of education	Employees	222	220	25
	Total budget training	for employee	KRW million	252	170	23
Talent de- velopment	Training expe	nses per employee	KRW thousand	1,135	775	96
	Total hours fo	r employee training		13,947	7,213	7,16
	Average training hours per employee		Hours	26	28	2
	No. of industroccurred	ial accidents	Agendas	0	0	
Industrial	Industrial acc	ident rate	%	0	0	
accidents	No. of deaths		Empleyees	0	0	
	No. of injured		Employees	0	0	
	Duration of w	ork-hour loss	Hours	0	0	
	Supplier	Total number of suppliers	Number	226	200	20
Mutual growth	status	Total amount of purchases from suppliers	KRW	23,005	29,684	30,43
	Support for Small and Medium Enterprises	Total purchase amount from small and medium enterprises	million	18,499	20,613	20,15
		de law violations	Incidents	0	0	
Fair trade	Fines impose	d	KRW million	0	0	
Information security breaches	No. of custom and loss	No. of customer data leak, theft, and loss		0	0	
Complaints on discrimi- nation in the workplace	No. of compla discrimination filed and hand	n in the workplace	Incidents	0	0	
Violations	No. of penaliz for regulatory	red or sanctioned violations		0	0	
of Regulations	No. of receiving regulatory vio	ng warnings for lations	Incidents	0	0	
and Self- Regulatory Guidelines	No. of violating internal self- regulatory guidelines within the company			0	0	
Labor	No. of labor lo subcontracto		Incidents	-	-	
	Employees	Total		4	1	
	who have taken pa-	Male		1	0	
	rental leave	Female		3	1	
	No. of employees	Total	Employees	4	1	
	who have returned to work after	Male		1	0	
	parental leave	Female		3	1	
Parental leave	returned to we leave	oyees who have ork after parental	%	100	100	
	No. of em- ployees who have worked	Total		4	1	
	over 12 months after	Male	Employees	1	0	
	returning from paren- tal leave	Female		3	1	
	worked over 1	oyees who have 12 months after n parental leave	%	100	100	7
	Duration of ed	ducation for human	Hours	1,135	1,100	77
	Number of pa rights educati	rticipants in human ion	Employees	227	220	25
Human rights	human rights		%	100.00	98.20	10
policies and procedures	Duration of ed prevention of	ducation for workplace bullying	Total	227(1)	224(1)	257
	harassment p		hours (per em-	340(1.5)	336(1.5)	257
	Other educati	ion programs (such	ployee)	340(1.5)	336(1.5)	257

Category			Unit	2020	2021	2022
	Investment	Cash donation	KRW million	8.1	7.3	7.7
CSR	in CSR (including	In-kind donation		1.5	3.2	0
	donations)	Business expenses		0	0	0
	Duration of v employee	olunteer work per	0 0	0	0	
	Direct and in of the support	direct beneficiaries rt programs	Hours	0	0	0

Governance

Governan	ce				
Category		Unit	2020	2021	2022
	No. of BOD meetings	Meeting	-	-	10
BOD	No. of agenda items	Agenda -	-	-	20
structure	Report agenda	Agenda -	-	-	12
	BOD attendance rate	%	-	-	100
	Male	Employees -	-	-	7
	Female	Lilipioyees	-	-	0
	Ratio of female directors	%	-	-	0
BOD	Under 30 years		-	-	0
Diversity	30-50 years	Employees -	-	-	2
	Over 50 years	Employees -	-	-	5
	No. of external directors		-	-	3
	Ratio of external directors	%	-	-	43
A .:	Total number of business facilities		-	-	1
Anti- corruption in business facilities	Number of business facilities assessed for corruption risk	Number	-	-	1
	Ratio of business facilities assessed for corruption risk	%	-	-	100
	No. of board members who have received ethics training	Employees	-	-	7
	Ratio of board members who have received ethics training	%	-	-	100
	No. of employees who have received ethics training	Employees	227	224	253
Anticor- ruption	Ratio of employees who have received ethics training	%	100	100	100
policy and procedures	No. of board members who have signed the ethics pledge	Employees	-	-	7
	Ratio of board members who have signed the ethics pledge	%	-	-	100
	No. of employees who have signed the ethics pledge	Employees	227	224	253
	Ratio of employees who have signed the ethics pledge	%	100	100	100
Anticor- ruption violations	No. of violations of anticorruption laws	Incidents (employ- ees)	0	0	0

Hansol Chemical

Economy

Category			Unit	2020	2021	2022
	Sales			619,277	768,688	885,470
	Gross reven	ue		213,876	267,971	265,682
	Selling, gene administrativ	eral, and ve expenses		61,942	70,287	79,691
	Operating p	rofit		151,933	197,684	185,990
Income	Financial inc	come	KRW	4,033	4,204	9,227
statement	Financial co	sts	million	10,044	6,176	7,518
	Other incom	10		6,915	6,631	9,009
	Other costs			4,719	6,999	10,742
	Profit of affiliated companies			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
		Non-current assets		691,474	785,873	867,190
	Liabilities	Current liabilities		171,630	199,711	153,669
Statement	Liabilities	Non-current debt	KRW	205,299	229,593	247,144
of financial position	0	Equity interest of parent company shareholders	million	553,201	689,239	763,481
	Capital	Equity interest of non-controlling shareholders		69,069	78,630	89,014
Research and devel-	Total R&D excurrent period	xpenses for the od	KRW million	13,004	13,640	18,955
opment	R&D expens	ses as a ratio of sales	%	2	2	3
status	Number of F	R&D personnel	Employees	107	120	127

(Based on standalone financial statements)

Environm	CIIL					
Category			Unit	2020	2021	2022
Consumptio materials	n of Raw	Raw materials consumed	Metric Ton/year	150,967	151,701	147,161
that contain	n of materials recycled	Amount of recycled materials (reused raw materials) consumed	Metric Ton/year	0	0	0
materials		Ratio of recycled materials (reused materials) consumed	%	0.0	0.0	0
Total energy		Total energy consumption		2,628	3,119	3,395
Energy consump-	consump- tion	Scope 1 energy consumption	TJ	320	502	559
tion		Scope 2 energy consumption		2,308	2,617	2,836
Energy inten		sity	GJ/KRW billion	4,243.7	4,057.6	3,834.1
		Total water consumption		2,148,690	2,214,557	2,557,065
Water con-	Total water	Amount of water consumed		28,933	40,407	46,267
	consump- tion	Amount of underground water consumed	Metric Ton/year	0	0	0
		Amount of sea water consumed		0	0	0
	Water reuse	Amount of water reused		0	0	0
		Water reuse ratio	%	0	0	0
Green- nouse gas	Emission	Direct emissions (Scope 1)	tCO2eq	70,687	84,466	87,066
emissions	amount	Indirect emissions (Scope 2)		66,989	77,153	82,266
Emission	Emissian	SOx		96	5,960	1,110
of air	Emission amount	NOx	kg	46	16,316	19,499
oollutants		PM		441	983	674
		BOD		9.9	14.1	14.3
Emission of water	Emission	COD	ppm	31.3	28.5	33.9
ollutants	amount	SS		15.3	23.2	12.5
		TN		18.4	8.1	7.2
	Total waste disposal	Total waste disposal amount		6,439	8,526	10,202
	amount (treatment	Industrial waste	Matria	3,552	4,327	4,817
	amount,	Designated waste	Metric Ton/year	2,887	4,199	5,385
	standard)	Municipal waste		0	0	0
	Waste	Recycling amount		4,537	6,299	7,907
	recycling rate	Waste recycling rate	%	70	74	78

Category			Unit	2020	2021	2022
Significant hazardous (chemical) substance		Number of incidents	Cases	0	3	0
spills	ibstance	Volume of spills	Metric Ton/year	0	5.1	0
Environ- mental Environ- mental	Environmental investment cost	KRW	5,129	3,069	4,232	
expenditure and invest- ment	protection investment	Environmental management cost	million	1,981	2,717	2,922

^{*} Usage of recycled input materials: Due to a past reporting error, Hansol Chemical does not have any usage of recycled input materials.

* SOx emissions: There is a decrease in emissions due to differences in measurement methods.

Category			Unit	2020	2021	2022
No. of employ	yees Unit		Employees	563	632	658
		Total		13	14	16
	Executives	Female		1	1	1
		Male		12	13	15
Current		Total	Employees	508	520	548
employees (by employ-	Full-time	Female		65	76	80
ment type)		Male		443	444	468
		Total		42	98	94
	Non-regular worker	Female		0	0	2
	WOIREI	Male		42	98	92
Outsourced I	human resour	ces	Employees	0	0	0
Current em-	Full-time			563	632	658
ployees(by work type)	Part time		Employees	0	0	0
Current employ-	Local		Employees	560	629	653
ees(by work location)	Overseas		Employees	3	3	5
	No. of male e	mployees	Employees	497	555	575
	Ratio of male		%	88	87	87
	No. of female		Employees	66	77	83
		ale employees	%	12	12	13
	No. of male e		Employees	12	13	15
	Ratio of male		%		2	2
	No. of female		Employees	1	1	1
	Ratio of fema	le executives	%	0.2	0.2	0.2
	No. of Male n level or highe	nanagers (manager er)	Employees	-	-	116
	Ratio of Male level or highe	managers (manager	%	-	-	18
	No. of female (manager lev		Employees	11	12	16
	Ratio of fema (manager lev		%	11	12	12
		No. of people with disabilities	Employees	5	4	5
	Recruit-	Ratio of employees with disabilities	%	1	1	1
Employee		No. of senior employees (over 55 years old, excluding executives)	Employees	24	13	23
diversity		Ratio of senior employees	%	4	2	4
	ment of the socially	No. of foreign employees	Employees	0	0	0
	disadvan- taged	Ratio of foreign employees	%	0	0	0
		No. of high school graduates	Employees	146	135	153
		Ratio of high school graduates	%	26	21	23
		No. of national veterans	Employees	4	4	4
		Ratio of national veterans	%	1	1	1
		No. of employees (Under 30 years)	Employees	-	-	220
		Ratio of employees (Under 30 years)	%	-	-	34
	Ratio of	No. of employees (30-50 years)	Employees	-	-	360
	employees	Ratio of employees (30-50 years)	%	-	-	55
		No. of employees (Over 50 years)	Employees	-	-	72
		Ratio of employees (Over 50 years)	%	-	-	11

Category			Unit	2020	2021	2022
	Male			54	123	79
Recruit-	female			11	15	20
ment of new		Under 30 years	Employees	49	116	71
employees	By age	30-50 years		13	20	27
		Over 50 years		3	2	1
		Average of male earnings	KRW million	90	88	101
		Average of female earnings		60	64	103
		the ratio of male to female's basic salary	%	66	72	103
	Gender-	Average compensation of male executives	KRW million	-	-	914
		Average compensation of female executives			-	2,940
		the ratio of male executive to female executive's basic salary	%	-	-	322
Compen- sation of	based base salary and	Average of regular male earnings	KRW	-	-	106
Employee	compensa- tion	Average of regular	million			69
		the ratio of regular male to regular	%			65
		female's basic salary Average of				
		contractual male earnings Average of	KRW million			58
		contractual female earnings			-	0
		the ratio of contractual male to contractual female's basic salary	%	-	-	0
	Average tenu		Years	7	6	7.6
Job	Total number	r of job changers	Employees	-	-	67
security	Voluntary ret	irement rate	%	-	-	91
	Involuntary re	etirement rate	70	-]	-	9
	No. of benefi	ciaries of education	Employees	485	553	652
Γalent de-	Total budget training	for employee	KRW million	868	859	329
velopment		enses per employee	KRW thousand	451	522	504
	Average train employee	ning hours per	Hours	17	19	79
	No. of industri	ial accidents occurred	Agendas	2	2	0
	Industrial acc	cident rate	%	0	0	0
ndustrial accidents	No. of deaths	3	Employees	1	0	0
	No. of injured			1	2	0
	Duration of w	ork-hour loss	Hours	0	0	0
	Supplier	Total number of suppliers	Number	147	148	206
Mutual growth	status	Total amount of purchases from suppliers	KRW	105,929	144,366	262,609
g. 0 a.i	Support for Small and Medium Enterprises	Total purchase amount from small and medium enterprises	million	32,615	43,876	56,506
		de law violations	Incidents	0	0	0
Fair trade	Fines impose	ed	KRW million	0	0	0
Information security breaches	No. of custor and loss	mer data leak, theft,	Incidents	0	0	0
Complaints on discrimi- nation in the workplace	No. of compl discriminatio filed and han	n in the workplace	Incidents	0	0	0
Violations	No. of penaliz	zed or sanctioned violations		0	0	0
of Regulations		ing warnings for	Incidents	0	0	0
and Self- Regulatory Guidelines	No. of violatin	ng internal self- uidelines within the		0	0	0
	No. of labor l	nsses in				0
Labor			Incidents			

Category			Unit	2020	2021	2022
	Employees	Total		1	2	8
	who have taken pa-	Male	_	1	0	4
	rental leave	Female	_	0	2	4
	No. of employees	Total	Employees	1	1	7
	who have returned to work after	Male		1	0	4
	parental leave	Female		0	1	3
Parental leave	Ratio of employees who have returned to work after parental leave		%	100	50	88
	No. of em- ployees who have worked	Total		1	0	4
	over 12 months after returning	Male	Employees	1	0	3
	from paren- tal leave	Female		0	0	1
	worked over 1	oyees who have 12 months after n parental leave	%	100	0	50
	Duration of education for human rights		Hours	1	1	1
	Number of parights educati	rticipants in human on	Employees	496	617	625
Human rights	Percentage of participants in human rights education		%	88	98	100
policies and procedures	Duration of ed prevention of	ducation for workplace bullying	Total _	388(1)	132(1)	625(1)
	Duration of ed harassment p	ducation for sexual revention	hours (per em-	451(1)	609(1)	625(1)
		on programs (such ghts education)	ployee)	461(1)	630(1)	625(1)
	Investment	Cash donation		296	212	214
	in CSR (including	In-kind donation	KRW million -	0	0	1
	donations)	Business expenses	TIIIIIOTT -	0	0	0
CSR	Duration of vo	olunteer work		480	420	513
	Duration of vo	olunteer work per	Hours	0.9	0.7	0.84
	Direct and inco	direct beneficiaries	Employees	500	500	700

Category		Unit	2020	2021	2022
	No. of BOD meetings	Meeting	-	-	8
	No. of agenda items	Agenda	-	-	14
BOD	Preliminary deliberation	%	-	-	0
Structure	Decisions on revised agenda	Aganda	-	-	0
	Report agenda	Agenda -	-	-	3
	BOD attendance rate	%	-	-	100
	Male	Employees -	-	-	5
	Female	Employees -	-	-	1
	Ratio of female directors	%	-	-	16.7
BOD	Under 30 years		-	-	0
Diversity	30-50 years	Employees -	-	-	2
	Over 50 years	Litipioyees -	-	-	4
	No. of external directors		-	-	3
	Ratio of external directors	%	-	-	50
	Total number of business facilities		-	-	4
Anti- corruption in business	Number of business facilities assessed for corruption risk	Number	-	-	0
facilities	Ratio of business facilities assessed for corruption risk	%	-	-	0
	No. of board members who have received ethics training	Employees	-	-	6
	Ratio of board members who have received ethics training	%	-	-	100
	No. of employees who have received ethics training	Employees	563	632	652
Anticor- ruption	Ratio of employees who have received ethics training	%	100	100	100
policy and procedures	No. of board members who have signed the ethics pledge	Employees	-	-	6
	Ratio of board members who have signed the ethics pledge	%	-	-	100
	No. of employees who have signed the ethics pledge	Employees	522	593	614
	Ratio of employees who have signed the ethics pledge	%	93	94	93
Anticor- ruption violations	No. of violations of anticorruption laws	Incidents (employ- ees)	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 reven	ue		27,655	36,543	42,585
Income statement	Selling, general, and administrative expenses			13,813	15,289	17,133
	Operating p			13.842	21.254	25,451
	Financial inc		KRW	290	864	1,660
	Financial co	sts	million	1,407	449	382
	Equity method profit/loss			0	0	(3,321)
	Other income			5,675	2,708	3,527
	Other costs			1,685	900	3,236
	Net income before the deduction of corporate tax Expenses			16,715	23,477	23,699
	Assets	Current assets		66,120	74,930	84,233
		Non-current assets		96,485	105,883	51,900
	Liabilities	Current liabilities		38,868	25,968	24,861
Statement	Liabilities	Non-current debt		9,321	23,536	19,971
of financial position		Equity interest of parent company shareholders	KRW million	114,416	131,309	147,966
	Capital Equity interest of non-controlling shareholders			0	0	0
Research and devel-	Total R&D e	xpenses for the od	KRW million	3,050	3,956	3,973
opment	R&D expens	ses as a ratio of sales	%	2.59	2.60	2.21
status	Number of F	R&D personnel	Employees	31	29	32

(Based on standalone financial statements)

Environm	ent					
Category			Unit	2020	2021	2022
Consumptio materials	n of Raw	Raw materials consumed	Metric Ton/year	11,975	13,010	12,757
Consumption of materials that contain recycled		consumed	Metric Ton/year	2,191	2,490	2,260
materials		Ratio of recycled materials (reused materials) consumed	%	18	19	18
	T-1-1	Total energy consumption		223	264	273
Energy	Total energy consump-tion	Scope 1 energy consumption	TJ	-	-	76
consump- tion	tion	Scope 2 energy consumption		-	-	198
	Energy intens	ergy intensity		-	-	1,516
Total water of				2,022,800	2,057,568	2,156,459
		Amount of water consumed		220,255	221,847	218,792
	Yanggam Plant	Amount of underground water consumed		0	0	0
		Amount of sea water consumed		0	0	0
		Amount of water consumed		785,800	786,994	921,301
Water con- sumption (Based on local use)	Hwaseong Plant	Amount of underground water consumed	Metric Ton/year	0	0	0
		Amount of sea water consumed		0	0	0
	UniLab Plant Plant Amount of water consumed Amount of underground water consumed Amount of sea water consumed			1,016,745	1,048,727	1,016,366
		underground water		0	0	0
			0	0	0	
	Water reuse	Amount of water reused		2,003,076	2,034,712	2,140,452
		Water reuse ratio	%	99	99	99
	Emission	Direct emissions (Scope 1)		3,396	4,285	4,131
Green-	amount	Indirect emissions (Scope 2)	tCO2eq	7,643	8,800	9,452
nouse gas emissions	Total Greenh (Scope 1+2)	ouse Gas Emissions		11,039	13,085	13,583
	Greenhouse Intensity	Gas Emissions	tCO2eq/ KRW billion	-	-	76
		SOx		58	351	604
Emission		NOx		8,672	9,958	11,665
	Emission	POP				0
of air	amount	VOC	kg	- 14.007		04.770
pollutants		HAP PM		14,807	20,659	24,778 13,864
		PFC		13,894	13,979	13,864
Emission		BOD		1.7	1.8	1.3
Emission of water	Emission	COD	ppm	0	8.6	12.6
pollutants	amount	SS	- p	2.4	0.8	1.2

Category			Unit	2020	2021	2022
		isposal amount (treat- , domestic standard)		1,239	1,423	1,317
		Industrial waste discharge	- - -	833	909	816
	Industrial	Incineration		0	0	0
	waste	Landfill		33	14	0
Waste		Recycling		800	895	816
	Designated waste	Designated waste discharge	Metric	382	488	467
		Incineration	Ton/year	1	30	56
		Landfill		0	0	0
		Recycling		381	458	411
	Municipal waste	Municipal waste discharge		24	25	34
		Incineration		0	0	0
		Landfill		0	0	0
		Recycling		24	25	34
	Waste	Recycling amount	_	1,205	1,379	1,261
	recycling rate	Waste recycling rate	%	97	97	96
Enviromen- tal expen-	Environ- mental	Environmental investment cost	KRW	91	1,378	731
diture and investment	protection investment	Environmental management cost	million	68	223	59
Eco-friendly	product	Eco-friendly product sales	KRW million	-	-	154
sales		Ratio of eco- friendly sales	%	-	-	0.09

^{*} New disclosed indicators in 2022: Energy intensity, Greenhouse gas emission intensity.

* No incidents of significant hazardous (chemical) substance spills and violations of environmental laws and regulations in the past 3 years (0 incidents).

Social

Category			Unit	2020	2021	2022
No. of emplo	yees Unit		Employees	277	401	432
		Total		7	7	8
	Executives	Female		1	1	1
		Male		6	6	7
Current employees		Total	_	269	363	390
(by employ-	Full-time	Female	Employees _	30_	31	32
ment type)		Male	_	239	332	358
	Non-regular	Total	_	1	2	- 4
	worker	Female	_	1	1	4
		Male		0	1	0
	human resour	ces	Employees	0	29	30
Current em-	Full-time			277	394	421
ployees(by work type)	Part time		Employees	0	7	11
Current employees(by	Local		Employees -	274	398	427
work location)	Overseas			3	3	5
	No. of male e	mployees	Employees	245	345	371
	Ratio of male	employees	%	88.5	86.0	85.9
	No. of female		Employees	32	56	61
		le employees	%	11.6	14.0	14.1
	No. of male e		Employees	6	6	7
	Ratio of male		%	2.17	1.50	1.62
	No. of female		Employees	1	1	1
	Ratio of fema		%	0.36	0.25	0.23
		No. of Male managers (manager			0.20	
	level or higher)		Employees	-	-	75
	Ratio of Male managers (manager					17.4
	level or higher)					17.5
	No. of female managers (manager level or higher)		Employees	7	10	11
	Ratio of female managers (manager level or higher)		%	2.5	2.5	2.6
F		No. of people with disabilities	Employees	2	3	7
Employee diversity		Ratio of employees with disabilities	%	0.7	0.8	1.6
		No. of senior employees (over 55 years old, excluding executives)	Employees	3	8	6
	Recruit-	Ratio of senior employees	%	1.1	2.0	1.4
	ment of the socially	No. of foreign employees	Employees	3	3	3
	disadvan- taged	Ratio of foreign employees	%	1.1	0.8	0.7
		No. of high school graduates	Employees	88	156	165
		Ratio of high school graduates	%	31.8	38.9	38.2
		No. of national veterans	Employees	2	2	2
		Ratio of national	%	0.7	0.5	0.5
		veterans				

		No. of employees	Employees			
		(Under 30 years)	Lilipioyees	-	-	64
		Ratio of employees	%	-	-	14.8
mmler: -	Datia -f	(Under 30 years) No. of employees	Employees			315
mployee iversity	Ratio of employees	(30-50 years) Ratio of employees	%			72.9
		(30-50 years) No. of employees				
		(Over 50 years) Ratio of employees	Employees			53
	Mala	(Over 50 years)	%	-	- 477	12.3
ecruit-	Male female				177	105 7
ent of new		Under 30 years	Employees	55	59	30
nployees	By age	30-50 years		61	113	82
		Over 50 years Average of male		2 53	9 55	64
		earnings Average of female	KRW million	44	45	48
		earnings the ratio of male to				
		female's basic salary Average compensa-	%	83	81	75
		tion of male executives	KRW			273.37
		Average compensation of	million	-	-	244.73
		female executives the ratio of male				
	Gender- based base salary and compensa- tion	executive to female	%	_	_	89.5
ompen- ition of		executive's basic salary				
mployee		Average of regular male earnings	KRW	-	-	65.05
		Average of regular female earnings	million	-	-	59.58
		the ratio of regular male to regular	%	_	_	91.6
		female's basic salary Average of contractual				31.0
		male earnings	KRW	-		0
		Average of contractual female earnings	million	-		2.44
		the ratio of contractual male to contractual female's basic salary	%	-	-	-
	Average tenu		Years	5.8	4.9	5.2
b		of job changers	Employees		-	83
curity	Voluntary ret Involuntary re	etirement rate	%			95.2 4.8
	No. of benefi	ciaries of education	Employees	277	401	402
lone -l-	Total budget training	for employee	KRW million	123	185	225
lent de- lopment		enses per employee	KRW thousand	445	462	560
	Total training	hours	Hours	3,687	4,082	3,818
	Average trainir	ng hours per employee No. of industrial		13	10	9
		accidents occurred	Agendas			1
	Full-time	Industrial accident rate	%	0.7	0.5	0.3
	employees	No. of deaths No. of injured	Employees	2	2	0
		Duration of work- hour loss	Hours	1,104	1,008	128
dustrial cidents		No. of industrial	Incident			
		accidents occurred	Incidents			0
	Subcon-	Industrial accident rate	%	-	-	0
	tractors	No. of deaths	Employees		-	0
		No. of injured Duration of work-	Hours			0
		hour loss Total number of				
	Supplier	suppliers Total amount of	Number	102	114	104
ıtual	status	purchases from suppliers		49,792	71,199	76,311
owth	Support for	Total purchase	KRW million			
	Small and Medium	amount from small and medium		31,239	47,211	57,265
	No. of fair tra	enterprises de law violations	Incidents			0
ir trade	Fines impose		KRW million	-	-	0
formation curity	No. of custor and loss	ner data leak, theft,	Incidents	0	0	0
reaches						

Category			Unit	2020	2021	2022
Category	No of populi	zed or sanctioned	Offic	2020	2021	2022
Violations of	for regulatory	violations		0	0	0
Regulations	No. of receiving regulatory vice	ng warnings for	Incidents	0	0	0
and Self- Regulatory		ng internal self-				
Guidelines	regulatory guidelines within the company			0	0	0
Labor losses	No. of labor lo subcontracto		Incidents	-	-	0
	Employees	Total		6	1	9
	who have	Male	-	3	0	4
	taken pa- rental leave	Female	-	3	1	5
	No. of em- plovees who	Total	Employees	1	6	5
	have returned	Male		0	4	2
	to work after parental leave	Female	-	1	2	3
Parental leave		yees who have rk after parental leave	%	100	86	50
	No. of employ- ees who have	Total		6	6	8
	worked over 12 months after	Male	Employees	1	2	5
	returning from parental leave	Female		5	4	3
	worked over	oyees who have 12 months after n parental leave	%	100	86	72
	Duration of ed	ducation for human	Hours	-	1	1
	Number of pa	articipants in human	Employees	-	369	399
Human rights	Percentage of human rights	f participants in education	%	-	92.0	92.4
policies and procedures	Duration of edu of workplace b	ication for prevention	Total	236(2)	369(2)	798(2)
	Duration of ed	ducation for sexual	hours (per em-	236(1)	369(1)	399(1)
	Other educat	ion programs (such ights education)	ployee)	236(2)	369(2)	798(2)
	Investment	Cash donation		0	0	18
	in CSR	In-kind donation	KRW	3	10	10
	(including donations)	Business expenses	million -		-	2
CSR	Duration of vo	olunteer work		18	18	300
		unteer work per	Hours	0.06	0.04	0.69
		direct beneficiaries t programs	Employees	65	86	179

Governance

Category		Unit	2020	2021	2022
- Mogory	No. of BOD meetings	Meeting			8
	No. of agenda items	Agenda			13
	Preliminary deliberation	%			100.0
BOD	Decisions on revised agenda				0
Structure	Report agenda	Agenda	_	-	7
	BOD attendance rate			-	93.8
	Non-executive director attendance rate	%		_	91.7
	Male		_	-	5
	Female	Employees	_	-	1
	Ratio of female directors	%		-	16.7
BOD	Under 30 years			-	0
Diversity	30-50 years	F	-	-	1
	Over 50 years	Employees	-	-	5
	No. of external directors		-	-	3
	Ratio of external directors	%	-	-	50.0
Anti-	Total number of business facilities		-	-	4
corruption n business acilities	Number of business facilities	Number			0
	assessed for corruption risk				U
	Ratio of business facilities	%			0
	assessed for corruption risk	70			
	No. of board members who have	Employees			3
	received ethics training	Linployees			
	Ratio of board members who	%	_	_	50
	have received ethics training				
	No. of employees who have	Employees	274	369	399
	received ethics training				
Anticor- ruption	Ratio of employees who have received ethics training	%	98.9	92	92.4
policy and	No. of board members who have	Employees			0
procedures	signed the ethics pledge				
	Ratio of board members who	%	-	-	0
	have signed the ethics pledge				
	No. of employees who have signed the ethics pledge	Employees	244	311	353
	Ratio of employees who have	%	88.09	77.56	81.7
A 11	signed the ethics pledge	1 11 1			
Anticor- ruption	No. of violations of anticorruption	Incidents (employ-	0	0	0
ruption violations	laws	(employ- ees)	0	0	U

110 2023 Hansol Group Sustainability Report Sustainability Essentials Hansol Sustainability Action Introduction Appendix 111

GRI CONTENT INDEX From 2022 January 1st ti 2022 December Hansol Holdings has published its report the GRI standards. Application of GRI 1: Foundation 2021

From 2022 January 1st ti 2022 December 31st, Hansol Holdings has published its report based on

UNIVERSAL STANDARDS

General Disclosures 2021

112

2-1 2-2 2-3 2-4 2-5 2-6 2-7 2-8	Detailed organizational information The list of companies included in the sustainability report Reporting period, reporting frequency, reporting contact Recomposition of information External verification Activities, value chain, and other business relationships	6.3.10/6.4.1~ 6.4.5/6.8.5	6, 7 2, 6~15 2 X 114
2-3 2-4 2-5 2-6 2-7	Reporting period, reporting frequency, reporting contact Recomposition of information External verification Activities, value chain, and other business relationships	_	2 X 114
2-4 2-5 2-6 2-7	Recomposition of information External verification Activities, value chain, and other business relationships	_	X 114
2-5 2-6 2-7	External verification Activities, value chain, and other business relationships	_	114
2-6	Activities, value chain, and other business relationships	_	
2-7	<u>- </u>	_	
	Employoog		6~15
2 0	Employees		88, 90, 92, 94, 96, 98,
2-0	Non-employee workers	_	100, 102, 104, 106, 108, 110
2-9	Governance structure and composition		72~75
2-10	Appointment and selection of the top governance body	_	74, 75
2-11	The chairperson of the top governance body	— 6.2/7.4.3/7.7.5	
2-12	The role of the top governance body in overseeing impact management	_	74
2-13	Delegation of responsibility for impact management		Not delegating responsibility for impact management
2-14	The role of the top governance body in sustainable management reporting	6.2/7.4.3/7.7.5	74
2-15	Conflict of interest		No conflict prevention process in place
2-16	Communication regarding critical matters		Insufficient information (no relevant content)
2-17	The comprehensive knowledge of the top governance body		Scheduled for education at least once per year starting from 2023
2-18	The performance evaluation of the top governance body		Insufficient information (no relevant content)
2-19	Compensation policy	_	Not disclosed due to confidential information
2-20	Compensation determination process		Insufficient information
			(no relevant content) Not disclosed due to
2- 2- 2- 2- 2- 2-	112 113 114 115 116 117	The role of the top governance body in overseeing impact management Delegation of responsibility for impact management The role of the top governance body in sustainable management reporting Conflict of interest Communication regarding critical matters The comprehensive knowledge of the top governance body The performance evaluation of the top governance body Compensation policy	The chairperson of the top governance body The role of the top governance body in overseeing impact management Delegation of responsibility for impact management The role of the top governance body in sustainable management reporting 6.2/7.4.3/7.7.5 Conflict of interest Communication regarding critical matters The comprehensive knowledge of the top governance body The performance evaluation of the top governance body Compensation policy

Topic		Description	ISO 26000	Page
	2-22	Statement on sustainable development strategy	4.7/6.2/7.4.2	5
	2-23	Policy commitment		00.04.00
	2-24	Policy commitment integration		22~24, 62
Strategies,	2-25	Procedure for mitigating negative impacts		Insufficient information (no relevant content)
policies, and	2-26	Mechanism for raising concerns and seeking advice	6.6.3	62
practices	2-27	Legal and regulatory compliance (compliance)		88~111
	2-28	Membership in associations	7.8	121
	2-29	Stakeholder engagement approach	5.3	86
	2-30	Collective agreement		Insufficient information (no relevant content)

Material Topics 2021

Topic		Description	ISO 26000	Page
	3-1	Major issue decision-making process	5.2/7.3.2~7.3.4	86
Key topics	3-2	List of major topics	5.2/1.5.2~1.5.4	87
	3-3	Evaluation of the approach to managing key topics	7.5.3/7.6.2	87

Topic Specific Standards Economic Performance

Topic		Description	ISO 26000	Page
Economic	201-1	Direct creation and distribution of economic value	6.8.1~	6~15, 88~107
performance	201-2	Financial impact of climate change and risks and opportunities for business activities	6.8.3/6.8.7/6.8.9	50~53
Indirect economic effects	203-1	Investment in and support for social infrastructure	6.3.9/6.6.6/ 6.6.7/6.7.8/	70, 71
	203-2	Significant indirect economic ripple effects and impacts	6.8.1~ 6.8.2/6.8.5/ 6.8.7/6.8.9	26~71
Anti-corruption	3-3	Evaluation of the approach to managing important topics		87
	205-2	Announcement and training on anti-corruption policies and procedures	6.6.1~6.6.3	88~107

Topic Specific Standards Environmental Performance

Topic		Description	ISO 26000	Page
	3-3	Assessment of the approach to managing important topics		87
Energy	302-1	Energy consumption within the organization	- 6.5.4 -	88~107
	302-5	Reductions in energy requirements of products and services	- 6.5.4 -	53, 54
\A/=4=:	303-2	Management of water discharge-related impacts	C.F.4	56, 57
Water	303-3	Water withdrawal	- 6.5.4 -	88~107
	3-3	Assessment of the approach to managing important topics		87
Discharge	305-1	Direct emissions (Scope 1)	6.5.5	
	305-2	Indirect emissions (Scope 2)		88~107
	305-7	Nox, Sox, and Other significant air emissions	-	
Waste	3-3	Assessment of the approach to managing important topics		87
	306-2	Management of material impacts related to waste		56, 57
	306-3	Total weight of waste and type	6.5.6	31, 64
	306-4	Recycling	_	26, 54

Topic Specific Standards Social Performance

114

Торіс		Description	ISO 26000	Page
	3-3	Assessment of the approach to managing important 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
Occupational health and safety	3-3	Assessment of the approach to managing important topics		87
	403-1	Occupational health and management system		25, 64
	403-4	Worker participation, consultation, and communication on occupational health and safety	6.4.6/6.8.8	65
aicty	403-5	Worker-training on occupational health and safety	0.4.0/0.0.0	64
	403-9	Occupational accident rate		88~107
	3-3	Assessment of the approach to managing important topics		87
raining and ducation	404-2	Programs for upgrading employees skills and transition assistance programs		62, 63
	404-3	Percentage of employees receiving regular performance and career development reviews	6.4.7/6.8.5	88~107
	3-3	Assessment of the approach to managing important topics		87
nd equal	405-1	Diversity of governance bodies and employees	6.2.3/6.3.7/	88~107
pportunity	405-2	Ratio of basic salary and remuneration of women to men	6.3.10/ 6.4.3/6.4.4	
ocal ommunities	413-1	Operations with local community engagement, impact assessments, and development programs		70, 71
Supplier social ssessment	r social 414-2 Negative social impacts in the supply chain and actions taken			33
Customer safety and health	3-3	Assessment of the approach to managing important topics		87
	416-2	Instances of non-compliance with regulations regarding the health and safety impact of products and services		해당 위반 사례 없음
Marketing and	417-1	Requirements for product and service information and labeling	6.7.3	50, 51

UN SUSTAINABLE DEVELOP-MENT GOALS (UN SDG)

The UN 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. For the responsible fulfillment of our tasks, we disclose our sustainability report.

Core issues	UN SDGs	Activities
Ethical management and anti- corruption	3 seconds	Conducting compliance management assessments for all affiliated companies Checking the risk management system of all affiliated companies Establishing an ESG performance management system for all affiliated companies
Management of air pollutants in the manufacturing process	12 schools 9 schoolste	- Hansol Chemical replacing energy-efficient facilities Hansol Technics reducing greenhouse gas emissions through the replacement of aging facilities.
Creation of a safe work environment	4 mm 5 mm 6 mm 6 mm 6 mm 7 mm 7 mm 7 mm 7	 Establishment of the HSRS (Hansol Safety Rating System) for safety and health management assessment across all affiliates. Hansol Paper, Hansol Logistics, Hansol PaperTech, Hansol Chemical, Hansol Technics, and Tapex obtaining ISO 45001 certification.
Increase of product responsibility and customersatisfaction	7 ====== 13 ===	 Hansol Holdings to host the Group Innovation Olympic Hansol Group - KAIST Establishment of Joint Research Center in the field of small department heads ISO 9001 certification of international quality management system by 7 Hansol Group companies
5 Promotion of work-life balance	13 888	- Hansol Paper, Hansol Chemical, and Tapex have been certified as family-friendly companies - Introduction of a specialized telecommuting employment platform for the disabled
6 Employee competency development support	4 more	- Establishing an online education curation system based on the competency diagnosis of executives and employees of all affiliates - Tapex Introduces In-house Recommendation System for Employees
Reduction of raw material usage and expansion of recycling	6 summin	- Hansol Paper, Hansol HomeDeco Increase the Percentage of Eco- friendly Products - Hansol HomeDeco Expands Percentage of Recycled Raw Materials
Safe waste, wastewater, and chemical discharge management	14 finance 15 fina	- Hansol Chemical to reduce wastewater emissions by 30,000 tons - Hansol Paper, Hansol HomeDeco, Hansol PaperTech, Hansol Technics, and Environmental Facility Investment
9 Building a flexible organizational culture	6 savers. 13 Sav	Hansol Technics, Tapex, Hansol IONES holds intergenerational meeting Hansol PNS operates flexible work system
In-house human rights policy & education	5 mm,	 Hansol Holdings prepares guidelines for Human Rights Management Operations Operation of psychological counseling programs for group executives and employees

THIRD-PARTY ASSURANCE STATEMENT

Dear Management and Stakeholders of HANSOL HOLDINGS

Introduction

The Korean Standards Association ("KSA") was commissioned by HANSOL HOLDINGS to perform a third-party Assurance Engagement of '2023 HANSOL GROUP SUSTAINABILITY REPORT' (the "Report"). KSA presents independent opinions as follows as a result of feasibility of the data contained in this Report. HANSOL HOLDINGS has sole responsibility for content and performance contained in this Report.

Independence

As an independent assurance agency, KSA does not have any kinds of commercial interest in businesses of HANSOL HOLDINGS apart from undertaking a third-party assurance on the Report. We have no other contract with HANSOL HOLDINGS that may undermine credibility and integrity as an independent assurance agency.

Assurance Standards and Level

This Assurance Engagement followed the AA1000AS v3 assurance standards to provide Moderate Level assurance. We checked the four principles of inclusivity, materiality, responsiveness and impact in combination with information credibility of the Report. We also reviewed Universal Standard and Topic Specific Standard whether the Report content was created in accordance with the GRI Standards.

Assurance Type and Scope

.Assurance Provider performed Type1 assurance that assessed compliance with four principles of AA1000AP (AccountAbility Principles) 2018, as well as the accuracy and reliability of performance information contained in the report.

The assurance scope is from January 1 2022 to December 31 2022 and the assurance focused on systems and activities including policies and goals, businesses and programs, standards, and achievements of HANSOL GROUP's sustainability management, including HANSOL HOLDINGS and its affiliates. While the company's environmental and social data as well as financial data was verified, the scope of review concerning stakeholder engagement was limited to the materiality assessment process.

Assurance Methodology

We used the following methods to gather information, documents and evidence with respect to the assurance scope.

- Confirmation of HANSOL HOLDINGS's stakeholder participation and materiality assessment process by sustainability ex-
- Analyses of articles related to HANSOL HOLDINGS's sustainability management published by domestic media outlets
- Review of the consistency between the financial performance data and the company's audit report/publicly announced data by Certified Public Accountant.
- Verification of consistency between environmental information disclosure data and information provided by greenhouse gas verification inspector.
- Examination of internal documents and basic materials

Assurance Results and Opinions

116

KSA reviewed the draft version of this Report to present our opinions as an assurance provider. Modifications were made of the Report content if deemed necessary. We were not aware of any significant errors or inappropriate descriptions in this Report as a result of our Assurance Engagement. As such, we present our opinions of the 2023 HANSOL GROUP SUSTAINABILITY REPORT as follows.

Inclusivity

Has HANSOL HOLDINGS engaged its stakeholders in strategically responding to sustainability?

KSA believe HANSOL HOLDINGS is aware of the importance of stakeholder participation and is making an all-out effort to establish a process that will increase their participation. HANSOL HOLDINGS has selected stakeholders including Employees, Executives, partners, shareholders and investors, governments and local governments, customers, communities and NGOs and has communication channels for each group to receive diverse feedbacks and opinions.

Materiality

Has HANSOL HOLDINGS included material information in the Report to help stakeholders make informed decisions? We are not aware of any significant omissions or exclusions of data that is material to stakeholders. We verified that HANSOL HOLDINGS conducted materiality assessment with issues identified from analyses of internal and external environments and reported according to the result.

Responsiveness

Has HANSOL HOLDINGS appropriately responded to stakeholder requirements and interest in this Report?

We verified that HANSOL HOLDINGS responded stakeholders' needs and interests through reflecting stakeholders' opinions in the Report. We are not aware of any evidence that HANSOL HOLDINGS's response to significant issues of stakeholders was reported inappropriately.

Impact

Has HANSOL HOLDINGS appropriately monitored its impact on the stakeholders?

We verified that the Company is monitoring and assessing its impact on the stakeholders by conducting an enhanced verification of its standard business activities. Furthermore, it has been verified that the Company appropriately publishes its findings in the Report.

GRI Standards Disclosure

We confirmed that this Report was prepared in accordance with GRI Standards. Based on data HANSOL HOLDINGS provided, we also confirmed a validity of the contents related to Universal Standards and Topic Standards.

> June 2023 Myung-Soo Kang KSA Chairman & CEO





The Korean Standards Association (KSA), established as a special corporation in accordance with the Law for Industrial Standardization in 1962, serves as a knowledge service provider that distributes and dissem inates such services as industrial standardization, quality management, sustainability management, KS certification and ISO certification. The KSA is committed to the sustainable development of Korean society as an ISO 26000 national secretary, certified GRI training partner, AA1000 assurance provider, KSI (Korea Sustainability Index) operator, and UN CDM DOE (development operational entity), and as an assurance provider of the Korean government's greenhouse gas energy target management system.

AFFILIATES WITH CERTIFICATIONS

(*as of June 2022)

	Certification						
Affiliate	Environment	Quality	Safety and health	Family-friendly company certification	Others		
Hansol Paper	ISO 14001 Green company (Janghang)	ISO 9001 (Daejeon/Janghang/ Sintanjin/Cheonan Plants	ISO 45001 (Daejeon/Janghang/ Sintanjin/Cheonan Plants)	Certified as a family-friendly company	Gold-certified in the EcoVadis sustainability evaluation		
Hansol PaperTech	ISO 14001 (Headquarters)		ISO 45001 (Headquarters)				
Hansol PNS	ISO 14001 (Paper distribution Division headquarters, Paju converting center)				ISMS (Information Security Management System certification, IT service sector Subsidiary Hansol Coever, Youth- friendly Small and Medium-sized Enterprise		
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 area, international freight forwarding areas, trucking area)		
Hansol Technics	ISO 14001 (Jincheon/Ochang Plants)	ISO 9001 (Jincheon/Ochang Plants) IATF 16949 (Automobile quality management system) certification	ISO 45001 (Jincheon/Ochang Plants)		Torwarding areas, tracking area		
Hansol IONES	ISO 14001 (Headquarters/Baran Plants)	ISO 9001 (Headquarters/Baran Plants) AS 9100	ISO 45001 (Headquarters) KOSHA-MS (Headquarters/Baran Plants)		ISO 22301 (Business Continuity Management System) ISO 27001 (Information Protection Management System)		
Hansol Chemical	ISO 14001 (Jeonju/Ulsan Plants) Green company	ISO 9001 (Jeonju/Ulsan Plants) IATF 16949	ISO 45001 (Jeonju/Ulsan Plants)	Certified as a family-friendly company	A company specializing in materials and parts (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)	Certified as a family-friendly company	Materials/parts/equipment business (Korea Evaluation Institute of Industrial Technology)		

118

AWARDS

Affiliates	Award Title	Awarding Organization
Hansol Paper In 2023, Hansol Paper has once again secured the top spot for 20 consecutive years as the "Most Admired Company" in the paper sector in South Korea		KMAC
Hansol HomeDeco	Eye-catching exhibition space	The Seoul Living Design Fair
Honool Logistics	AEO Utilization Case Sharing Competition (Presented to Mr. Jinseok Lee)	The Korea Customs Service
Hansol Logistics	Commendation Certificate from Seoul Main Customs Office (Presented to Mr. Jinseok Lee)	The Seoul Main Customs Office
	"DX Sector Environmental Safety Innovation Competition Cooperation Company Day" in 2022	Samsung Electronics
Hansol Technics	Contributions to rural community cooperation fund in 2021	Ministry of Trade, Industry and Energy
	Commendation Certificate (No. 125758, Presented to Senior Executive Mr. Jongik Choi)	Ministry of Agriculture, Food and Rural Affairs
Hansol IONES	"Businessperson Award" in the labor-management harmony (corporate) category at the Anseong City	The Anseong Chamber of Commerce and Industry
	Top company for "Materials, Components, and Equipment in 2022" and a leading exporter with \$300 million in exports	The Ministry of Trade, Industry, and Energy
	2022 Innovation Excellent Cooperative Company	Samsung Electronics
Hansol Chemical	Won the "Outstanding Award" at the "Fire Safety Management Practical Skills Competition" (presented to Employee Ju Hyeon Kang)	
	commendation certificate on Fire Service Day (presented to Employee Ju Hyeon Kang)	Jeollabuk-do
	commendation certificate for "Disaster Safety Inspection Activities in Industrial Complexes" (presented to Employee Seongjin Kim)	
Tonov	The Minister's Award in the "Outstanding Company in Materials, Components, and Equipment"	The Ministry of Trade, Industry, and Energy
Tapex	Top Exporter with \$50 million in Export	The Korea International Trade Association

LOCAL BUSINESS SITES

Company	Facilities	Address	
Hansol	Headquarters	25th Floor, Pine Avenue Building B, 100 Eulji-ro, Jung-	
Holdings	Headquarters	gu, Seoul, Republic of Korea 23rd-24th Floors, Pine Avenue Building B, 100 Eulji-ro,	
	Janghang Plant	Jung-gu, Seoul, Republic of Korea 149 Jangsan-ro, Janghang-eup, Seocheon-gun, Chungshoongram de Ropublic of Korea	
	Daejeon Plant	Chungcheongnam-do, Republic of Korea 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	3rd Floor, Ubiquitous Building, 68 Pangyo-ro 255	
	Business Headquarters	beon-gil (616 Sampyeong-dong), Bundang-gu, Seongnam, Gyeonggi-do, Republic of Korea	
Hansol	Headquarters	80 Daechi 7-gil, Daejeon-myeon, Damyang-gun,	
PaperTech	Headquarters	Jeollanam-do, Republic of Korea	
	(paper distribution division)	5th Floor, Ilheung Building, 213 Toegye-ro, Jung-gu, Seoul, Republic of Korea	
Hancel DNC	Headquarters (IT Service Division)	13th-14th Floors, Business Tower, Nuritkum Sqare Building, 396 Worldcupbuk-ro, Mapo-gu, Seoul, Republic of Korea	
Hansol PNS	Chungmuro Center	1st-2nd Floors, 22 Changgyeonggung-ro 1-gil, 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	27th Floor, Specialty Contractors Hall, 15 Boramae-ro 5-gil, Dongjak-gu, Seoul, Republic of Korea	
Hansol HomeDeco	TI Business Division	15th Floor, 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	22nd Floor, Pine Avenue Building B, 100 Eulji-ro, Junggu, 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 (Naeheung- dong), 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 68beongil, Daedeok-gu, Daejoen, Republic of Korea	
	Busan Center	11 Floor, Jungang Building, 89 Haegwan-ro (Daechang-dong 1-ga), Jung-gu, Busan, Republic of	
	Busan New Port	Korea #202 Jian Square, 6 Hwajeonsandan 4-ro 30beon-gil,	
	Center Samsung C&T	Gangseo-gu, Busan, Republic of Korea M1 Floor, Kendall Square Bucheon Logistics Park,	
	Fashion Business Team	80 Sinheung-ro 511beon-gil, Bucheon, Gyeonggi-do, Republic of Korea	
Hansol Logistics	Metropolitan Area Business Team	M2 Floor, Kendall Square Bucheon Logistics Park, 80 Sinheung-ro 511beon-gil, Bucheon, Gyeonggi-do,	
	Sintanjin CY	Republic of Korea Sintanjin CY, 24-3 Pyeongchon-dong, Daedeok-gu,	
	Center	Daejeon, Republic of Korea Hansol Paper Sintanjin Plant, 60 Sinilseo-ro 126beon-	
	Sintanjin Center	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	4th Floor, Hansol REF, 55 Omokcheon-ro 132beongil (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	racillues	Audress	
	Headquarters	5th Floor, 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, Heungdeo gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea	
	Suwon Research Center	801, Digital Empire Building C, 16, Dukyeong-daero 1556beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi- do, South Korea	
	Headquarters	2061 Anseong-daero, Gosam-myeon, Anseong-si, Gyeonggi-do, South Korea	
Hansol IONES	Balan Campus	71-29 Balan Gongdan-ro 4-gil, Hwaseong-si, Gyeonggi-do, South Korea	
	Dongtan Technology Research Center	7 Dongtan Sandan 7-gil, Hwaseong-si, Gyeonggi-c South Korea	
Hansol Inticube	Headquarters	13th-14th Floors, Business Tower, Nuritkum Square Building, 396 Worldcupbuk-ro, Mapo-gu, Seoul, Republic of Korea	
	Headquarters	7th-8th Floors, K-Tower, 513, Teheran-ro, Gangnam- gu, Seoul, 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 Yoryong-ri, Samgi-myeon, Iksan-si, Jeollabuk- do, Republic of Korea	
	Headquarters	8th Floor, Ace Gwanggyo Tower 1st, 17 Daehak 4-ro Yeongtong-gu, Suwon-si, Gyeonggi-do, South Kore	
	Yanggam Plant	62-16 Chorok-ro 532beon-gil, Yanggam-myeon, Hwaseong-si, Gyeonggi-do, South Korea	
Tapex	Hwaseong Plant	95-4 Goju-ri, Paltan-myeon, Hwaseong-si, Gyeongg do, South Korea	
	UniLab Plant	108 Manyeon-ro, Hyangnam-eup, Hwaseong-si, Gyeonggi-do, South Korea	
	Kunsan Plant	38-3 San, Saeman-gukgasa-up, Gunsan-si, Jeollabuk-do, South Korea (Scheduled to be completed in October 2023)	

MEMBERSHIP OF ASSOCIATION

lansol Holdings

Korea Listed Companies Association

Korea Investor Relations Service

Korea Employers Federation

Hansol Paper

Korea Design Industry Association

Korean Standards Association (KSA)

Korea HR Management Association

Korea Trade Association

Korea Electrical Engineering & Science

Korea Audit Association

Seoul Chamber of Commerce and Industry

Daeieon Industrial Association

Korea Fire Institute

Korea Chemical Management

Korea Association for Industrial Technology Promotion

Korea Industrial Safety Association

Korea Listed Companies Association

Korea Association of Corporate

Daejeon, Chungnam Environmental Conservation Association

Korea Paper Association

Korea Energy Engineers Association

Korea Fair Trade Federation

Daejeon, Sejong, Chungnam Environmental Technicians Association

Korea Packaging Society (Company)

Korea Exchange

Korea Investor Relations Association

Resource Circulation Industry Promotion Association (GR Association)

Korean Standards Association

Korea Package Design Association

Korea Chamber of Commerce and Industry (Associate Member)

National Federation of Economic Leaders

Korea Construction Association

Overseas Construction Association Korea Construction Engineers

Korea Engineering Association

Korea Electrical Contractors Association

Korea Fire Facilities Association

Korea Electrical Engineering & Science Association

Korea Fire Institute

Korea Professional Construction

Association

Seongnam Chamber of Commerce and

Hansol PaperTech

Korea Paper Industry Cooperative

Korea Fire Institute

Gwangju, Jeonnam, Jeju PSM Council

Korea Trade Association

Hansol PNS

Korea Software Industry Association

Korea Trade Association

Korea Information and Communication Technology Corporation Association

Korea Listed Companies Association

Hansol HomeDeco

Korea Industrial Safety Association

Korea Industrial Health Association

Korea Standards Association

Korea Electrical Engineering and Technology Association Jeonbuk Environmental Management

Korea Safety Association Jeonbuk

Hansol Honam Association

Hansol Safety and Health Council

Korea Professional Construction Association Seoul Chapter

Korea Plywood Association

Korea Exchange Seoul Office

Iksan Corporate Environmental Council

Iksan Regional Safety and Health Council

Korea Energy Technology Association

Jeonbuk Environmental Conservation Association

Korea Waste Recycling Deduction

Jeonbuk Chemical Plant Association

Hazardous Materials Fire Safety Council

Korea Exchange

Korea Trade Association

Korea Listed Companies Association Korea Franchise Industry Association

Korea Fire Safety Association

Hansol Group Seoul Association

Korea Wood Science and Technology Society

Korea PropTech Forum

ansol Logistics

Korea Freight Trucking Association

Korea Freight Forwarders Association

Korea Railway Logistics Association

Korea Customs Logistics Association

Korea International Logistics Association

Korea Trade Association

International Air Transport Association

Korea Port Logistics Association

Korea Authorized Economic Operator Korea Chamber of Commerce and

Korea Listed Companies Association

Hansol Technics

Korea Industrial Health Association

Korea Industrial Safety Association

Korea Environmental Conservation Association

Korea Fire Safety Institute

Korean Nurses Association

Solar Energy Industry Association

Chungbuk Environmental Technology Chungbuk Sejong Environmental

Korea Association for Human Resource Management

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Korea Environmental Conservation

Fire Safety Management Institute

Anseong City Administration Association

Korea Trade Association

World-Class 300 Companies Association

Anseong Chamber of Commerce and

KOSDAQ

Hansol Inticube

Korea Information and Communication

Software Deduction Cooperative

Korea Trade Association KOSDAQ Association

Korea Artificial Intelligence Association

Seoul Chamber of Commerce and

ansol Chemical

Korea Chamber of Commerce and

Korea Trade Association International Semiconductor Equipment

and Materials Association Korea Industrial Safety Association

Korea Fire Safety Association

Ulsan Environmental Technology

Korea Energy Technology Association Jeonbuk Environmental Technology

Wanju Environmental Technology

Jeonbuk Chemical Plant Association

Jeonju Wanju Industrial Complex Fire

Jeonju Industrial Complex Safety and Health Manager Association Jeonbuk Green Business Association

Jeonbuk Business Environment

Tapex

Korea Listed Companies Association

Hwaseong Chamber of Commerce and

Korea Trade Association

Korea Vinyl Environmental Association Korea Industrial Technology Promotion

Korea Adhesive Industry Association

Korea Adhesion and Interface Society Korea Fire Safety Association

Korea Industrial Safety Association Korea Electrical Engineering and

Korea Energy Technology Association

Technology Association



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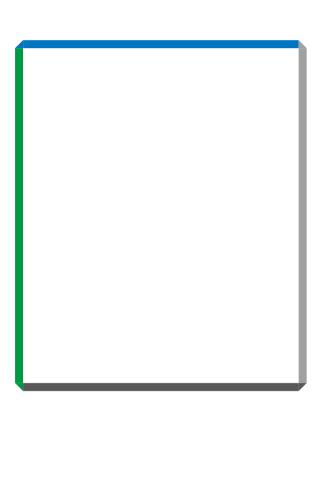
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