HANSOL GROUP SUSTAINABILITY REPORT 2020

Hansol







Hansol

ABOUT THIS REPORT

This is Hansol Group's first sustainability report. Hansol Group is fulfilling its social responsibilities by balancing its economic, environmental and social impact in various business fields. We have selected 12 sustainability topics through materiality assessment and discuss the company's efforts on social responsibility in detail.

REPORT STANDARDS

This report has been created in accordance with the core methods of GRI Standards, a guideline for sustainable management, and reflects ISO 26000.

REPORT SCOPE AND PERIOD

This report includes sustainability management activities and achievements of our ten affiliated companies* in addition to Hansol Holdings. It contains activities and achievements from January 1, 2019 to December 31, 2019 and important qualitative outcomes in the first half of 2020.

*Hansol Holdings Co., Ltd., Hansol Paper Co., Ltd., Hansol Papertech Co., Ltd., Hansol PNS Co., Ltd., Hansol HomeDeco Co., Ltd., Hansol Logistics Co., Ltd., Hansol Technics Co., Ltd., Hansol EME Co., Ltd., Hansol Inticube Co., Ltd., Hansol Chemical Co., Ltd.

VERIFICATION

Financial information is based on the consolidated standard in accordance with the Korean International Financial Reporting Standards (K-IFRS) and non-financial information has been verified by an independent agency, Lloyd's Register.

INQUIRIES ABOUT THE REPORT

For further information on Hansol Group's sustainability management activities and outcomes, please contact us.

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CEO Message

Dear stakeholders,

I would like to express my sincerest gratitude to you for your generous support and encouragement.

Hansol Holdings aims to secure competitive advantages through differentiation and achieve maximum value through continuous growth together with customers and stakeholders.

We have established our business principles which are to be customer-oriented, to create new values, to implement better methods and gain competitive advantages; and organizational principles which are immersion, transparency and speed; and these are shared and practiced among staff and employees. Based on the business principles outlined above, it is our promise at Hansol Holdings to continuously innovate, and to concentrate our abilities on increasing corporate value and creating economic value as we strengthen our competitive edges in business and discover promising new growth engines. We will draw on highly challenging innovative projects that will maximize the competitive advantages in the current business of our subsidiaries, while continuously improving our innovation system that will help our members implement the innovations. Not only will we strengthen our company-wide portfoliosession, but also discover promising ventures and startups through collaboration with external PEs and VCs while creating various new business opportunities by actively searching for ideas inside and outside the company.

In line with this, we will create a corporate culture where our three organizational principles which are immersion, transparency, and speed, form the basis of the spirit and behavior of our staff and employees and are actively exercised in all realms of our management activities. In order to actualize corporate transparency through our advanced governance, Hansol Holdings has established an audit committee consisting of publicly listed subsidiaries and voluntarily discloses our corporate governance. At the same time, we are making efforts to actively communicate with our stakeholders by forming a non-executive director candidate nomination committee and a non-executive director candidate shareholder nomination system; and in recognition of such efforts, we received grade A for governance in the Korea Corporate Governance Service ESG ratings.

Hansol Holdings has set organizational competitiveness through immersion as the direction of its organizational culture and is striving to establish a business culture built on mutual respect. We believe that true immersion is only attainable when a culture of mutual respect is established internally and externally in an organization. Therefore, internally, we are focusing on, building a creative and free work environment through horizontal organization, and striving to establish a sense of respect by building a workplace where individuals can grow with the organization through various systems and operations. Also, externally, we are focusing on gaining respect as a company through social contribution activities.

Starting with the first publication of our sustainability report, we at Hansol Holdings promise better communication with you, our stakeholders, and promise to exercise our four business principles which are to be customer-oriented, create new values, implement better methods, and gain competitive advantages as well as our three organizational principles which are immersion, transparency and speed, in order to promote sustainable management by generating both social and economic value.

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

Thank you.

CEO of Hansol Holdings Jae-Hee Lee



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About Hansol Group

Group Outline

(As of the end of 2019)









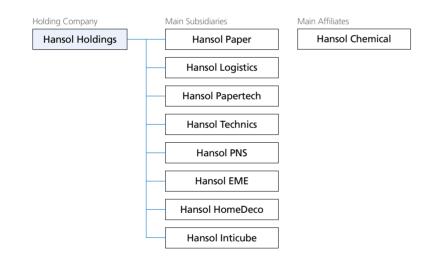


*Based on Domestic Corporation

Group Status

(As of the end of April 2020)

Hansol established the holding company in 2015 and is leading the industry in various business areas. Based on its differentiated competitive advantages and expertise, Hansol is solidifying its position in the global market. From developing raw materials that are the foundation of industry to cutting-edge technology, Hansol is leading the future as it strives to maintain its differentiated competitive advantages in various fields.

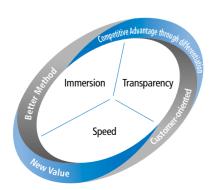


HMS

(Hansol Management System)

Our Mission

Achieve competitive advantages through differentiation, implement maximum value and commit to sustainable development with customers.



Our Principles

Always being customer-oriented. New values determine the future. Our method is the better method.

Differentiated competitive advantages is our survival strategy.

History

1965 • Established Saehan Paper Industry Co., Ltd.

• Samsung Group acquires Saehan Paper Industry Co., Ltd.

1968 • Corporation renamed to Jeonju Paper Co., Ltd.

1981 • First in Korea to achieve 1 million tons in paper production

· Marked 10,000ha in plantation area, an industry first

Korea's first thermal paper developed

• Hansol Logistics launches global logistics platform business

> • Hansol Paper announces new vision to become the best paper manufacturer in Asia

Established Hansol EME

• Hansol Logistics develops world's first intelligent delivery system

· Hansol Group launches new system under chairman Dong-Kil Cho

• Hansol Paper, awarded the Export Tower Award for 400 Million USD on the 41st Trade Day

40th Anniversary & Vision Declaration Ceremony

· Hansol Paper, awarded Grand Prize in Consumer

· Hansol HomeDeco, receives 'F4 Star' certification given to the world's best eco-friendly construction materials (Japanese Ministry of Land, Infrastructure, Transport)

· Hansol Logistics, certified as the primary total logistics enterprise (by the Ministry of Construction & Transportation, Ministry of Maritime Affairs & Fisheries)

2007 • Hansol Paper, obtains international forest certification (FSC)

> · Hansol Paper, becomes the exclusive supplier of express shipping envelopes for the U.S. Postal Service

Acquisition of Hansol Inticube

 Hansol Paper, no.4 for printer paper industry in Asia

Since its incorporation in 1965. Hansol has been on a journey of challenges surmounting limits and pioneering the future. This is a look back into the footsteps and historical moments of that journey

• First in Samsung Group to be listed on the

1991 • Separation from Samsung Group; declaring an independent management system

1992 • Established Hansol Chemical

Completion ceremony of Hansol Paper,

1995 • Established Hansol Culture Foundation

no. 31 in Daejeon for Hansol Paper

· Completion of Hansol HomeDeco, Iksan Factory

• Established Hansol Technics, Hansol PNS

Completion of Hansol Technics, Jincheon Factory

• Hansol HomeDeco, launching afforestation business in New Zealand

Chammaru flooring

• Hansol HomeDeco, launching cogeneration

• Hansol Chemical, world's first in QD mass

• Hansol Group changes to a holdings company & launches Hansol Holdings Announces

• Hansol Technics, launches mobile phone

2016 • Hansol Chemical acquires Tapex

Hansol HomeDeco, established Vietnam

· Hansol Technics, launching LCM business

2020

1960

1970

1980

1990

2000

2010

which made Hansol the company it is today. Korea Stock Exchange 1979 • Established the first Paper Research Institute in the industry

Established Hansol HomeDeco

Janghang Factory

Completion of white duplex board machine

Hansol HomeDeco, launching ceremony of

2011 • Acquisition of Hansol Papertech

• Established Hansol Chemical, Chinese Corporation (Hansol Electronics Materials(Xi'an))

2013 • Opens Museum San

Hansol Management System HMS

manufacturing service (EMS)

corporation

HANSOL HOLDINGS

Company Status

Est. Date January 1965

No. of Employees 44 employees

Website www.hansol.com

Headquarters Fl. 25, Pine Avenue Building B, 100,

Eulji-ro, Jung-gu, Seoul

Our Vision

Achieve competitive advantages through differentiation, implement maximum value and commit to sustainable development with customers.

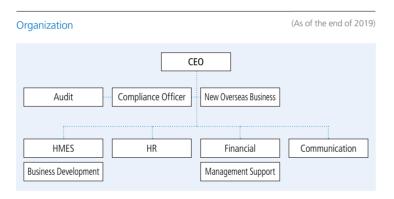
Business Area

Management advice & consultation, management of investment assets and brands



^{*}Hansol Holdings Separate Statement

Hansol Holdings is a pure holding company aiming to strengthen the competitive advantages of its subsidiaries and maximize synergy. Its priority is to maximize the value of its shareholders and build a transparent business environment. Along with enhancing the brand value of 'Hansol' through systematic brand management, Hansol Holdings builds a diversified business portfolio and exercises efficient resource distribution. In addition, it provides business consultation services for its affiliates to ensure smooth flow of management activities and to gain competitive advantages. Hansol Holdings promises to continue to focus its resources and capabilities on building business models with competitive edges and lead the Group's innovation and growth.





HANSOL PAPER

Company Status

Ro. of Employees January 2015

No. of Employees 1,153 employees

Website www.hansolpaper.co.kr

Headquarters Fl. 23&24, Pine Avenue Building B,

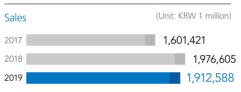
100, Eulji-ro, Jung-gu, Seoul

Vision

The global paper-based materials company with better value for our customers

Business Area

Printing&writing paper, carton board, specialty paper, thermal paper



*Hansol Paper Consolidated Statement

To enhance transparency of governance and specialty in paper industry, Hansol Paper was divided into Hansol Paper for business division and Hansol Holdings for investment division in 2015. Hansol Paper and its various paper products have contributed to cultural and industrial development throughout the nation. Now it is Korea's only comprehensive paper manufacturer that produces printing&writing paper, carton board, specialty paper, and thermal paper in its four plants in Janghang, Daejeon, Cheonan, Sintanjin. It is raising it's brand value through thorough quality management, continuous product development and strong customer service. It continues to focus on high-tech paper-based material with added value, and is expanding its global network and becoming a world-class paper manufacturer.





HANSOL PAPERTECH

Company Status

Est. Date February 2000 No. of Employees 137 employees

Website www.hansolpapertech.com

Headquarters 80 Daechi 7-gil Daejeon-myeon,

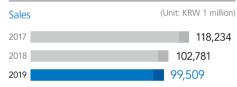
Damyang-gun, Jeollanam-do

Vision

Liner board small giant with differentiated customer partnership

Business Area

Manufactures corrugated container boards including liner board, test liner board, and corrugated medium paper



*Hansol Papertech Separate Statement

Hansol Papertech is strengthening its competitive advantages as a company specializing in corrugated paper production. Hansol Papertech is advancing into different parts of the world such as South East Asia, and China, to generate stable profit while developing into a high-quality corrugated paper manufacturer achieving customer satisfaction based on its competitive advantages.





HANSOL PNS

Company Status

Ro. of Employees Pebruary 1975

No. of Employees 215 employees

Website www.hansolpns.com

Headquarters Fl. 5, Ilheung Bld., 213, Toegye-ro,

Jung-gu, Seoul

Vision

No. 1 integrated paper distributor serving customers through differentiated logistics

Business Area

Paper distribution, IT service



*Hansol PNS Separate Statement

Hansol PNS (Packaging and Solution) is Korea's first large-scale paper distribution company, leading through continuous innovation and growth in capacity since its foundation. With its accumulated know-how, Hansol PNS has built its own integrated distribution system to provide a one-stop integrated purchase system customized to the customer. Also, through its own IT system and by outsourcing, it is exerting its competence in the areas of IT services and solutions including applied software development and maintenance repair of systems to provide service optimized to the business and environment of the customer.



Paper Distribution

Printing&writing paper / Duplex board /
Specialty paper / Imported paper



IT Service

IT Outsourcing / System Integration / IT Solution / RPA Building & Consulting



HANSOL HOMEDECO

Company Status

Est. Date December 1991

No. of Employees 264 employees

Website www.hansolhomedeco.com
Headquarters Fl. 27, 15, Boramae-ro 5-qil,

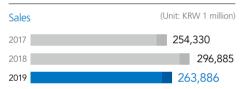
Dongjak-gu, Seoul

Vision

Creating customer value by building an enjoyable space

Business Area

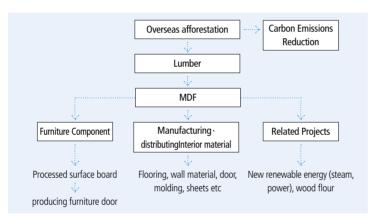
Interior Material: Flooring, wall, door, molding, sheets Furniture Component: MDF, processed boards Others: Overseas afforestation, new renewable energy



^{*}Hansol HomeDeco Consolidated Statement

Hansol HomeDeco specializes in total interior material, offering various construction material and products of world-class quality and design. Also, it has formed a value chain for the wood industry from overseas afforestation to lumber, furniture components, interior material manufacturing and distribution, while continuously expanding its ecofriendly business in areas such as wood flour and new renewable energy. Hansol HomeDeco is dedicated to securing new growth engines for the future by maximizing synergy between businesses and enhancing energy independence and eco-friendly products.

Value Chain





HANSOL LOGISTICS

Company Status

Est. Date August 1973

No. of Employees 358 employees

Website www.hansollogistics.com

Headquarters Fl. 22, Pine Avenue Building B, 100,

Eulji-ro, Jung-gu, Seoul

Vision

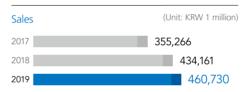
Value-up 1.2.3.

3 times the company value

1 trillion in sales, 20 billion in ordinary profit,

Business Area

Global logistics (sea & air), container transportation, truck transportation, W&D



*Hansol Logistics Consolidated Statement

Hansol Logistics is a logistics company based on industry-specific operational know-how and systems with infrastructure in major bases. Hansol Logistics offers differentiated services to its customers in various logistics areas which include containers, trucking, rail transport and global logistics, W&D and consulting. Based on its know-how and experience acquired in the domestic market, it is becoming a global distributor as it continues to expand its network in China, India, South East Asia alike.



Global Logistics(Sea & Air)

Competitive fares based on large-scale supply



Container Shipping

Provides integrated import/export logistics services through pre-planning of containers



Trucking

Customized transport service based on national networks and transportation resources



W&D

Provides efficient logistics center services based on various references and a rich distribution data system



HANSOL TECHNICS

Company Status

Est. Date August 1966
No. of Employees 657 employees
Website www.hansoltechnics.com

Headquarters Fl. 5, Pine Avenue Building B, 100,

Eulji-ro, Jung-gu, Seoul

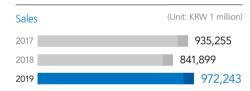
Vision

Global Top-tier Electric/Electronic, Future Technology Solutions Provider

- Jump-up 330: Tripled company value / 30% revenue growth

Business Area

Electric · electronics power module, wireless charging, solar module & generation, LED material production, mobile phone parts & EMS



^{*}Hansol Technics Consolidated Statement

Hansol Technics is highly competitive in the areas of TVs, household appliances, wireless charging, solar power, LED material and mobile phone manufacturing systems (EMS). While concentrating on its PMD, ES, mobile phone business, Hansol Technics is responding quickly to the changes in the field of electronic materials with promising future growth potential and profitability and is rising as a leading IT company.





HANSOL EME

Company Status

Est. Date August 2001

No. of Employees 507 employees

Website www.hansoleme.com

Headquarters Fl. 3&4, 68, Pangyo-ro 255beon-gil,

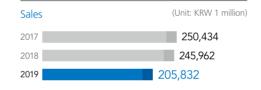
Bundang-gu, Seongnam-si, Gyeonggi

Vision

Doubled business value through specialized EPC + O&M Full Value Chain

Business Area

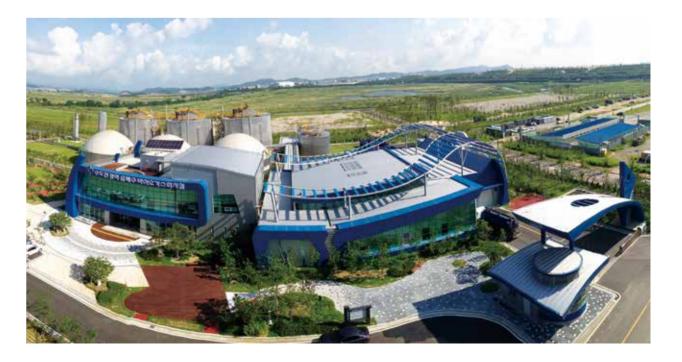
Engineering, purchasing, procurement, construction, O&M in areas of incineration power plant, complex environment plant, paper plant



*Hansol EME Consolidated Statement

Hansol EME provides complex engineering services with differentiated capacity and experience in various areas such as private · public incineration · power plants, complex environment plants, overseas public infrastructure business, paper plants, and construction. Hansol EME is gaining grounds in South East Asia, the Middle East, South America, Europe and Africa while providing top-tier service based on its unique technology such as its biogas liquified biomethane (LBM) technology which was the first of its kind to be developed in Asia.





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HANSOL INTICUBE

Company Status

Est. Date December 2003

No. of Employees 221 employees

Website www.hansolinticube.com

Headquarters Fl. 14, 396 World Cup buk

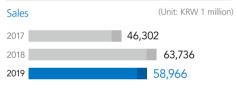
Fl. 14, 396 World Cup buk-ro, Mapo-gu, Seoul

Vision

Achieving 300 billion KRW of enterprise value in 2023 with leading AI contact center industry of next generation and new growth business promotion

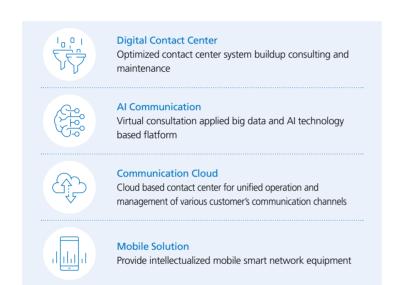
Business Area

Digital contact center, Al communication, communication cloud, mobile solutions



^{*}Hansol Inticube Separate Statement

Hansol Inticube is leading the industry by providing total services from building and maintaining contact centers to operation diagnosis consult ation. Big Data solutions where data gathered through the contact center are analyzed and returned to the customers as insight through innovative services, is its key competence. Hansol Inticube has shown stable and continuous growth in the mobile solutions sector and is establishing its position as a lead provider of contact center solutions based on its next-generation technology.





HANSOL CHEMICAL

Company Status

Est. Date March 1980

No. of Employees 500 employees

Website www.hansolchemical.com

Headquarters Fl. 7&8, K Tower, 513, Teheran-ro,

Gangnam-gu, Seoul

Vision

Global specialty chemicals and materials player delivering innovative value for our customers

Business Area

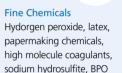
IT chemicals, fine chemicals, eco-friendly chemicals



* Hansol Chemical Consolidated Statement

Hansol Chemical is a cutting-edge fine chemicals company leading the market since its incorporation in 1980s with its outstanding chemical products based on continuous innovation. With large scale production facilities in Jeonju, Ulsan, and Xi'an, China, it is spreading out its business from fine chemicals to electronic materials. Hansol Chemical is continuously growing and taking over new markets in the IT and environment sectors.









secondary cell materials



SUSTAINABILITY FUNDAMENTALS

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IMMERSION

Concentration and unity for outstanding performance

No matter how good the organization's ideological system and strategy are, it is difficult to produce the best results if its members do not sincerely sympathize and practice. In order to produce outstanding results, all its members must be motivated and focused on their work.

With joy and unity through immersion, we should actively challenge and achieve higher goals, so to create a business culture in which individuals and organization grow together.

INTRODUCTION SUSTAINABILITY FUNDAMENTALS SUSTAINABILITY ISSUES APPENDIX 18 HANSOL GROUP SUSTAINABILITY REPORT 2020

Ethics · Law-Abiding Management

Since its foundation, Hansol Group has recognized ethical management as its top corporate virtue and strives to practice transparent management and fulfill its social responsibilities to become a company that is trusted and respected by its stakeholders. It has established a mid/long-term plan for ethical management and encourages all employee to comply with its pledge of ethics.

Ethical Management Direction





- Declare internal and external ethical management
- Establish code of ethics & and rules
- Establish mid/long-term ethical management plans
- Promote train employee and business partners on ethical management



Practice & Establishment

- Strengthen supervision on ethical management practices
- Establish practical guidelines for each type and prepare a booklet of cases
- Build systematic infrastructure for practicing ethical management
- Operate hotlines and communication channels for constant communication with partners on ethical management
 Establish plan for community service activities



- Establish transparent · reliable management based on ethical management
- Achieve business value through ethical management
- Share ethical management goals for growth with partners
- Establish volunteering as part of the company's culture
- Acquire external recognition on external management

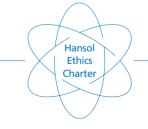
Code of Ethics

Ethics Charter	Code of Ethics	Ethics Guidelines
Ethical management pledge undertaken by staff	Pledge to shareholders and professional stance	Staff & employee conduct guidelines

Hansol Ethics Charter

Through its ethics charter, Hansol Group expresses its willingness to conduct ethical management and continues to pursue transparent and clean spirit. The ethics charter is Hansol Group's promise towards its stakeholders which include customers and shareholders on its ethical responsibility as a member of Hansol.

Ethical management is our commitment to our customers, stakeholders and society and we will conduct transparent and clean management, which we have honored since our foundation.



All staff and employees at Hansol promise to honor the code of ethics and staff conduct guidelines and use them as an index in conducting our work and practice them in our daily lives.

Ethical Conduct Guidelines

All staff and employees at Hansol Group face situations that require extensive decision-making in their daily work when they meet with stakeholders. Hansol Group has established and shared guidelines with employees to help them understand the fundamentals of our regulations and ethics. All employees must comply with the guidelines under the training and supervision of the ethical management division. Any violation of this guideline, depending on the significance of the matter, shall be subject to strict disciplinary action in accordance with the HR regulations and rewards/punishment regulations.

Code of Ethics

Hansol Group is proud for maintaining a clear and transparent organizational culture without any corruption. In order to maintain our tradition as relationships become more complex, and the competitive nature of the society becomes intense, we have reinforced our ethical management.



Commitment to our Shareholders & Investors

- •To respect all reasonable requests and proposals and protect the rights of our shareholders and investors.
- •To provide fair and equal treatment to all shareholders including minority shareholders.
- •To establish mutual trust by faithfully disclosing accurate management information in a timely matter.
- •To increase corporate value and shareholder profit through sustained business innovation and growth strategies.



Commitment to Our Customers

- •To provide the best products and services with customer value as the top priority in management.
- •To provide accurate information on products and services and strictly comply with commitments.
- \cdot To protect the benefits, safety and personal information of our customers and never act unfairly.



Commitment to Our Competitors & Partners

- To promote competition in good faith with competitors and comply with the fair-trade order and related laws.
- •To pursue mutual development by pursuing mutual trust and partnership through fair trade with partners.



Commitment to Our Staff & Employees

- •To create space for self-realization by respecting autonomy and creativity and always providing fair opportunities for improvement of abilities.
- •To not discriminate against anyone on the basis of education, origin, gender, age, religion, or disability.
- •To promote a healthy and developmental corporate culture based on mutual trust and understanding.



Commitment to the society

- •To comply with all regulations as a citizen and member of society, and to comply with all international laws and regulations.
- •To contribute to the national economy and social development though improvement of productivity, creation of jobs, faithful payment of taxes and social contribution.
- •To strive to protect nature and create a clean environment.

Internal Reporting System

Hansol Group allows staff, partners, purchasers, customers, shareholders and all in external stakeholders to report of any fraud or corruption among employees. It manages various channels such as e-mail, phone, mail, and websites through which it shares the status and outcomes of reports. Also, it has a strict protection system for the reporter, and keeps all information confidential in order to protect the reporter from any disadvantages that may arise from filing a report. If a staff member confesses to committing any fraud, the company provides an opportunity for rectification, while reducing the burden through mitigation.



Red Whistle
Reporting of fraud or corruption



Help Online Consulting
Guiding & consulting on the report & process



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Reduced Burden

Mitigation if one confesses to wrongdoing

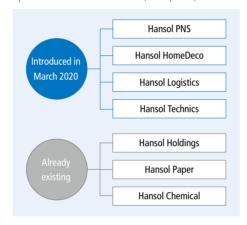
Governance

Hansol Group is devoted to creating a governance structure that secures corporate growth, transparency, integrity, and stability to increase shareholder value and protect their rights and interests. Therefore, in 2019, the company expanded its subsidiary audit committees, and began voluntarily disclosing the corporate governance reports of KOSPI-listed companies of the Group. Also, Hansol Holdings is reviewing and introducing further policies such as publishing a mid/long-term shareholder return policy and introducing a nomination system for non-executive director candidates. In this way, Hansol Group is proactively responding to the demand for disclosure of information and institutional reform regarding governance.

Enhanced Governance Transparency Through More Group Audit Committees

The current commercial law states that any listed company with over KRW 2 trillion in assets must establish an audit committee. In 2019, in order to enhance the transparency of its governance, Hansol Group introduced audit committees for its listed subsidiaries even though they were not subject to mandatory installation. Thus, in addition to the three companies with an audit committee system, four companies have switched to forming an audit committee system. Therefore, we expect to see enhanced independence of the audit work, transparent management and enhanced reliability of the group.

Operation of the Audit Committee (7 companies)



Voluntary Disclosure of the Corporate Governance Report

With ongoing discussions on improving corporate governance in Korea, institutional reform and proactive response by companies are necessary. The voluntary disclosure of the corporate governance report system came into effect in 2017, and Hansol Holdings and Hansol Paper complied with this. In 2018, six major KOSPI listed affiliates of the Group (Hansol Holdings, Hansol Paper, Hansol Technics, Hansol HomeDeco, Hansol Logistics, Hansol PNS) have also taken part in voluntary disclosure which continued on to 2020. Hansol Group's major affiliates promise to enhance the transparency of information and proactively respond to global ESG investment trends by continuously sharing the company governance report.

Improved ESG Evaluation by Korea Corporate Governance Service

Hansol Group is gaining positive external feedback regarding its affiliate's non-financial value as a result of its efforts to innovate governance structure. Hansol Paper in 2018 and Hansol Logistics in 2019 have been awarded the Excellent Corporate Governance Award by the Korea Corporate Governance Service (KCGS), and most of its affiliates are continuously improving their ratings in the governance sector. Hansol Group promises to establish a Groupwide management system for continuous improvement of its systems in governance, environment and social sectors.

Korea Corporate Governance Service Governance (G) Grade

Name	2017	2018	2019
Hansol Holdings	— <u>В</u>	B+	А
Hansol Paper	B+	A	А
Hansol PNS	B	C	B+
Hansol Technics	B+	В	А
Hansol HomeDeco	В	B+	А
Hansol Logistics	В	В	А
Hansol Inticube	-	С	В
Hansol Chemical	B+	B+	С

^{*} Hansol EME and Hansol Papertech are unlisted companies, thus are not subject to evaluation.

As of the end of 2019, the board of directors of Hansol Holdings consists of a total of seven people: four executive directors and three non-executive directors (43% of the total number of members). The non-executive directors exceeds ¼ of the total as required by law and because of the large range of specialties and backgrounds of the members, effectiveness is enhanced. Also, the many non-executive members with proven independence, strengthen the function to check executives.

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Hansol Holdings | Publishes a mid/long-term shareholder return policy

Hansol Holdings has published a mid/long-term shareholder return policy in June 2019 to increase the shareholder value and strengthen the predictability of shareholder returns. In this regard, it plans to use 30~40% of annual free cash flow (FCF) based on separate financial statements, as financial resources for shareholder return policies within the profit available for dividends from 2019 to 2021. It includes cash dividends and treasury stock purchases incineration and so on.

Hansol Holdings | Non-executive director candidate nomination committee and shareholder nomination system

Hansol Holdings has introduced a non-executive director candidate nomination committee to enhance independence and transparency of the board of directors. Non-executive directors must not have any grounds for disqualification required by related laws such as the commercial law and enforcement decree and can only be nominated if they satisfy the company's five appointment principals: professionalism, ethics, fidelity, suitability and fairness. The majority of the non-executive director candidate nomination committee consists of non-executive directors which ensures sufficient independence, and in January of 2020, a 'non-executive director candidate shareholder nomination system' was introduced to provide an opportunity for all shareholders to participate in nominating a non-executive director.

Hansol Holdings | Managing the Audit Committee

Prior Review

Amended Matters

Reported Matters

Meeting Attendance

Non-executive Director Attendance %

Hansol Holdings audit committee is an internal audit organization. The audit committee conducts accounting and business audits, reviews resolves issues delegated by the board of directors, and supervises the execution of duties for reasonable judgment of the executives. The whole audit committee of Hansol Holdings consists of non-executive directors which ensure objectivity and independence, and when needed, external professionals are invited to join the audit committee for expert advice and external opinions.

				Board o				
		Four executive, three non-executive directors						
Audit	Committee				Non-	Executive Direc	tor Candidate Nomir	nation Committee
Three non-	Three non-executive directors					Two non-executive, one executive directors		
Board of Directors Operation					Board Membe	ers (As of the 1st q	uarter of 2020)	
	Unit	2017	2018	2019	Category	Name	Task	Appointment Date
No. of Board Meetings Tin Voted Matters Ca		5	10	9		Jae-Hee Lee	Chief Executive	2015.01.02
		10	21	26		Jac Fice Lee	Officer & Director	2013.01.02

100

3

85.7

%

Cases

Cases

100

97.1

100

100

0

11

93.7

100

Executive

Director

Non-

executive

Dong-Kil Cho

Hoon Chon

Il-Tae Son

Min-Hyuk Koh

Sung-Sup Lee

Nam-Uh Rhee

Director

Director

Director

Audit Committee

Audit Committee

Audit Committee 2020.03.30

1997.02.26

2019.03.26

2020.03.30

2018.03.29

2018.03.29

INTRODUCTION SUSTAINABILITY FUNDAMENTALS SUSTAINABILITY ISSUES 22 HANSOL GROUP SUSTAINABILITY REPORT 2020 23

Risk Management

Hansol Group operates a risk management system in order to respond quickly and systematically to risks. When a risk occurs all members of Hansol Group act according to the three principles of response which are 'fast, accurate and honest'. The initial reporting stage has been removed, allowing one to report immediately to each dedicated department according to the risk management organization. Facts are clearly investigated to consider future legal administrative as well as social responsibilities that could follow. In order to effectively manage risk factors, regular risk management and response training for staff is conducted; also damages caused by risks are minimized through close cooperation between each department and affiliates.

Hansol Group Risk Response Procedure

Hansol Group monitors the status of all risks in order to observe significant signs of danger and effectively respond to the risk. When an accident occurs, immediate action is taken by 'fast, accurate and honest' internal sharing. In order to manage risks that have a material effect on management, risk response procedures have been established and are in operation. For risks that have already occurred, recurrence prevention measures are in place in order to prevent similar risks from reoccurring.



Hansol Holdings | Major Risk Management System

Hansol Holdings conducts company-wide risk management systems centered on each working organization. Major potential risks are identified, and risks that need to be constantly monitored and managed are categorized into financial and non-financial risks; each responsible organization according to the risk type prevents risks through constant monitoring, and minimizes any damages. Depending on the significance of the risk, final management direction is determined by the top executive or reported to the board directors, if needed. In this way Hansol Holdings deals with each risk factor proactively.

Risk Identification & Team in Charge

Category	Risk Type	Risk Factor	Team in Charge	
Financial Risks	Market Risk	Exchange risk, interest rate	— Financial Team	
	Liquidity Risk	Profitability, debt ratio, credit etc.		
Non-financial Risks	Operational Risk	Strategy, competitors, change in technology, investment, economy, industrial environment, and all factors that can affect the overall business	HMES Team	
	Ethical Risk	Ethical compliance, corruption, compliance	Financial Team	
	Safety Risk Environment, health and safety etc.		HR Team	
	Labor & Management Risk Employment, discrimination, labor and management conflicts			
	Reputational Risk	Negative media coverage, sustainability reputation	Communication Tea	

Stakeholder Participation & Materiality Assessment

Hansol Group identified 12 major sustainability management issues to be dealt with by the company through media analysis, benchmarking, and internal external stakeholder surveys. Stakeholders include the government, partners, community, environmental groups and relevant organizations, and Hansol Group has transparently reported its major activities and outcomes on the material issues identified.





(Unit: Points, Total 5 points)

Q. Which of the categories of the UN Sustainable Development Goals do you think Hansol Group will most effectively contribute to?



SDGs #8 Promote sustainable economic growth, full and productive employment and decent work for all



SDGs #17 Strengthen the means of implementation and revitalize the global partnership between business, congress and countries for sustainable development



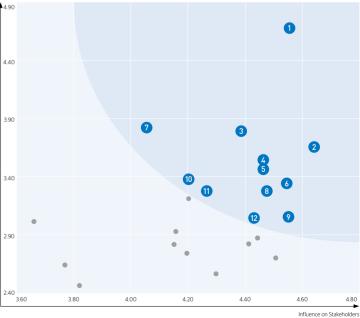
SDGs #12 Ensure sustainable consumption and production patterns

Materiality Assessment Results

Report Section	Material Issues	Page	
	2 Investing in new technology and R&D		
Securing Customer	Improving product responsibility and customer satisfaction		
Trust	Discovering new business areas and enhancing marketing	27-28	
Safe Work Environment	Creating a safe workplace	31-33	
Promoting	Reducing GHG emissions and energy use in response to climate change		
Eco-friendly Management	Managing safe disposal of waste · wastewater · chemicals	- 35-39	
Respecting Diversity of	 Respecting human rights and diversity of employees 	44-4	
Members	5 Developing employee competency	43	
	Managing sustainable supply chain	- 49	
Benefiting the Community	2 Strengthening communication and collaboration with partner companies		
	 Contributing to local community through continuous social activities 		
	3 Strengthening ethical management and eradicating all corruption	18-1	

Communication Channels with Major Stakeholders

Stakeholder	Communication Channe	el	Major Interests
Staff & Employees	Community board Labor-management conference Business Information Session Conversation with executives	Employee portal Employee training Employee satisfaction survey In-house broadcasting Workshops	• Fair rewards, safe work environment, mid/long-term vision, professional training, communication between staff & employees, welfare benefit, labor-management relations
Partner Companies	Growth & partnership workshopsMeetingsSurveys	Growth & partnership day Growth & partnership meetings	Growth & partnership, win- win management, sustainable management
Shareholders & Investors	Shareholders meetings Management brochures Investor meetings Non-executive director candidate shareholder nomination system	Public disclosure, business performance announcement Annual report Sustainability report Corporate Governance Report	Transparent business activities, transparent disclosure and improved governance Improved business portfolio
Government & Local governments	 Ministry of Environment Ministry of Economy & Finance FSC, ISO 	 Participating in policy research Joint collaboration programs 	 Fulfilling corporate obligations and contributing to sustainable growth of the nation through creating jobs, tax compliance, law abidance complying with restrictions; tackling climate change; participating in public policies; complying with workplace safety.
Customers	Website	Promotional al videos Customer satisfaction survey Inviting customers Exhibition, fairs	Enhance quality & service, communication with clients, brand value
Community ·NGOs	Social contribution Communicate with local	Sustainability report Is near the workplace	Reduce waste wastewater, manage harmful material at workplace, create and maintain jobs, help society, boost local economy



SUSTAINABILITY ISSUES

Material Issue 1. Securing Customer Trust	26
Material Issue 2. Safe Work Environment	30
Material Issue 3. Promoting Eco-friendly Management	34
Material Issue 4. Respecting Diversity of Members	42
Material Issue 5. Benefiting the Community	48

TRANSPARENCY

Sincere sharing of procedures and results

Transparent corporate culture, the great legacy of our Hansol Group, is the pride and life creed of Hansol people.

Hansol's transparent corporate culture means open communication to customers, employees, shareholders, and the local community, and that is ethical way of business and responsible attitude for the results. To this end, all employees must perform their duties autonomously, and clear responsibilities and compensations must be followed for the results.

Also, the public and private distinction should be strictly made to create mutual respect and trust synergy by laying the foundation of fair and reasonable corporate culture.

Securing Customer Trust

Sustainability Performance



Hansol Group

Customer data leaks, thefts, losses **0** cases





V Frontiers Program
Initial funding for
4 startups

Hansol Inticube



Customer satisfaction rate achieved 100%

(LG U+ Mobile Business Satisfaction Survey)

Sustainability Context

In the rapidly changing market environment one of the main factors for the sustainability of a company is customer trust. Prompt response to changes to maintain top quality as well as considering the customer's opinions are essential to securing customer trust.

Our Approach

Hansol Group is developing new materials such as nanocellulose, and investing in startups with promising technology to secure new growth engines in light of the fourth industrial revolution. The company is also conducting yearly satisfaction surveys to reinforce its quality control process and enhance customer satisfaction through high quality products and service.



1.1. Securing New Growth Engines

V Frontiers Selection Process

Document evaluation

Individual meeting

 \forall

Select 4 teams in each fields of Distribution, material interior, electrical electronics.

IT solution · service

Supported startups in 2020



Hansol Holdings | Hansol V Frontiers

Hansol Group is boosting the competitive advantages of its existing businesses while at the same time focusing on investing in new promising technologies and projects. While focusing on new technology development, the company is establishing omnidirectional new business strategies such as promoting JV (Joint Ventures). As part of this effort, it is operating the 'Hansol V Frontiers' program, a platform that enables the discovery of innovative startups, in collaboration with 'Blue Point Partners' a professional technology startup accelerator. The program aims to build a solid industrial ecosystem by revitalizing early-stage startups with sufficient ideas and technology but insufficient investment capacity.

Hansol Group uses this to discover and foster support promising domestic startups, as well as provide collaboration opportunities with the Group's affiliates to create synergy. This has potential to develop into a platform for growth and partnership between startups and large companies as it gives Hansol Group the opportunity to secure innovative business ideas while giving promising startups the opportunity to connect their ideas into real businesses.

Hansol Paper | Nanocellulose (DURACLE®)

Hansol Paper combined its various technical capability to pulp which is the main material of

paper and started basic research to manufacture nanocellulose in 2010. And, in 2018, Hansol Paper completed technical development that is applicable to variety industrial fields and built pilot facility. Nanocellulose, is cellulose, an ecofriendly polymer and the main component of the plant cell wall, broken down into 1 billionth of its size. Because it has high heat resistance and can prevent penetration of gas or oil, it is a new future material with infinite uses in IT equipment, vehicles and the medical field. Hansol Paper has developed nanocellulose-based products to overcome the limitations of paper and commercialized new material as well as paper milling technology application products to raise its competitive advantage as a materials company.

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Hansol Technics | Liquid Crystal Display Module (LCM) Business

Through continuous pursuits of new businesses, Hansol Technics has launched its liquid crystal display module (LCM) in 2019. In order to build a basis for LCM mass production, it established Hansol Electronics Vietnam Hochimincity in Vietnam, and is developing a solid LCM production infrastructure through recruiting experts, and conducting systematic training for local recruits. Hansol Technics promises to continue research, development and to discover differentiated projects and collaborate with R&D partners to secure competitive advantages.







Hansol Technics, Landscape view of Liquid Crystal Display Module(LCM) Plant

INTRODUCTION SUSTAINABILITY FUNDAMENTALS SUSTAINABILITY ISSUES APPENDIX 28 HANSOL GROUP SUSTAINABILITY REPORT 2020

Hansol HomeDeco | Enters the Vietnam Flooring Market

Hansol HomeDeco entered the Vietnamese market in 2019. With the rapidly growing market environment in Vietnam's construction industry, laminate flooring market is expected to grow an average annual rate of over 20%. Hansol HomeDeco plans to make new investments to proactively respond to the growing demand and secure market competitiveness by building production facilities in Vietnam. Hansol HomeDeco promises to lead the Vietnamese flooring market with its top quality and design products based on its know-how acquired from its experience in the domestic flooring market.

Hansol HomeDeco | WELLSTONE (Rock Panel) Processing

Hansol HomeDeco WELLSTONE processing business is one of the company's new growth engines. WELLSTONE refers to MDF type high density plate products made of 'rock fiber' extracted from minerals such as granite. It is ecofriendly and safe with excellent processability and incombustibility. Also, because the construction period does not take long and various designs are available, high demand is expected in areas such as interior and exterior material for safety facilities. In the short run, the WELLSTONE market is expected to grow as a substitute for tiles in line with the trend of dry installation of bathrooms. Its growth is expected to be longterm as well, as its range of use expands into areas such as flooring and exterior material.

Hansol Inticube | AI Communication (ISAC)

In line with the rapidly evolving technology, Hansol Inticube has presented a next generation communication platform brand, ISAC (Intelligence Solution for Advanced Communication) for the contact center market.

Based on its knowhow acquired as a leader in the contact center market for the past 20 years, Hansol Inticube has developed Al-based communication cloud and virtual consulting services integrating new technologies such as Al, Big Data, and cloud. Through this, it provides an optimum businesses environment so that customers can acquire business-related insights in the relevant fields. Hansol Inticube will continue to grow by proactively responding to changing markets.

Hansol Chemical | Thin Film Materials

Hansol Chemical, with the goal to be a 'company based on technology that customers desire' started its precursor research and development in January 2007. Its pursuit of research and development led to the establishment of its R&D center, and it is now recognized for its top technology, receiving requests for partnership from university research teams and global semi-conductor companies.

Since its first sales, Hansol Chemical's thin film products have been showing an annual growth of over 20%, and is pressing on as the company's main business. Hansol Chemical shall continue to enhance its competitive advantages in the semi-conductor materials market, and promises to achieve sustained growth through market advancement into various sectors.



Examples of using Rock Panel

SOLUTION PROCESS

Hansol Inticube Al Communication (ISAC)

1.2. Increasing Customer Satisfaction

Hansol Technics Quality meeting operation process



Hansol EME
Quality control
manager training
attendance

Hansol EME Quality control training for managers

7 cases / year

Hansol Technics | Enhancing Quality Control

Hansol Technics has built a systematic process across all stages from raw material management to shipment of final products for quality. Problems drawn from its quality control processes are shared with the whole division and relevant partners for effective quality control. Through monthly meetings, it manages quality goal indexes, and prevent quality accidents by process monitoring and problem extraction. Quality competitiveness is being enhanced through strengthened process diagnosis, quality development, and product technology collaboration with partners.

Hansol HomeDeco | Flooring Installation Services

Hansol HomeDeco understands that installation methods affect quality of the floor, and has established installation service standards. It is promoting customer satisfaction through partnerships with specialized company. When launching new products, it carries out construction training for partnering companies and it has established a systematic customer service system to reduce the occurrence of quality risks. It also proceeds site inspection by visiting installation sites to discuss the schedule as well as to provide follow-up services for customers' satisfaction.

Hansol Inticube | ITSM (IT Service

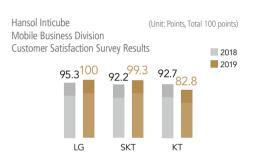
Management) Process

Hansol Inticube has established quality control system through internal audits and external certification. It reached its internal integrated audit goals and renewed ISO 9001 certificate in the first half of 2019. Also, it has established ITSM process to improve the service quality of the CRM solution business and applied it in the second half of the year. Hansol Inticube has established annual plan and is making efforts to manage it systematically for the customers.

Hansol inticube | Conducting Customer Satisfaction Index Survey (CSI)

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Hansol Inticube conducts customer satisfaction index surveys each year to raise customer satisfaction. Customer satisfaction surveys are carried out through various channels such as face-to-face interviews, web surveys, phone calls, SMS or e-mail. Survey outcomes are compared with previous results years to identify improvements by each business divisions. Deduced improvements are then used to create measures for better customer service. Hansol Inticube will strive to improve service by collecting and applying opinions from customers.



Hansol EME | Quality Management

For Hansol EME belonged in the plant industry, quality is directly related to safety, thus strict quality control is crucial. Hansol EME has formed a basis for risk management and is continuously improving its integrated management system to improve its quality competence such as maintaining ISO 9001. It carries out semi-annual regular and irregular inspections at seven domestic sites and a quality safety joint inspection at four overseas sites. Also, it has placed quality control managers in each site to embed the importance of quality management. It offers quality control training for all employees and strives to incorporate quality through professional training for quality control managers, quality control construction technician training, and plant industry association training.

Hansol HomeDeco Flooring Installation Service Process



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Safe Work Environment

Sustainability Performance



Hansol Group

ISRS-based safety assessment for all affiliates



Korea's first logistics company to acquire ISO 45001





Safety training complete for 455 employees in Thailand corporate

Sustainability Context

Creating a safe workplace for employees is fundamental to a sustainable organization. Due to recent national disasters and major incidents, there is rising social interest particularly regarding the safety of labor environments of partner companies. Therefore, it has extended the scope of its safety management to partners so they can work in a safer environment.

Our Approach

Hansol Group has established fundamental countermeasures for safety management in accordance with the outcome of its safety diagnosis in 2019 to promote company-wide health and safety management based on International Safety Rating System (ISRS). Through this, it regularly monitors its worksites, determines matters for improvement and incorporates a culture of safety through safety training by workplace and job characteristics.



2.1. Building a Health & Safety system

Hansol Group ISO 45001 certificate



1) International Safety Rating System (ISRS): Health and

safety system assessment

tool based on research on ove 1.75 million accident cases 2) KOSHA(Korea Occupational Safety and Health Agency)

18001: National standard of

safety and health management

system regulated by Korea Occupational Safety and

3) OSHAS(Occupational Health and Safety Assessment

Series) 18001: International standard of safety and health

management system regulated by 13 European organization's

consent of cooperation

Health Agency

* Hansol Logistics, Hansol Technics, Hansol FMF

Hansol Logistics | Acquires International Standard Certification ISO 45001

In 2019, Hansol Logistics strengthened its international standard of health and safety system as the first Korean logistics company by acquiring the health and safety management system ISO 45001. This is a result of the efforts made by all employee and partners in preventing industrial accidents and various risks. Hansol Logistics will continue to devote to systematic risk factor diagnosis and management to create safer work environment for the workers.

245001:2018 안전보건경영시스템 인증취

Hansol Logistics Certified for its Health and Safety Management System

Countermeasures for Safety Management

Hansol Group | Fundamental

Hansol Group cooperates with professional external organization and conducts company-wide safety management project to create fundamental countermeasures for safety management of the Group and prevent disasters and accidents. In 2019, it conducted assessments on health and safety management systems and safety culture of its affiliates based on International Safety Rating System¹⁾ (ISRS) and implemented detailed improvements and strict monitoring. It plans to improve its safety culture by safety leadership training for executives and managers. Hansol Group promises to strive for safety through diversified supports for its goal for zero serious disasters by successfully implementing this project.

Hansol EME | O-HSE Management

Hansol EME considers a safe work environment as top priority and minimizes relevant risks by implementing a systematic plan. In 2019, it acquired the ISO 45001 certification therefore established a foundation for its safety management. It has analyzed accidents occurred in the recent 5 years by period and type to prepare countermeasures and introduced the 'Safety Inspection Day' to cultivate in-house safety awareness through special inspections. In addition, it is making all efforts and devoting to safety management to prevent potential accidents of all workers.

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Hansol Papertech | Health & Safety

Management System

Hansol Papertech maintains a health and safety management system based on KOSHA 18001²⁾, OSHAS 18001³⁾ as a measure to prevent safety accidents. For systematic management of safety and to prevent accidents, it has established a detailed implementation guideline for safety management and regular assessment, in order to improve employee's safety while achieving logical management. Hansol Papertech will continue its field-oriented management, listening to those in the workplaces to reduce potential risk factors to create a safe work environment

Components of a Health and Safety Management System



Hansol EME Q-HSE Management

Average number of annual accidents 8.8 cases (including general accidents such as falls or collisions)

- Review placement of workers and work methods in the worksite
- · Review regular self safety inspection methods
- · Identify risk characteristics at worksites and establish improvement plans
- Monitor autonomous safety & emotional safety management in the worksite

Accidents of new employees or employees who worked for 1~3 years

- Train compliance of basic rules of safety management
- Emphasize need and importance of safety management
- Create plans, procedures and guidelines for safe work and conduct training on utilization

crushing, falling or collisions · Propose technical, managerial, and training

- Provide and analyse accident data and cases in the same industry and conduct training

Accidents caused by obstacles such as

2.2. Incorporating a Culture of Safety

Hansol Paper | Enhanced Safety Management

A serious accident was occurred in Janghang Factory of Hansol Paper on April 2019. Therefore it strives to prevent recurrence of it and is actively engaging in spreading a safety culture. It plans to invest KRW 6.4 billion in four workplaces for safety of equipment until 2021. Also, its executives are developing field safety activities by safety inspections supervised by the plant manager twice a month, safety meetings held by CTO, and benchmarking from domestic · overseas companies recognized for safety measures. Additionally, it has established the safety policy of "no type of work is more important than your safety" and is making efforts to create a workplace that is safe for all employees through continuous promotion and training on core safety rules for each process.

Hansol HomeDeco | Efforts for a Safe

Work Environment

Hansol HomeDeco considers employees' safety as top priority in the workplace. It has created a work safety procedure manual for each process in accordance with the KOSHA 18001 certificate acquired in 2003, and built a safety system to carry out the work according to the manual. It is also making efforts to incorporate a safety culture through safety campaigns where each year, each team and partner company establishes and publishes its own health and safety firefighting plans. In 2019, Hansol HomeDeco's Iksan plant and Hansol Paper's Shintanjin plant held a joint fire drill to improve emergency response that becomes more frequent during winter. Hansol HomeDeco will further build relationships with its partners in order to ensure safety of its workers and continue to expand its support programs.

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Hansol Technics | Internalized Culture of Safety for Overseas Corporates

Hansol Technics is making effort to establish a management system and safety culture for its overseas corporates. In 2019, it conducted specialized safety training for each process for the local employees at corporates in Thailand. Also, it has internalized the safety culture that matches the level of that in Korea by conducting emergency training and translating the emergency management regulations into Thai and distributing it. In addition, it has installed photoelectron safety devices and leak prevention facilities for urethane storage to reinforce its safety facilities in the workplace and is providing support to ensure safe environment.

Hansol Paper Enhanced Safety Management



^{*} MSDS(Material Safety Data Sheet): A document written necessary information to manage and safely use the chemicals







Hansol Technics Thailand Plant Safety Training

Hansol Chemical 2019 emergency response activity

HANSOL GROUP SUSTAINABILITY REPORT 2020

527 employees

* 437 employees of Hansol Chemical, 90 employees of partner

Hansol Logistics | Reinforced Health and Safety Management Organization

In accordance with the amended Occupational Safety & Health Act that came into effect as of January 2020, health and safety control in workplaces have strengthened. In order to comply with the relevant laws, incorporate a health and safety management system for the corporate and reinforce its management system, Hansol Logistics has transformed and expanded its health and safety management organization. It has assigned dedicated safety officers to each region of the worksite to support safety management tailored to the characteristics of each workplace, and is conducting companywide training and health checks, and risk assessments, and is consolidating and analyzing the results to prevent potential health and safety problems. Also, it has appointed safety managers, general managers, and management supervisors to clarify authority and responsibilities within the health and safety management system. The health and safety management organization supports the activities of the safety manager for systematic health and safety management.

Hansol Chemical | Emergency Response

Activities

Hansol Chemical has conducted companywide emergency training, joint training and emergency rescue training, special disaster prevention personnel training for prevention of safety accidents in its plants in Jeonju and Ulsan. For the annual company-wide emergency training and emergency rescue training, staff from two partnering companies joined the plants' employees to create a safe environment for everyone. Also, the Ulsan plant carried out private-public joint training to prevent leaking of toxic material and conducted firefighting training in conjunction with the joint control center of the Ministry of Environment and the district fire station chemical rescue team. Hansol Chemical will continue to conduct various training to prepare for emergencies for the safety of its employees as well as the safety of residents near the plant.





Self-diagnosis of safety

management based on professional manpower &

prevention activities Increase customer satisfaction & company reputation through systematic safety control

 Reduce accident rate & financial loss from accidents



Hansol Chemical Safety Emergency Response Activities

Hansol Logistics Expected effects of workforce dedicated to safety

Promoting Eco-friendly Management

Sustainability Performance

Hansol Paper



Greenhouse gas organization company-wide energy committee



Overseas afforestation reached 10,000 ha



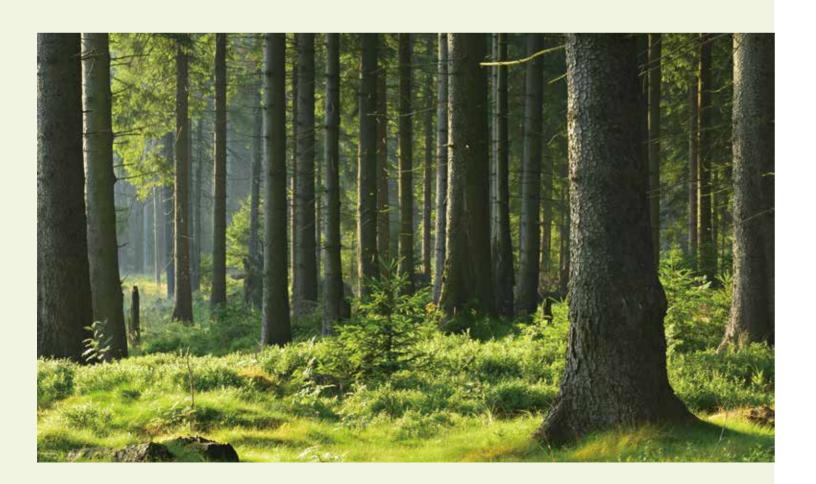
Hansol Chemical 2019 Recycle rate reached 75%

Sustainability Context

As environment problems such as fine dust problems, climate changes emerge, the government is strengthening its regulations on environment policies. And companies are making efforts to reduce the environmental impact it has through environment control and eco-friendly technology development. Companies are going beyond compliance with environment regulations, reducing pollutants or saving energy, and exercising more responsibility through reusing resources and expanding their environment energy businesses.

Our Approach

Since its foundation, Hansol Group has planned and implemented a systematic master plan for eco-friendly management. Through its eco-friendly management system which satisfies international standards, it monitors compliance with environmental regulations in all worksites and establishes implements eco-friendly management in accordance with the vision and characteristics of each affiliate which include afforestation and new renewable energy. Also, continuous research and development on eco-friendly products is making it possible to produce safe products for people and the environment.



3.1.
Reducing
Environmental
Impact and
a Response
to Climate
Change

Hansol Group ISO 14001 certificate





* Hansol Paper, Hansol Papertech, Hansol PNS, Hansol HomeDeco, Hansol Technics, Hansol Inticube, Hansol EME, Hansol Chemical Hansol Holdings, Hansol Papertech, Hansol PNS | Introduction of Environmental Management System (EMS) Hansol Holdings has introduced an Environmental Management System (EMS) based on its ISO 14001 in 2019 to achieve sustainable environmental management. For effective EMS operations, it has set up an environmental management organization headed by the CEO and established environmental policies and goals and shared it with its in external stakeholders to build a foundation for effective EMS operations. Along with Hansol Holdings, its subsidiaries, Hansol PNS and Hansol Papertech have also introduced an environmental management system in 2019, and have successfully acquired the international environmental certification, ISO 14001. Hansol Group promises to continuously expand group-wide environmental management.



Hansol Papertech ISO 14001 certificate

nsol PNS ISO 14001 certificate

Ransol PNS Co., Ltd.

Hansol Holdings | Environment Policy

Hansol Holdings recognizes that eco-friendly management is the essence to sustainable growth, and published a 2019 environmental policy for the implementation of environmental management and introduced an environmental management system (EMS) to improve its environmental management level.

Hansol Holdings Environment Policy



Efficient use of resources and protecting the environment

We lead in protecting the environment by preventing pollution through minimizing waste and efficient use of energy and resources.



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EMS operation & continuous Improvement

Our employees are aware of the environmental policies and establish and implement achievable goals to continuously improve environmental outcomes and rectify non-conformities and make improvements to continuously enhance the environment management system.



Communication with shareholders & satisfying obligations

Through continuous communication with stakeholders, we regularly review the direction of our environmental goals and detailed goals and explain our management standards that reflect the needs of stakeholders as well as the environmental obligations.



racticing transparent environmental management

By sharing environmental policies and eco-friendly management information with our stakeholders we encourage participation and exercise transparent environmental management. INTRODUCTION SUSTAINABILITY FUNDAMENTALS SUSTAINABILITY ISSUES APPENDIX 36 HANSOL GROUP SUSTAINABILITY REPORT 2020

Hansol Holdings | EMS (Environmental Management System)

Hansol Holdings operates in accordance with the environmental management system based on PDCA Cycle to achieve environmental management and continuous improvement of EMS. Environmental management committee, which is consisted of communication team and relevant officers is planning and implementing environmental goals of Hansol Holdings. Hansol Holdings regularly monitors detailed activities, energy use, generation of environmental substances and conducts annual internal environmental audits to achieve its environmental goals. Also, each year, it conducts environmental management review and reflects the outcomes in the following year's goals to maintain a system to continuously improve the company's EMS.

Environmental Management Goals



Effective Use of Resources

Reduced use of electricity paper resources through efficient use of resources

Energy per unit use reduced by 1% Printing paper per unit use reduced by 1%



Minimize Generation of Pollutants

Reduced generation of paper waste and general waste through minimizing pollutants

Waste discharge reduced by 1% per unit



Strengthen Environmental Management

Continuous upgrade of the environmental management system through implementation and training

Have the environmental management committee conduct EMS training for the whole company

Environmental Management Organization



Annual Environmental Management System Operation Cycle



Hansol Paper | Environmental

Management Control System

Hansol Paper was the first in the industry to 'declare the environment charter' in 1993 and has been conducting environmental management ever since. Even before reduction of greenhouse gasses became mandatory, it has made efforts to reduce energy costs and greenhouse gasses and implemented systematic environmental management introducing a computerized management system allowing each plant to monitor its environmental management. Also, headed by the CEO, it has created an organization dedicated to managing greenhouse gasses and a company-wide energy committee to proactively deal with climate change.

Hansol Paper conducts regular and occasional audits semi-annually, manages environmental performance once a month, and rewards divisions that have exceeded their goals to encourage voluntary practice. Where an issue has risen in a plant, it requires a corrective action plan to be established within one month, and

to implement the corrective actions within the following month. Also, all staff are required to complete training on environment-related laws and national environmental policies as well as participate in environmental policy training by Hansol Paper to strengthen responsiveness and prevent environment accidents.

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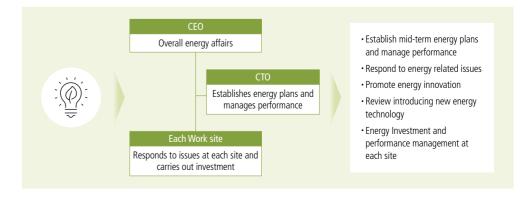
Hansol Paper | Wastewater Treatment Improvement

Hansol Paper's concentration on water resources has increased with as various environmental issues have arisen. In order to efficiently use water resources, Hansol Paper is making various improvements such as physically, chemically and biologically treating and purifying wastewater generated by its production plants. Through this, water resources are reused according to its purpose; as a result of its efforts to reduce water pollutants, Hansol Paper's average water pollutant (COD, BOD) generation in the whole site has been maintained at a steady value, well below regulations.

Greenhouse Gas Management Organization



Company-wide Energy Committee





* Hansol Paper, Hansol Papertech, Hansol PNS, Hansol HomeDeco

Hansol HomeDeco Cerfiticated Emissions Reduction(CER) sales in 2019

NZ\$552 thousand



Hansol PNS | Eco-Friendly Management Through Compliance with FSC·CoC

Hansol PNS conducts its policies to reduce impact on the environment by using products that are forest business certified by the forest stewardship council (FSC) in accordance with the chain of custody (CoC) standards. FSC·CoC certification is highly reliable and evaluates all forests in the world based on 10 principles and 56 criteria in terms of 3 aspects which are environment, society, economy. By purchasing certified products, customers can support global forest management and afforestation. Hansol PNS strictly differentiates and manages certified and noncertified products in all stages from purchasing and ordering to shipment and selling. Also, Hansol PNS conducts annual regular training for employees conducting work on product certification and storage managers and is leading the way in eco-friendly management. Hansol PNS promises to continue to do its best to deliver ecofriendly management values to our customers.

Hansol HomeDeco | Overseas

Afforestation Projects

Since the beginning of its overseas afforestation project as the first in Korea in 1993, Hansol HomeDeco has entered New Zealand in 1996 and planted 10,000 ha of industrial wood and is continuing its long-term investment until now for over 20 years. From the beginning of its project, while maintaining a business

partnership with the New Zealand natives it has been promoting Korea as a private ambassador with a spirit of cooperation and win-win partnership. In addition, we are generating sustainable profits through forest carbon credits generated from forest land. In this time where the protection trade for raw material is becoming stronger worldwide, the overseas afforestation project will become Hansol HomeDeco's future growth engine through proactive securing of wood resources. Hansol HomeDeco's overseas afforestation project is planting the value of nature and reaching beyond corporate business becoming the nation's competitive edge.

Hansol HomeDeco | Eco-friendly New Renewable Energy Projects

Hansol HomeDeco is conducting its new renewable energy projects using by-products such as wood chips, saw dust and biomass material created in the process of making its main products such as boards and flooring. High-pressure steam generated through this operates the turbine for cogeneration, and the wastewater recycle system is significantly reducing the use of industrial water. Since starting the operation of the power plant in 2013, Hansol HomeDeco has expanded its power production size twice, in 2015 and 2017. Currently, it is selling eco-friendly electricity generated by its three cogeneration plants and has reached KRW 4 billion in sales in 2019

Hansol Chemical 2019 waste recycle rate reached 75%



Hansol Chemical | Reduction of

Waste · Wastewater Generation

Hansol Chemical is preventing waste leaking by building additional waste storage spaces and installing CCTVs. In 2019, it applied high purity refining equipment to its production to focus on reducing waste generation and increasing recycle rate. Therefore, the recycle rate that was only 24% in 2014 rose to about 75% in 2019. Also, a dissolved air flotation tank has been installed in the wastewater treatment facility to improve issues that occur while operating the settling tank. This will help prevent environmental accidents by enabling immediate responses to emergencies that may occur while operating the wastewater treatment facility.

Hansol Chemical | Installation of LNG Reformer for Hydrogen Production

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Hansol Chemical is sparing no effort to invest in the environment, while rising as an eco-friendly company by enforcing its internal environmental management standards through the operation of an integrated management system. In 2019, it invested KRW 11 billion to create an LNG Reformer for Hydrogen Production to reduce greenhouse gases. Through this, operation efficiency improved from 2,400Nm³/ hr to 4,000Nm³/hr; improving greenhouse gas emissions compared to fuel. Thus, it is not only saving energy but also successfully reducing greenhouse gases. Hansol Chemical plans to continue to strengthen its environmental management until 2021 through investing in equipment such as replacing old insulation material and introducing external steam.





Hansol Chemical Dissolved Air Flotation Tank



Hansol Chemical LNG Reformer for Hydrogen Production





Hansol HomeDeco Forest in New Zealand

Hansol HomeDeco Iksan Plant Waste Heat Recovery System

3.2. Eco-friendly Product Design

Hansol HomeDeco Domestic flooring sales Ranked in No. 1

* In 2019

 (6.3km^2)

Hansol Paper | Protego®

Hansol Paper, which is the largest paper manufacturer in Korea, is continuously striving to develop eco-friendly products. As a result, it succeeded in developing 'Protego' with barrier properties like plastic and aluminum. 'Protego' has overcome the limitations of paper which is vulnerable to blocking oxygen and moisture; it has various uses such as food packaging for coffee or dried foods, for cosmetics such as facial masks, and pet food packaging. Also, because its carbon emission is significantly lower than plastic and aluminum packaging, and it can be recycled, it is highly eco-friendly. As the world becomes more conscious in terms of plastic use, and domestic and international regulations on plastic are becoming stricter, the value of 'Protego' is rising as an eco-friendly product that will replace plastic packaging.

Hansol HomeDeco | Eco-Friendly Flooring

Material

Hansol HomeDeco is making efforts to develop eco-friendly flooring products. SB flooring developed in 2016 uses products made of Super-E0 grade material which is Korea's most eco-friendly grade. Because it removed four volatile organic compounds (toluene xylene, methylene, styrene), it is harmless to the body. Because of its eco-friendliness, it has been approved and 'recommended as safe for atopic eczema' by the Corporation Aggregate Korea Atopy Association; it has also acquired the 'antimold zero grade' by the Korea Conformity Laboratories for its ability to prevent growth of various germs. SB flooring uses olefin sheets that only release water and carbon dioxide and no other harmful substances in fire. EB coating which is an eco-friendly surface treatment technology, is also applied so that it does not release total volatile organic compounds(TVCO) and formaldehyde which are harmful to the environment





Hansol Paper Products using Protego®

Hansol HomeDeco SB Marble Flooring

Hansol HomeDeco Highest ecofriendly grade Super-E0 first to develop in Korea

Hansol HomeDeco | Using Recycled

Material, MDF

MDF, is Hansol HomeDeco's representative ecofriendly product made of recycled chips and waste wood with many applications in furniture and construction interior material. Hansol HomeDeco has replaced wood imports with MDF production to reduce incineration of old wood while preventing pollution. Also, in accordance with the 'health & eco-friendly housing construction standards' which came into effect in 2015, it is working toward minimizing the amount of formaldehyde released which is the main cause of the new house syndrome. Hansol HomeDeco uses only eco-friendly material from processed surface boards with MDF, to furniture doors, and has developed products with the Korea's most eco-friendly grade, Super-EO. It has also acquired ISO 9001, ISO 14001, KS mark, and it continues to secure both high quality and service.

Hansol Chemical | World's First Eco-

friendly QD Production

In November 2014, Hansol Chemical has solidified its status as a global electronic materials company by being the first in the world to build supply eco-friendly quantum dot (QD) mass production equipment using its own technology. In September 2015, in order to deal with the increased demand of QD sheets, the company expanded its QD production facilities and through continuous improvement of quality it is now dominating the global QD market.

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To prepare for future growth in demand and improve its competitive advantage, Hansol Chemical has been adding more QD facilities since February 2020. Now entering the era of full-scale QD display, Hansol Chemical is promoting sustainable growth through reaching various fields of QD applications while proactively responding to the eco-friendly QD market.



Hansol HomeDeco Completed kitchen using Hansol Story Board (Pattern: Hairline Silver)





Hansol Chemical QD Research

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Respecting Diversity of Members

Sustainability Performance

Hansol Group



Innovative HR system **HMS-CORE** for building talent



Enhance employee **RESPECT**



on work-family balance

Sustainability Context

Discovering and developing outstanding talents is fundamental to sustainable growth. Building a HR system to provide fair opportunity and assessment to everyone and task-oriented education program to improve personal skills are important factors to enhance work efficiency and satisfaction. Efficient and innovative organizational culture is also considered significant as 52-hour workweek policy is applied.

Our Approach

Hansol Group has restructured its organization for company-wide transformation of its HR system and established an advanced talent development system and measures to improve respect for its employees. In a society that demands for a wide variety of perspectives and abilities, we support our staff through training programs to help each individual grow as talented people who demonstrate their individual capabilities, and help members communicate the organizational principles. Also, selective work hours, PC OFF system, staff psychology consultation programs help to support each member in pursuing a healthy work-life balance.



4.1. Fair Recruitment & Talent Development

Hansol Group | HR System Transformation

In 2019, Hansol Group has transformed its HR system in response to the changes made to the management environment. By analyzing each affiliate's business characteristics and macroenvironment, and by identifying HR trends and employees' expectations, it has identified three demands: 'role-based position system', 'differentiative compensation' and 'evaluation centered around feedback'. Through this, Hansol Group supports autonomous growth based on each individual's responsibility and competency, and strives to secure global-level organizational competitiveness through immersion.

Hansol Group | HMS (Hansol Management System)-CORE Development System

When becoming a holding company in 2015, Hansol Group built the HMS-CORE model in order to achieve maximum value through 'securing competitive advantages through differentiation'. In 2019, it modified its training program to reinforce its business and organizational principles and is now making effort to secure talents with HMS-CORE. HMS which is the behavioral principles and formula for success that Hansol members should strive for and CORE which is desirable talent model of Hansol, is joined to form HMS-CORE; this implies the skills in terms of four aspects which are individual, organizational, internal and external, that a member of Hansol should acquire and practice. This is used for recruitment, diagnosis and evaluation to develop talent fit for the group. Hansol Group will support to develop its employees through continuous innovation of its talent development system

Hansol Group | Learning cloud

Hansol Group opened an education portal called 'Learning Cloud' in line with the digital transformation in business environment. Hansol Learning Cloud has moved away from being a simple training provider, to allowing the learner to establish and create a training environment that fit themselves. It is a self-directed learning platform where the learner can build, share and recreate own contents. The Learning Cloud will help its employees take initiative in participating in education and contribute to effectively enhancing required skills.

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Hansol Inticube | Training to Enhance Competency of employee

Hansol Inticube conducts intensive training with three purposes in 2019: 'strengthening incorporation of technological skills' 'reinforcing leadership skills' and 'promoting voluntary sharing of knowledge.' It created 66 courses for HMS-CORE-based training, which is the companywide talent development system, to incorporate proper behavior as a member of Hansol. In order to build an amicable corporate culture, it conducts various training for each position such as initiation programs for new recruits, team leadership training, executive collaboration leadership training etc. In addition, all employee has participated in IT training to improve their technology skills and for anyone interested in enhancing their expertise in new technology, there has been the opportunity to take part in new technology specialist development training. In this way, Hansol Inticube continues to develop and provide diverse training programs to promote sharing of knowledge.

HR System Transformation

Switch to role-based position system

- Integrate and simplify positions around actual roles (3 stage position system)
- · Amend criteria and requirements for each integrated position
- · Remove promotion by required amount of years and expand opportunities to promotion by selection

Enforce differentiation of rewards

- Expand differentiation of rewards based on CL job group performance
- · Amend company-wide criteria on incentives

Reinforce evaluation centered on coaching · feedback

- · Improve the evaluation system and ease relative
- · Reinforce logical and fair evaluation monitoring

Securing global-level organizational competitiveness through immersion

- · Manage a flexible workforce by integrating skill-based positions
- Evaluate based on outstanding performance
- Discuss based on promotion evaluation points
- · Establish a development plan customized to individual needs
- Introduce cumulative evaluation (differentiation of rewards based on performance)
- Enhance performance-based feedback and utilize it in promotion evaluation
- Secure new growth engines and introduce an innovative business culture
- · Systematic HR management & computerized processes

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4.2. Communicative Organizational Culture

Hansol Group | Method for Enhancing Employee Respect

Policies that respect for employees play an important role in sustainable development of a company. Hansol Group sets the Hansol Management System (HMS) as a compass to direct its growth as a long-lasting company. It has identified seven core factors in terms of employee's respect and established a 'method for enhancing employee respect' so that the actual workers of HMS will have a sense of pride and and self-esteem in their work.

Method for Enhancing Employee Respect

		Praises that	Immediate awards Team leader selects and immediately awards an outstanding employee of the month
Recognition	recognize the value of the employee's	Sharing gratitude and compliments Share gratitude and compliment each other at the daily morning visual planning time and meetings	
		contributions	RESPECT Survey Increase content on leadership training & acquire feedback through surveys and conduct further training
_	$ \begin{array}{c} $	Providing training	Inspection of delegation decision rules Periodic inspection of delegation decision rules to empower each individual.
K O N		and resources for high level of autonomy and	Enhance job training Establish a yearly training plan by the needs of the employees and improve the quality of training through feedback.
111		success	Dress down day Gives freedom and helps create a comfortable work environment
	Supportive	Constructive and sincere concrete	Reinforce evaluation interviews Enhance fairness by systemization of evaluation interviews
65.00 0,00	Feedback	feedback in a timely manner	Strengthen evaluation feedback Enhancing fairness by systemized evaluation interview process
			Meeting with the CEO Hold meetings for all employees to meet with the CEO and chief of the workplace (at least once a year)
r\8\	Do utus ouiss u	Participate in decision making	Proposal Room for all Expanded HMS Speed Hotline CEO Proposal Room to collect everyone's opinions
2←2	Partnering	processes as a true partner	RESPECT Survey Monitor and improve manager leadership level through surveys
			Encourage cooperation between divisions Information exchange by class and operation of a customized community board for sharing information
			Regularize company-wide training Conduct training for the whole company at least once every 2 years
<u> </u>	Functation	Share clearly established visions	Better communication Conduct visual planning, business strategy meetings, information sessions on present conditions each quarter.
ರಥರ	Expectation	& goals of the organization	Enhance fairness in evaluation Inspect individual performance evaluation items and conduct evaluation revolved around quantitative evaluation (KPI)
			Challenging and enhancing position Differentiation of weight on evaluation goals and performing challenging tasks by position
			Quarter-day leave for healing Paid leave available with the minimum unit of two hours
			Group EAP Provide professional consulting on stress, health, child education for the whole workplace
000	Consideration	Being considerate	Healing Workplace Program Search for improvements to be made in the work environment and reflect and conduct it in the management plan each year
	Consideration	i deration and caring for each other	As One Day Promote sports or cultural events each quarter to enhance morale and communication in the workplace
			Family-friendly programs Regularize annual family inviting events to build a sense of pride in Hansol
			Encourage childbirth Three days paid leave for infertility treatment
QQQ	Truct	Trust and having confidence in the	Transparent organization culture Eradicate corruption by unethical behavior online reporting channel(Red Whistle)
Trust	abilities and skills	Increased trust towards the company Continuous improvement of HR management and continuous sharing of updates	

Hansol Group Grievance committee all affiliate conducts

Hansol Inticube 'Dong-Go-Dong-Rak' lunchbox meeting attendance rate

74%



Hansol HomeDeco Share & Communication Talk attendance rate

70%

Hansol Group | Grievance Committee

Hansol Group respects human rights and complies with relevant regulations, and has established internal policies to put in practice. In 2019, in line with the enactment of the prohibition of harassment in the workplace, it added new relevant provisions to the employment rules. Phone, E-mail or the groupware boards are available for victims of harassment in workplaces or anyone to report of harassment and request for measures to be taken. Hansol Group formulates its solution principles centered around the victim and after the measures are taken, monitors whether terms of agreements have been implemented, follow up on any further harassment, to prevent future recurrence.

Hansol HomeDeco, Hansol Inticube | Create a Communicative Organizational Culture

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Hansol HomeDeco and Hansol Inticube strive to share common goals by improving communication between employees and executives.

Hansol HomeDeco holds monthly meetings for each headquarter plant chaired by the CEO and chief of workplace to share the present conditions, strategy and vision. Also, for the annual As One Day event, the CEO meets with the whole employees to share about various in external matters and answer questions through Share & Communication Talk.

Hansol Inticube holds a 'Dong-Go-Dong-Rak' lunch box meeting. This meeting that has been held twice a month in 2019 for staff, had a 74% attendance rate. Invited employees shared opinions, hardships, individual visions to build a bond over a lunch box meal with the CEO.

Hansol HomeDeco and Hansol Inticube will carry out its role as a partner, and conduct activities to promote better communication that will allow the company and individual grow together.





Hansol Inticube 'Dong-Go-Dong-Rak' Event Poster Hansol HomeDeco Share & Communication Talk Event

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4.3. **Employee** Welfare & Benefits

Hansol Group | Continuous improvements to Enhance employees Welfare

Hansol Group encourages family-friendly management, and strives to create a pleasant work experience, through enhancing the welfare for employees. It has implemented a selective work hour system, PC OFF system, in-house EAP, and various programs that consider not only its staff and employees but also their families. This is also to create a better work environment for the employees so they can create a healthy work life balance. In accordance with the prohibition of harassment in the workplace, it added new provisions to the employment rules and conducted relevant training for all its staff and is promptly responding to the rapidly changing environment to protect the rights of employees and create a better work environment.

Hansol Group | EAP (Employee Assistance Program) Staff Health Management

Hansol Group recognizes that a healthy mental health is important for a happy and healthy life therefore provides psychological consultation programs in connection with external professional facilities. The scope ranges from work-related matters, to personal problems in any area of life that can affect the stress management of employees. Recently, it has expanded its scope to include family by providing family consultation to help provide employees of Hansol Group with a healthy and happy life.

Hansol Group | Selective Work Hours

Hansol Group has suspended its staggered work hours and introduced a selective work hours system to promote autonomy. The selective work hours system gives the employee freedom to select their start and finish time where within the agreed working hours, one can select own work hours per day and apply these hours for two weeks or four weeks time.

Hansol Group introduces the selective work hours system to promote work life balance, and help improve employees' concentration on tasks that will eventually lead to enhancing the competitive advantages of the whole organization.

Hansol Group | PC OFF System

Hansol Paper, Hansol HomeDeco, Hansol Logistics and Hansol PNS operate a PC OFF system to ensure a work life balance of their employees. They operate a Family & Fun Day system and create an atmosphere for people to end their days on time; For a successful PC OFF system, they play the music at the end of the work on Tuesdays and Thursdays to help employees adjust to the new system. In this way, they are helping staffs adjust easily to a 40-hour work week and create an organization culture that respect the life of the individuals.

Hansol Group EAP(Employee Assistance Program) Staff Health Management



Job stress, Career development Communication issues. Burn-out syndrome



Psychology

Anxiety caused by depression or emotional labor, PTSD



Improving relationship with children, Improving marital relationships, Helping children's behavioural disorders

Hansol Paper | Fourth Asian Women Index Award, Work-Life Balance Sector

Hansol Paper respects the diversity of employees and operates a supportive system which includes shortened work hours during the entire duration of the pregnancy and child rearing period so that women are not discriminated against, preventing them from building their career. As a result, the company was awarded the 'Fourth Asian Women Index Award in the work-life balance sector' at 'the 2019 Asian Women Leaders Forum' held by Asia Business Daily. Hansol Paper makes sure there is no discrimination of gender in the top manager positions. To improve the female talents, Hansol Paper plans to improve the employment rate of women and operates MBA programs and global training to help to promote female leaders.

Hansol Chemical | Family Friendly

Approved company

Hansol Chemical is continuously working to create a balance between work and life in accordance with the family-friendly management of the Group and since 2016 it has been keeping its recognition as a family-friendly company. The family-friendly certification is presented by the Ministry of Gender Equality in accordance with Article 15 of the Act on the Promotion of Creation of Family-Friendly Social Environment and awarded to companies operating a family-friendly system including support for childbirth and child rearing, flexible work hours, and creating a family-friendly work culture. Hansol Chemical will continue to evaluate and improve these relevant systems as a family-friendly company.

Hansol Inticube | Family Events

Hansol Inticube conducts policies that consider its staff and their families. It hosts kids camps for its employees and their families who work hard for the growth of the company. For employees with elementary or middle school children, it holds waterpark camps and snowboard ski camps twice a year so that families can enjoy and make memories, so Hansol Inticube operates policies considering not only its employees but also their

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Hansol EME | Health Promotion of employee

Hansol EME have huge responsibility for health of its employee due to the nature of its industry. Therefore, it carries out various strict measures following an annual plan consisting of health examinations between April and October, intensive flu prevention plan in September and October, and regular health examinations for elderly workers and those with work related health problems. Also, it requires submission of a risk factor survey table on work that potentially burden the musculoskeletal system for new worksites or employees to prevent musculoskeletal diseases.





Hansol Chemical Family-Friendly Certification Hansol Inticube Employees' children Ski Camp

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Benefiting the Community

Sustainability Performance



KRW 300 million



Beneficiaries of paper donations 233 students



471 beneficiaries

Sustainability Context

As a member of the community, companies are obliged to fulfill their responsibilities for various stakeholders. More companies are actively establishing a systematic social contribution strategy that utilizes the company's characteristics and expertise to mitigate community issues, going beyond one-time volunteer activities. Also, there is a rise in social demand on spreading a culture built on partnership for growth through technology collaboration, fair trade, and funds.

Hansol Group has been contributing in creating a divers and rich art environment in the community through social contribution centered around culture and arts. It engages in social contribution activities the utilizing expertise of affiliates that can be conducted daily such as donating paper to students, and donating part of the salary through the Matching Grant and Share the 1% systems. It also works with NGOs to continuously pursue social contribution activities overseas.



5.1. Growth & **Partnership**

Hansol Technics Attended partners of the partner invitation meeting

40 companies



Hansol Paper | System for Partnered

Growth

into four categories: technology, purchasing, funding and training, to provide support that is customized to each partner's needs. Also, Hansol Paper is making various effort to achieve partnered growth with its partners such as hosting annual partnered growth committee meetings and sharing performance.

Hansol Paper helps its partners enhance build

on their competitive advantages to achieve sustainable growth. It has divided its activities

Hansol Technics | Partner Invitation Meeting

In order to create a culture of partnered growth and share partnered growth policies, Hansol Technics held an invitation meeting. In 2019, about 40 partners joined to declare fair trade compliance, where Hansol Technic shared its partnered growth goals and activities, and explained prohibited cases on corrupt requests and bribery. Additionally, Hansol Technics shared its purchase strategy for 2019 to strengthen the sense of solidarity with its partners and create opportunities for partnered growth.

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Hansol Paper | Environmental

Management of Partners

Hansol Paper recognizes that the company's competitive advantage comprises sustainable management skills, and the company works to achieve partnered growth and environmental management through sharing environmental policies and goals with its partners. In order to help partners implement eco-friendly management activities, it supports training and monitors established environmental improvement goals and implementation outcomes. While paying incentives to partners that achieve a higher grade according to the diagnosis, it proposes improvements for partners with a lower grade. Hansol Paper promises to use multilateral ways to help its partners grow and enhance their competitive advantage.

Hansol Paper Environmental Management of Partners

ntation plan for partners

inspection

future goals

- Establish environmental management policies for the CEO
- · Conduct plant-wide environmental impact assessment and establish goals for the plant
- Share goals and environmental policies at the
 - time of signing the
- · Establish goals customized to company's policies and the partner's situation
 - Conduct training for employees on detailed plans

 Implement environmental improvement activities and conduct continuous

Assess goal

 Set future goals considering level of achievement, and feasibility



Hansol Technics Partner Invitation Meeting

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5.2. Continuous Social Contribution

Hansol Paper Beneficiaries of paper donations in

233 students



Hansol Paper 2019 Firefly volunteer members 969_{volunteers}



Hansol Paper 2019 Firefly volunteer funds KRW 458 million



Hansol Cultural Foundation | Museum San

Hansol Group has founded the Hansol Cultural Foundation in 1995 for social contribution to the culture and arts field and with the eagerness to 'contribute to cultural development' and has been developing talents in arts by supporting promising artists. Also, while hosting domestic and international cultural exchanges and exhibitions, it has agreed to work with the Ministry of Culture, Sports and Tourism to promote 'Culture Day' which is a governmental campaign and is striving to revive nation-wide cultural consumer activities. In 2013, it opened Museum San as a cultural space for artists to communicate with the audience and introduce artwork that represents Korean modern art and displays the value of Korean paper. Hansol Group will continue to make cultural value available for anyone to enjoy a diverse cultural life.

Hansol Paper | Paper donated for the graduation exhibition at universities with visual design departments

Hansol Paper strives to enhance the Korean

design industry as a leader in the paper manufacturing industry. It conducts various activities such as contests for finding new designers with excellent items, and since 2018 it has been supporting over 20 universities with visual design related departments. Hansol Paper also donates premium printing paper (insper M-rough, smooth, eggshell) to contribute to the development of talents that will lead the future design industry in Korea.

Hansol Paper | Firefly Volunteer Group

Hansol Paper is continuously sharing with socially disadvantaged groups in the community around its worksite. It formed a Firefly Volunteer group which has established a sisterhood relationship with disabled facilities, single mother facilities, facilities for broken families, elderly families and households headed by children and carries out volunteer activities during its monthly visits. The Janghang plant has shared apples with 23 senior citizen centers during Chuseok and visited affiliated families to share rice, dried fish and household supplies.





Landscape view of Museum San



Hansol Paper Firefly Volunteer Group

Hansol Chemical Participants of matching grant system in 2019 329 participants

Hansol Technics | Jincheon Health Care Volunteer Event

Hansol Technics conducts various social contribution activities for partnered growth and development with the community near the workplace. In 2019, it conducted a health care volunteer event for the local residents of Deoksan-myeon Jincheon-gun together with the large-SME(Small and medium enterprises) Agriculture and Fishery Foundation and Haetsalmaru corporate. There were around 100 volunteers involving Korean medicine doctors, and hair designer. It was made possible for as many people as possible to join and benefit from the event. Therefore, for residents of 40 villages that were too far from the clinic, a bus was rented so they could attend. As a result, a total of about 500 residents benefited from medical support and received great feedback.

Hansol Chemical | Matching Grant System and New Employee CSR

Hansol Chemical encourages employees to join in activities of giving back to the society and aims to create an in-house culture for this. The 'matching grant' system, where the company donates the same amount that is donated by employees, has begun to boost the willingness of employees to participate in social contribution activities and to further support the socially disadvantaged. Funds collected through this are donated to the community or used to fund volunteer activities.

The new employee CSR event is a novel fundraising event planned by new employees which allow them to take part in social contribution activities and understand the value of sharing. During the event, new employees are challenged to break the fundraising record with fresh ideas. In this way, this brings new vitality to Hansol Chemical's organizational culture.





Hansol Technics Health Care Volunteer Event

Hansol Chemical Briquette Volunteer Activitiy

Hansol PNS, Hansol Inticube Habitat for Humanity volunteer hours (accumulative)



(No. of attendees * hours)

Hansol EME Amount raised through Share the Love 1% in 2019

KRW 12 million



Hansol PNS, Hansol Inticube

Wallpapering Volunteer Activities and Habitat for Humanity

Every year, Hansol PNS and Hansol Inticube participate in 'wallpapering volunteer activities' and 'Habitat for Humanity' programs. In the first half of 2019, they carried out wallpapering at 'Seongsan Green House', which is a care facility for people with intellectual disabilities. In the second half of the year, they volunteered for 'Habitat for Humanity' at Mokcheon-eup, Cheonan-si, in Chungnam. 38 people including new employees supported to build houses and paper the walls, while Hansol PNS and Hansol Inticube sharing their social responsibilities.

Hansol EME | Share the Love 1%

Hansol EME is leading the way to build unity in the world based on its business philosophy that companies must fulfill its social responsibilities as a member of society. In 2005, it formed an in-house volunteer group 'evergreen sharing' and has been securing funds through voluntary sharing of 1% of the monthly salaries of employees through the 'Share the Love 1%' program. In 2019, the company donated rice and bedding to Janghang-eup in Seocheongun, and Subuk-myeon in Damyang-gun near the worksite. Hansol EME plans to continue its various activities that allow sustainable growth partnered with the local community.

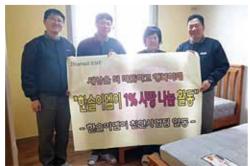


Hansol PNS, Hansol Inticube Wallpaper Volunteer Team



Hansol PNS. Hansol Inticube Habitat for Humanity Volunteer Teal





Hansol EME Share the Love 1% Activities

Hansol Paper Education project in developing

6 schools in 5 countries

countries



* In 2019 (accumulative)

Hansol Chemical 2019 water campaign beneficiaries

471 persons



* 260 male students, 204 female students, 7 teachers

Hansol Paper | Education Projects for Children in Developing Countries

Hansol Paper has been supporting education projects in Asia and Africa together with Save the Children since 2013 to provide education to children in developing countries. The project basically involves building schools, supporting the building repairing of classrooms, teacher's rooms, building dormitories, and hygiene facilities and cafeterias. It Is also helping build libraries and donating books to help improve reading in children. Since establishing its first overseas school, 'God is Our Light' in Sierra Leone in 2014, it has built six schools in five countries including 'Chua Ta' school in Vietnam. Hansol Paper promises to lead in providing better opportunities so that more children can have quality education in a safe environment.

Hansol Chemical | Water Campaign

Hansol Chemical, with the aim to be a 'company that contributes to humanity' is enhancing its

interest in global environmental issues and taking part in making changes. The 'water campaign' shows the willingness of Hansol Chemical and the hope of its staff to resolve the global 'water and sanitation' issues. In the recent five years since 2015, Hansol Chemical has raised KRW 140 million through company-wide fundraising events such as marathons and auctions.

It has built potable water networks, and is conducting health and hygiene training and first aid training in African villages with 'Team and Team' an international relief development NGO to help develop sustainable CSR activities so that villagers can have potable water and health and hygiene.

Since 2015, it has completed support work for six villages and two schools in Africa altogether benefiting about 9000 locals. It is continuing the 'Hansol Chemical WASH self-sustainable school Season 2' in 2020 for Lorengo Primary School in Turkana County, Kenya.

Hansol Chemical Water Campaign History

2016

Hansol Chemical WASH self-sustainable village Season 1

Self-sustainability of villagers in 3 villages (Hewani, Bularahma, Umoja) near Tana River County, Kenya WASH self-sustainable

skill training, drinking water facility projects, health & hygiene training, 3 new ground water facilities, 6 pumps repaired, 6 toilets built, hygiene kits sent to 340 families

2018

Hansol Chemical WASH self-sustainable school Season 1

Makutano Primary School Turkana County, Kenya/ built solar drinking water facility system, hygiene facilities; hygiene training & campaigns; potable water supply system at 100m deep; 4 new toilets; replaced existing toilet door and lock; installed a waste disposal site

2015

Drinking water facility for Kafubu West Primary School in Zambia

Improved drinking water and bathroom facilities for the school

Hansol Paper 6th project, Chua Ta school, Vietnam

2017

Hansol Chemical WASH self-sustainability village Season 2

One toilet built, fundamental WASH training, training on hand washing & soap making, first aid training for 3 villages (Galilee, Chamwanamuma, Marembo) in Tana River County, Kenya

2019

Hansol Chemical WASH self-sustainable school Season 2

Lorengo Primary School Turkana County, Kenya/built a potable water supply network; built toilets & hygiene facilities; health and hygiene training & campaigns





Hansol Chemical Water Campaign

APPENDIX

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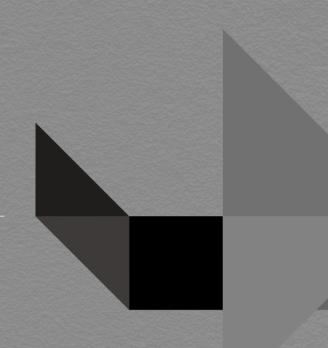
SPEED

Rapidness based on simplicity and practicality

Slow decision making often disappoints customers and discourages organizational members. We need to create a Hansol culture of fast decision-making and implementation that makes internal and external customers impressed.

speed is based on "Simplicity" and "Practicality". 'Simpleness' should focus more on practical things than formality. It means reducing excessive or useless work including unnecessary meetings, reporting, methods of work, organization, and so on, and concentrating efforts on essence and core work. The 'practicality' should prioritize the work expertise and rational way of thinking of each employee. The management and HR departments must always fill the organization with such competent personnel.

Speed is a rapid capture of 'timing'. It means reacting faster to customer wants than the competitor in solving the customer's problems, making offers in advance before the customer's requests. Speed also contributes to accelerating the business, while moving up the timing of performance and minimizing the cost of time delays.



SUSTAINABILITY FUNDAMENTALS SUSTAINABILITY ISSUES APPENDIX 56 HANSOL GROUP SUSTAINABILITY REPORT 2020 57

Data Center

Hansol Holdings

Board of Directors Performance

Category		Unit	2017	2018	2019
	No. of Board Meetings	Times	5	10	9
	Voted Matters	Cases	10	21	26
Board of	Prior Review	%	100	100	100
Directors	Amended Matters	Cases		0	0
Operation	Reported Matters	Cases	3	6	11
Operation	Meeting Attendance	%	85.7	97.1	93.7
	Non-executive Director Attendance	%	66.7	100	100
	Female		0	0	0
Discounting of	Male	-	7	7	7
Diversity of Board Members	Less than 30	Persons	0	0	0
	30~50	-	0	0	1
	Over 50	-	7	7	6

Economic Performance

Category		Unit	201
Business Performance	Total Turnover		26,35
	Business Profit	KRW 1 million	11,52
	Net Profit During Term		7.15

Environmental Performance

Category		Unit	2019
Serious Harmful (Chemical)	No. of Cases	Cases	0
Substance Spillage	Amount	Ton	0
\(\(\) - - - - - - - - -	Fine	KRW	0
Violation of Environmental Law & Regulations	No. of Lawsuits	Cases	0
Law & Regulations	Non-monetary Sanctions	Cases	0
Environmental Training	Training Hours	Hours	43
Elivirolillelitai Ilallillig	No. of Attendees	Persons	7

Social Performance

Category			Unit	2019
Total No. of Staff	& Employees			44
	-	Total		12
	Executive	Female		0
		Male		12
		Total		31
Staff & Employees	Permanent	Female		4
(By employment type)		Male		27
		Total	Persons	1
	Temporary	Female		0
		Male		1
	Unaffiliated Perso	onnel		0
Staff & Employees	Full-Time			41
(By work shift type)	Part-Time			3
Staff & Employees	Korea			44
(By location)	Overseas			0
	Female			1
	Male			3
New Employees	Less than 30		Persons	0
	30~50			4
	Over 50			0
	Average Length	Male	Years —	13
Job Stability	of Service	Female	leais	8
	Turnover rate		%	3.4
	No. of Industrial	Accidents	Cases	0
Industrial Accidents	Industrial Accider	nt Rate	%	0
	No. of Deaths		Persons	0
	No. of Injuries			0
	Working-Hour Lo	SS	Hours	0

Category			Unit	2019
	Total Budget		KRW 1 million	301
Talent	No. of Beneficiaries		Persons	41
Development	Training Cost per Employee		KRW 1 thousand	3,087
	Avg. Training Hou	r per Employee	Hours	19
	Female Percentag	e	%	9.1
	Gender-based	Male (Avg. Wage)	KRW 1 million —	128
	Salary and Wage	Female (Avg. Wage)	KINYY I IIIIIIIUII	73
		No. of Disabled		0
Diversity of Employees		No. of Elderly (55 or		1
	Employment	over; excl. executives)		
	of Socially	No. of Foreigner	Persons	0
	Disadvantaged	No. of High School		3
		Graduates	_	
		No. of Veterans		0
		Percent of Disabled		0
	of Socially Disadvantaged Perconstruction Perc	Percent of Elderly		2.3
		Percent of Foreigner	%	0
		Percent of High School	/0	6.8
		Graduates	_	0.0
		Percent of Veterans		0
Anti-corruption Policy and Procedure	No. of Employees in the Ethics Pledo		Persons	41
Anti-corruption Violation Cases	No. of Anti-corrup	tion Violation Cases	Cases	0
Data Security Violation Cases	No. of Customer [Data Leaks, Thefts, Losses	Cases	0
U Dialete	Human Rights Tra	ining Hours	Hours	41
Human Rights	Sexual Harassment Prevention		Hours	82
Policy and Procedure	Education Hours		Hours —	02
	Other education		Hours	82
Social Contribution	Investment in Soc	ial Contribution	KRW 1 million	65

Hansol Paper

Economic Performance

Category		Unit	2019
	Total Turnover	Offic	1,912,588
Business	Business Profit	VDW 1: II:	105,301
Performance	Net Profit During Term	— KRW 1 million -	40,024
Research &	R&D Investment		4,405
Development	R&D Expense/Sales	%	0.27
Development	No. of Researchers	Persons	33

Environmental Performance

Category			Unit	201
Raw Material Use	Raw Material	Use	Ton/Year	1,249,88
Described Davis	Recycled Mat	erial Usage	Ton/Year	573,17
Recycled Raw Material Use	Percent of Re	cycled Material Usage	%	45.
ivialeriai USE	(Recycled Rav	w Material)		43.
Total Energy Use			TJ	16,19
Total Water Use	(Usage, Korea)			23,652,38
Waterworks		Waterworks Usage	Ton/Year	4,922,93
Groundwater		Goundwater Usage	IOII/ fedi	9,556,94
Sea Water		Sea water Usage		1,466,61
Water Reuse		Water Reuse	Ton/Year	8,076,42
vvaler Keuse		Water Reuse Rate	%	34.
Greenhouse	F	Direct Emissions (Scope 1)	+CO oa	358,29
Gas Emissions	Emissions	Indirect Emissions (Scope 2)	tCO₂eq	594,17
		SOx		250.
Air Pollutant		NOx	.,	158,40
Emissions	Emissions*	Dust	· Kg ·	57,16
		HCI		13,45
Wastewater Discharge	Discharged		Ton/Year	16,853,45
	Discharged	BOD	ppm	19.6
Water Pollutant		COD		32.7
Discharge		SS		6.8
	Total Waste C	Generated (Disposed, Korea)		231,58
		Incineration		161,89
		Landfill	Ton	7,73
Waste		Recycle		177,23
		Others		
	Waste Recycle		%	7
Serious Harmful	No. of Cases	CG TIGEC	Cases	
(Chemical) Substance Spillage	Amount		Ton	
Violation of	Fine		KRW 1 million	
Environmental Law		its	Cases	
& Regulations	Non-monetar		Cases	
Environmental		Environmental Investment		9,56
		Environmental Management Cost		17,82
Environmental	Training Hour		Hours	6,83
Training	No. of Attend		Persons	69
IIalillily	IVO. OI ALLEHU	ees	LG120112	03

Social Performance

Category			Unit	201
Total No. of Staff & Employees Total			Persons	1,15
		Total	Persons	2
	Executive	Female	Persons	
		Male	Persons	2
		Total	Persons	1,11
Staff & Employees	Permanent	Female	Persons	8
(By employment type)		Male	Persons	1,02
		Total	Persons	1
	Temporary	Female	Persons	1
		Male	Persons	
	Unaffiliated Pe	rsonnel	Persons	
Staff & Employees	Full-Time		Persons	1,15
(By work shift type)	Part-Time		Persons	
Staff & Employees	Korea		Persons	1,14
(By location)	Overseas		Persons	

ategory			Unit	2019
	Female		Persons	11
	Male		Persons	74
lew Employees			Persons	54
iew Employees	30~50		Persons	29
	Over 50		Persons	2
	Average Length	Male	I EISUIIS	18.0
L Carlilla.	5 5		Years	
ob Stability	of Service	Female	0/	9.0
	Turnover Rate		%	2.5
	No. of Industrial A		Cases	1
ndustrial	Industrial Accident	Rate	%	0.1
ccidents	No. of Deaths		Persons	0
iccidents	No. of Injuries		Persons	1
	Working-Hour Los	S	Hours	600
	Total Budget		KRW 1 million	1,900
alent	No. of Beneficiarie	S	Persons	1,147
evelopment	Training Cost per E		KRW 1 thousand	1,656
evelopment	Avg. Training Hour		Hours	70
			%	8.7
	Female Percentage		70	
	Gender-based	Male (Avg. Wage)	KRW 1 million	73
	Salary and Wage			48
		No. of Disabled		30
		No. of Elderly (55 or over)		
	Employment	excl. executives) No. of		74
ivorcity of	of Socially	High School Graduates	Persons	
iversity of	Disadvantaged	No. of Foreigners		0
taff &		No. of High School Graduates		722
mployees		No. of Veterans		23
		Percent of Disabled		2.62
		Percent of Elderly		6.45
	Employment	Percent of Foreigner		0.13
	of Socially	Percent of High School	. %	
	Disadvantaged	Graduates		62.95
				2.01
		Percent of Veterans	NI I	2.01
irowth &		Total No. of Partners	Numbers	44
artnership	Supplier	Total Purchases from	KRW 1 million	201,251
	Partners			
air Trade	Violation of Fair Tr	ade	Cases	0
un muuc	Fine		KRW 1 million	0
nti-corruption	No. of Employees	Darticinating		
olicy and	in the Ethics Pledg		Persons	991
rocedure	III the Ethics Pleag	e		
nti-corruption		L.i. o		
iolation Cases	Anti-corruption Vi	olation Cases	Cases	0
ata Security				
iolation Cases	No. of Customer D	ata Leaks, Thefts, Losses	Cases	0
iolation cases	No. of Persons	Total		7
		Total		
	Utilizing Maternity		Persons	0
laternity	Leave	Female		7
eave	No. of Returnees	Total		5
	Working 12	Male	Persons	0
	Months or More	Female		5
	No. of Persons	Total		10
	Utilizing Child	Male	Persons	3
	Care Leave	Female		7
hild Care	No. of Returnees	Total		8
eave	Working 12	Male	Persons	3
	Months or More	Female	1 (130113	5
	Average Length of		Dave	149.5
			Days Total bours	
luman Rights		Illying Training Hours	Total hours	1,146
olicy and	Sexual Harassmen	t Prevention	Total hours	1,146
rocedure	Education Hours			
	Other Education		Total hours	1,146
	Investment in Soci		KRW 1 million	458
ocial	Total Volunteer Ho	nurs	Hours	12,000
ocial ontribution	Avg. Volunteer Ho		Hours	10.5
		urs per Employee		

Hansol Papertech

Economic Performance

Category		Unit	2019
Business Performance	Total Turnover	— KRW ———	99,509
	Business Profit	— NRVV —————————————————————————————————	4,318
	Net Profit During Term	- 1111111011	2,610

Environmental Performance

Category		Unit	201
Raw Material Use	Raw Material Usage	Ton/Year	291,72
Recycled Raw	Recycled Material Usage	Ton/Year	285,35
Material Use	Percent of Recycled Material Usage (Recycled Raw Material)	%	97.
Total Energy Use	Total Energy Use		66,07
Total Water Use (Usage, Korea)			2,126,34
Waterworks	Waterworks Usage	— Ton/Year	6,43
Groundwater	Goundwater Usage	TOTI/ Teal	468,88
Sea Water	Sea water Usage		
Water Reuse	Water Reusage	Ton/Year	279,58
water keuse	Water Reuse Rate	%	14.
Environmental	Training Hours	Hours	25
Training	No. of Attendees	Persons	11

Social Performance

Category			Unit	2019
Total No. of Staff	& Employees		Persons	137
		Total	Persons	6
	Executive	Female	Persons	0
		Male	Persons	6
		Total	Persons	125
Staff & Employees	Permanent	Female	Persons	4
(By employment type)		Male	Persons	121
		Total	Persons	2
	Temporary	Female	Persons	0
		Male	Persons	2
	Unaffiliated Per	rsonnel	Persons	4
Staff & Employees	Full-Time		Persons	137
(By work shift type)	Temporary		Persons	0
Staff & Employees	Korea		Persons	137
(By location)	Overseas		Persons	C
	Female			0
	Male		Persons	11
New Employees	Less than 30			7
	30~50			4
	Over 50			0
	Average Length	n Male	Years —	9.7
Job Stability	of Service	Female	— rears —	10.9
	Turnover Rate	-	%	3.1
	No. of Industria	Accidents	Cases	3
Industrial	Industrial Accid	ent Rate	%	1.5
Accidents	No. of Deaths		Persons	0
Accidents	No. of Injuries		Persons	3
	Working-Hour Loss		Hours	279
	Total Budget		KRW 1 million	174
Talent	No. of Beneficia	aries	Persons	120
Development	Training Cost p	er Employee	KRW 1 thousand	1,417
	Avg. Training H	our per Employee	Hours	78

Category			Unit	2019
	Female Percentage	2	%	2.9
	Gender-based	Male (Avg. Wage)	- KRW 1 million —	57
	Salary and Wage	Female (Avg. Wage)	VVAA I IIIIIIOII —	44
		No. of Disabled		0
		No. of Elderly (55 or	_	0
	Employment	over; excl. executives)		U
Diversity of Staff &	of Socially	No. of Foreigner	Persons	0
	Disadvantaged	No. of High School		12
Employees		Graduates	_	1.2
Employees		No. of Veterans		0
		Percent of Disabled		0
	[mnlayment	Percent of Elderly		0
	Employment of Socially	Percent of Foreigner	. % _	0
	Disadvantaged	Percent of High School	- /0 —	8.8
	Disadvantaged	Graduates	_	0.0
		Percent of Veterans	_	0
Growth &		Total No. of Partners	Numbers	3
Partnership	Supplier	Total Purchases from	KRW 1 million	12,228
raitheiship		Partners	KNW I IIIIIIUII	12,220
Fair Trade	Violation of Fair Trade		Cases	0
raii iiaue	Fine		KRW 1 million	0
Anti-corruption	No. of Employees I	Participating		
Policy and	in the Ethics Pledg	, ,	Persons	115
Procedure	- III the Ethics Fledy			
Anti-corruption	No of Anti-corrupt	No. of Anti-corruption Violation Cases		0
Violation Cases		aon violation cases	Cases	
Data Security Violation Cases	No. of Customer D	ata Leaks, Thefts, Losses	Cases	0
	No. of Persons	Total		2
	Utilizing Maternity	Male	Persons	2
Maternity	Leave	Female	_	0
Leave	No. of Returnees	Total		2
	Working 12	Male	Persons	2
	Months or More	Female	_	0
	No. of Persons	Total		0
	Utilizing Child	Male	Persons	0
	Care Leave	Female	_	0
Child Care	No. of Returnees	Total		0
Leave	Working 12	Male	Persons —	0
	Months or More	Female		0
	Average Length of		Days	0
		Illying Training Hours	Total hours	135
Human Rights	Sexual Harassmen	, , , , , , , , , , , , , , , , , , , 		
Policy and	Education Hours	e i revenuon	Total hours	270
Procedure	Other Education		Total hours	270
Social				
Contribution	Investment in Soci	al Contribution	KRW 1 million	19

Hansol PNS

Economic Performance

Category		Unit	2019
Desciones	Total Turnover		233,892
Business Performance	Business Profit	KRW 1 million	3,983
renonlidice	Net Profit During Term		3,156

Environmental Performance

Category			Unit	2019
Green House	Emissions	Direct Emissions (Scope 1)	+CO 00	152
Gas Emissions	EMISSIONS	Indirect Emissions (Scope 2)	tCO₂eq —	192
	Total Waste	Generated (Disposed, Korea)		1,004
		Incineration	_	C
Waste*		Landfill	Ton	C
waste		Recycle	_	1,004
		Others	_	C
	Waste Recyc	cled Rate	%	100
Serious Harmful	(Chemical)	No. of Cases	Cases	(
Substance Spilla	ge	Amount	Ton	C
\/:- -+:f		Fine	KRW 1 million	C
Violation of Environmental		No. of Lawsuits	Cases	C
Law & Regulation	1112	Non-monetary Sanctions	Cases	C
Environmental Training		Training Hours	Hours	84
		No. of Attendees	Persons	56

^{*} Except general waste from the headquarter

Social Performance

Category			Unit	2019(Paper)	2019(IT)
Total No. of S	Staff & Employ	ees	Persons	83	132
	_	Total	Persons	4	1
	Executive	Female	Persons	0	0
		Male	Persons	4	1
Staff &		Total	Persons	78	131
Employees	Permanent	Female	Persons	18	37
(By employment		Male	Persons	60	94
type)		Total	Persons	1	C
	Temporary	Female	Persons	0	0
		Male	Persons	1	C
	Unaffiliated P	ersonnel	Persons	0	0
Staff &	Full-Time		Persons	83	132
Employees (By work shift type)	Temporary		Persons	0	0
Staff & Korea			Persons	83	131
Employees (By location)	Overseas		Persons	0	1
	Female			2	14
	Male			2	24
New	Less than 30		Persons	1	16
Employees	30~50		_	3	22
	Over 50			0	0
	Average Length Male		V	10.3	9.7
Job Stability	of Service	Female	Years	7.6	4.7
	Turnover Rate	2	%	8.0	9.2
	No. of Industr	ial Accidents	Cases	0	0
o Lacat	Industrial Acc	ident Rate	%	0	0
Industrial Accidents	No. of Deaths	i	Persons	0	0
Accidents	No. of Injuries	5	Persons	0	0
	Working-Hour Loss		Hours	0	
	Total Budget		KRW 1 million	70	102
Talent	No. of Benefi	ciaries	Persons	83	130
Development	Training Cost	per Employee	KRW 1 thousand	843	787
	Avg. Training	Hour per Employee	Hours	40	87.6

Category			Unit	2019(Paper)	2019(IT)
Diversity of Staff & Employees	Female Percer	itage	%	21.7	28.0
	No. of Industri	Cases	0		
	Industrial Acci		%		0
Industrial	No. of Deaths		Persons		
Accidents	No. of Injuries		Persons		0
	Working-Hour	Loss	Hours		
	Total Budget		KRW 1 million	70	102
Talent	No. of Benefic	iaries	Persons	83	130
	Training Cost		KRW 1 thousand	843	787
		Hour per Employee	Hours	40	88
	Female Percer	%	21.7	28.0	
	Gender-based	Male (Avg. Wage)		59	61
	Salary and Wage	Female (Avg. Wage)	KRW 1 million	37	44
		No. of Disabled		1	
		No. of Elderly (55 or over;			
	Employment	excl. executives)		4	0
D: : (of Socially	No. of Foreigner	Persons	0	1
Divorcity of	Disadvantaged	No. of High School			
		Graduates		8	3
		No. of Veterans		0	1
		Percent of Disabled		1.2	0
	F 1	Percent of Elderly		4.8	0
	Employment of Socially	Percent of Foreigner	%	0	0.8
	of Socially Disadvantaged	Percent of High School	70	0.6	
	Disduvarilageu	Graduates		9.6	2.3
		Percent of Veterans		0	0.8
Fair Trade	Violation of Fa	ir Trade	Cases	0	0
raii iiaue	Fine		KRW 1 million	0	0
Anti- corruption Policy and Procedure	No. of Employ in the Ethics P	ees Participating ledge	Persons	73	132
Anti-corruption Violation Cases	No. of Anti-co	rruption Violation Cases	Cases	0	0
Data Security Violation Cases	No. of Custom	er Data Leaks, Thefts, Losses	Cases	0	0
	No. of Persons	Total		0	5
	Utilizing	Male	Persons	0	3 2
Maternity	Maternity Leave			0	
Leave	No. of Returnees	Total		0	0
	Working 12	Male	Persons	0	0
	Months or More	Female		2	0
	No. of Persons	Total		2	3
	Utilizing Child	Male	Persons	0	0
CI:II C	Care Leave	Female		2	3
Child Care	No. of Returnees	Total		2	0
Leave	Working 12	Male	Persons	0	0
	Months or More	Female		0	0
	Average Leng		Days	0	361
	Workplace An	ti-bullying Training Hours	Total hours		103
Human Rights	Sexual Harass	ment Prevention			
Policy and	Education Ho		Total hours	80	132
Procedure	Other Educati		Total hours	240	103
Social Contribution	Investment in	Social Contribution	KRW 1 million	46	19

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Hansol HomeDeco

Economic Performance

Category		Unit	2019
Duning	Total Turnover		263,886
Business Performance	Business Profit	KRW 1 million	-1,666
renomiance	Net Profit During Term		-4,558
Research & Development	Total R&D Expense for Current Term	KRW 1 million	84
	R&D Expense/Sales	<u></u>	0.03
	No. of Researchers	Persons	0.03

Environmental Performance

Category			Unit	2019
Raw Material Use	Raw Materia	Use	Ton/Years	305,616
Doguelad Daw	Recycled Mat	erial Usage	Ton/Years	103,494
Recycled Raw Material Use Percent of Re (Recycled Ray		cycled Material Usage w Material)	%	33.9
Total Energy Use			TJ	1,159
Total Water Use	(Usage, Korea			654,167
Waterworks		Waterworks Usage	Ton/Years	357,925
Groundwater		Goundwater Usage		157,712
Water Reuse		Water Reuse Amount	Ton/Years	138,530
vvater neuse		Water Reuse Rate	%	21.2
Green House	Emissions	Direct Emissions (Scope 1)	+CO oa	14,281
Gas Emissions	EIIIISSIOIIS	Indirect Emissions (Scope 2)	tCO₂eq	49,471
	Emissions	SOx	- Kg -	1,142.9
Air Pollutant		NOx		70,312.0
Emissions		Dust		29,651.3
		HCI		6,461.8
Wastewater Discharge	Discharged		Ton/Years	134,472
Water Pollutant		BOD		20
Discharge	Discharged	COD	ppm	58
Discharge		SS		15
	Total Waste C	Generated (Disposed, Korea)		141,532
		Incineration		17,146
Waste		Landfill	Ton	1,540
vvaste		Recycle		122,846
		Others		0
	Waste Recycl	ed Rate	%	87
Environmental	Investment in	Environmental Investment	KRW 1 million	-
Cost & Investment	Environment	Environmental Management Cost	KRW 1 million	1752
Environmental Tr	aining	Training Hours	Hours	594
Environmental Tr	airiiliy	No. of Attendees	Persons	297

Social Performance

Category			Unit	2019
Total No. of Staff	& Employees		Persons	264
	_	Total	Persons	7
	Executive	Female	Persons	0
		Male	Persons	7
		Total	Persons	257
Staff & Employees (By employment type)	Permanent	Female	Persons	20
		Male	Persons	237
		Total	Persons	0
	Temporary	Female	Persons	0
		Male	Persons	0
	Unaffiliated Pe	rsonnel	Persons	0
Staff & Employees	Full-Time		Persons	264
(By work shift type)	Temporary		Persons	0
Staff & Employees	Korea		Persons	260
(By location)	Overseas		Persons	4

Category			Unit	2019
	Female			0
	Male		_	18
New Employees	Less than 30		Persons	11
	30~50		_	4
	Over 50			3
	Average Length	Male	Years —	11
Job Stability	of Service	Female	ieais	8
	Turnover Rate		%	11.0
	No. of Industrial Ad		Cases	3
Industrial	Industrial Accident	Rate	%	1.2
Accidents	No. of Deaths		Persons	0
	No. of Injuries		Persons	3
	Working-Hour Loss	5	Hours	1,369
	Total Budget		KRW 1 million	250
Talent	No. of Beneficiaries		Persons	259
Development	Training Cost per E		KRW 1 thousand	965
	Avg. Training Hour		Hours	41
	Female Percentage		<u>%</u>	8.0
	No. of Female Mar		Persons	2
	Percent of Female		%	1.5
	Gender-based	Male (Avg. Wage)	KRW 1 million —	57
	Salary and Wage	Female (Avg. Wage)		46
Diversity of Staff & Employees		No. of Disabled	_	1
	F 1	No. of Elderly (55 or		2
	Employment of Socially	over; excl. executives)	Dorcons —	
	Disadvantaged	No. of Foreigner No. of High School	Persons	0
	Disauvaniageu	Graduates		32
		No. of Veterans	_	1
		Percent of Disabled		0.4
		Percent of Elderly	%	1
	Employment of Socially	Percent of Foreigner		0
		Percent of High School		
	Disadvantaged	Graduates		12
		Percent of Veterans	_	0.4
Growth &	c 1:	Total No. of Partners	Numbers	5
Partnership	Supplier	Total Purchases from Partners	KRW 1 million	6,823
Fair Trada	Violation of Fair Tra	ade	Cases	0
Fair Trade	Fine		KRW 1 million	0
Anti carruntian	No. of Employees F	Participating	Persons	264
Anti-corruption Policy and	in the Ethics Pledg			204
Procedure	Percent of Persons	Who Completed	%	100
	Ethics Training			
Anti-corruption	No. of Anti-corrupt	ion Violation Cases	Cases	0
Violation Cases				
Data Security Violation Cases	No. of Customer D	ata Leaks, Thefts, Losses	Cases	0
	No. of Persons	Total		7
Maternity	Utilizing Maternity	Male	Persons	5
	Leave	Female		2
Leave	No. of Returnees	Total		7
	Working 12	Male	Persons	5
	Months or More	Female		2
	No. of Persons	Total	_	2
	Utilizing Child	Male	Persons	1
Child Care	Care Leave	Female		1
Leave	No. of Returnees	Total	_	0
	Working 12	Male	Persons	0
	Months or More	Female		0
	Average Length of	Leave	Days	122

Hansol Logistics

Economic Performance

Category		Unit	2019
Business Performance	Total Turnover		460,730
	Business Profit	KRW 1 million	9,520
	Net Profit During Term		5,909

Environmental Performance

Category		Unit	2019
Serious Harmful (Chemical)	No. of Cases	Cases	0
Substance Spillage	Amount	Ton	0
Verlage of the state of the	Fine	KRW 1 million	0
Violation of Environmental Law	No. of Lawsuits	Cases	0
& Regulations	Non-monetary Sanctions	Cases	0

Category			Unit	2019
Total No. of Staff	& Employees		Persons	358
		Total	Persons	8
	Executive	Female	Persons	0
		Male	Persons	8
		Total	Persons	328
Staff & Employees	Permanent	Female	Persons	55
(By employment type)		Male	Persons	273
		Total	Persons	22
	Temporary	Female	Persons	15
		Male	Persons	7
	Unaffiliated Personnel		Persons	0
Staff & Employees	Full-Time		Persons	358
(By work shift type)			Persons	0
Staff & Employees			Persons	348
(By location)	Overseas		Persons	10
	Female			12
	Male		Persons	33
New Employees	Less than 30			13
	30~50			31
	Over 50			1
	Average Length	Male		8
Job Stability	of Service	Female	—— Years —	6
,	Turnover Rate		%	5.7
	No. of Industrial	Accidents	Cases	1
	Industrial Accider	nt Rate	%	0.3
	No. of Deaths		Persons	0
Accidents	No. of Injuries		Persons	1
	Working-Hour Lo	SS	Hours	240
	Total Budget		KRW 1 million	290
Talent	No. of Beneficiari	es	Persons	340
By employment type) Staff & Employees By work shift type) Staff & Employees (By location) New Employees Job Stability Industrial Accidents	Training Cost per	Employee	KRW 1 thousand	852
-	Avg. Training Hou	ır per Employee	Hours	78

Category			Unit	2019
	Female Percentage		%	19.7
	No. of Female Mar		Persons	10
	Percent of Female	Manager	%	6.9
	Gender-based	Male (Avg. Wage)	I/DIA/ 4 :II:	57
	Salary and Wage	Female (Avg. Wage)	KRW 1 million —	40
		No. of Disabled		0
Diversity of		No. of Elderly (55 or over;	_	0
	Employment	excl. executives)		U
Staff &	of Socially	No. of Foreigner	Persons	0
Employees	Disadvantaged	No. of High School		92
Linployees		Graduates		
		No. of Veterans		3
		Percent of Disabled		0
	Employment	Percent of Elderly	_	0
	of Socially	Percent of Foreigner	. % _	0
	Disadvantaged	Percent of High School	,,	25.8
		Graduates	_	
		Percent of Veterans		0.8
Growth &		Total No. of Partners	Numbers _	798
Partnership	Supplier	Total Purchases from Partners	KRW 1 million	260,864
Fair Tanda	Violation of Fair Tra	ade	Cases	0
Fair Trade	Fine		KRW 1 million	0
Anti-corruption Policy and Procedure	No. of Employees Participating in the Ethics Pledge		Persons	350
Anti-corruption Violation Cases	No. of Anti-corrupt	ion Violation Cases	Cases	0
Data Security Violation Cases	No. of Customer D	ata Leaks, Thefts, Losses	Cases	0
	No. of Persons	Total		10
	Utilizing Maternity	Male	Persons _	8
Maternity	Leave	Female		2
Leave	No. of Returnees	Total	_	10
	Working 12	Male	Persons _	8
	Months or More	Female		2
	No. of Persons	Total	_	6
	Utilizing Child	Male	Persons	0
Child Care	Care Leave	Female		6
Leave	No. of Returnees	Total	_	6
LCUVC	Working 12	Male	Persons	0
	Months or More	Female		6
	Average Length of	Leave	Days	77
Human Rights Policy and	Sexual Harassment Education Hours	t Prevention	Total hours	316
Procedure	Other Education		Total hours	316
Social Contribution	Investment in Social	al Contribution	KRW 1 million	70
CONTRIBUTION				

Hansol Technics

Economic Performance

Category		Unit	2019
Business	Total Turnover		972,243
Performance	Business Profit	KRW 1 million	25,466
renomiance	Net Profit During Term		6,444
	Total R&D Expense for	KRW 1 million	17,549
Research &	Current Term	KRW I IIIIIIOII	17,549
Development	R&D Expense/Sales	%	2.97
	No. of Researchers	Persons	134

Environmental Performance

Category			Unit	2019
Raw Material Us	se	Raw Material Use	Ton/Years	24
Total Energy Use)		TJ	281
Total Water Use	(Usage, Korea	1)		51,881
Waterworks		Waterworks Usage	Ton/Years –	40,211
Groundwater		Goundwater Usage	TOTI/ Teals	-
Sea Water		Sea water Usage		-
Water Reuse		Water Reuse Amount	Ton/Years	-
water neuse		Water Reuse Rate	%	0
Green House Emissions		Direct Emissions (Scope 1)	tCO ₂ eq –	293
Gas Emissions	EIIIISSIOIIS	Indirect Emissions (Scope 2)	rico₂eq –	13,350
		SOx		0
Air Pollutant	Emissions	NOx		1
Emissions	EMISSIONS	Dust	Kg —	0
		HCI		0
Wastewater Discharge	Discharged		Ton/Years	38,594
		BOD		12
Water Pollutant	Discharged	COD	ppm _	14
Discharge	-	SS		19
	Total Waste	Generated (Disposed, Korea)		1,455
		Incineration	_	21
147		Landfill	Ton	497
Waste		Recycle	-	627
		Others	_	309
	Waste Recyc	led Rate	%	43
Serious Harmful	(Chemical)	No. of Cases	Cases	0
Substance Spilla	ge	Amount	Ton	0
		Fine	KRW 1 million	0
Violation of Envi		No. of Lawsuits	Cases	0
Law & Regulations		Non-monetary Sanctions	Cases	0

Social Performance

Category			Unit	2019
Total No. of Staff	& Employees		Persons	657
		Total	Persons	11
	Executive	Female	Persons	0
		Male	Persons	11
		Total	Persons	575
Staff & Employees	Permanent	Female	Persons	123
(By employment type)		Male	Persons	452
		Total	Persons	71
	Temporary	Female	Persons	25
		Male	Persons	46
	Unaffiliated Personnel		Persons	0
Staff & Employees	Full-Time		Persons	657
(By work shift type)	Temporary		Persons	0
	Female			44
	Male			150
New Employees	Less than 30		Persons	95
	30~50			87
	Over 50			12

Category			Unit	2019
	Average Length	Male	Years —	8.6
Job Stability	of Service	Female		9.5
	Turnover Rate		%	14.0
	No. of Industrial Ad	ccidents	Cases	1
Industrial	Industrial Accident	Rate	%	0.2
Accidents	No. of Deaths		Persons	(
, iccidents	No. of Injuries		Persons	1
	Working-Hour Loss	5	Hours	(
	Total Budget		KRW 1 million	280
Talent	No. of Beneficiarie	S	Persons	703
Development	Training Cost per E	mployee	KRW 1 thousand	465
	Avg. Training Hour	per Employee	Hours	43
	Female Percentage		%	22
	No. of Female Mar	nager	Persons	4
	Percent of Female	Manager	%	1.8
	Gender-based	Male (Avg. Wage)	VDW 1 million	56.2
	Salary and Wage	Female (Avg. Wage)	KRW 1 million —	43.3
		No. of Disabled		10
		No. of Elderly (55 or		2-
	Employment	over; excl. executives)		27
Diversity of	of Socially Disadvantaged	No. of Foreigner	Persons	(
Staff &		No. of High School		246
Employees		Graduates		249
		No. of Veterans		
		Percent of Disabled		1.5
		Percent of Elderly		4.1
	Employment of Socially Disadvantaged	Percent of Foreigner	% —	(
		Percent of High School		
		Graduates		37.9
		Percent of Veterans		0.6
	Violation of Fair Tra		Cases	(
Fair Trade	Fine	duc	KRW 1 million	(
		Particinating	- MANY THIRINGT	
Anti-corruption	No. of Employees Participating in the Ethics Pledge		Persons	389
Policy and	Percent of Persons Who Completed			
Procedure	Ethics Training		%	100
Anti-corruption Violation Cases		ion Violation Cases	Cases	(
Data Security				
Violation Cases			_	
	No. of Customer D	ata Leaks, Thefts, Losses	Cases	(
	No. of Customer D No. of Persons	ata Leaks, Thefts, Losses Total	Cases —	
	No. of Persons	Total	Cases — — — — Persons	1
Maternity		Total		1
Maternity Leave	No. of Persons Utilizing Maternity Leave	Total Male Female		1
,	No. of Persons Utilizing Maternity Leave No. of Returnees	Total Male Female Total	Persons	(
,	No. of Persons Utilizing Maternity Leave No. of Returnees Working 12	Total Male Female Total Male		1 (
,	No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More	Total Male Female Total Male Female	Persons	1 (
,	No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons	Total Male Female Total Male Female Total Total Total Total	Persons Persons	1 0 1 0 1 7
,	No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child	Total Male Female Total Male Female Total Male Total Male	Persons	1 (() () () () () () () () ()
Leave	No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave	Total Male Female Total Male Female Total Male Female Total Male Female	Persons Persons	1 1 1 (((((((((((((((((
Leave ,	No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees	Total Male Female Total Male Female Total Male Female Total Male Female Total	Persons Persons Persons	11 (0 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1
Leave ,	No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12	Total Male Female Total Male	Persons Persons	11 11 11 11 11 11 11 11 11 11 11 11 11
Leave ,	No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More	Total Male Female Total	Persons Persons Persons Persons	11 11 11 11 11 11 11 11 11 11 11 11 11
Leave Child Care	No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of	Total Male Female Total Male Leave	Persons Persons Persons	11 11 11 11 11 11 11 11 11 11 11 11 11
Child Care Leave	No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Sexual Harassmeni	Total Male Female Total Male Leave	Persons Persons Persons Persons	110000000000000000000000000000000000000
Child Care Leave Human Rights Policy and	No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Sexual Harassment Education Hours	Total Male Female Total Male Leave	Persons Persons Persons Days Total hours	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Child Care Leave Human Rights Policy and Procedure	No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Sexual Harassment Education Hours Other Education	Total Male Female Female Female Total	Persons Persons Persons Days Total hours Total hours	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
,	No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Sexual Harassment Education Hours	Total Male Female Leave Total Total Total Male Female Leave Total Total	Persons Persons Persons Days Total hours	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Hansol EME

Economic Performance

Category		Unit	2019
Business	Total Turnover		205,832
Performance	Business Profit	KRW 1 million	-2,975
renormance	Net Profit During Term		-7,985
	Total R&D Expense for	KRW 1 million	101
Research &	Current Term	KRW I IIIIIIUII	101
Development	R&D Expense/Sales	%	0.05
	No. of Researchers	Persons	2

Environmental Performance

Category		Unit	2019
Serious Harmful (Chemical)	No. of Cases	Cases	0
Substance Spillage	Amount	Ton	0
Verlage of the control of the	Fine	KRW 1 million	12
Violation of Environmental Law	No. of Lawsuits	Cases	0
& Regulations	Non-monetary Sanctions	Cases	0

Social Performance

Category			Unit	2019
Total No. of Staff	& Employees		Persons	507
		Total	Persons	5
	Executive	Female	Persons	0
		Male	Persons	5
		Total	Persons	418
Staff & Employees	Permanent	Female	Persons	16
(By employment type)		Male	Persons	402
		Total	Persons	84
	Temporary	Female	Persons	3
		Male	Persons	81
	Unaffiliated Person	nnel	Persons	0
Staff & Employees	Full-Time		Persons	507
(By work shift type)	Temporary		Persons	0
Staff & Employees			Persons	487
(By location)	Overseas		Persons	20
	Female			0
	Male			58
New Employees	Less than 30		Persons	27
. ,	30~50			24
	Over 50			7
	Average Length	Male		11
Job Stability	of Service	Female	— Years —	7
,	Turnover Rate		%	0.3
	No. of Industrial A	ccidents	Cases	3
	Industrial Accident	t Rate	%	0.3
Industrial	No. of Deaths		Persons	1
Accidents	No. of Injuries		Persons	4
	Working-Hour Los	SS	Hours	4,488
	Total Budget		KRW 1 million	155
Talent	No. of Beneficiarie	?S	Persons	506
Development	Training Cost per I	Employee	KRW 1 thousand	308
	Avg. Training Hou		Hours	60
	Female Percentage		%	3.8
Diversity of	No. of Female Ma		Persons	1
Staff &	Percent of Female		%	0.5
Employees	Gender-based	Male (Avg. Wage)		54
. ,		Female (Avg. Wage)	— KRW 1 million —	38

Category			Unit	2019
		No. of Disabled		2
		No. of Elderly (55 or		42
	Employment	over; excl. executives)		42
	of Socially	No. of Foreigner	Persons	1
	Disadvantaged	No. of High School		198
Diversity of		Graduates		
Staff &		No. of Veterans		5
Employees		Percent of Disabled	_	0.4
	Employment	Percent of Elderly		8.3
	of Socially	Percent of Foreigner	- % —	0.2
	Disadvantaged	Percent of High School Graduates		39.1
		Percent of Veterans	-	1.0
- · - ·	Violation of Fair Tra	ade	Cases	0
Fair Trade	Fine		KRW 1 million	0
Anti-corruption	No. of Employees Participating		Persons	507
Policy and	in the Ethics Pledg			
Procedure	Percent of Persons Ethics Training	%	100	
Anti-corruption Violation Cases	No. of Anti-corrupt	ion Violation Cases	Cases	0
Data Security Violation Cases	No. of Customer D	ata Leaks, Thefts, Losses	Cases	0
	No. of Persons	Total		1
	Utilizing Maternity	Male	Persons	0
Maternity	Leave	Female		1
Leave	No. of Returnees	Total	-	1
	Working 12	Male	Persons	0
	Months or More	Female		1
	No. of Persons	Total		2
	Utilizing Child	Male	Persons	1
	Care Leave	Female		1
Child Care	No. of Returnees	Total		1
Leave	Working 12	Male	Persons	0
	Months or More	Female		1
	Average Length of	Leave	Days	156
		llying Training Hours	Total hours	3,280
Human Rights Policy and	Sexual Harassment		Total hours	3,280
Procedure	Education Hours		T	
c : 1	Other Education		Total hours	3,280
Social Contribution	Investment in Socia	al Contribution	KRW 1 million	12

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Hansol Inticube

Economic Performance

Category		Unit	2019
Duning	Total Turnover		58,966
Business Performance	Business Profit	KRW 1 million	-1,013
Periormance	Net Profit During Term		-889
	Total R&D Expense for	KRW 1 million	1.562
Research &	Current Term	KRW I IIIIIIOII	1,302
Development	R&D Expense/Sales	%	2.65
	No. of Researchers	Persons	12

Environmental Performance

Category		Unit	2019
Serious Harmful (Chemical)	No. of Cases	Cases	0
Substance Spillage	Amount	Ton	0
Value (F. C.	Fine	KRW 1 million	0
Violation of Environmental Law	No. of Lawsuits	Cases	0
& Regulations	Non-monetary Sanctions	Cases	0

Social Performance

Category			Unit	2019
Total No. of Staff	& Employees		Persons	22
		Total	Persons	
	Executive	Female	Persons	(
		Male	Persons	
		Total	Persons	210
Staff & Employees	Permanent	Female	Persons	54
(By employment type)		Male	Persons	156
		Total	Persons	6
	Temporary	Female	Persons	
		Male	Persons	
	Unaffiliated Perso	onnel	Persons	(
Staff & Employees	Full-Time		Persons	22
(By work shift type)	Temporary		Persons	(
Staff & Employees	Korea		Persons	22
(By location)	Overseas		Persons	(
	Female			14
	Male			27
New Employees	Less than 30		Persons	20
	30~50			20
	Over 50			
	Average Length	Male		8.7
Job Stability	of Service	Female	— Years —	6.8
,	Turnover Rate		%	0.
	No. of Industrial	Accidents	Cases	(
	Industrial Accider	nt Rate	%	(
Industrial	No. of Deaths		Persons	(
Accidents	No. of Injuries		Persons	(
	Working-Hour Lo	ISS	Hours	(
	Total Budget		KRW 1 million	240
Talent	No. of Beneficiari	es	Persons	193
Development	Training Cost per	Employee	KRW 1 thousand	1,244
·	Avg. Training Hou		Hours	69
	Female Percentac		%	24.9
Diversity of	No. of Female Ma		Persons	20
Staff &	Percent of Female	e Manager	%	36.0
Employees	Gender-based	Male (Avg. Wage)	VDIA 4 :II:	48
-	Salary and Wage		— KRW 1 million —	39

Category			Unit	2019
		No. of Disabled		3
		No. of Elderly (55 or		15
	Employment	over; excl. executives)	_	
	of Socially	No. of Foreigner	Persons	0
	Disadvantaged	No. of High School		4
Diversity of		Graduates	_	
Staff &		No. of Veterans		2
Employees		Percent of Disabled	_	1.4
	Employment	Percent of Elderly	_	6.8
	of Socially	Percent of Foreigner	% —	0
	Disadvantaged	Percent of High School		1.8
	-	Graduates	_	
		Percent of Veterans		0.9
Growth &	c !:	Total No. of Partners	Numbers	235
Partnership	Supplier	Total Purchases from Partners	KRW 1 million	18,925
	Violation of Fair Tra	ade	Cases	0
Fair Trade	Fine		KRW 1 million	0
Anti-corruption	No. of Employees Participating in the Ethics Pledge		Persons	221
Policy and Procedure	Percent of Persons Who Completed Ethics Training		%	100.0
Anti-corruption	Luii ilaiiiiig			
Violation Cases	No. of Anti-corrupt	ion Violation Cases	Cases	0
Data Security Violation Cases	No. of Customer D	ata Leaks, Thefts, Losses	Cases	0
	No. of Persons	Total		5
	Utilizing Maternity	Male	Persons	2
Maternity	Leave	Female		3
,				
Leave	No. of Returnees	Total		5
,	No. of Returnees Working 12	Total Male	Persons —	5
,			Persons	5 2 3
,	Working 12	Male	Persons	
,	Working 12 Months or More	Male Female	Persons Persons	0
Leave	Working 12 Months or More No. of Persons	Male Female Total		0
Leave Child Care	Working 12 Months or More No. of Persons Utilizing Child	Male Female Total Male		0
Leave	Working 12 Months or More No. of Persons Utilizing Child Care Leave	Male Female Total Male Female		0 2 1
Leave Child Care	Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees	Male Female Total Male Female Total	Persons	0 2 1 0
Leave Child Care	Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More	Male Female Total Male Female Total Male Female Total Male Female	Persons	0 2 1 0
Child Care Leave	Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of	Male Female Total Male Female Total Male Female Total Male Female	Persons	5 2 3 3 5 2 2 0 0 2 1 1 0 0 1 1 1 227
Child Care Leave Human Rights Policy and	Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Workplace Anti-bu Sexual Harassment	Male Female Total Male Female Total Male Female Total Male Female Leave Ilying Training Hours	Persons Persons	0 2 1 0 1 227
Child Care Leave	Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Workplace Anti-bu Sexual Harassment Education Hours	Male Female Total Male Female Total Male Female Total Male Female Leave Ilying Training Hours	Persons Persons Days Total hours Total hours	0 2 1 0 1 227 162 221
Child Care Leave Human Rights Policy and	Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Workplace Anti-bu Sexual Harassment Education Hours Other Education	Male Female Total Male Female Total Male Female Total Male Female Leave Illying Training Hours	Persons Days Total hours Total hours	0 2 1 0 1 227 162 221
Child Care Leave Human Rights Policy and Procedure	Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Workplace Anti-bu Sexual Harassment Education Hours Other Education Investment in Social C	Male Female Total Male Female Total Male Female Total Male Female Leave Illying Training Hours t Prevention	Persons Days Total hours Total hours Total hours KRW 1 million	0 2 1 0 1 227 162 221 162 24
Child Care Leave Human Rights Policy and	Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Workplace Anti-bu Sexual Harassment Education Hours Other Education	Male Female Total Male Female Total Male Female Total Male Female Leave Illying Training Hours t Prevention Contribution urs	Persons Days Total hours Total hours	0 2 1 0 1 227 162 221

Hansol Chemical

Economic Performance

Category		Unit	2019
Business	Total Turnover		587,561
Performance	Business Profit	KRW 1 million	111,416
Periormance	Net Profit During Term		91,031
	Total R&D Expense for	KRW 1 million	10.764
Research &	Current Term	KKVV I IIIIIIIIII	10,764
Development	R&D Expense/Sales	%	2.68
	No. of Researchers	Persons	134

Environmental Performance

Category			Unit	2019
Raw Material Us	e	Raw Material Use	Ton/Years	102,420
Total Energy Use	!		TJ	2,556
Total Water Use	(Usage, Korea)		Ton/Years	2,174,239
Waterworks		Waterworks Usage	ion/ rears	31,376
Green House	Emissions	Direct Emissions (Scope 1)	tCO₁eq	71,019
Gas Emissions	EIIIISSIUIIS	Indirect Emissions (Scope 2)	ico ₂ eq	62,515
		SOx		198
Air Pollutant	Emissions	NOx	Kg	159
Emissions	EIIIISSIUIIS	Dust	Ny	251.8
		HCI		117
Wastewater Discharge	Discharged		Ton/Years	425,040
\\/-+ D= ++		BOD		156
Water Pollutant	Discharged	COD	ppm	77
Discharge	3	SS		44
	Total Waste G	enerated (Disposed, Korea)		5,782
		Incineration		1,102
147		Landfill	Ton	176
Waste	-	Recycle		4,322
		Others		182
	Waste Recycle	ed Rate	%	75
Serious Harmful		No. of Cases	Cases	(
Substance Spilla	ge	Amount	Ton	(
Violation of Envi		Fine	KRW 1 million	(
		No. of Lawsuits	Cases	
Law & Regulatio	ris .	Non-monetary Sanctions	Cases	
Environmental	Investment in	Environmental Investment	KRW 1 million	835
Cost & Investment	Environment	Environmental Management Cost	KRW 1 million	1,297
		Training Hours	Hours	13,984
Environmental Tr	airiing	No. of Attendees	Persons	437

Social Performance

Category			Unit	201
Total No. of Staff	& Employees		Persons	50
		Total	Persons	
	Executive	Female	Persons	
		Male	Persons	
		Total	Persons	44
Staff & Employees	Permanent	Female	Persons	4
(By employment type)		Male	Persons	39
		Total	Persons	4
	Temporary	Female	Persons	
		Male	Persons	4
	Unaffiliated Pe	rsonnel	Persons	
Staff & Employees	Full-Time		Persons	50
(By work shift type)	Temporary		Persons	
Staff & Employees	Korea		Persons	49
(By location)	Overseas		Persons	
	Female			
	Male			2
New Employees	Less than 30		Persons	1
	30~50			
	Over 50			

Category			Unit	2019
	Average Length	Male	Vane	10
Job Stability	of Service	Female	Years —	5
	Turnover Rate		%	5.2
	No. of Industrial A	ccidents	Cases	0
to to act of	Industrial Accident	Rate	%	0
Industrial	No. of Deaths		Persons	0
Accidents	No. of Injuries		Persons	0
	Working-Hour Los	 S	Hours	0
	Total Budget		KRW 1 million	740
Talent	No. of Beneficiarie	S	Persons	500
Development	Training Cost per E		KRW 1 thousand	1,480
	Avg. Training Hour	per Employee	Hours	16
	Female Percentage	2	%	10.0
	No. of Female Mar	nager	Persons	9
	Percent of Female	Manager	%	8.2
	Gender-based	Male (Avg. Wage)	VD14.4 :II:	85
	Salary and Wage	Female (Avg. Wage)	· KRW 1 million —	57
		No. of Disabled		5
		No. of Elderly (55 or		
	Employment	over; excl. executives)		22
Diversity of	of Socially	No. of Foreigner	Persons	0
Staff &	Disadvantaged	No. of High School	-	
Employees		Graduates		150
		No. of Veterans		4
		Percent of Disabled		1.0
		Percent of Elderly		4.2
	Employment	Percent of Foreigner		0
	of Socially	Percent of High School	· % —	
	Disadvantaged	Graduates		28.7
		Percent of Veterans		0.8
	Violation of Fair Tr		Cases	0
Fair Trade	Fine		KRW 1 million	0
	No. of Employees	Participating		
Anti-corruption	in the Ethics Pledg		Persons	500
Policy and	Percent of Persons			100
Procedure	Ethics Training	·	%	100
Anti-corruption	N. CA.	C. Ar. Leit. C.		
Violation Cases	No. of Anti-corrup	tion Violation Cases	Cases	
violation Cases				0
		ata Leaks, Thefts, Losses	Cases	0
Data Security			Cases	
Data Security	No. of Customer D	Data Leaks, Thefts, Losses Total	Cases — Persons	0
Data Security Violation Cases	No. of Customer D	Data Leaks, Thefts, Losses Total	. <u> </u>	0 7
Data Security Violation Cases Maternity	No. of Customer D No. of Persons Utilizing Maternity	Data Leaks, Thefts, Losses Total Male	. <u> </u>	0 7 7
Data Security	No. of Customer D No. of Persons Utilizing Maternity Leave	Total Male Female	. <u> </u>	0 7 7 0
Data Security Violation Cases Maternity	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees	Pata Leaks, Thefts, Losses Total Male Female Total	Persons	0 7 7 0 7
Data Security Violation Cases Maternity	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12	Total Male Female Total Male	Persons	0 7 7 0 7 7
Data Security Violation Cases Maternity	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More	Total Male Female Total Male Female Total Male Female Female	Persons	0 7 7 0 7 0 7
Data Security Violation Cases Maternity Leave	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons	Total Male Female Total Male Female Total Male Female Total Male Female Total	Persons Persons	0 7 7 0 7 7 7 0 4
Data Security Violation Cases Maternity Leave Child Care	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child	Total Male Female Total Male	Persons Persons	0 7 7 0 7 7 7 0 4
Data Security Violation Cases Maternity Leave Child Care	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees	Total Male Female Total Female Total Female Total Male Female	Persons Persons Persons	7 7 7 0 7 7 7 0 4 0 4
Data Security Violation Cases Maternity Leave Child Care	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave	Total Male Female Total Male Total	Persons Persons	7 7 7 0 7 7 7 0 4 0 4
Data Security Violation Cases Maternity Leave Child Care	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More	Total Male Female Female Total Female Total Male Female Total Male Female Female Total	Persons Persons Persons Persons	0 77 7 0 77 7 7 0 4 0 4 0 4
Data Security Violation Cases Maternity Leave Child Care Leave	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12	Total Male Female Total Male Female Total Male Female Total Male Formale Total Male Female Total	Persons Persons Persons Days	0 7 7 0 7 7 7 0 4 0 4 4 0 4 203.5
Data Security Violation Cases Maternity Leave Child Care Leave Human Rights	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of	Total Male Female Total Male Female Total Male Female Total Male Formale Total Male Female Total	Persons Persons Persons Persons	0 77 7 0 77 7 7 0 4 0 4 0 4
Data Security Violation Cases Maternity Leave Child Care Leave Human Rights Policy and	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Sexual Harassmen	Total Male Female Total Male Female Total Male Female Total Male Formale Total Male Female Total	Persons Persons Persons Days Total hours	0 7 7 0 7 7 7 0 4 0 4 4 0 4 203.5
Data Security Violation Cases Maternity Leave Child Care Leave Human Rights Policy and	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Sexual Harassmen Education Hours	Total Male Female Total Female Total Male Female Total Male Female Total Male Female Total Male Female Female Female Teave The ave	Persons Persons Persons Days Total hours Total hours	0 7 7 0 7 7 0 4 0 4 0 4 203.5
Data Security Violation Cases Maternity Leave Child Care Leave Human Rights Policy and Procedure	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Sexual Harassmen Education Hours Other Education Investment in Social (1)	Total Male Female Total Total Male Female	Persons Persons Persons Persons Total hours RRW 1 million	0 7 7 7 0 7 7 0 4 0 4 4 0 203.5
Data Security Violation Cases Maternity	No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Sexual Harassmen Education Hours	Total Male Female Total Contribution Durs	Persons Persons Persons Days Total hours Total hours	0 7 7 0 7 7 0 4 0 4 0 4 203.5

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GRI Content Index

General Disclosures (GRI 102: General Disclosures 2016)

GRI Standard	Disclosu	ıre	Page in report	Verification	ISO 26000	UN SDG
	102-1	Name of organization	4	•		
	102-2	Activities, major brands, products & services	6-15	•		
	102-3	Headquarters location	About this report	•		
	102-4	Workplace location	74	•		
	102-5	Organization ownership & legal form	4	•		
	102-6	Market area	6-15	•	6.3.10/	
Organizational	102-7	Organization size	4	•	6.4.1-6.4.2/	
Profile	102-8	Information on staff/employees and workers	56-65	•	6.4.3/6.4.4/	
2016	102-9	Organization supply chain	49	•	6.4.5/6.8.5/ 7.8	
	102-10	Significant changes to the organization and supply chain	No significant change	•		
	102-11	Prevention approaches & principles	22	•		
	102-12	External initiative	71	•		17 PARTNERSH
	102-13	Committee membership	75	•		8
Strategy 2016	102-14	Name of Top Decision Maker	2	•	4.7/6.2/7.4.2	
Ethics and integrity 2016	102-16	Organization's value, principle, standard and code of conduct	18-19	•	4.4/6.6.3	16 PEACE JUSTIN
	102-17	Ethics and integrity	18-19	•		
Governance 2016	102-18	Governance	20-21	•	6.2/7.4.3/7.7.5	-
	102-40	List of stakeholder groups	23	•		
	102-41	Percent of total employees of the collective agreement	100% of employees covered by collective agreements	•		8 DECENT WOR
	102-42	Stakeholders identification and selection	23	•	5.3	
	102-43	Stakeholder method of participation	23	•		Ш
	102-44	Key issues and interests proposed through stakeholder participation	23	•		
	102-45	Entity list included in the organization's consolidated financial statement	4, 4p of 2019 Hansol Holdings Business Report	•		
	102-46	Definition of topic boundaries and report details	About this report, 23	•		
Stakeholder	102-47	Material topics list	23	•	5.2/7.3.2/ 7.3.3/7.3.4	
engagement 2016	102-48	Amended information from previous reports	First publication of the report in 2020	•		
	102-49	Changes to the scope of subjects and material topics	First publication of the report in 2020	•		_
	102-50	Report period	About this report	•		
	102-51	Date on which the most recent report was published	First publication of the report in 2020	•		
	102-52	Report cycle	About this report	•		
	102-53	Contact regarding reports	About this report	•	7.5.3/7.6.2	
	102-54	Report method according to GRI Standards	About this report	•		
	102-55	GRI Content Index	66-70	•		
	102-56	External verification	72-73	•		

Topic-specific Disclosures

GRI Standard	Disclos	sure					Pag	ge in rep	oort V	erificatio	n ISO	26000	UN SE	DGs
Topic 1: Creating a Saf	e Work	olace												
	103-1	Explanation	of the n	naterial to	pic and	its Bound	ary						3 GOOD H	HEALTH
GRI 103: Management	103-2	The manage	ement ap	oproach a	nd its co	omponent	s 30			•			3 AND WE	٨
Approach 2016	103-3	Evaluation o	f the ma	anagemer	nt appro	ach							8 DECENT	T WORK AND MIC GROWTH
	403-2	Types of injudiseases, los	t days, a	nd absen			per 56	-65		•	6.4	.6/6.8.8	1	1
									2019					
GRI 403: Occupational		Category	Unit	Holdings	Paper	Papertech -	PNS Paper	IT Ho	omeDeco l	ogistics Te	chnics	EME Ir	nticube Ch	hemica
Health and Safety 2016	No. of In	dustrial Accidents	Cases	0	1	3	0	0	3	1	1	3	0	(
-		l Accident Rate	%	0	0.1	1.5	0	0	1.2	0.3	0.2	0.3	0	(
	No. of De	eaths	Persons	0	0		0	0	0	0	0	1	0	(
	No. of In	juries	Persons	0	1	3	0	0	3	1	1	4	0	(
	Working	-Hour Loss	Hours	0	600	279	0	0	1,369	240	0	4,488	0	(
Topic 2: Investing in No	ew Tech	nology and I	R&D											
	103-1	Explanation	of the n	naterial to	pic and	its Bound	ary							
GRI 103: Management Approach 2016	103-2	The manage	ement ap	oproach a	nd its co	omponent	s 26			•			9 NOUSTRY	Y, INNOVATION Rastructure
Арргоаст 2016	103-3	Evaluation o	f the ma	anagemer	nt appro	ach								
	-	R&D investm	nent and	d manpov	ver			, 60, 62, , 64, 65		•				
_		Category	U	Init –	Pape	Но	meDeco	Techn	2019 ics) EME		Inticube	Chem	nical
	R&D Inve	estment	KRW 1	million		4,405	84		17,549	1	01	1,562		10,76
	R&D Exp	ense/Sales	%			0.27	0.03		2.97	0.	 05	2.65		2.68
		esearchers	Persons			33	0		134		2	12	-	134
Topic 3: Strengthening														
GRI 103: Management		Explanation The manage						-19		•			16 PEACE.	JUSTICE AND G INSTITUTIONS
Approach 2016	103-3	Evaluation o	f the ma	anagemer	nt appro	ach							2	
	419-1	Non-complia			d regula	ations in th	ne 56	-65		•		/6.7.1- .2/6.7.6	_	
									2019					
GRI 419:		Category	Unit	Holdings	Paper	Papertech -	PNS Paper			ogistics Te	chnics	EME Ir	nticube Ch	hemica
		of Fair Trade	Cases	0	0	0	0	0	0	0	0	0	0	(
	Violation	i vi i ail llaut	Cases											
Socioeconomic Compliance 2016		nti-corruption	Cases (Persons)	0	0	0	0	0	0	0	0	0	0	(

INTRODUCTION SUSTAINABILITY FUNDAMENTALS SUSTAINABILITY ISSUES APPENDIX 68 HANSOL GROUP SUSTAINABILITY REPORT 2020

GRI Standard	Disclos	sure					F	Page in	report	Verificat	ion ISC	26000	UN	SDGs
Topic 4: Respecting H	luman Rig	ghts and Dive	rsity of	Employe	ees									
	103-1	Explanation of	of the m	aterial to	pic and	its Bound	lary						5	GENDER Equality
GRI 103: Management Approach 2016	103-2	The manager	ment ap	proach a	nd its co	mponen	ts 4	42		•				₫"
Approach 2010	103-3	Evaluation of	the ma	nagemer	nt appro	ach							10	REDUCED INEQUALITIES
	405-2	Ratio of basic s	salary an	d remune	ration of	women to	o men	56-65		•		.7/6.3.1 .3/6.4.4		(=)
GRI 405:									2019					
Diversity and Equal	(Category	Unit	Holdings	Paper	Papertech	PN	NS	∐omoDoco	Logistics	Tochnics	EME	Inticubo	Chemical
Opportunity 2016				Tioluligs	тарет	гарепеси	Paper	IT	Homebeco	Logistics	recinics	LIVIL	inticube	Chemical
	Male Ave	erage Wage	KRW 1	128	73	57	59	61	57	57	56	54	48	85
	Female A	verage Wage	million	73	48	44	37	44	46	40	43	38	39	57
Topic 5: Developing	Employee	Competency												
GRI 103:	103-1	Explanation o	of the m	aterial to	pic and	its Bound	lary							
Management Approach 2016	103-2	The manager	ment ap	proach a	nd its co	mponen	ts 4	42		•			4	QUALITY EDUCATION
• •	103-3	Evaluation of	the ma	nagemer	it appro	ach								
	404-1	Average hour	rs of trai	ning per	year pe	r employ	ee 5	56-65		•	6.4	.7		
									2019					
GRI404: Training and	(Category	Unit	Holdings	Paper	Papertech	Paper	NS IT	- HomeDeco	Logistics	Technics	EME	Inticube	Chemical
Education 2016	Total Buc	lget	KRW 1 million	301	1,900	174	70	102	250	290	280	155	240	740
	No. of Be	neficiaries	Persons	41	1,147	120	83	130	259	340	703	506	193	500
	Training (Cost per Employee	KRW 1 Thousand	3,087	1,656	1,417	843	787	965	852	465	308	1,244	1,480
	Avg. Trainin	ig Hour per Employee	Hours	19	70	78	40	88	3 41	78	43	60	69	16
Topic 6: Discovering	Training C Avg. Trainin	Cost per Employee g Hour per Employee	KRW 1 Thousand Hours	3,087	1,656	78	843	787	965	852	465	308	1,	244
SRI 103:	103-1	Explanation of	of the m	aterial to	pic and	its Bound	lary							
Management Approach 2016	103-2	The manager	ment ap	proach a	nd its co	mponen	ts 2	26		•			8	ECENT WORK AND CONOMIC GROWTH
	103-3	Evaluation of	the ma	nagemer	nt appro	ach								
		Startup invest					_	27		_				

GRI Standard	Disclos	sure						Page in	report	Verifica	tion IS	O 26000	UN	SDGs
Topic 7: Contributing	to Local	Community t	hrough	n Contin	uous Sc	ocial Activ	ities							
	103-1	Explanation of	of the m	naterial to	pic and	its Bounda	ary						1 /h	NO POVERTY ********
GRI 103: Management Approach 2016	103-2	The manager	nent ap	proach a	ınd its co	omponent	S	48		•			4	QUALITY EDUCATION
	103-3	Evaluation of	the ma	anagemer	nt appro	oach							6	CLEAN WATER AND SANITATION
	413-1	Operations w impact assess						56-65		•		.3.9/6.5.1 .5.3/6.8	- 17	PARTINERSHIPS FOR THE GOALS
									2019					
GRI 413: Local Communities 2016		Category	Unit	Holdings	Paper	Papertech –	Paper	PNS IT	- HomeDecc	Logistics	Technics	s EME	Inticube	Chemical
	Investme Contribu (Incl. Dor		KRW 1 million	65	458	19	4	6 19) 27	7 70	2:	3 12	24	65
		ge of workplaces in community	%	100	100	100	5	0 100) 100) 0	6	7 100	100	100
Topic 8: Improving Pr	oduct Re	sponsibility a	nd Cust	tomer Sa	ntisfacti	on								
GRI 103:	103-1	Explanation of	of the m	naterial to	pic and	its Bounda	ary							
Management Approach 2016	103-2	The manager	ment ap	proach a	ınd its co	omponent	S	26		•				
	103-3	Evaluation of	the ma	anagemei	nt appro	ach								
-	-	Customer sat	isfactio	n monito	ring			29		•				
Topic 9: Managing Sa	fe Dispos	sal of Waste·\	Nastev	vater · Ch	emical	s								
	103-1	Explanation of	of the m	naterial to	pic and	its Bounda	ary							
GRI 103: Management Approach 2016	103-2	The manager	nent ap	proach a	ınd its co	omponent	S	34		•			12	RESPONSIBLE CONSUMPTION AND PRODUCTION
Арргоаст 2010	103-3	Evaluation of	the ma	anagemer	nt appro	ach							(30
	306-2	Waste by typ	e and d	lisposal m	nethod			57, 59,	62, 65	0	6	.5.3		
		Category	,		Unit -		_			2019				
671.705					Jiiit	Paper		PNS(Pape		HomeDeco		Technics		emical
GRI 306: Effluents and		ste Generated (Dis	sposed, K	orea)	_	231,			1,004	141,5		1,45		5,782
Waste 2016		eration			_	161,				17,1		2		1,102
	Landf Recyc			I	on _	177,	734 _		0 1,004	1,5	540 	49 62		4,322
	Other				-	1//,			0	122,0	0	30		182
		ecycled Rate			/ ₆				100		87	4		75
		,					<u> </u>							

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GRI Standard	Disclos	sure			Page in	report Verific	ation ISO 26000	UN SDGs		
Topic 10: Managing	g Sustainab	le Supply Chain								
CDI 102-	103-1	Explanation of th	ne material	topic and its Bour	ndary					
GRI 103: Management Approach 2016	103-2	The managemer	nt approach	n and its compone	nts 48	•	•			
Approach 2010	103-3	Evaluation of the	e managen	nent approach						
-	-	Hansol Paper ma partner compan	5 5	vironmental issues	of 49	•	,			
Topic 11: Reducing	GHG Emiss	ions and Energy	Use in Re	sponse to Climat	e Change					
GB1 4 6 2	103-1	Explanation of th	ne material	topic and its Bour	ndary					
GRI 103: Management Approach 2016	103-2	The managemer	nt approach	n and its compone	nts 34	•	•	40 CINATE		
Approach 2010	103-3	Evaluation of the	e managen	nent approach				13 ACTION		
	305-1	1 Direct (Scope 1) GHG em		emissions		60,	6.5.4/6.5.5			
GRI 305:	305-2	Energy indirect	(Scope 2) (ppe 2) GHG emissions		•		,		
Emissions 2016		Category	Unit			2019				
				Paper	PNS(Paper)	HomeDeco	Technics	Chemical		
	Direct En	nission (Scope 1)	- tCO₂eq	358,293	152	14,28	1 293	71,0		
	Indirect E	Emission (Scope 2)	ico₂eq	594,176	192	49,47	1 13,350	62,5		
Topic 12: Strengthe	ning Comn	nunication and C	Collaborat	ion with Partner	Companies					
CDI 103:	103-1	Explanation of th	ne material	topic and its Bour	ndary					
GRI 103: Management Approach 2016	103-2	The managemer	nt approach	n and its compone	nts 48	•	,			
	103-3	Evaluation of the	e managen	nent approach						
	-	Supporting partr	ner compai	nies	57, 58, 61, 64	60, ©)	_		
						2019				
-		Category	Un	it Paper	Panertech	HomeDocc	Logistics	Inticuhe		
-	Total No	Category . of Partners	Un Numbers	it Paper	Papertech 44	HomeDecc 3	Logistics 5 79	Inticube 8 23		

Sustainable Development Goals, SDGs

UN SDGs

1 POPERTY	End poverty in all its forms everywhere	Hansol Paper Firefly Volunteer Group	50
3 STOOD MEALTH AND MELL-SERVICE AND MELL	Ensure healthy lives and promote well-being for all people at all ages	Hansol Group EAP (Employee Assistance Program) Staff Health Management Hansol EME Staff health promotion activities Hansol Technics Jincheon Health Care Volunteer Activities	46-47, 51
4 quality Education	Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	Hansol Group HR system transformation Hansol Group Building HMS CORE development system Hansol Group Learning cloud, Visual learning system Hansol Paper Education projects for children in developing countries	43, 53
5 CENTER EQUALITY	Achieve gender equality and empower all women and girls	Hansol Paper Fourth Asian Women Index Award -Work & Life Balance Sector	47
OLEAN MATER AND SANTIATION	Ensure availability and sustainable management of water and sanitation for all	Hansol Paper Wastewater treatment improvement Hansol Chemical Water campaign	37, 53
7 AFFORMATIE AND CLEAN ENERGY	Ensure access to affordable, reliable, sustainable, and modern energy for all	Hansol HomeDeco Eco-friendly new renewable energy projects	38
B DECORPT MODEL AND ECONOMIC CRO IN	Promote sustainable economic growth, full and productive employment and decent work for all	Hansol Group HR system transformation Hansol Holdings Measures for improved respect of employees Hansol HomeDeco, Hansol Inticube Creating communicative organizational culture Hansol Group Selective work hours, flexible work hours	43-46
MELESTRY IMMUNETARE AND INSTRUCTIVES	Build resilient infrastructure, promote sustainable industrialization	Hansol Inticube Al communication (ISAC)	28
1 SUSTAINABLE CITIES AND CONNUMITIES	Make cities and human settlements inclusive, safe, resilient and sustainable	Hansol PNS, Hansol Inticube Wallpaper volunteer activities, Habitat for Humanity	52
2 ESPENDINE CONCERNING AND PRODUCTIVE	Ensure sustainable consumption and production patterns	Hansol Paper Environmental Management Control System Hansol Chemical Reduction of Waste · Wastewater Generation Hansol Chemical Installing LNG hydrogen reforming facility Hansol Paper Protego® Hansol HomeDeco Eco-friendly flooring Hansol HomeDeco Using Recycled Material, MDF	37, 39, 40-41
CL PATE ACTION	Take urgent action to combat climate change and its impacts	Hansol Holdings, Hansol Papertech, Hansol PNS Introducing eco-friendly management systems Hansol Paper Create organizations in response to climate change Hansol Paper Managing environment with partner	35, 37, 49
D UPE ON LAND	Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt biodiversity loss	Hansol PNS Eco-Friendly Management Through Compliance with FSC · CoC Hansol Homedeco Overseas Afforestation Projects	38
D PEACE AUSTICS AND STREET, DESCRIPTIONS	Promote peaceful and inclusive societies for sustainable development, and build effective, accountable and inclusive institutions at all levels	Hansol Group Ethics · Law-Abiding Management Hansol Technics Partner invitation meetings	18-19, 49
7 PASTNEESHIPS FOR THE GOALS	Strengthen the means of implementation and revitalize the global partnership between business, congress and countries for sustainable development	Hansol Paper System for Partnered Growth Hansol Paper Environmental Management of Partners	49

Related Activities

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INTRODUCTION SUSTAINABILITY FUNDAMENTALS SUSTAINABILITY ISSUES APPENDIX 72 HANSOL GROUP SUSTAINABILITY REPORT 2020

Third Party Verification Statement

LR Independent Assurance Statement

Relating to Hansol Holdings Co., Ltd.'s Sustainability Report for the 2019 calendar year



This Assurance Statement has been prepared for Hansol Holdings Co., Ltd. in accordance with our contract but is intended for the readers of this Report.

Terms of engagement

Lloyd's Register Quality Assurance Limited (LR) was commissioned by Hansol Holdings Co., Ltd. to provide independent assurance on its 'Hansol Group Sustainability Report 2020' ("the report") against the assurance criteria below to a "moderate level of materiality" using "accountability's AA1000AS (2008)" where the scope was a Type 2 engagement.

Our assurance engagement covered Hansol Holdings Co., Ltd and its 9 subsidiary companies (Hansol Paper Co., Ltd., Hansol Papertech Co., Ltd., Hansol PNS Co., Ltd., Hansol HomeDeco Co., Ltd., Hansol Logistics Co., Ltd., Hansol Technics Co., Ltd., Hansol EME Co., Ltd., Hansol Inticube Co., Ltd., Hansol Chemical Co., Ltd.; and hereafter Hansol Holdings)' operations and activities in Korea and specifically the following requirements:

• Evaluating adherence to AA1000¹⁾ AccountAbility Principles of Inclusivity, Materiality and Responsiveness

- · Confirming that the Report is in accordance with:
- GRI Standards : Core option²
- Evaluating the accuracy and reliability of data and information for only the selected indicators listed below:
- GRI 300 (Environmental): GRI 305-1, GRI 305-2, GRI 306-2
- GRI 400 (Social): GRI 403-2, GRI 404-1, GRI 405-2, GRI 413-1, GRI 419-1

Our assurance engagement excluded the data and information of Hansol Holdings' suppliers, contractors and any third-parties mentioned in the report.

LR's responsibility is only to Hansol Holdings. LR disclaims any liability or responsibility to others as explained in the end footnote. Hansol Holdings' responsibility is for collecting, aggregating, analysing and presenting all the data and information within the report and for maintaining effective internal controls over the systems from which the report is derived. Ultimately, the report has been approved by, and remains the responsibility of Hansol Holdings.

LR's Opinion

1) www.accountability.org

2) www.globalreporting.org

Based on LR's approach nothing has come to our attention that would cause us to believe that Hansol Holdings has not, in all material respects:

- · Met the requirements above
- Disclosed accurate and reliable performance data and information as all errors or omissions identified during the assurance engagement were corrected
- Covered all the issues that are important to the stakeholders and readers of this report.

The opinion expressed is formed on the basis of a moderate level of assurance and at the materiality of the professional judgement of the verifier.

Note: The extent of evidence-gathering for a moderate assurance engagement is less than for a high assurance engagement. Moderate assurance engagements focus on aggregated data rather than physically checking source data at sites. Consequently, the level of assurance obtained in a moderate assurance engagement is substantially lower than the assurance that would have been obtained had a high assurance engagement been performed.

LR's approach

LR's assurance engagements are carried out in accordance with our verification procedure. The following tasks though were undertaken as part of the evidence gathering process for this assurance engagement:

• Assessing Hansol Holdings' approach to stakeholder engagement to confirm that issues raised by stakeholders were captured correctly. We did this through reviewing documents and associated records.

- Reviewing Hansol Holdings' process for identifying and determining material issues to confirm that the right issues were included in their Report. We did this by benchmarking reports written by Hansol Holdings and its peers to ensure that sector specific issues were included for comparability. We also tested the filters used in determining material issues to evaluate whether Hansol Holdings makes informed business decisions that may create opportunities that contribute towards sustainable development.
- Auditing Hansol Holdings' data management systems to confirm that there were no significant errors, omissions or mis-statements in the report. We did this by reviewing the effectiveness of data handling procedures, instructions and systems, including those for internal verification. We also spoke with those key people responsible for compiling the data and drafting the report.
- Reviewing supporting evidence made available by their Communication team at 100 Euljiro, Jung-gu, Seoul in Republic of Korea
- Checking that the GRI Content Index allows stakeholders to access sustainability indicators.

Observations

Further observations and findings, made during the assurance engagement, are:

· Stakeholder inclusivity	We are not aware of any key stakeholder groups that have been excluded from Hansol Holdings' stakeholder engagement process.
• Materiality	We are not aware of any material issues concerning Hansol Holdings' sustainability performance that have been excluded from the report. It should be noted that Hansol Holdings has established extensive criteria for determining which issue/aspect is material and that these criteria are not biased to the company's management.
Responsiveness	Hansol Holdings reported not only the interested issues from its stakeholders but also the core indicators related to UN Sustainable Development Goals. Hansol Holdings also has the response system to correspond with queries of its stakeholders.
- Reliability	Hansol Holdings has reliable data management systems. However, some of the subsidiary companies' data was omitted in the GRI Index 305-1,305-2 and 306-2 in this first sustainability report. This is considered to be enhanced for the next issues.

LR's standards, competence and independence

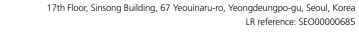
LR implements and maintains a comprehensive management system that meets accreditation requirements for ISO 14065 Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition and ISO/IEC 17021 Conformity assessment – Requirements for bodies providing audit and certification of management systems that are at least as demanding as the requirements of the International Standard on Quality Control 1 and comply with the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants.

LR ensures the selection of appropriately qualified individuals based on their qualifications, training and experience. The outcome of all verification and certification assessments is then internally reviewed by senior management to ensure that the approach applied is rigorous and transparent.

This verification engagement is the only work undertaken by LR for Hansol Holdings and as such does not compromise our independence or impartiality.

9th July 2020

Hee-Jeong Yim LR Lead Verifier
On behalf of Lloyd's Register Quality Assurance Limited



AA1000 Licensed Assurance Provider

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INTRODUCTION SUSTAINABILITY FUNDAMENTALS SUSTAINABILITY ISSUES APPENDIX 74 HANSOL GROUP SUSTAINABILITY REPORT 2020

Domestic Business Networks

Hansol Holdings	Head Office	25F, Unit B, Pine Avenue Bldg.,100, Eulji-ro (Euljiro 2-ga), Jung-gu, Seoul
	Head Office	23-24F, Unit B, Pine Avenue Bldg.,100, Eulji-ro (Euljiro 2-ga), Jung-gu, Seoul
	Janghang Plant	149, Jangsan-ro, Janghang-eup, Seocheon-gun, Chungcheongnam-do
Hansol Paper	Daejeon Plant	50, Sinilseo-ro 68beon-gil, Daedeok-gu, Daejeon
	Cheonan Plant	4186, Sejong-ro, Gwangdeokmyeon, Dongnam-gu, Cheonan-si, Chungcheongnam-d
	Sintanjin Plant	60, Sinilseo-ro 126beon-gil, Daedeok-gu, Daejeon
Hansol Papertech	Head Office	80, Daechi 7-gil, Daejeon-myeon, Damyang-gun, Jeollanam-do
	Head Office (Paper Distribution)	5F, Ilheung Bldg., 213, T Bldg. 213, Toegye-ro, Jung-gu, Seoul
Hansol PNS	Head office (IT Service)	13-14F, Nuritkum Square Business Tower, 396, World Cup buk-ro, Mapo-gu, Seoul
	Paju Integration Center	108, Jikji-gil, Paju-si, Gyeonggi-do
Hansol HomeDeco	Head Office	27F, Specialty Construction Center, ShinDaeBang-dong, 15, Boramae-ro 5-gil, Dongjak-gu, Seoul
	Honam Office (Iksan Plant)	54, Seokam-ro 17-gil, Iksan-si, Jeollabuk-do
	Head Office	5F, Unit B, Pine Avenue Bldg., 100 Eulji-ro, Jung-gu, Seoul
	Dukpyung Center	626, Deokpyeong-ro, Maejang-myeon, Icheon-si, Gyeonggi-do
	Shin Kunsan Depot	197, Naeheung 2-gil, Gunsan-si, Jeollabuk-do
	Gunsan Branch	194, Seohae-ro (Soryong-dong), Gunsan, Jeollabuk-do Gunsan Port No. 5 Wharf
	Damyang Center	80, Daechi 7-gil, Daejeon-myeon, Damyang-gun, Jeollanam-do Within Hansol Paperteo
	Daejeon Center	50, Sinilseo-ro 68beon-gil, Daedeok-gu, Daejeon
	Busan Center	11F, Jung-ang Building, 89, Haegwan-ro, Jung-gu, Busan
	Busan New Port Center	2F, Bogo-CSN, 22, Sinhang 3-ro (Yongwon-dong), Jinhae-gu, Changwon-si, Gyeongsangnam-do
tancol Logistics	Samsung C&T Corporation Fashion Business Team	M1-F, Kendall Square Bucheon Logistics Park, 30 Sinheung-ro 511beongil, Bucheon-si, Gyeonggi-do
	Metropolitan Area Business Team	M2-F, Kendall Square Bucheon Logistics Park, 80, Sinheung-ro 511beon-gil, Bucheon-si, Gyeonggi-do
	Sintanjin CY Center	CY Sintanjin, 24-3, Pyeongchon-dong, Daedeok-gu, Daejeon
	Sintanjin Center	60, Sinilseo-ro 126beon-gil, Daedeok-gu, Daejeon
	Oppo Center	34-16, Jangji 9-gil, Gwangju-si, Gyeonggi-do
	Suwon Center	M2F, 55, Omokcheon-ro 132beon-gil (Gosaek-dong), Gwonseon-gu, Suwon-si, Gyeonggi-d
	Iksan Center	54, Seokam-ro 17-gil, Iksan-si, Jeollabuk-do
	Janghang Center	149, Jangsan-ro, Janghang-eup, Seocheon-gun, Chungcheongnam-do
	Cheonan Center	4186, Sejong-ro, Gwangdeok-myeon, Dongnam-gu, Chungcheongnam-do
	Head Office	5F, Unit B, Pine Avenue Bldg., 100 Eulji-ro, Jung-gu, Seoul
Hansol Technics	Jincheon Plant	55, Hansam-ro, Deoksan-eup, Jincheon-gun, Chungcheongbuk-do
Tiansor recrimes	Ochang Plant	140, Gwahaksaneop 1-ro, Oksan-myeon, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do
	Head Office	3-4F, Ubiquoss building, 68, Pangyo-ro 255beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do
Hansol EME	Cheonan Project Team	4186, Sejong-ro, Gwangdeok-myeon, Dongnam-gu, Cheonan-si, Chungcheongnam-do
	Daejeon Project Team	50, Sinilseo-ro 68beon-gil, Daedeok-gu, Daejeon
	Janghang Project Team	149, Jangsan-ro, Janghang-eup, Seocheon-gun, Chungcheongnam-do
Hansol Inticube	Head Office	13-14F, Nuritkum Square Business Tower, 396, World Cup buk-ro, Mapo-gu, Seoul
	Head Office	7-8F, K Tower, 513, Teheran-ro (158-23, Samseong-dong), Gangnam-gu, Seoul
Hansol Chemical	Jeonju Plant	873, Gwahak-ro, Bongdong-eup, Wanju-gun, Jeollabuk-do
	Ulsan Plant	116, Napdo-ro, Nam-gu, Ulsan-si

Membership

Hansol Holdings

Korea IR Service

Korea Enterprises Federation

Hansol Paper

Korea Chemicals Management Association

Korea Industrial Technology Association

Korean Industrial Health Association

Korea Listed Companies Association

Korea Management Association

Korea Enterprises Federation

Korea Technical Association of The Pulp and Paper Industry

Daejeon Chungnam Environmental Preservation Association

Construction Association of Korea

Fair Competition Federation

Korea Business Council for Sustainable Development

Korea Society of Packaging Science & Technology

Korea Exchange

Korea IR Service

& Industry

Korean Standards Association

Korean Society of Toxicology

Korea Package Design Association

Korea Corrugated Packaging Case

Industry Association
The Korea chamber of Commerce

Korea Paper Manufacturers' Association

the Federation of Korean Industries

Korea Environmental Industry & Technology Institute

Korea Eco Green Product Association

Korea Technical Association of The Pulp and Paper Industry

Japan Technical Association of the Pulp and Paper Industry

Hansol Papertech

Korea Paper Association

Korea Fire Safety Institute

Korea International Trade Association

Hansol PNS

Korea International Trade Association

Korea Information & Communication

Contractors Association

Korea Listed Companies Association

The Korea chamber of Commerce & Industry

Hansol HomeDeco

Korea Industrial Safety Association

Korean Industrial Health Association

Korea Fire Safety Institute

Korean Standards Association

Korea Industrial Safety Association

Korea Specialty Contractors Association

Korea Wood Panel Association

Jeonbuk Environmental Preservation Association

Korea Waste Recycling Association

Korea Exchange

Korea Electric Engineers Association

Hansol Logistics

KoreaTrucking Association

Korea Freight Forwarders Association

Korea Railroad Logistics Association

Korea Customs Logistics Association

Korea International Freight Forwarders

Korea International Trade Association

International Air Transport Association

Korea Pier Logistics Association

Korea AEO Association

The Korea chamber of Commerce

& Industry

Korea Listed Companies Association

Hansol Technics

Korea Environmental Preservation Association

Korea Industrial Safety Association

Korean Industrial Health Association

Korea Fire Safety Institute

Korean Nurses Association

Korea Photovoltaic Industry Association

Chungbuk New&Renewable energy Industry Association

Hansol EME

Construction Association of Korea

International Construction Association of

Korea Construction Engineers Association

Korea Engineering & Consulting Association

Korea Electrical Contractors Association

Korea Fire Facility Association

Korea Electric Engineers Association

Korea Fire Safety Institute

Korea Specialty Contractors Association

Korea Water and Wastewater Works

Seongnam Chamber of Commerce and Industry

Hansol Inticube

Korea Information & Communication Contractors Association

2011tractors Association

Korea Software Financial Cooperative

Korea International Trade Association

KOSDAQ Listed Companies Association

Korea Artificial Intelligence Association

Korea Chamber of Commerce and

Industry

Hansol Chemical

Korea Chamber of Commerce and Industry

Korea International Trade Association

Semiconductor Equipment and Materials International

Korea Industrial Safety Association

Korea Fire Safety Institute

Ulsan Environment Association

Korea Energy Engineers Association

Jeonbuk Environmental Engineers Association

Wanju Environmental Engineers Association



HANSOL GROUP SUSTAINABILITY REPORT 2020

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