# HANSOL GROUP SUSTAINABILITY REPORT 2020

Hansol

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**ORT 2020** 

Hansol



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# **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



# About Hansol Group

 

 Group Outline (As of the end of 2019)
 Date of Incorporation January 1965
 Website www.hansol.com

 Group Assets\* (\$)
 Group Assets\* KRW 4,044,956 Million
 Group Sales\* KRW 3,972,736 Million
 No. of the Group's Staff & Employees\* 4,322 employees

# **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	<ul> <li>Established Saehan Paper Industry Co., Ltd.</li> <li>Samsung Group acquires Saehan Paper Industry Co., Ltd.</li> </ul>
1968	Corporation renamed to Jeonju Paper Co., Ltd.
1981	<ul> <li>First in Korea to achieve 1 million tons in paper production</li> </ul>
1982	Marked 10,000ha in plantation area, an industry first
1987	Korea's first thermal paper developed
2000	<ul> <li>Hansol Logistics launches global logistics platform business</li> <li>Hansol Paper announces new vision to become</li> </ul>
	the best paper manufacturer in Asia
2001	<ul> <li>Established Hansol EME</li> <li>Hansol Logistics develops world's first intelligent delivery system</li> </ul>
2002	Hansol Group launches new system under chairman Dong-Kil Cho
2004	<ul> <li>Hansol Paper, awarded the Export Tower Award for 400 Million USD on the 41st Trade Day</li> </ul>
2005	40th Anniversary & Vision Declaration Ceremony
2006	Hansol Paper, awarded Grand Prize in Consumer Trust
	• 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	<ul> <li>Hansol Paper, obtains international forest certification (FSC)</li> </ul>
	<ul> <li>Hansol Paper, becomes the exclusive supplier of express shipping envelopes for the U.S. Postal Service</li> </ul>

- 2008 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 which made Hansol the company it is today.

05

1972	• First in Samsung Group to be listed on the Korea Stock Exchange
1979	• Established the first Paper Research Institute in the industry
1991	<ul> <li>Separation from Samsung Group; declaring an independent management system</li> <li>Established Hansol HomeDeco</li> </ul>
1992	<ul> <li>Established Hansol Chemical</li> <li>Completion ceremony of Hansol Paper, Janghang Factory</li> </ul>
1995	<ul> <li>Established Hansol Culture Foundation</li> <li>Completion of white duplex board machine no. 31 in Daejeon for Hansol Paper</li> <li>Completion of Hansol HomeDeco, Iksan Factory</li> <li>Established Hansol Technics, Hansol PNS</li> </ul>
1996	<ul> <li>Completion of Hansol Technics, Jincheon Factory</li> <li>Hansol HomeDeco, launching afforestation business in New Zealand</li> </ul>
1999	Hansol HomeDeco, launching ceremony of Chammaru flooring
2011	Acquisition of Hansol Papertech
2012	<ul> <li>Established Hansol Chemical, Chinese Corporation (Hansol Electronics Materials(Xi'an))</li> </ul>
2013	<ul> <li>Opens Museum San</li> <li>Hansol HomeDeco, launching cogeneration system</li> </ul>
2014	<ul> <li>Hansol Chemical, world's first in QD mass production</li> </ul>
2015	<ul> <li>Hansol Group changes to a holdings company &amp; launches Hansol Holdings Announces Hansol Management System HMS</li> <li>Hansol Technics, launches mobile phone manufacturing service (EMS)</li> </ul>
2016	Hansol Chemical acquires Tapex
2019	<ul> <li>Hansol HomeDeco, established Vietnam corporation</li> <li>Hansol Technics, launching LCM business</li> </ul>

1960

1970

1980

1990

2000

2010

2020

# 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

HANSOL HOLDINGS

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

Sales	(Unit: KRW 1 million)
2017	27,406
2018	25,283
2019	26,352

\*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

Est. Date	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

Sales	(Unit: KRW 1 million)
2017	1,601,421
2018	1,976,605
2019	1,912,588

\*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 hightech 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
	Damvang-gun Jeollanam-do

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

Sales	(Unit: KRW 1 million
2017	118,234
2018	102,781
2019	99,509

\*Hansol Papertech Separate Statement





# HANSOL PNS

# Company Status

Est. Date	February 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

Sales	(Unit: KRW 1 million)
2017	223,778
2018	248,351
2019	233,892

\*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-gil,
	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

Sales	(Unit: KRW 1 million)
2017	254,330
2018	296,885
2019	263.886

\*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 eco-friendly 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.





# 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.

1 trillion in sales, 20 billion in ordinary profit, 3 times the company value

# **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.



# 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

Sales	(Unit: KRW 1 million)
2017	935,255
2018	841,899
2019	972,243

\*Hansol Technics Consolidated Statement





PMD Business TV and home appliance power module and mobile phone wireless charging module



ES Business Renewable energy photovoltaic module and wafer processing



Smartphone circuit board and SET assembly

Mobile Phone Business



New Business Development Electrical and electronic parts area



# HANSOL EME

# Company Status

August 2001
507 employees
www.hansoleme.com
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.

Water & Wastewater	Paper Plant	WTE	Industrial Equipment
Environment	Paper Plant	Environment	Power Plant
Plant	O&M	O&M	

# HANSOL INTICUBE

# Company Status

Est. Date	December 2003
No. of Employees	221 employees
Website	www.hansolinticube.com
Headquarters	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, AI communication, communication cloud, mobile solutions

Sales	(Unit: KRW 1 million)
2017	46,302
2018	63,736
2019	58,966

\*Hansol Inticube Separate Statement

Hansol Inticube is leading the industry by providing total services from
building and maintaining contact centers to operation $\cdot\text{diagnosis}\cdot\text{consult}$
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.



# Digital Contact Center Optimized contact center system buildup consulting and

	AI	C
0		

# Communication Virtual consultation applied big data and AI technology based flatform



Cloud based contact center for unified operation and management of various customer's communication channels

# **Mobile Solution**

Provide intellectualized mobile smart network equipment



# 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.



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Hydorgen peroxide, latex, papermaking chemicals, high molecule coagulants, sodium hydrosulfite, BPO

(A)

**Electronic Materials** Electronic materials, thin-film materials, secondary cell materials

# SUSTAINABILITY FUNDAMENTALS

# 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.

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# 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**



Practice & Establishment

# Building Intrastructure

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

<ul> <li>Strengthen supervision on ethical management practices</li> <li>Establish practical guidelines for each type and prepare a booklet of cases</li> <li>Build systematic infrastructure for practicing ethical management</li> <li>Operate hotlines and communication channels for constant communication with partners on ethical management</li> <li>Establish plan for community service activities</li> </ul>	
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	5 1
ethical management • Operate hotlines and communication channels for constant communication with partners on ethical management	1 5 11
channels for constant communication with partners on ethical management	, , , , , , , , , , , , , , , , , , , ,
· Establish plan for community service activities	channels for constant communication with
	• Establish plan for community service activities

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

Stabilization

# **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	<ul> <li>To respect all reasonable requests a</li> <li>To provide fair and equal treatment</li> <li>To establish mutual trust by faithfut</li> <li>To increase corporate value and shifts strategies.</li> </ul>
	Commitment to Our Customers	To provide the best products and s     To provide accurate information or     To protect the benefits, safety and
	Commitment to Our Competitors & Partners	To promote competition in good f laws.     To pursue mutual development by
é 8 2	Commitment to Our Staff & Employees	<ul> <li>To create space for self-realization opportunities for improvement of</li> <li>To not discriminate against anyone</li> <li>To promote a healthy and develop</li> </ul>
J.	Commitment to the society	<ul> <li>To comply with all regulations as a laws and regulations.</li> <li>To contribute to the national econ creation of jobs, faithful payment of To strive to protect nature and creation.</li> </ul>

# 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

sts and proposals and protect the rights of our shareholders and investors. nent to all shareholders including minority shareholders. thfully disclosing accurate management information in a timely matter. d shareholder profit through sustained business innovation and growth

nd services with customer value as the top priority in management. In on products and services and strictly comply with commitments. and personal information of our customers and never act unfairly.

d faith with competitors and comply with the fair-trade order and related

t by pursuing mutual trust and partnership through fair trade with partners.

on by respecting autonomy and creativity and always providing fair of abilities.

one on the basis of education, origin, gender, age, religion, or disability. lopmental corporate culture based on mutual trust and understanding.

as a citizen and member of society, and to comply with all international

conomy and social development though improvement of productivity, ent of taxes and social contribution.

create a clean environment.





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	B	B+	А
Hansol Paper	B+	A	А
Hansol PNS	B	C	B+
Hansol Technics	B+	B	А
Hansol HomeDeco	В	B+	А
Hansol Logistics	В	В	А
Hansol Inticube	-	C	В
Hansol Chemical	B+	B+	С

<sup>\*</sup> 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.

# 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 disgualification 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

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
	Four executive, thr
Audit Committ	ee
Three non-executive of	directors

# Board of Directors Operation

	Unit	2017	2018	2019	Category	Name	Task	Appointment Date	
No. of Board Meetings	Times	5	10	9		Jae-Hee Lee	Chief Executive	2015.01.02	
Voted Matters	Cases	10	21	26			Jae-Hee Lee	Officer & Director	2013.01.02
Prior Review	%	100	100	100	Executive Director	Dong-Kil Cho	Director	1997.02.26	
Amended Matters	Cases	0	0	0	Director	Hoon Chon	Director	2019.03.26	
Reported Matters	Cases	3	6	11		Min-Hyuk Koh	Director	2020.03.30	
Meeting Attendance	%	85.7	97.1	93.7	Non-	Il-Tae Son	Audit Committee	2018.03.29	
Non-executive Director Attendance		66.7	100	100	executive	Sung-Sup Lee	Audit Committee	2018.03.29	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Director	Nam-Uh Rhee	Audit Committee	2020.03.30	



Two non-executive, one executive directors

Board Members (As of the 1st guarter of 2020)

22

# **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 Diele	Market Risk	Exchange risk, interest rate	
Financial Risks	Liquidity Risk	Profitability, debt ratio, credit etc.	- Financial Team
Non-financial Ethical Risk Risks Safety Risk	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.	
	Labor & Management Risk	Employment, discrimination, labor and management conflicts	— HR Team
	Reputational Risk	Negative media coverage, sustainability reputation	Communication Te

# **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.



Investing in new technology and R&D	27-28	mpact on
<ul> <li>Improving product responsibility and customer satisfaction</li> </ul>	29	qmi
<ul> <li>Discovering new business areas and enhancing marketing</li> </ul>	27-28	
Creating a safe workplace	31-33	
Reducing GHG emissions and energy use in response to climate change	- 35-39	
Managing safe disposal of waste · wastewater · chemicals	- 33-39	
<ul> <li>Respecting human rights and diversity of employees</li> </ul>	44-47	
5 Developing employee competency	43	
Managing sustainable supply chain		
Strengthening communication and collaboration with partner companies	- 49	
<ul> <li>Contributing to local community through continuous social activities</li> </ul>	50-53	
Strengthening ethical management and eradicating all corruption	18-19	

Trust

Safe Work Environment

Promotina

Fco-friendly

Management Respecting Diversity of Members

Benefiting the Community Communication Channels with Major Stakeholders

nolder	Communication Channe	el	Major Interests
/ees	Community board     Labor-management conference     Business Information Session     Conversation with executives	Employee portal     Employee training     Employee satisfaction     survey     In-house broadcasting     Workshops	<ul> <li>Fair rewards, safe work environment, mid/long-term vision, professional training, communication between staff &amp; employees, welfare benefit, labor-management relations</li> </ul>
inies	Growth & partnership workshops     Meetings     Surveys	Growth & partnership day     Growth & partnership     meetings	Growth & partnership, win- win management, sustainable management
olders stors	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
iment I ments	Ministry of Environment     Ministry of Economy & Finance     FSC, ISO	<ul> <li>Participating in policy research</li> <li>Joint collaboration programs</li> </ul>	<ul> <li>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.</li> </ul>
ners	Website · Blog     Facebook · YouTube     Brochure	Promotional al videos     Customer satisfaction survey     Inviting customers     Exhibition, fairs	Enhance quality & service, communication with clients, brand value
unity	Social contribution     Communicate with loca	Sustainability report     sis near the workplace	Reduce waste · wastewater, manage harmful material at workplace, create and maintain jobs, help society, boost local economy



Influence on Stakeholders

# SUSTAINABILITY ISSUES

# 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.

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

# **Securing Customer Trust**

# Sustainability Performance

Hansol Holdings

4 startups

V Frontiers Program

Initial funding for



(\$)]

# 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.



Customer satisfaction rate achieved 100% (LG U+ Mobile Business Satisfaction Survey)



# 1.1. Securing New Growth Engines

V Frontiers Selection Process

Select 4 teams in each

fields of Distribution. material · interior, electrical · electronics. IT solution · service

Supported startups in 2020





# Hansol Paper | Nanocellulose (DURACLE®) Hansol Paper combined its various technical capability to pulp which is the main material of



# Hansol Holdings | Hansol V Frontiers

Hansol Group is boosting the competitive advantages of its existing businesses while at

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.

# 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

# 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 AI, 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



Hansol Inticube AI Communication (ISAC)

# 1.2. Increasing Customer Satisfaction

Hansol Technics Quality meeting operation process

Quality Index

Import · process · quality review Partner process quality status Improve · share worst items

Hansol EME Quality control manager training attendance



Hansol EME Quality control training for managers



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 guality control processes are shared with the whole division and relevant partners for effective guality control. Through monthly meetings, it manages guality 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 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 guality 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 HomeDeco Flooring Installation Service Process

		Increased Cu	isto	mer safety
Installation request	$\left  \rightarrow \right.$	Hansol HomeDeco-Installation company-Retail store shares info with site	$\rightarrow$	Actual in
Receive product - service complaints after installation	¢	Hansol HomeDeco & Installation company check installation details together	÷	Inform cust equip mater

# Hansol Technics | Enhancing Quality Control

# Hansol HomeDeco | Flooring Installation Services

# Hansol inticube | Conducting Customer Satisfaction Index Survey (CSI)

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.



# Safe Work Environment

# Sustainability Performance

Hansol Technics

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 ISRS-based safety assessment for 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

3 companies

\* Hansol Logistics,

Hansol EME

Hansol Technics,

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

ISO 45001

certificate



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 System<sup>1)</sup> (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 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.

045001:2018 안전보건경영시스템 인증취

Hansol Logistics Certified for its Health and Safety Management System

# Hansol FMF O-HSF Management

Average number of annual accidents 8.8 cases (including general accidents such as falls or collisions)	Accidents of new employees or employees who worked for 1~3 years	Accidents caused by obstacles such as crushing, falling 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	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	<ul> <li>Propose technical, managerial, and training countermeasures</li> <li>Provide and analyse accident data and cases in the same industry and conduct training</li> </ul>

# Hansol EME | Q-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.

# Hansol Papertech | Health & Safety Management System

Hansol Papertech maintains a health and safety management system based on KOSHA 18001<sup>2)</sup>, OSHAS 18001<sup>3)</sup> 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





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.

# 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 Paper Safety resolution conference





Hansol Chemical 2019 emergency response activity attendees 527 employees

\* 437 employees of

Hansol Chemical, 90 employees of partner

companies

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.



 Self-diagnosis of safety prevention activities for each region

Hansol Chemical Safety Emergency Response Activities

Hansol HomeDeco Joint Fire Drill

Hansol Technics Thailand Plant Safety Training

# 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.



# **Promoting Eco-friendly Management**

# Sustainability Performance

Hansol Paper

Hansol Chemical

2019 Recycle rate

reached 75%

(F

Greenhouse gas organization company-wide energy committee



# 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 ecofriendly 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.



# 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.

3.1.

to Climate Change

Hansol Group

9 companies

ISO 14001

certificate

\* Hansol Paper,

Hansol PNS.

Hansol Papertech,

Hansol HomeDeco,

Hansol Logistics,

Hansol Technics. Hansol Inticube,

Hansol Chemical

Hansol EME.

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.

Reducing Environmental Impact and a Response

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

# Hansol Holdings | Environment Policy

Hansol Holdings Environment Policy



energy and resources.



the environmental obligations.

HANSOL GROUP SUSTAINABILITY REPORT 2020

Hansol PNS ISO 14001 certificate

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 | 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



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

Greenhouse Gas Management Organization



Company-wide Energy Committee



36

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.

# 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.

- Allocation of emission rights and report on greenhouse gases
- Build · manage a greenhouse gas inventory
- Establish GHG reduction plan by company · team
- Monitor greenhouse gas emissions
- Calculate, verify greenhouse gas emissions
- Establish mid-term energy plans and manage performance
- Respond to energy related issues
- Promote energy innovation
- Review introducing new energy technology
- Energy Investment and performance management at each site

Hansol Group FSC certified 4 companies

\* Hansol Paper, Hansol Papertech, Hansol PNS Hansol HomeDecc

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. Highpressure 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 HomeDeco Forest in New Zealand

Hansol HomeDeco Iksan Plant Waste Heat Recovery System

Hansol Chemical 2019 waste recycle rate reached 75%



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 Dissolved Air Flotation Tank



Hansol Chemical LNG Reformer for Hydrogen Production

# Hansol Chemical | Installation of LNG **Reformer for Hydrogen Production**

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 2,400Nm<sup>3</sup>/ hr to 4,000Nm<sup>3</sup>/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.

3.2. **Eco-friendly** Product Design

Hansol HomeDeco

Domestic flooring

1☆|

Ranked in

sales

No. 1

\* In 2019

 $(6.3 \text{km}^2)$ 

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



Hansol Chemical OD Research

Hansol Paper Products using Protego®

Hansol HomeDeco SB Marble Flooring

# Hansol Chemical | World's First Ecofriendly 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.

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.





# **Respecting Diversity of Members**

# Sustainability Performance

Hansol Group

Hansol Group

RESPECT

Hansol Pape

Enhance employee

4th Asian Women's Index Award

on work-family balance

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

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.

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

# HR System Transformation

Switch to role-based position system	Enforce diff
<ul> <li>Integrate and simplify positions around actual roles (3 stage position system)</li> <li>Amend criteria and requirements for each integrated position</li> <li>Remove promotion by required amount of years and expand opportunities to promotion by selection</li> </ul>	Expand differentiat group performance     Amend company-wi

 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



# Hansol Group | HMS (Hansol Management

# 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.

# 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.

# Enforce differentiation of rewards

d differentiation of rewards based on CL job

d company-wide criteria on incentives

# Reinforce evaluation centered on coaching · feedback

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

# Securing global-level organizational competitiveness through immersion

- 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

# Hansol Group | Method for Enhancing Employee Respect

Policies that respect for employees play an important role in sustainable development of a company. Communicative Hansol Group sets the Hansol Management System (HMS) as a compass to direct its growth as a long-Organizational 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

4.2.

Culture

			Immediate awards Team leader selects and immediately awards an outstanding employee of the month	
	Recognition	Praises that 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	
$\begin{array}{c} \nabla & O \\ \leftarrow & & \\ \downarrow & & \\ \swarrow & & \\ \downarrow & & \\ \downarrow & & \\ \end{matrix}  \qquad \qquad$		Providing training	Inspection of delegation decision rules Periodic inspection of delegation decision rules to empower each individual.	
		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.	
		success	Team leader selects and immediately awards an outstanding employee of the month Sharing gratitude and compliments Share gratitude and compliment each other at the daily morning visual planning time and meetings RESPECT Survey Increase content on leadership training & acquire feedback through surveys and conduct further training Inspection of delegation decision rules Periodic inspection of delegation decision rules to empower each individual. Enhance job training Establish a yearly training plan by the needs of the employees and improve the quality of training through feedb Dress down day Gives freedom and helps create a comfortable work environment Reinforce evaluation interviews Enhance fairness by systemization of evaluation interviews Strengthen evaluation feedback Enhance 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) Proposal Room for all Expanded HMS Speed Hotline CEO Proposal Room to collect everyone's opinions 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 Better communication Challenging and enhancing position Differentiation of weight on evaluation items and conduct evaluation revolved around quantitative evaluation Inspect Individual performance evaluation items and conduct evaluation revolved around quantitative evaluation Challenging and enhancing position Differentiation of weight on evaluation items and conduct evaluation revolved around quantitative evaluation Challenging and enhancing position Differentiation of weight on evaluation items and conduct evaluation for the whole workplace Healing Workplace Program Search for improvements to be made in the work environment and reflect and conduct it in the m	
	Supportive	Constructive and sincere concrete		
00°0 (5227)	Feedback	feedback in a timely manner		
r8√	Determine	Participate in decision making		
8←8	Partnering	processes as a true partner	RESPECT Survey Monitor and improve manager leadership level through surveys	
			5 1	
) ) ) (	Evportation	Share clearly established visions		
QÃQ	Expectation	& goals of the organization	Enhance fairness in evaluation Inspect individual performance evaluation items and conduct evaluation revolved around quantitative evaluation (KPI)	
000	Consideration	Being considerate	Team leader selects and immediately awards an outstanding employee of the month           Sharing gratitude and compliments           Sharing gratitude and compliment each other at the daily morning visual planning time and meetings           RESPECT Survey           Increase content on leadership training & acquire feedback through surveys and conduct further training           Provide inspection of delegation decision rules           Periodic inspective valuation interviews           Contract evaluation interviews           Contract evaluation interviews           Contract evaluation interviews           Proposal Room for all           Periodic inspective devisions           Respect Survey           Monitor and improve manager leadership level through surveys           Encourage cooperation between divisions           Information exchange by dass and operation of a customized community board for sharing information <tr< td=""></tr<>	
Ś	Consideration	and caring for each other		
	Truct	Trust and having confidence in the		
	Trust	abilities and skills of the employee		

HANSOL GROUP SUSTAINABILITY REPORT 2020

Hansol Group Grievance committee all affiliate conducts Ŗ

Hansol Inticube

lunchbox meeting

attendance rate

222 'Dong-Go-Dong-Rak'

74% 

Hansol HomeDeco Share & Communication Talk attendance rate 70%



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

44

# Hansol Group | Grievance Committee

# Hansol HomeDeco, Hansol Inticube | Create a Communicative Organizational Culture

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.

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 System

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 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 Group EAP(Employee Assistance Program) Staff Health Management

Work	÷ ÷ Psychology	Family	
Job stress, Career development, Communication issues, Burn-out syndrome	Anxiety caused by depression or emotional labor, PTSD	Improving relationship with children, Improving marital relationships, Helping children's behavioural disorders	



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

# 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 family.

# 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.



# Sustainability Performance

Hansol Paper

233 students

Hansol Chemical

2019 water campaign

471 beneficiaries

Beneficiaries of paper donations

Hansol Pape 2019 share the 1% collection KRW 300 million

 $\heartsuit$ 

# 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.

# Our Approach

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.

# Hansol Paper Environmental Management of Partners

Establish plant's	Contract with	Establish environmen
environmental policy goals	partners	implementation plan
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 contract	



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Hansol Technics Partner Invitation Meeting
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# (m)

5.1.

Growth &

Partnership

Hansol Technics

Attended partners

invitation meeting

40 companies

of the partner

# Hansol Paper | System for Partnered Growth

Hansol Paper helps its partners enhance build on their competitive advantages to achieve sustainable growth. It has divided its activities 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 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.

# 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.



# 5.2. **Continuous** Social Contribution

Hansol Paper Beneficiaries of paper donations in 2019 233 students Hansol Paper

2019 Firefly volunteer members 969volunteers

Hansol Paper 2019 Firefly volunteer funds KRW 458 million (\$)



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.



Hansol Chemical

Participants of

# 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.



Landscape view of Museum San



Hansol Paper Firefly Volunteer Group



Hansol Technics Health Care Volunteer Event

# 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 Chemical Briquette Volunteer Activitiy

Hansol PNS, Hansol Inticube Habitat for Humanity volunteer hours (accumulative) 3,003 hours

(No. of attendees \* hours)

Hansol EME

Amount raised through Share the

Love 1% in 2019

KRW 12 million

# Hansol PNS, Hansol Inticube I 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 Paper Education project in developing countries





\* In 2019 (accumulative) Hansol Chemical 2019 water campaign



\* 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

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

2017

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

# 2015

# Drinking water facility for Kafubu West Primary School in Zambia

Improved drinking water and bathroom facilities for the school

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



Hansol Paper 6th project, Chua Ta school, Vietnam

한송PNS/인티큐브 사랑다눔 도배 봉사답

Hansol PNS, Hansol Inticube Wallpaper Volunteer Team



Hansol EME Share the Love 1% Activities



He has

Hansol PNS Hansol Inticube Habitat for Humanity Volunteer Tear



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.

# 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

# 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

# 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.

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# Data Center

# Hansol Holdings

# Board of Directors Performance

Category		Unit	2017	2018	2019	Category
	No. of Board Meetings	Times	5	10	9	
	Voted Matters	Cases	10	21	26	Talent
Board of	Prior Review	%	100	100	100	Developme
Directors	Amended Matters	Cases	0	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	
Diversity of Board Members	Female		0	0	0	
	Male		7	7	7	
	Less than 30	Persons	0	0	0	
	30~50		0	0	1	Diversity of
	Over 50		7	7	6	Employees

# Economic Performance

Category		Unit	2019
Business Performance	Total Turnover		26,352
	Business Profit	KRW 1 million	11,528
	Net Profit During Term		7 151

# **Environmental Performance**

Category		Unit	2019
Serious Harmful (Chemical)	No. of Cases	Cases	0
Substance Spillage	Amount	Ton	0
	Fine	KRW	0
Violation of Environmental	No. of Lawsuits	Cases	0
Law & Regulations	Amount Fine	Cases	0
Environmental Training	Training Hours	Hours	43
Environmental Training	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 Personnel			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	C
	30~50			4
	Over 50			0
	Average Length	Male	Years -	13
Job Stability	of Service	Female		8
	Turnover rate		%	3.4
	No. of Industrial	leerderres	Cases	0
Industrial	Industrial Accider	nt Rate	%	0
Accidents	No. of Deaths		Persons	C
Accidents	No. of Injuries			0
	Working-Hour Lo	ISS	Hours	0

	Total Budget		KRW 1 million	301
Talent	No. of Beneficiarie	15	Persons	41
Development	Training Cost per l	Employee	KRW 1 thousand	3,087
	Avg. Training Hour	Hours	19	
	Female Percentage	%	9.1	
	Gender-based	Male (Avg. Wage)	KRW 1 million	128
	Salary and Wage	Female (Avg. Wage)	NAM I IIIIIIOII	73
		No. of Disabled		0
		No. of Elderly (55 or		1
	Employment	over; excl. executives)		
	of Socially	No. of Foreigner	Persons	0
Diversity of	Disadvantaged	No. of High School		3
Employees		Graduates		
		No. of Veterans		0
		Percent of Disabled	%	0
	Employment of Socially Disadvantaged	Percent of Elderly		2.3
		Percent of Foreigner		0
		Percent of High School		6.8
		Graduates		0.0
		Percent of Veterans		0
Anti-corruption Policy and Procedure	No. of Employees in the Ethics Pledg	1 5	Persons	41
Anti-corruption Violation Cases	No. of Anti-corrup	tion Violation Cases	Cases	0
Data Security Violation Cases	No. of Customer D	Oata Leaks, Thefts, Losses	Cases	0
Uuman Diabaa	Human Rights Trai	ning Hours	Hours	41
Human Rights	Sexual Harassment Prevention		Hours	82
Policy and Procedure	Education Hours		HOUIS	02
TIOCEGUIE	Other education		Hours	82
Social Contribution	Investment in Soci	al Contribution	KRW 1 million	65

# **Hansol Paper**

# Economic Performance

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

# **Environmental Performance**

Raw Material Use	Raw Materia	1.1.1		
			Ton/Year	1,249,88
Decycled Daw	Recycled Mat	terial Usage	Ton/Year	573,17
Recycled Raw Material Use	Percent of Re	Percent of Recycled Material Usage		45.9
	(Recycled Ray	w Material)	%	
Total Energy Use			TJ	16,19
Total Water Use	(Usage, Korea			23,652,38
Waterworks		Waterworks Usage	Ton/Year	4,922,93
Groundwater	oundwater Goundwater Usage		IUII/ IEui	9,556,94
Sea Water		Sea water Usage		1,466,614
Water Reuse		Water Reuse	Ton/Year	8,076,42
		Water Reuse Rate	%	34.
Greenhouse	Emissions	Direct Emissions (Scope 1)	tCO <sub>2</sub> eq	358,29
Gas Emissions	ETTISSIOTIS	Indirect Emissions (Scope 2)	ico <sub>2</sub> eq	594,17
		SOx		250.
Air Pollutant Emissions	Emissions*	NOx	K.a.	158,40
		Dust	Kg	57,16
		HCI		13,45
Wastewater Discharge	Discharged		Ton/Year	16,853,45
		BOD	-	19.6
Water Pollutant	Discharged	COD	ppm	32.7
Discharge		SS		6.8
	Total Waste Generated (Disposed, Korea)			231,58
		Incineration		161,89
14/	-	Landfill	Ton	7,73
Waste		Recycle		177,23
		Others		
	Waste Recycled Rate		%	7
Serious Harmful	No. of Cases		Cases	
(Chemical)	A		Ton	
Substance Spillage	Amount		Ion	
Violation of	Fine		KRW 1 million	(
Environmental Law	No. of Lawsu	iits	Cases	
& Regulations	Non-moneta	ry Sanctions	Cases	(
Environmental	Investment in	Environmental Investment	KRW 1 million	9,56
Cost & Investment	Environment	Environmental Management Cost	KRW 1 million	17,82
Environmental	Training Hou		Hours	6,83
Environmental				

# \* Except data of Sintanjin plant

# Social Performance

	Category			Unit	2019
	Total No. of Staff	& Employees		Persons	1,153
			Total	Persons	26
		Executive	Female	Persons	0
			Male	Persons	26
			Total	Persons	1,112
	Staff & Employees (By employment type)	Permanent	Female	Persons	89
			Male	Persons	1,023
		Temporary	Total	Persons	15
			Female	Persons	13
			Male	Persons	2
		Unaffiliated Personnel		Persons	0
	Staff & Employees	Full-Time		Persons	1,152
	(By work shift type)	Part-Time		Persons	1
	Staff & Employees	Korea		Persons	1,144
	(By location)	Overseas		Persons	9
	Staff & Employees (By work shift type) Staff & Employees	Temporary Unaffiliated Pe Full-Time Part-Time Korea	Total Female Male Total Female Male	Persons	1,11 8 1,02 1 1 1,15 1,15

2019

Unit

			Unit	2019
	Female		Persons	11
	Male		Persons	74
New Employees			Persons	54
	30~50		Persons	29
	Over 50		Persons	2
	Average Length	Male	Years –	18.0
Job Stability	of Service	Female		9.0
	Turnover Rate		%	2.5
	No. of Industrial A		Cases	1
Industrial	Industrial Accident	t Rate	%	0.1
Accidents	No. of Deaths		Persons	0
Accidents	No. of Injuries		Persons	1
	Working-Hour Los	s	Hours	600
	Total Budget		KRW 1 million	1,900
Talent	No. of Beneficiarie	S	Persons	1,147
Development	Training Cost per E	Employee	KRW 1 thousand	1,656
	Avg. Training Hour	r per Employee	Hours	70
	Female Percentage	2	%	8.7
	Gender-based	Male (Avg. Wage)	VDW 1 million	73
	Salary and Wage	Female (Avg. Wage)	KRW 1 million –	48
		No. of Disabled		30
		No. of Elderly (55 or over;	_	
	Employment	excl. executives) No. of		74
Dimension of	of Socially	High School Graduates	Persons	
Diversity of	Disadvantaged	No. of Foreigners		0
Staff &	5	No. of High School Graduates		722
Employees		No. of Veterans	-	23
		Percent of Disabled		2.62
	<b>.</b>	Percent of Elderly	-	6.45
	Employment	Percent of Foreigner	-	0
	of Socially	Percent of High School	% -	
	Disadvantaged	Graduates		62.95
		Percent of Veterans	-	2.01
		Total No. of Partners	Numbers	44
Growth &	Supplier	Total Purchases from		204.254
Partnership		Partners	KRW 1 million	201,251
	Violation of Fair Trade		Cases	0
Fair Trade	Fine		KRW 1 million	0
Anti-corruption	No. of Employees Participating			
Anti-corruption Policy and			Persons	991
Policy and	No. of Employees in the Ethics Pledg		Persons	991
Policy and Procedure	in the Ethics Pledg	je		
Policy and Procedure Anti-corruption		je	Persons 	991
Policy and Procedure	in the Ethics Pledg	pe lation Cases	Cases	0
Policy and Procedure Anti-corruption Violation Cases	in the Ethics Pledg	je	Cases	0
Policy and Procedure Anti-corruption Violation Cases Data Security	in the Ethics Pledg	pe lation Cases	Cases	0
Policy and Procedure Anti-corruption Violation Cases Data Security	in the Ethics Pledg Anti-corruption Via No. of Customer D No. of Persons	je olation Cases Data Leaks, Thefts, Losses Total	Cases	0
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases	in the Ethics Pledg Anti-corruption Vie No. of Customer D No. of Persons Utilizing Maternity	je olation Cases Data Leaks, Thefts, Losses Total Male	Cases	0 0 7 0
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity	in the Ethics Pledg Anti-corruption Viu No. of Customer D No. of Persons Utilizing Maternity Leave	je olation Cases Data Leaks, Thefts, Losses Total 7 Male Female	Cases	0 0 7 0 7 7
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases	in the Ethics Pledg Anti-corruption Viu No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees	je olation Cases Data Leaks, Thefts, Losses Total Male Female Total	Cases Cases Persons	0 0 7 0 7 5
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity	in the Ethics Pledg Anti-corruption Vid No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12	je olation Cases Data Leaks, Thefts, Losses Total y Male Female Total Male	Cases	0 7 0 7 5 0
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity	in the Ethics Pledg Anti-corruption Viu No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees	je olation Cases Data Leaks, Thefts, Losses Total Male Female Total Male Female	Cases Cases Persons	0 0 7 0 7 5 0 5 5
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity	in the Ethics Pledg Anti-corruption Vid No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons	je olation Cases Data Leaks, Thefts, Losses Total y Male Female Total Male	Cases Cases Persons	0 0 7 0 7 5 0 0 5 0 0 5
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity Leave	in the Ethics Pledg Anti-corruption Via No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More	je olation Cases Data Leaks, Thefts, Losses Total Male Female Total Male Female Female Total	Cases Cases Persons Persons Persons	0 0 7 0 7 5 0 5 5 10 3
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity Leave Child Care	in the Ethics Pledg Anti-corruption Vid No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Persons Utilizing Child	je olation Cases Total Male Female Total Male Female Total Male Female Total Male	Cases Cases Persons Persons Persons	0 0 7 0 7 5 0 5 5 5 0 0 10 3 7
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity Leave	in the Ethics Pledg Anti-corruption Via 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	je olation Cases Data Leaks, Thefts, Losses Total Female Total Male Female Total Male Female Total Male Female Total Male	Cases Cases Persons Persons Persons Persons Cases Case	0 0 7 5 0 0 5 10 3 7 7 8
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity Leave Child Care	in the Ethics Pledg Anti-corruption Vid 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	je olation Cases Data Leaks, Thefts, Losses Total Female Total Male Female Total Male Female Total Male Female	Cases Cases Persons Persons Persons	0 0 7 5 0 5 5 10 3 3 7 7 8 8 3
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity Leave Child Care	in the Ethics Pledg Anti-corruption Vid 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	je olation Cases Data Leaks, Thefts, Losses Total Y Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male	Cases Cases Persons Persons Persons Persons Persons Persons Persons Persons	0 0 7 5 0 7 5 0 0 3 5 10 3 3 7 7 8 8 3 5 5
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity Leave Child Care Leave	in the Ethics Pledg Anti-corruption Vid No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Returnees Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of	je olation Cases Data Leaks, Thefts, Losses Total Y Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male	Cases Cases Persons Persons Persons Persons Cases Case	0 0 7 5 0 7 5 0 0 5 5 0 0 3 7 8 3 3 5 5 149.5
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity Leave Child Care Leave Human Rights	in the Ethics Pledg Anti-corruption Vid No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Returnees Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of	je olation Cases Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male	Cases Cases Persons Persons Persons Persons Persons Days Total hours	0 0 7 0 7 5 0 0 5 10 3 7 8 3 5 149.5 1,146
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity Leave Child Care Leave Human Rights Policy and	in the Ethics Pledg Anti-corruption Vid No. of Customer D 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 Workplace Anti-bu	je olation Cases Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male	Cases Cases Persons Persons Persons Persons Persons Days	0 0 7 0 7 5 0 0 5 10 3 7 8 3 5 149.5 1,146
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity Leave Child Care Leave Human Rights	in the Ethics Pledg Anti-corruption Vid No. of Customer D 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 Workplace Anti-bu Sexual Harassmen	je olation Cases Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male	Cases Cases Persons Persons Persons Persons Persons Days Total hours	0 7 0 7 5 0 0 5 5 0 0 0 0 0 0 3 3 7 7 8 3 3 5 149.5 1,146 1,146
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity Leave Child Care Leave Human Rights Policy and	in the Ethics Pledg Anti-corruption Vid No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Returnees Utilizing Child Care Leave No. of Returnees Working 12 Months or More Average Length of Workplace Anti-bu Sexual Harassmen Education Hours	je olation Cases Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male Female Total Male	Cases Cases Persons Persons Persons Persons Days Total hours	0 0 7 0 7 5 0 0 5 10 3 7 8 3 3 5 149.5 1,146 1,146 1,146
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity Leave Child Care Leave Human Rights Policy and	in the Ethics Pledg Anti-corruption Vid No. of Customer D No. of Customer D Villizing Maternity Leave No. of Returnees Working 12 Months or More No. of Returnees Working 12 Months or More Average Length of Workplace Anti-bu Sexual Harassmen Education Hours Other Education Investment in Soci	je olation Cases Total Male Female Total Male Ferenale Total Male Ferenale Total Male Ferenale Total Male Ferenale Total Male Ferenale Total Male Ferenale Total Male Ferenale Total Male Ferenale Total Male Ferenale Total Male Ferenale Total Male Ferenale Total Male Ferenale Total Male Ferenale Total Male Ferenale Total Male Ferenale Total Male Ferenal Male Ferenale Total Male Ferenale Total Male Ferenale Male Total Male Total Male Total Male Male Male Male Male Male Male Ma	Cases Cases Persons Persons Persons Persons Days Total hours Total hours KRW 1 million	0 0 7 5 0 0 5 10 3 7 7 8 8 3 5 149.5 1,146 1,146 1,146 458
Policy and Procedure Anti-corruption Violation Cases Data Security Violation Cases Maternity Leave Child Care Leave Human Rights Policy and Procedure	in the Ethics Pledg Anti-corruption Vid No. of Customer D No. of Customer D No. of Persons Utilizing Maternity Leave No. of Returnees Working 12 Months or More No. of Returnees Working 12 Months or More Average Length of Workplace Anti-bu Sexual Harassmen Education Hours Other Education	je olation Cases Total Male Female Total Male Ferenale Torev	Cases Cases Persons Persons Persons Persons Days Total hours Total hours Total hours	0 0 7 0 7 7

# Hansol Papertech

# Economic Performance

Category		Unit	2019
D :	Total Turnover	KDIM	99,509
Business Performance	Business Profit	— KRW     ——— — 1million   ———	4,318
Performance	Net Profit During Term		2,610

# **Environmental Performance**

Category		Unit	2019
Raw Material Use	Raw Material Usage	Ton/Year	291,721
De suel a d Davis	Recycled Material Usage	Ton/Year	285,359
Recycled Raw Material Use	Percent of Recycled Material Usage (Recycled Raw Material)		97.8
Total Energy Use	2		66,071
Total Water Use	(Usage, Korea)		2,126,345
Waterworks	Waterworks Usage	Ton/Year	6,433
Groundwater	Goundwater Usage	- TON/ Teal	468,884
Sea Water	Sea water Usage		-
Water Reuse	Water Reusage	Ton/Year	279,583
vvaler neuse	Water Reuse Rate	%	14.7
Environmental	Training Hours	Hours	256
Training	No. of Attendees	Persons	112

# 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 Perso	onnel	Persons	4
Staff & Employees	Full-Time		Persons	137
(By work shift type)	Temporary		Persons	0
Staff & Employees	Korea		Persons	137
(By location)	Overseas		Persons	0
	Female			0
	Male			11
New Employees	Less than 30		Persons	7
	30~50			4
	Over 50			0
	Average Length	Male		9.7
Job Stability	of Service	Female	— Years —	10.9
	Turnover Rate		%	3.1
	No. of Industrial	Accidents	Cases	3
	Industrial Accider	nt Rate	%	1.5
Industrial 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 Beneficiari	es	Persons	120
Development	Training Cost per	Employee	KRW 1 thousand	1,417
-	Avg. Training Hou	ur per Employee	Hours	78

Category			Unit	2019
	Female Percentage		%	2.9
	Gender-based	Male (Avg. Wage)	- KRW 1 million —	57
	Salary and Wage	Female (Avg. Wage)		44
		No. of Disabled		C
		No. of Elderly (55 or		C
	Employment	over; excl. executives)		L.
D: : (	of Socially	No. of Foreigner	Persons	C
Diversity of Staff &	Disadvantaged	No. of High School		12
Employees		Graduates		12
Linpioyees		No. of Veterans	_	C
		Percent of Disabled		C
	<b>F</b>	Percent of Elderly		C
	Employment	Percent of Foreigner	- %	C
	of Socially	Percent of High School	- % —	
	Disadvantaged	Graduates		8.8
		Percent of Veterans		C
		Total No. of Partners	Numbers	3
Growth & Partnership	Supplier	Total Purchases from	KDW/4 :11:	12.220
		Partners	KRW 1 million	12,228
	Violation of Fair Trade		Cases	C
Fair Trade	Fine		KRW 1 million	(
Anti-corruption				
Policy and		No. of Employees Participating		115
Procedure	in the Ethics Pledge			
Anti-corruption	No. of Anti-corrupt	ion Violation Cases	Cases	C
Violation Cases	No. of Anti-Corrupt	IUIT VIUIdliUIT Cases		, c
Data Security	No. of Customer D	ata Leaks Thefts Losses	Cases	C
Violation Cases	No. of Customer Data Leaks, Thefts, Losses			
	No. of Persons	Total		2
	Utilizing Maternity	Male	Persons	2
Maternity	Leave	Female		(
Leave	No. of Returnees	Total		2
	Working 12	Male	Persons	2
	Months or More	Female		(
	No. of Persons	Total		(
	Utilizing Child	Male	Persons	(
	Care Leave	Female		(
Child Care	No. of Returnees	Total		(
Leave	Working 12	Male	Persons	(
	Months or More	Female		(
	Average Length of	Leave	Days	(
n ni la	Workplace Anti-bu	llying Training Hours	Total hours	135
Human Rights	Sexual Harassment		Tatal barrow	270
Policy and	Education Hours		Total hours	270
Procedure	Other Education		Total hours	270
Social	Investment in Co.	al Contributi	KDW/ 1 million	
Contribution	Investment in Socia	ai contribution	KRW 1 million	19

# Hansol PNS

# Economic Performance

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

# **Environmental Performance**

Category			Unit	2019
Green House	Emissions	Direct Emissions (Scope 1)	+00.00	152
Gas Emissions	ETHISSIONS	Indirect Emissions (Scope 2)	- tCO <sub>2</sub> eq	192
	Total Waste	Generated (Disposed, Korea	)	1,004
		Incineration	-	0
Waste*		Landfill	Ton	0
waste		Recycle	-	1,004
		Others	-	0
	Waste Recy	led Rate	%	100
Serious Harmful	(Chemical)	No. of Cases	Cases	0
Substance Spilla	ige	Amount	Ton	0
Violation of Env		Fine	KRW 1 million	0
		No. of Lawsuits	Cases	0
Law & Regulations		Non-monetary Sanctions	Cases	0
г. :		Training Hours	Hours	84
Environmental T	annny	No. of Attendees	Persons	56

\* Except general waste from the headquarter

Category			Unit	2019(Paper)	2019(IT
Total No. of S	Staff & Employ	ees	Persons	83	132
		Total	Persons	4	1
	Executive	Female	Persons	0	(
Staff &		Male	Persons	4	1
		Total	Persons	78	131
Employees	Permanent	Female	Persons	18	37
(By employment		Male	Persons	60	94
type)		Total	Persons	1	(
	Temporary	Female	Persons	0	(
		Male	Persons	1	(
	Unaffiliated Personnel		Persons	0	(
Staff &	Full-Time		Persons	83	132
Employees (By work shift type)	Temporary		Persons	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	(
	Average Leng	th Male		10.3	9.7
Job Stability	of Service	Female	— Years	7.6	4.7
	Turnover Rate		%	8.0	9.2
	No. of Industr	ial Accidents	Cases	0	(
	Industrial Acci	ident Rate	%	0	(
Industrial	No. of Deaths		Persons	0	(
Accidents	No. of Injuries		Persons	0	(
	Working-Hou	r Loss	Hours	0	(
	Total Budget		KRW 1 million	70	102
Talent	No. of Benefic	iaries	Persons	83	130
Development	Training Cost	per Employee	KRW 1 thousand	843	787
-		Hour per Employee	Hours	40	87.6

Category			Unit	2019(Paper)	2019(IT
Diversity of Staff & Employees	Female Perce	ntage	%	21.7	28.0
1 . )	No. of Industr	ial Accidents	Cases	0	(
	Industrial Acc	ident Rate	%	0	(
Industrial	No. of Deaths	;	Persons	0	(
Accidents	No. of Injuries	5	Persons	0	(
	Working-Hou	r Loss	Hours	0	(
	Total Budget		KRW 1 million	70	102
Talent	No. of Benefic	ciaries	Persons	83	13
Development	Training Cost	per Employee	KRW 1 thousand	843	78
		Hour per Employee	Hours	40	8
	Female Percer		%	21.7	28.
	Gender-based	Male (Avg. Wage)		59	6
		Female (Avg. Wage)	KRW 1 million	37	- 4
	j=j=	No. of Disabled		1	
		No. of Elderly (55 or over;			
	Employment	excl. executives)		4	
	of Socially	No. of Foreigner	Persons	0	
Diversity of	Disadvantaged	No. of High School	1 0150115		
Staff &		Graduates		8	
Employees		No. of Veterans		0	
		Percent of Disabled		1.2	
		Percent of Elderly		4.8	
	Employment	Percent of Foreigner		0	0.
	of Socially	Percent of High School	%		
	Disadvantaged	Graduates		9.6	2.
		Percent of Veterans		0	0.
	Violation of F		Cases	0	
Fair Trade	Fine		KRW 1 million	0	
Anti-					
corruption Policy and Procedure	No. of Employ in the Ethics F	vees Participating Pledge	Persons	73	13
Anti-corruption Violation Cases	No. of Anti-co	pruption Violation Cases	Cases	0	
Data Security Violation Cases	No. of Custom	er Data Leaks, Thefts, Losses	Cases	0	
	No. of Persons	Total		0	
	Utilizing	Male	Persons	0	
Maternity	Maternity Leave	Female		0	
Leave	No. of Returnees	Total		0	
	Working 12	Male	Persons	0	
	Months or More			2	
	No. of Persons			2	
	Utilizing Child		Persons	0	
	Care Leave	Female	1 6150115	2	
Child Care Leave	No. of Returnees			2	
		Male	Persons	0	
	Working 12 Male Months or More Female		1 0130113	0	
	Average Leng		Dave	0	36
			Days Total hours		
Human Rights		nti-bullying Training Hours	Total hours	80	10
Policy and		sment Prevention	Total hours	80	13
Procedure	Education Ho		Tatal		
Social	Other Educati	011	Total hours	240	10
		Social Contribution	KRW 1 million	46	1

# Hansol HomeDeco

# Economic Performance

Category		Unit	2019
Duraina ana	Total Turnover		263,886
Business Performance	Business Profit	KRW 1 million	-1,666
Periornance	Net Profit During Term		-4,558
	Total R&D Expense for	KRW 1 million	84
Research &	Current Term		
Development	R&D Expense/Sales	%	0.03
	No. of Researchers	Persons	0

# **Environmental Performance**

Category			Unit	2019
Raw Material Use	Raw Material	Use	Ton/Years	305,616
Decycled Daw	Recycled Mat		Ton/Years	103,494
Recycled Raw Material Use Recycled Raw (Recycled Raw		cycled Material Usage v 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
Waler Reuse		Water Reuse Rate	%	21.2
Green House	Emissions	Direct Emissions (Scope 1)	+0.0	14,281
Gas Emissions	Emissions	Indirect Emissions (Scope 2)	tCO <sub>2</sub> eq	49,471
	Emissions	SOx		1,142.9
Air Pollutant		NOx	Kg	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 G	ienerated (Disposed, Korea)		141,532
		Incineration		17,146
Waste		Landfill	Ton	1,540
vvaste	-	Recycle		122,846
		Others		0
	Waste Recycle	ed Rate	%	87
Environmental	Investment in	Environmental Investment	KRW 1 million	-
Cost & Investment	Environment	Environmental Management Cost	KRW 1 million	1752
En vironment-LT-	ainina	Training Hours	Hours	594
Environmental Tr	aming	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	Permanent	Female	Persons	20
(By employment type)		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	Vears	11
Job Stability	of Service	Female	Years -	8
	Turnover Rate		%	11.0
	No. of Industrial Ad	cidents	Cases	3
المتعدية ما	Industrial Accident	Rate	%	1.2
Industrial Accidents	No. of Deaths		Persons	0
Accidents	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	mployee	KRW 1 thousand	965
	Avg. Training Hour	per Employee	Hours	41
	Female Percentage		%	8.0
	No. of Female Man	lager	Persons	2
	Percent of Female	Manager	%	1.5
	Gender-based	Male (Avg. Wage)	KRW 1 million —	57
	Salary and Wage	Female (Avg. Wage)		46
		No. of Disabled		1
Diversity of Staff & Employees		No. of Elderly (55 or		2
	Employment	over; excl. executives)	_	2
	Disadvantaged	No. of Foreigner	Persons	0
		No. of High School		32
		Graduates	_	
		No. of Veterans		1
	Employment of Socially	Percent of Disabled		0.4
		Percent of Elderly		1
		Percent of Foreigner	% —	0
	Disadvantaged	Percent of High School		12
		Graduates Percent of Veterans	_	0.4
Creweb 0		Total No. of Partners	Numbers	0.4
Growth & Partnership	Supplier	Total Purchases from Partners		
Partnership	Violation of Fair Tra			6,823
Fair Trade	Fine	106	Cases	0
	No. of Employees F	Participating		0
Anti-corruption	in the Ethics Pledge		Persons	264
Policy and	Percent of Persons			
Procedure	Ethics Training	rino completed	%	100
Anti-corruption	ÿ			0
Violation Cases	No. of Anti-corrupt	ion Violation Cases	Cases	0
Data Security	No. of Customer D	ata Leaks, Thefts, Losses	Cases	0
Violation Cases		ata Leaks, mens, Losses		
	No. of Persons	Total	_	7
	Utilizing Maternity	Male	Persons	5
Maternity	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
Dusiness	Total Turnover		460,730
Business Performance	Business Profit	KRW 1 million	9,520
renonnance	Net Profit During Term		5,909

# **Environmental Performance**

Category		Unit	2019
Serious Harmful (Chemical)	No. of Cases	Cases	0
Substance Spillage	Amount	Ton	0
Velocity from the second line	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	(
		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	(
Staff & Employees	Full-Time		Persons	358
(By work shift type)	Temporary		Persons	(
Staff & Employees	Korea		Persons	348
(By location)	Overseas		Persons	10
	Female			12
	Male			33
New Employees			Persons	13
	30~50			31
	Over 50			1
	Average Length	Male	Years	8
Job Stability	of Service	Female		6
	Turnover Rate		%	5.7
	No. of Industrial	Accidents	Cases	1
Industrial	Industrial Accide	ent Rate	%	0.3
Accidents	No. of Deaths		Persons	(
Accidents	No. of Injuries		Persons	1
	Working-Hour L	OSS	Hours	240
	Total Budget		KRW 1 million	290
Talent	No. of Beneficia	ries	Persons	340
Development	Training Cost pe	r Employee	KRW 1 thousand	852
	Avg. Training Ho	our per Employee	Hours	78

Category			Unit	201
	Female Percentage	2	%	19.
	No. of Female Manager		Persons	1
	Percent of Female	Manager	%	6.
	Gender-based	Male (Avg. Wage)	KRW 1 million –	5
	Salary and Wage	Female (Avg. Wage)	KRW I Million -	4
		No. of Disabled		
		No. of Elderly (55 or over;	-	
Discusitor of	Employment	excl. executives)		
Diversity of Staff &	of Socially	No. of Foreigner	Persons	
Employees	Disadvantaged	No. of High School	_	0
Employees		Graduates		9
		No. of Veterans	_	
		Percent of Disabled		
	<b>F I I</b>	Percent of Elderly	-	
	Employment	Percent of Foreigner	%	
	of Socially	Percent of High School	% -	25
	Disadvantaged	Graduates		25.
		Percent of Veterans	-	0.
<b>C</b> .1 0		Total No. of Partners	Numbers	79
Growth & Partnership	Supplier	Total Purchases from Partners	KRW 1 million	260,86
- · - ·	Violation of Fair Tra	ade	Cases	
Fair Trade	Fine		KRW 1 million	
Anti-corruption Policy and Procedure	No. of Employees I in the Ethics Pledg		Persons	35
Anti-corruption Violation Cases	No. of Anti-corrupt	tion Violation Cases	Cases	
Data Security Violation Cases	No. of Customer D	ata Leaks, Thefts, Losses	Cases	
	No. of Persons	Total		1
	Utilizing Maternity	Male	Persons	
Maternity	Leave	Female	-	
Leave	No. of Returnees	Total		1
	Working 12	Male	Persons	
	Months or More	Female	-	
	No. of Persons	Total		
	Utilizing Child	Male	Persons	
	Care Leave	Female	-	
Child Care	No. of Returnees	Total		
Leave	Working 12	Male	Persons	
	Months or More	Female	-	
	Average Length of		Days	7
Human Rights	Sexual Harassmen			
Policy and	Education Hours		Total hours	31
Procedure	Other Education		Total hours	31
Social Contribution	Investment in Soci	al Contribution	KRW 1 million	7

# **Hansol Technics**

# Economic Performance

Category		Unit	2019
Duraina ana	Total Turnover		972,243
Business Performance	Business Profit	KRW 1 million	25,466
Periornance	Net Profit During Term		6,444
	Total R&D Expense for	KRW 1 million	17.549
Research &	Current Term	KRWV 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	2		TJ	281
Total Water Use	(Usage, Korea	a)		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 <sub>2</sub> eq -	293
Gas Emissions	ETTISSIONS	Indirect Emissions (Scope 2)		13,350
		SOx		0
Air Pollutant	Emissions	NOx		1
Emissions	Emissions	Dust	- Kg	0
		HCI		0
Wastewater Discharge	Discharged		Ton/Years	38,594
Water Pollutant		BOD		12
indicer i ondicarre	Discharged	COD	ppm	14
Discharge		SS		19
	Total Waste	Generated (Disposed, Korea)		1,455
		Incineration		21
\ /+-		Landfill	Ton	497
Waste		Recycle		627
Waste Recycl		Others		309
		led Rate	%	43
Serious Harmful		No. of Cases	Cases	0
Substance Spilla	ge	Amount	Ton	0
Violation (E		Fine	KRW 1 million	0
Violation of Env		No. of Lawsuits	Cases	0
Law & Regulation	1115	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
New Employees	Male			150
	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 A		Cases	1
Industrial	Industrial Acciden	t Rate	%	0.2
Accidents	No. of Deaths		Persons	(
Accidents	No. of Injuries		Persons	1
	Working-Hour Los	iS	Hours	(
	Total Budget		KRW 1 million	280
Talent	No. of Beneficiarie	25	Persons	703
Development	Training Cost per	Employee	KRW 1 thousand	46
	Avg. Training Hou	r per Employee	Hours	4
	Female Percentag	e	%	22
	No. of Female Ma	nager	Persons	4
	Percent of Female	3	%	1.8
	Gender-based	Male (Avg. Wage)		56.2
	Salary and Wage	Female (Avg. Wage)	<ul> <li>KRW 1 million —</li> </ul>	43.3
	<u></u>	No. of Disabled		10
		No. of Elderly (55 or		
	Employment	over; excl. executives)		27
Diversity of	Employment of Socially Disadvantaged	No. of Foreigner	Persons	(
Staff &		No. of High School		
Employees		Graduates		249
		No. of Veterans		4
		Percent of Disabled		1.5
	Employment of Socially Disadvantaged	Percent of Elderly		4.1
		Percent of Foreigner		
		Percent of High School		(
		Graduates		37.9
		Percent of Veterans	·	0.6
	Violation of Fair Tr			
Fair Trade		due	Cases	(
	Fine		KRW 1 million	(
Anti-corruption	No. of Employees Participating		Persons	389
Policy and	in the Ethics Pledge			
Procedure	Percent of Persons Who Completed		%	100
Anti corruption	Ethics Training			
Anti-corruption Violation Cases	No. of Anti-corrup	tion Violation Cases	Cases	(
Data Security			·	
Violation Cases	No. of Customer [	Data Leaks, Thefts, Losses	Cases	(
Tiolation cases	No. of Persons	Total	·	1
	Utilizing Maternity		Persons	1
Maternity	Leave	Female		(
Leave	No. of Returnees	Total		
Leave	Working 12	Male	Persons	(
	Months or More	Female		
			·	
	No. of Persons	Total		1
	Utilizing Child	Male	Persons	2
Child Care	Care Leave	Female		
Leave	No. of Returnees	Total		0
	Working 12	Male	Persons	(
	Months or More	Female		1
	Average Length o	f Leave	Days	156
Human Rights	Sexual Harassmer	t Prevention	Total hours	656
Policy and	Education Hours			
Procedure	Other Education		Total hours	656
C:-I	Investment in Soc	ial Contribution	KRW 1 million	22.6
Social Contribution	Direct/Indirect Ber			

# Hansol EME

# Economic Performance

Category		Unit	2019
Ducinera	Total Turnover		205,832
Business Performance	Business Profit	KRW 1 million	-2,975
Periornance	Net Profit During Term		-7,985
	Total R&D Expense for	KRW 1 million	101
Research &	Current Term	NAME I THINKON	10
Development	R&D Expense/Sales	%	0.0
	No. of Researchers	Persons	2

# **Environmental Performance**

Category		Unit	201
Serious Harmful (Chemical)	No. of Cases	Cases	(
Substance Spillage	Amount	Ton	(
Violation of Environmental Law	Fine	KRW 1 million	1.
& Regulations	No. of Lawsuits	Cases	(
a negulations	Non-monetary Sanctions	Cases	(

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		Female	Persons	16
(By employment type)		Male	Persons	402
		Total	Persons	84
	Temporary	Female	Persons	3
		Male	Persons	81
	Unaffiliated Pers	onnel	Persons	0
Staff & Employees	Full-Time		Persons	507
(By work shift type)	Temporary		Persons	0
Staff & Employees	Korea		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	— Years —	11
Job Stability	of Service	Female	- teals -	7
	Turnover Rate		%	0.3
	No. of Industrial Accidents		Cases	3
Industrial	Industrial Accident Rate		%	0.3
Accidents	No. of Deaths		Persons	1
ACCIDENTS	No. of Injuries		Persons	4
	Working-Hour Loss		Hours	4,488
	Total Budget		KRW 1 million	155
Talent	No. of Beneficiar	ies	Persons	506
Development	Training Cost pe	r Employee	KRW 1 thousand	308
	Avg. Training Hour per Employee		Hours	60
Diversity of Staff &	Female Percenta	ge	%	3.8
	No. of Female Manager		Persons	1
	Percent of Femal	e Manager	%	0.5
Employees	Gender-based	Male (Avg. Wage)	— KRW 1 million —	54
	Salary and Wage	Female (Avg. Wage)	KKW I MIIION	38

Category			Unit	2019
		No. of Disabled		2
		No. of Elderly (55 or		42
	Employment	over; excl. executives)		
	of Socially	No. of Foreigner	Persons	1
	Disadvantaged	No. of High School		198
Diversity of		Graduates	·	
Staff &		No. of Veterans		5
Employees	Employment	Percent of Disabled		0.4
		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
Fair Trade	Violation of Fair Tra	ade	Cases	0
Fair Irade	Fine		KRW 1 million	0
Anti-corruption	No. of Employees Participating in the Ethics Pledge		Persons	507
Policy and Procedure	Percent of Persons Who Completed Ethics Training		%	100
Anti-corruption Violation Cases	No. of Anti-corruption Violation Cases		Cases	0
Data Security Violation Cases	No. of Customer Data Leaks, Thefts, Losses		Cases	0
	No. of Persons Utilizing Maternity	Total		1
		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		Days	156
			Total hours	3,280
Human Rights Policy and	Workplace Anti-bullying Training Hours Sexual Harassment Prevention Education Hours		Total hours	3,280
Procedure	Other Education		Total hours	3,280
Social Contribution	Investment in Socia	al Contribution	KRW 1 million	12

# Hansol Inticube

# Economic Performance

Category		Unit	2019
Durainana	Total Turnover		58,966
Business Performance	Business Profit	KRW 1 million	-1,013
	Net Profit During Term		-889
Research &	Total R&D Expense for Current Term	KRW 1 million	1,562
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
	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	221
		Total	Persons	5
	Executive	Female	Persons	C
		Male	Persons	5
		Total	Persons	210
Staff & Employees	Permanent	Female	Persons	54
(By employment type)		Male	Persons	156
		Total	Persons	6
	Temporary	Female	Persons	1
		Male	Persons	5
	Unaffiliated Per	rsonnel	Persons	C
Staff & Employees	Full-Time		Persons	221
(By work shift type)	Temporary		Persons	C
Staff & Employees	Korea		Persons	221
(By location)	Overseas		Persons	C
	Female			14
	Male			27
New Employees			Persons	20
	30~50			20
	Over 50			1
	Average Length	n Male	— Years —	8.7
Job Stability	of Service	Female	- Tedis -	6.8
	Turnover Rate		%	0.1
	No. of Industrial Accidents		Cases	C
Industrial	Industrial Accident Rate		%	C
Accidents	No. of Deaths		Persons	C
Accidents	No. of Injuries		Persons	C
	Working-Hour	Loss	Hours	C
	Total Budget		KRW 1 million	240
Talent	No. of Beneficia	aries	Persons	193
Development	Training Cost p	er Employee	KRW 1 thousand	1,244
-	Avg. Training Hour per Employee		Hours	69
Diversity of	Female Percent	age	%	24.9
	No. of Female N	/lanager	Persons	20
Staff &	Percent of Fem	ale Manager	%	36.0
Employees	Gender-based	Male (Avg. Wage)	— KRW 1 million —	48
-	Salary and Wag	e Female (Avg. Wage)		39

Category			Unit	2019
		No. of Disabled		3
		No. of Elderly (55 or	_	15
	Employment	over; excl. executives)		15
	of Socially	No. of Foreigner	Persons	0
Diversity of Staff &	Disadvantaged	No. of High School Graduates		4
		No. of Veterans		2
Employees		Percent of Disabled		1.4
	Employment	Percent of Elderly		6.8
	Employment of Socially	Percent of Foreigner	- %	0
	Disadvantaged	Percent of High School Graduates	/0	1.8
		Percent of Veterans		0.9
Growth &		Total No. of Partners	Numbers	235
Partnership	Supplier	Total Purchases from Partners	KRW 1 million	18,925
- ·	Violation of Fair Ti	rade	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 Violation Cases	No. of Anti-corruption Violation Cases		Cases	0
Data Security Violation Cases	No. of Customer Data Leaks, Thefts, Losses		Cases	0
	No. of Persons Utilizing Maternity Leave	Total	Persons	5
		y Male		2
Maternity		Female		2 3 5 2 3 2 2
Leave	No. of Returnees	Total	Persons	5
	Working 12	Male		2
	Months or More	Female		3
	No. of Persons	Total		
	Utilizing Child	Male	Persons	0
Child Care	Care Leave	Female		2
Leave	No. of Returnees	Total		1
Leave	Working 12	Male	Persons	0
	Months or More	Female		1
	Average Length o	f Leave	Days	227
Human Rights Policy and	Workplace Anti-b	ullying Training Hours	Total hours	162
	Sexual Harassmer Education Hours	nt Prevention	Total hours	221
Procedure	Other Education		Total hours	162
	Investment in Social	Contribution	KRW 1 million	24
Social	Total Volunteer Ho	ours	Hours	80
Contribution	Avg. Volunteer Ho		Hours	10
	Direct/Indirect Ber		Persons	20

# **Hansol Chemical**

# **Economic Performance**

Category		Unit	2019
Business	Total Turnover		587,561
Performance	Business Profit	KRW 1 million	111,416
Performance	Net Profit During Term		91,031
Research &	Total R&D Expense for Current Term	KRW 1 million	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)				2,174,239
Waterworks	( )	Waterworks Usage	Ton/Years	31,376
Green House		Direct Emissions (Scope 1)		71,019
Gas Emissions	Emissions	Indirect Emissions (Scope 2)	tCO <sub>2</sub> eq	62,51
		SOx		198
Air Pollutant	F · · ·	NOx	14	159
Emissions	Emissions	Dust	Kg	251.8
		HCI		11
Wastewater Discharge	Discharged		Ton/Years	425,040
Water Pollutant	- · · · · · · · · · · · · · · · · · · ·	BOD	ppm	156
		COD		7
Discharge		SS		44
	Total Waste G	enerated (Disposed, Korea)		5,782
		Incineration		1,102
Waste		Landfill	Ton	176
vvaste		Recycle		4,322
		Others		182
	Waste Recycle	ed Rate	%	7
Serious Harmful	(Chemical)	No. of Cases	Cases	(
Substance Spilla	ge	Amount	Ton	(
Violation of Envi	roomontol	Fine	KRW 1 million	(
Violation of Environmental Law & Regulations		No. of Lawsuits	Cases	(
		Non-monetary Sanctions	Cases	(
Environmental		Environmental Investment		83
Cost & Investment	Environment	Environmental Management Cost	KRW 1 million	1,29
Environmental Training		Training Hours	Hours	13,984
		No. of Attendees	Persons	43

Category			Unit	201
Total No. of Staff	& Employees		Persons	50
		Total	Persons	9
	Executive	Female	Persons	
		Male	Persons	1
		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			9
	Over 50			(

Category			Unit	2019
	Average Length	Male	Years —	10
Job Stability	of Service	Female		5
	Turnover Rate		%	5.2
	No. of Industrial A		Cases	0
Industrial	Industrial Accident	Rate	%	0
Accidents	No. of Deaths		Persons	0
riceidents	No. of Injuries		Persons	0
	Working-Hour Los	5	Hours	0
	Total Budget		KRW 1 million	740
Talent	No. of Beneficiarie		Persons	500
Development	Training Cost per E		KRW 1 thousand	1,480
	Avg. Training Hour		Hours	16
	Female Percentage		<u>%                                    </u>	10.0
	No. of Female Mar	<u> </u>	Persons	9
	Percent of Female		%	8.2
	Gender-based	Male (Avg. Wage)	- KRW 1 million —	85
	Salary and Wage	Female (Avg. Wage)		57
		No. of Disabled		5
	5 1	No. of Elderly (55 or		22
Diversity of	Employment	over; excl. executives)		
Staff &	of Socially	No. of Foreigner	Persons	0
Employees	Disadvantaged	No. of High School		150
1 5		Graduates	·	
		No. of Veterans		4
		Percent of Disabled		1.0
	Employment	Percent of Elderly		4.2
	of Socially	Percent of Foreigner	% —	0
	Disadvantaged	Percent of High School		28.7
	5	Graduates		
		Percent of Veterans		0.8
Fair Trade	Violation of Fair Tra	ade	Cases	0
	Fine		KRW 1 million	0
Anti-corruption	No. of Employees I		Persons	500
Policy and	in the Ethics Pledg			
Procedure	Percent of Persons Ethics Training	who completed	%	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		7
	Utilizing Maternity		Persons	7
Maternity	Leave	Female		0
Leave	No. of Returnees	Total		7
	Working 12	Male	Persons	7
	Months or More	Female		0
	No. of Persons	Total		4
	Utilizing Child	Male	Persons	0
	Care Leave	Female		4
Child Care	No. of Returnees	Total	·	4
Leave	Working 12	Male	Persons	0
	Months or More	Female		4
	Average Length of		Days	203.5
			Total hours	
Human Rights	Sexual Harassmen		LOTAL DOLLES	500
Human Rights Policy and	Sexual Harassmen Education Hours		Total Hours	
			Total hours	500
Policy and	Education Hours			500
Policy and	Education Hours Other Education	ontribution	Total hours	65
Policy and Procedure	Education Hours Other Education Investment in Social C	Contribution urs	Total hours KRW 1 million	

# **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 2 10/	
Organizational	102-7	Organization size	4	•	6.3.10/ 6.4.1-6.4.2/	
Profile	102-8	Information on staff/employees and workers	56-65	•	6.4.3/6.4.4/	
2010	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 PARTNERSHIP FOR THE GOAL
	102-13	Committee membership	75	•		- 66
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	
	102-17	Ethics and integrity	18-19	•		2 16 FRAFE ASSESS 16 FRAFE ASSESS ASSESS 16 FRAFE ASSESS ASSESS
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 WORK
	102-42	Stakeholders identification and selection	23	•	5.3	
	102-43	Stakeholder method of participation	23	•		
	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	
2016 Strategy 2016 Ethics and ntegrity 2016 Governance 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	Disclo	sure						Page	in report	Verifica	tion IS	O 26000	UN SI	DGs
Topic 1: Creating a Saf	e Work	place												
	103-1	Explanation of	of the m	naterial to	pic and	its Bound	lary						3 GOOD AND W	HEALTH
GRI 103: Management Approach 2016	103-2 The management approach and its components					ts	30		•			/v		
	103-3	Evaluation of	the ma	inagemer	nt appro	ach							8 DECENT	T WORK AND Mic growth
	403-2	Types of injur diseases, lost of work-relat	days, a	nd absen				56-65	,	•	6.	.4.6/6.8.8		1
									2019					
GRI 403: Occupational		Category	Unit	Holdings	Paper	Papertech	P Paper	NS IT	— HomeDe	co Logistics	Technics	5 EME	nticube Cl	hemic
Health and Safety 2016	No. of In	dustrial Accidents	Cases	0	1	3	. 0		0	3 1	1	1 3	0	
-		al Accident Rate	%	0	0.1	1.5	0		0 1	.2 0.3	0.2		0	
	No. of D		Persons	0	0	0	0		0	0 0			0	
	No. of In		Persons	0	1	3	0		0	3 1			0	
		-Hour Loss	Hours	0	600	279	0		0 1,30				0	
Topic 2: Investing in N	5	·												
	103-1	Explanation of	of the m	naterial to	pic and	its Bound	lary			-			_	
GRI 103: Management Approach 2016		The manager						26		•			9 NOUSTR	Y. INNOVATION
	103-3	Evaluation of	the ma	inagemer	nt appro	ach								
	-	R&D investm	ent and	manpov	ver			57, 60 63, 64		0			_	
								2019						
-		Category	U	nit –	Pape	r He	omeDeco	)	Technics	EM	E	Inticube	Chem	nical
	R&D Inv	estment	KRW 1 r	nillion		4,405		84	17,54	.9	101	1,56	2	10,76
	R&D Exp	ense/Sales	%			0.27	0.	03	2.9		0.05	2.6		2.6
		esearchers	Persons			33		0	13	4	2	1	2	13
Topic 3: Strengthening	) Ethical	Managemen	t and E	radicati	ng All C	Corruptio	n							
	103-1	Explanation of	of the m	naterial to	pic and	its Bound	lary							
	103-2	The manager	ment ap					18-19	)	•			16 PEACE.	G INSTITUTIONS
GRI 103: Management Approach 2016		The manager		proach a	nd its co	omponen		18-19	)	•				
Management			the ma	oproach a anagemer h laws an	nd its contract	omponen bach	ts 	18-19 56-65		•		.6/6.7.1- .7.2/6.7.6	16 strong	
Management	103-3	Evaluation of Non-complia	the ma	oproach a anagemer h laws an	nd its contract	omponen bach	ts 			•		.6/6.7.1- .7.2/6.7.6	16 STON	
Management Approach 2016 GRI 419:	103-3 419-1	Evaluation of Non-complia	the ma	oproach a anagemer h laws an	nd its co nt appro	omponen bach	ts he	56-65 NS	; 2019 HomeDe	• • • •	6.	.7.2/6.7.6	16 state	
Management Approach 2016 GRI 419: Socioeconomic	103-3 419-1	Evaluation of Non-complia social and ec	the mance with onomic Unit	pproach a nagemer h laws an area Holdings	nd its co nt appro d regula Paper	omponen bach ations in t Papertech	ts he Paper	56-65 NS IT	2019 —— HomeDe	co Logistics	6. Technics	.7.2/6.7.6	Inticube Ch	hemica
Management	103-3 419-1 Violatior	Evaluation of Non-complia social and ec Category n of Fair Trade nti-corruption	the ma	pproach a anagemer h laws an area	nd its co nt appro	pomponen wach ations in t Papertech	ts he	56-65 NS IT	; 2019 HomeDe		6. Technics	.7.2/6.7.6 5 EME	_	

GRI Standard	Disclosure					Ра	ige in re	eport	Verificati	ion ISC	26000	UN	SDGs
Topic 4: Respecting H	luman Rights and Div	ersity of	Employe	ees									
	103-1 Explanation of the material topic and its Boundary											5	ENDER Quality
GRI 103: Management Approach 2016	103-2 The manag	103-2 The management approach and its components							٠				₽ <b>°</b>
	103-3 Evaluation	of the ma	nagemen	it appro	ach								IEDUCED Nequalities
	405-2 Ratio of basi	c salary ar	ıd remuner	ation of	women to	men 56	5-65		٠		.7/6.3.1	0/	<b>₽</b>
GRI 405:				2019									
Diversity and Equal Dipportunity 2016	Category	Unit	Holdings	Paper	Papertech -	PNS Paper	IТ	HomeDeco	Logistics	Technics	EME	Inticube	Chemical
	Male Average Wage	KRW 1	128	73	57	59	61	57	57	56	54	48	85
	Female Average Wage	million	73	48	44	37	44	46	40	43	38	39	57
Topic 5: Developing	Employee Competend	су.											
	103-1 Explanation	of the m	naterial to	pic and	its Bound	ary							
GRI 103: Management Approach 2016	103-2 The manag	ement ap	proach a	nd its co	omponent	ts 42	2		•			4	UALITY DUCATION
Αρρισατί 2010	103-3 Evaluation	of the ma	nagemen	it appro	ach								
	404-1 Average ho	urs of tra	ining per	year pe	r employe	e 56	5-65		٠	6.4	.7		
							2019						
GRI404: Training and	Category	Unit	Holdings	Paper	Papertech	PN: Paper	5 IT	HomeDeco	Logistics	Technics	EME	Inticube	Chemical
Education 2016	Total Budget	KRW 1 million	301	1,900	) 174	70	102	250	290	280	155	240	740
	No. of Beneficiaries	Persons	41	1,147	120	83	130	259	340	703	506	193	500
	Training Cost per Employe	ee KRW 1 Thousan	3,087	1,656	5 1,417	843	787	965	852	465	308	1,244	1,480
	Avg. Training Hour per Employe	e Hours	19	70	) 78	40	88	41	78	43	60	69	16
Topic 6: Discovering	New Business Areas a	nd Enha	ncing Ma	arketin	g								
	103-1 Explanation	of the m	naterial to	pic and	its Bound	ary							
GRI 103: Management Approach 2016	103-2 The manag	ement ap	proach a	nd its co	omponen	ts 26	5		٠			8 EC	CENT WORK AND ONOMIC GROWTH
Approach 2016	103-3 Evaluation of	of the ma	inagemen	it appro	ach							Í	М
-	- Startup inve	estment				27	,		٠				

GRI Standard	Disclos	sure					Pag	ge in repoi	t Verificat	ion IS	O 26000	UN	SDGs
Topic 7: Contributing	g to Local	Community t	hrougł	n Continu	ious Soo	cial Activitie	S						
	103-1	Explanation of	of the m	naterial to	pic and i	ts Boundary						1 ; /ħ:	OVERTY
GRI 103: Management Approach 2016	103-2	The manage	ment ap	oproach ai	nd its co	mponents	48		•			4	DUALITY
	103-3	Evaluation of	the ma	anagemen	it approa	ach						6 9	CLEAN WATER AND SANITATIO
	413-1 Operations with local con impact assessments, and						56-	-65	•		3.9/6.5.1· 5.3/6.8	17	PARTNERSHIP FOR THE GOAL
								20	9				
GRI 413: Local Communities 2016		Category	Unit	Holdings	Paper	Papertech Pap	PNS er	IT Home	Deco Logistics	Technics	EME	Inticube	Chem
	Investme Contribu (Incl. Dor		KRW 1 million	65	458	19	46	19	27 70	23	12	24	
		ge of workplaces in community	%	100	100	100	50	100	100 0	67	100	100	1
Topic 8: Improving P	roduct Re	sponsibility a	nd Cust	tomer Sa	tisfactio	n							
GRI 103:	103-1	03-1 Explanation of the material topic and its Boundary											
Management Approach 2016	103-2	The management approach and its components					_ 26		•				
	103-3	Evaluation of the management approach							_				
-	-	Customer sat	tisfactio	n monitor	ring		29		٠				
Topic 9: Managing S	afe Dispos	al of Waste	Wastev	vater∙Ch	emicals								
	103-1	Explanation of the material topic and its Boundary											
		The management approach and its components							•			12	RESPONSIBLE Consumption And producti
Management		The manager	ment ap	pproach ai	nd its co	mponents	34		•				
Management	103-2	The manager					34		•				X)
Management	103-2		the ma	anagemen	it approa		_	59, 62, 65	•	6.	5.3	_	X
GRI 103: Management Approach 2016	103-2	Evaluation of Waste by typ	the ma	anagemen lisposal m	it approa		_	59, 62, 65	0 2019	6.5	5.3		X
Management Approach 2016	103-2	Evaluation of	the ma	anagemen lisposal m	it approa		57,	59, 62, 65 S(Paper)			5.3 echnics	Che	emical
Management Approach 2016 GRI 306:	103-2 103-3 306-2	Evaluation of Waste by typ	the ma e and d	inagemen	it approa	ach	57,		2019	Te		-	
Management	103-2 103-3 306-2 Total Wa	Evaluation of Waste by typ	the ma e and d	inagemen	it approa	ach Paper	57, PNS	S(Paper)	2019 HomeDeco	32	echnics	5	5,7
Management Approach 2016 GRI 306: Effluents and	103-2 103-3 306-2 Total Wa	Evaluation of Waste by typ Categon ste Generated (Di- gration	the ma e and d	isposal m	it approa	Paper 231,580	57, PNS	5(Paper) 1,004	2019 HomeDeco 141,5	32 46	echnics 1,455		5,7 1,1
Management Approach 2016 GRI 306: Effluents and	103-2 103-3 306-2 Total Wa Incine	Evaluation of Waste by typ Category ste Generated (Di- gration	the ma e and d	isposal m	t approa ethod Unit — 	Paper 231,580 161,894	57, PNS	S(Paper) 1,004 0	2019 HomeDeco 141,5 17,1	32 46 40	echnics 1,455 21		5,7 1,1 1
Management Approach 2016 GRI 306: Effluents and	103-2 103-3 306-2 Total Wa Incine	Evaluation of Waste by typ Category ste Generated (Dis rration ill le	the ma e and d	isposal m	t approa ethod Unit — 	Paper 231,580 161,894 7,734	57, PNS	S(Paper) 1,004 0 0	2019 HomeDeco 141,5 17,1 1,5	32 46 40	echnics 1,455 21 497		emical 5,7 1,1 1 4,3 1

1	0
0	9

# Sustainable Development Goals, SDGs

GRI Standard	Disclo	sure				Page in repo	ort Verification	n ISO 26000	UN SDGs	
Topic 10: Managing	g Sustainab	le Supply Chain								
	103-1	Explanation of t	the material	topic and its Bou	ndary					
Management	103-2	The manageme	ent approach	and its compone	ents	48	•			
opic 11: Reducing GF iRI 103: Management pproach 2016 iRI 305: missions 2016	103-3	Evaluation of th	ie managem	ent approach		_				
-	-	Hansol Paper m partner compar		vironmental issue	s of	49	•			
Topic 11: Reducing	GHG Emiss	sions and Energy	y Use in Res	ponse to Climat	te Char	nge				
	103-1	Explanation of	the material	topic and its Bou	ndary	-				
Management	103-2	The manageme	ent approach	and its compone	ents	34	٠		13 glimate action	
	103-3	Evaluation of th	ie managem	ent approach					Ið action	
	305-1	Direct (Scope 1)	) GHG emiss	ions		57, 59, 60,	0	- 6.5.4/6.5.5		
GRI 2051	305-2	305-2 Energy indirect (Scope 2) GHG emissions					●	0.5.40.5.5		
Emissions 2016		Category	Unit	Unit		2019				
		cutegory		Paper	PNS	(Paper) H	lomeDeco	Technics	Chemical	
lanagement pproach 2016 RI 305:	Direct Er	mission (Scope 1)	- tCO2eq	358,293		152	14,281	293	71,019	
	Indirect	Emission (Scope 2)	- 1	594,176		192	49,471	13,350	62,515	
Topic 12: Strengthe	ning Comr	nunication and	Collaborati	on with Partner	r Comp	anies				
GRI 103:	103-1	Explanation of	the material	topic and its Bou	ndary	_				
Management Approach 2016	103-2	The manageme	ent approach	and its compone	ents	48	٠			
FF	103-3	Evaluation of th	e managem	ent approach					_	
	-	Supporting par	tner compar	ies		57, 58, 60, 61, 64	0			
-		Category	Uni	t		Papartach	2019	Logistics	Inticuho	
				Paper		Papertech	HomeDeco	Logistics	Inticube	
	Total No	o. of Partners	Numbers		44	3	5	798	235	

UN SDGs	·	Related Activities	Page in rep
1 Neer <b>Ax##:</b> #	End poverty in all its forms everywhere	Hansol Paper   Firefly Volunteer Group	50
3 GOOD HEALTH AND RELEASING 	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 exective	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 EQUALITY	Achieve gender equality and empower all women and girls	Hansol Paper   Fourth Asian Women Index Award     -Work & Life Balance Sector	47
6 CLEAN MATER AND SAMILET DN	Ensure availability and sustainable management of water and sanitation for all	Hansol Paper   Wastewater treatment improvement     Hansol Chemical   Water campaign	37, 53
	Ensure access to affordable, reliable, sustainable, and modern energy for all	Hansol HomeDeco   Eco-friendly new renewable energy projects	38
8 BEOXY WORK AND ECONOMIC SED TO FILL OF A CONSISTENT OF A CONSISTENT FILL OF A CONSISTENT OF A CONSISTENTIAL CONSISTENT OF A CONSISTENT OF A	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
PELESTRY INCOMPANY INCOMPRESSIBILITIES	Build resilient infrastructure, promote sustainable industrialization	Hansol Inticube   AI communication (ISAC)	28
11 SUSSAUMALE CITIES	Make cities and human settlements inclusive, safe, resilient and sustainable	Hansol PNS, Hansol Inticube   Wallpaper volunteer activities, Habitat for Humanity	52
12 EPRENI Incompany Incompany Incompany Incompany	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
13 CLANNE ACEBAR	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
15 INT. AND NO. 15	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
	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
17 NATIVESSIPS 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

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Register

# **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 AA1000<sup>1)</sup> AccountAbility Principles of Inclusivity, Materiality and Responsiveness · Confirming that the Report is in accordance with:
- GRI Standards : Core option<sup>2)</sup>
- Evaluating the accuracy and reliability of data and information for only the selected indicators listed below:
- 1) www.accountability.org 2) www.globalreporting.org

LR's Opinion

• 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.

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.

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.

Republic of Korea

Observations

Stakeholder inclusivity	We are not Hansol Hold
• Materiality	We are not performance Holdings ha material and
• Responsiveness	Hansol Hold the core ind also has the
• Reliability	Hansol Hold subsidiary co this first sust

LR's standards, competence and independence

# compromise our independence or impartiality.



Lloyd's Register Group Limited, its affiliates and subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract The English version of this Assurance Statement is the only valid version. Llovd's Register Group Limited assumes no responsibility for versions translated into other languages. This Assurance Statement is only valid when published with the Report to which it refers. It may only be reproduced in its entirety. Copyright © Lloyd's Register Quality Assurance Limited, 2020. A member of the Lloyd's Register Group.

• 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

• Reviewing supporting evidence made available by their Communication team at 100 Euljiro, Jung-gu, Seoul in

· Checking that the GRI Content Index allows stakeholders to access sustainability indicators.

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

aware of any key stakeholder groups that have been excluded from lings' stakeholder engagement process.

aware of any material issues concerning Hansol Holdings' sustainability e that have been excluded from the report. It should be noted that Hansol as established extensive criteria for determining which issue/aspect is d that these criteria are not biased to the company's management.

dings reported not only the interested issues from its stakeholders but also dicators related to UN Sustainable Development Goals. Hansol Holdings e response system to correspond with gueries of its stakeholders.

dings has reliable data management systems. However, some of the companies' data was omitted in the GRI Index 305-1,305-2 and 306-2 in tainability report. This is considered to be enhanced for the next issues.

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

9th July 2020

Hee-Jeong Yim LR Lead Verifier On behalf of Lloyd's Register Quality Assurance Limited 17th Floor, Sinsong Building, 67 Yeouinaru-ro, Yeongdeungpo-gu, Seoul, Korea LR reference: SEO00000685

# **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-do
	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 Paperted
	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
	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-dc
	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
	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	

## HANSOL GROUP SUSTAINABILITY REPORT 2020

# Membership

# Hansol Holdings

Korea Listed Companies Association	
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 Korean Standards Association Korean Society of Toxicology Korea Package Design Association Korea Corrugated Packaging Case Industry Association The Korea chamber of Commerce & Industry 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

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 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

Korea International Trade Association

- Korea Information & Communication

- Korea International Freight Forwarders
- Korea International Trade Association

# Hansol EME

- Construction Association of Korea
- International Construction Association of Korea
- 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 Association
- Seongnam Chamber of Commerce and Industry

# Hansol Inticube

Korea Information & Communication Contractors 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

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