Global Practice for Sustainability

2022 Hyosung Sustainability Report



About this report

Additional Information

This report is published in an interactive PDF format that includes links to related pages or websites.

Glossary of Major Terms

PG Performance Group

PU Performance Unit

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Hyosung Chemical: mser2000@hyosung.com

After the first publication in 2012, Hyosung has been publishing a Sustainability Report every year since 2018 to communicate actively with our stakeholders. The '2022 Hyosung Sustainability Report' is the seventh sustainability report that we have published. Through this report, we would like to share and transparently disclose our sustainable management activities and achievements across the economic, social, and environmental domains. We also seek feedback from our stakeholders to incorporate into our operations.

Reporting Principles

The 2022 Hyosung Sustainability Report was written with reference to the reporting method of the GRI Standards 2021, the sustainability reporting standard of the Global Reporting Initiative (GRI). In addition, to respond to the interests and demands of various stakeholders, external sustainability management initiatives and indicators such as SASB, TCFD, EcoVadis, ISO 26000, and UN SDGs were reflected in the selection of key issues.

Reporting Period and Scope

This report covers our activities and performance from January 1, 2022 to December 31, 2022. To provide readers with a better understanding of trends, it includes quantitative data from the past three years. In terms of qualitative activities and achievements, the report may include data up to May 2022. The financial data in this report is consistent with the consolidation standards under the Korean International Financial Reporting Standards (K-IFRS).

On June 1, 2018, Hyosung was spun-off into the holding company and four operating companies. Hyosung Corporation, the holding company, is in charge of group-wide investment and the management of operating companies – Hyosung TNC Corp., Hyosung Heavy Industries Corp., Hyosung Advanced Materials Corp., and Hyosung Chemical Corp. The business areas of these operating companies cover textile and trading, heavy industries and construction, industrial materials, and chemicals, respectively.

The scope of this report includes Hyosung and its four operating companies, as well as some qualitative and quantitative data from subsidiaries that account for more than 90% of consolidated sales. To avoid confusion, separate explanations are provided for matters that require attention regarding the reporting scope. For the convenience of readers, we have abbreviated company names. Some of the business outcomes and activities described in this report may not apply to certain operating companies. If corrections are required for data presented in our previous reports, the data has been recalculated as of 2022, and the reasons for and results of the corrections are indicated separately at the bottom of the relevant content.

Reporting Cycle

Annually (Last report published: July 2022)

Data Assurance

To ensure the credibility and fairness of this report, it has been verified by the Korea Management Registrar Inc. (KMR) in accordance with the four principles of AA1000AS (v3) and AA1000AP (2018). The results of the verification can be found on page 114 of this report.

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Interactive User Guide

This report is published in an interactive PDF format that includes links to related pages or websites.



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CEO Message



"Hyosung is committed to shaping a better future for humanity through our advanced technologies and management capabilities."

I would like to express my sincere gratitude to all of our stakeholders, including shareholders, customers, partner companies, local communities, and employees, for their unwavering support and trust in us.

As the world faces the challenges of deteriorating climate change and escalating global disputes, the political landscape has become increasingly uncertain, slowing down the global economy. Amid these daunting challenges, Hyosung is committed to becoming an enabler of a sustainable society, turning crisis into opportunity. ESG management, with its focus on sustainability, has become an integral part of business operations, leading to a paradigm shift in corporate management. In this fast-evolving era, we are dedicated to being a trustworthy company that fulfills our duties and responsibilities in ESG management.

ESG (Environmental, Social, and Governance) has become a new core driver of growth for us, providing a framework to guide our responsibilities towards the environment and society. To this end, we have established an ESG management system and embedded it into all aspects of our group-level management. In April 2021, we launched the ESG Management Committee, marking our full commitment to sustainable management as the foundation for the next 100 years. In response to global climate change, our holding company and four key operating companies endorsed the TCFD in 2022 and established a working-level council to integrate ESG perspectives into our business operations.

The council reviews ESG performance on a regular basis. Furthermore, the efforts are in full swing to improve our societal aspect. These include efforts to strengthen the human rights of our stakeholders, conducting human rights impact assessments from 2021, and enacting and revising our ESG policies, including those related to human rights management, in 2023. We are also expanding the scope of our management to include our suppliers and helping them build the capacity needed for ESG management, thereby enhancing our global ESG competitiveness. Additionally, we are committed to listening to our customers, developing green products and technologies, and offering a wide range of solutions tailored to their specific needs. By doing so, we aim to bring happiness to our customers beyond mere satisfaction.

Going forward, Hyosung is committed to leading the way towards a sustainable future, continuously transforming and innovating ourselves. We appreciate your ongoing encouragement and support on our journey towards a better future.

Chairman & CEO

Hyun-Joon Ch

Company Overview

Hyosung Corporation

Hyosung, Creating Customer Value

Hyosung's change is a process of constant challenge and innovation toward new technologies that increase customer value. Hyosung's history, throughout which we have fearlessly pioneered a better path for tomorrow, continues along the same trajectory today. Hyosung aims to build a better life for mankind based on high-end technologies and management capabilities along with the HYOSUNG WAY, a value system dedicated to making dreams come true for Hyosung people all around the world. We will strive to become a trusted company by fulfilling our responsibilities and obligations.

General Status

| Company name | Hyosung Corporation |
|--------------------------------|---|
| Date of establishment | November 3, 1966 |
| CEO | Hyun-Joon Cho, Kyoo-Young Kim |
| Headquarter | 119 Mapodaero, Mapo-gu, Seoul, Republic of Korea (Gongdeok-dong) |
| Key business areas | Management and investment of shares of subsidiary, research services, group CI management, interior, etc. |
| Key countries where we operate | 28 countries, including Korea, China, and Vietnam |



^{*} Key countries include combined figures from Hyosung Corporation and its four operating companies —Hyosung TNC, Hyosung Heavy Industries, Hyosung Advanced Materials, and Hyosung Chemical – as of the end of December 2022

Financial Performance





* On a consolidated basis

2023 Group Management Principles



ESG Management Performance

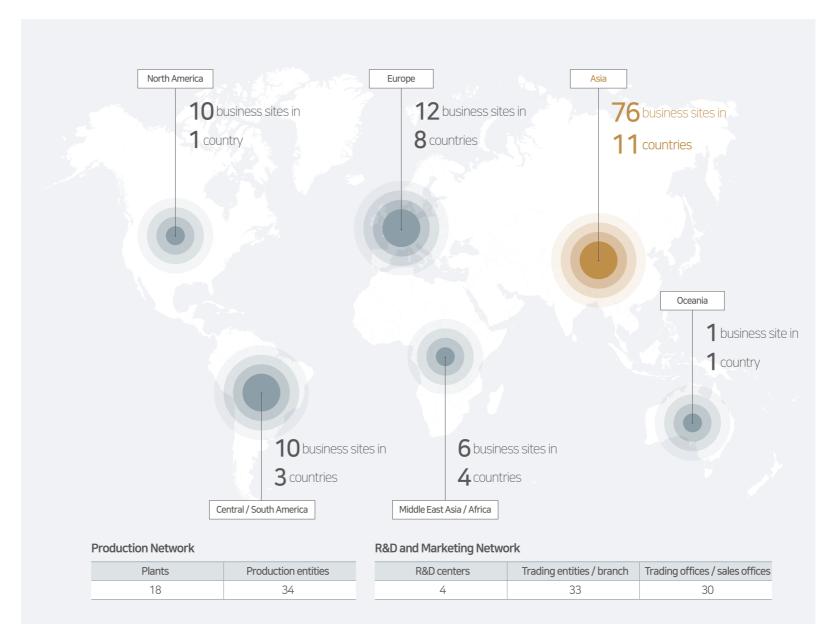




Hyosung Corporation

Global Network

To achieve successful overseas expansion and growth, Hyosung has been expanding its production sites worldwide so that it can respond to demand in overseas markets in a timely and stable manner. By deeply understanding the characteristics of different markets, we aim to produce and provide reliable and sought-after products for the entire global market. Our far-reaching global production and sales network spans 115 business sites in 28 countries, enabling us to provide unique products and services. We have entered large-scale, high-potential markets such as Vietnam, India, China, Brazil, and Türkiye(Turkey), and have made significant investments in equipment and facilities with localization strategies. This has solidified and expanded our position in the global arena. In 2022, we made large-scale investments in establishing corporations and constructing plants in China, Vietnam, India, and Türkiye(Turkey). We also focused on developing and mass-producing core products for the global market and strategically developing state-of-the-art businesses such as carbon fiber. Hyosung will continue to establish a strategic global network for continuous overseas business development and the strengthening of global competitiveness.



Asia

| · Korea | · Indonesia |
|--------------|-------------|
| · China | · Malaysia |
| · Japan | ·Singapore |
| · Vietnam | · Thailand |
| · India | · Taiwan |
| · Bangladesh | |

Europe

| ·UK | · Romania | |
|------------|-------------------|--|
| · Germany | ·Russia | |
| · Italy | ·Spain | |
| ·Luxemburg | · Türkiye(Turkey) | |
| | | |

North America

US

Central / South America

| · Mexico | · Panama |
|----------|----------|
| · Brazil | |

Middle East Asia / Africa

| · South Africa | · Qatar |
|----------------|------------------------|
| · Saudi Arabia | · United Arab Emirates |

Oceania

· Australia

Hyosung TNC

Driver of a Better World as Global Leading Player in the Textile Industry

Hyosung TNC's key businesses are trading and textiles, with roots in the textile industry for over 50 years. The company has supplied top-quality products that have earned the trust of customers worldwide, providing unique value. In the textile business, Hyosung TNC has developed its own spandex technology and continuously innovated. The company has established a production network across Korea, China, Vietnam, Türkiye(Turkey), Brazil, and India, and has carried out global marketing campaigns. These efforts have put Hyosung TNC on track to become the world's leading producer of spandex. In addition to its textile and trading businesses, Hyosung TNC has focused on developing low environmental impact products in its three chemical fibers: spandex, polyester, and nylon. This has helped to minimize the company's impact on the environment and contribute to a more sustainable textile industry. In its Trading Division, Hyosung TNC provides top-notch services based on market data and experiences accumulated from its extensive network of 30 overseas branches. The company operates in various industries, including logistics and distribution, with a focus on steel and chemicals. In response to growing demand for green businesses, efforts are in full swing to reinforce its wind power steel business and expand its biofuel trading.

*Ranked 1st in spandex production in the global market since 2012 (source: Global Spandex Market Report 2020)

General Status

| Company name | Hyosung TNC Corporation |
|-----------------------|--|
| Date of establishment | June 4, 2018 |
| CEO | Chi-Hyung Kim |
| HQ location | 119 Mapo-daero, Mapo-gu, Seoul, Republic of Korea (Gongdeok-dong) |
| Key business areas | Textiles, trade, etc. |



1,435

Financial Performance





* On a consolidated basis

ESG Management Performance

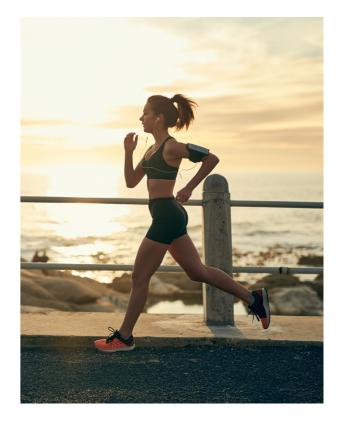












Business Divisions

| Textile Division | | Trade Division and Others | | | |
|--|---|--|---|--|--|
| Spandex PU | Nylon Polyester Yarn PU | Fabric Dyeing | Steel and Metal Product PU I, II | Chemical Product PU | Sebitseom Business Division |
| Global No.1 production capacity Global No.1 spandex brand, 'Creora' Selected as a 'World Best Product' by the Korean government Launched regen Bio-Based Spandex | No.1 nylon yarn in Korea Developed microfiber for the first time in the world Developed the Korea's first PET-recycled yarn, 'regen' Selected as a 'World Best Product' (m2, Aerocool, Askin) | Supply various textile materials, including high-performance clothing, protective clothing, and cleaners Finestar®, a cleaning product made from microfiber Nylon two-way spandex – 700,000 yards per month Dyeing capacity of 2.5 million yards per month | Lead the trade of steel products through the reinforced partnerships with customers, exporters, and importers around the world | Play a leading role as a chemical company in providing best-in-class services that satisfy customers | Sebitseom, a water culture complex on the Han River |

Company Overview

Hyosung TNC

Spandex PU

CREORA Spandex, Global Leader in Spandex Market Share

Hyosung TNC's advanced manufacturing technologies, R&D capabilities, and global marketing campaigns have established its spandex brand, 'CREORA Spandex,' as the global leader in terms of production capacity. The company has expanded its global production system to include 9 production hubs in 5 countries, including China, Türkiye(Turkey), Brazil, India, and Vietnam. Hyosung TNC offers a wide range of unique products and services that cater to the specific needs of its customers.



CREORA Spandex

Nylon / Polyester PU

Leading Global Nylon and Polyester Yarn Maker

Hyosung TNC has developed extensive manufacturing expertise through its 50 years of experience and has implemented a flawless quality management system based on its smart factory. This enables the company to produce a wide range of nylon and polyester yarn with diverse functions palatable to the needs of customers around the world.



Polyester yarn

Fabric Dyeing

Develop Fabric Made from Yarn Provided by Hyosung

Hyosung TNC has developed a range of fabrics using yarns created by Hyosung. The company supplies functional fabrics that can be used for a variety of purposes, including general clothing, highperformance wear, protective clothing, and IT materials.



Hyosung TNC's fabric

Low Environmental impact Spandex

In response to the growing demand for eco-friendly materials, Hyosung TNC has developed and marketed regen Bio-Based Spandex and regen Spandex, which are made from by-products. These two products have undergone independent 3rd-party Life Cycle Assessments (LCA) and have been verified for their ability to mitigate carbon emissions.



Low Environmental impact product, regen Bio-Based Spandex

regen Polyester, Pet-recycled Yarn

Hyosung TNC is committed to minimizing its environmental impact and promoting sustainable lifestyles through its products. These include high-performance and recycled nylon products, such as 'regen Nylon,' which is used for luxury lingerie and sportswear items, and 'regen Polyester,' an polyester yarn made from post-consumer PET bottles.



Low Environmental impact product, regen Polyester

Steel and Metal Product PU I, II, Chemical Product PU, and Sebitseom Business Division

Global Trading of Steel and Chemical Products, and **Sebitseom Project**

Hyosung TNC is involved in the export and import of steel products, raw materials, and steel processing facilities in the steel sector. In the chemical sector, the company exports and imports petrochemicals, precision chemical products, and raw materials. Additionally, Hyosung TNC operates Sebitseom, the world's first floating building complex, located in Banpo Hangang Park. This building serves as a cultural complex that offers a variety of activities and experiences for visitors to enjoy.



Steel materials

Hyosung Heavy Industries

Leading Eco-friendly Growth through Future Power Grid System and Green Construction

Hyosung Heavy Industries has the world's best technological capabilities in the field of heavy electric machinery, which is the core of industrial energy. The company is particularly recognized for its exceptional product quality in the field of power facilities, including transformers and switchgears, as well as in the rotating machinery sector, such as motors and gears. Additionally, Hyosung Heavy Industries is shaping and driving a lowcarbon and green future as a supplier of new and renewable power generation systems, such as hydrogen fueling stations and technologies essential to future power grid systems, including energy storage systems (ESS), static synchronous compensators (STATCOM), and DC transmission systems (HVDC / MVDC / LVDC). Based on our many years of experience and trust, we are actively participating in various construction projects, including housing developments, redevelopment and rebuilding projects, business and commercial facilities, civil engineering and the environment, SOCs, and data centers. Through continuous R&D activities and investments, Hyosung Heavy Industries is practicing green management to create a world where humans and nature can coexist and thrive.

General Status

| Company name | Hyosung Heavy Industries Corporation |
|-----------------------|--|
| Date of establishment | June 4, 2018 |
| CEO | Dong-Gi Yang / Takeshi Yokota |
| HQ location | 119 Mapo-daero, Mapo-gu, Seoul, Republic of Korea (Gongdeok-dong) |
| Key business areas | Power & Industrial Systems , construction, etc. |



3,131

Financial Performance





* On a consolidated basis

ESG Management Performance













Business Divisions

| Power & Industrial Systems Division | | | Construction Division |
|---|---|---|--|
| Power Systems PU | Industrial Machinery PU | Wind Energy Business Division | Construction PU |
| Established a global power infrastructure based on production hubs located in various countries, including China, India, and the US | No. 1 motor manufacturer in Korea in 2022 Operating a system engineering business through a wide line-up of industrial products | Developed Korea's first 750kW / 2MW / 5.5MW wind power system Offer total solutions for wind power, such as wind power core components, wind turbines, EPC, O&M, etc. | Introduced a villa-type residential building for the first time in Korea Participate in various construction projects, such as apartments and office buildings |

Company Overview

$\triangle = 10$

Hyosung Heavy Industries

Power Systems PU

Developing Low Environmental Impact Electric Equipment

Hyosung Heavy Industries specializes in the production of electric power devices, such as transformers and switchgears, which play a vital role in the power transmission and distribution network. It is committed to developing and providing low environmental impact products that use low environmental impact material as a substitute for the insulation materials used in electric equipment.

Low environmental impact oil-insulated transformers Replacing mineral oil with insulating ester oil (synthetic oil, vegetable oil)

Low environmental impact Gas Insulated Switchgear

Replacing SF₆ gas with CO₂/ fluoronitrile mixed gas

Market Expansion of Electric Equipment

Leveraging its long-standing know-how in the domestic market, Hyosung Heavy Industries is making inroads into global overseas markets such as in Europe, America, and the Middle East, which require advanced technology and rigorous quality assurance.

| Europe | | |
|---------------------------------------|--|--|
| UK | Supplied 400kV low environmental impact transformers (in 2023), continued to receive orders for low environmental impact transformers, such as 400kV, 275kV, and 33kV ones (in 2023) | |
| Asia | | |
| Singapore | Supplied 300kV underground substation (highest voltage and largest scale in Asia except China) | |
| Australia | Supplied 330kV phase shifting transformers (PST) | |
| North America | | |
| Received an order for 150MVAR STATCOM | | |

Supplied MV/LVDC (Medium/Low Voltage Direct Current) systems Supplied variable reactors such as 345kV variable reactors for KEPCO

Received an order for 170kV eco-friendly Gas Insulated Switchgear from KEPCO (in 2023) Received an order for 500MVAR STATCOM at Shin-taebaek substation



Static Synchronous Compensation (STATCOM) by Hyosung Heavy Industries

Expanded Supply of Energy Storage System (ESS)

An Energy Storage System (ESS) is a device that stores electric power during periods of low demand and releases it when needed. Hyosung Heavy Industries provides ESS solutions for various applications. In 2022, the company entered the European market by delivering a 50 MW-class large capacity ESS in collaboration with Downing, the UK's leading power investment developer, to Southampton, UK. Moreover, the company is expanding its supply to other regions of the world, such as the US and South Africa.



Hyosung Heavy Industries' Energy Storage System (ESS)

Industrial Machinery PU

Expanding Hydrogen Fueling Stations and Developing Supply Technology

As the hydrogen economy emerges, Hyosung Heavy Industries is supplying gas hydrogen fueling systems in line with the expansion of hydrogen fuel cell vehicles and commercial hydrogen vehicles. Furthermore, it has won a public contest to build and operate six liquid hydrogen fueling stations. The company aims to pursue additional business opportunities by signing agreements with local governments and local transportation companies for liquid hydrogen infrastructure development. The company also intends to produce green hydrogen from renewable energy sources in Jeollanam-do region. To this end, it will construct two liquefied hydrogen plants with an annual production capacity of 10,000 tons each and install liquid hydrogen fueling stations in nine major areas of Jeollanam-do for green hydrogen storage and utilization.



Aerial View of a Liquid Hydrogen Station Installed by Hyosung Heavy Industries

Customization and Green Products

Hyosung Heavy Industries is a leading manufacturer of rotating machinery, such as motors, generators, and switchgears, as well as industrial machinery, such as chemical equipment and gas charging stations. The company has also developed a Shaft Generator Motor system, an eco-friendly technology-equipped hybrid propelling device in partnership with Daewoo Shipbuilding & Marine Engineering, for the first time in Korea and is expanding orders. As the eco-friendly, highefficiency ship market expands, the company intends to obtain national project orders for 2MW permanent magnet propelling motors and small capacity permanent magnet Shaft Generator Motor systems and gearboxes for fishing boats. The company will also lay the foundation to make inroads into the future electric propelling market.

Construction PU

Stable and Profitable Project Orders

Hyosung Heavy Industries leverages its financial stability and brand value to focus on highly profitable housing / construction / redevelopment private sector projects. It also enhances its product standards by incorporating customer feedback through active VOC activities, such as exterior design and floor plan development. Moreover, it has expanded its presence in the public sector by participating as a preferred bidder for national key industries, such as the GTX-C business, in 2021.

Strengthening New Growth Engines

Hyosung Heavy Industries used to participate as a construction company for simple subcontracting projects, but from 2023, it aims to launch new projects by acquiring the ability to promote its own development projects. It also plans to enter the housing business and logistics center business in Vietnam, where Hyosung have already established a market presence.



Jinsa-ri Hyosung Harrington Place

Hyosung Advanced Materials

Making Customers' Safety and Happiness the First Priority by Delivering the Best Advanced Materials

Hyosung Advanced Materials produces high-strength industrial yarn, fabric, and steel wires that have various applications in industries such as automotive, civil engineering / construction, agriculture, and military products. Hyosung Advanced Materials is a global leader in the production of automobile seatbelt yarn and airbag fabrics in addition to tire cords. In order to sustain and enhance its competitiveness, the company is committed to the development and commercialization of new materials that promote sustainable growth.

General Information

| Company name | Hyosung Advanced Materials Corporation |
|-----------------------|---|
| Date of establishment | June 4, 2018 |
| CEO | Yongsoo Cho |
| HQ location | 119 Mapo-daero, Mapo-gu, Seoul, Republic of Korea (Gongdeok-dong) |
| Key business areas | High-strength industrial yarn and fabrics, steel wire materials, etc. |



Financial Performance





* On a consolidated basis

ESG Management Performance



KCGS ESG Rating













Business Divisions

Tire & Industrial Reinforcements PU

- Production of reinforcing materials for tires, including tire cords, steel cords, and bead wires
- No. 1 global market share for polyester tire cords
- Supplying 51% of car tires in the world as of the end of 2022

Technical Yarn PU

- Production of industrial high-strength yarn used extensively in construction, civil engineering, automotive, transportation, and industrial sites
- No.1 global market share for seat belt yarn as of the end of 2022

Interior PU

- Production of carpet yarn, and automotive and commercial carpets
- Asia's only carpet manufacturer equipped with its own production facilities for the entire manufacturing process, from raw materials to finished products
- No.1 market share in Korea for roll / tile carpets as of the end of 2022

Carbon Aramid PU

- Production of high-strength aramid fiber (ALKEX®), which was developed in-house with our own technology and commercialized in 2009
- Production of high-strength polyelastic carbon fiber (TANSOME®), which was developed with our own technology for the first time in Korea

Global Safety Textiles (GST)

- Production of airbag fabrics, airbag cushions, and One-Piece Woven (OPW)
- World's largest airbag fabric manufacturer, equipped with all processes required to produce air bag fabrics and cushions
- Close partnership with leading global Tier 1 companies

$\hat{\Box} = 12$

Hyosung Advanced Materials

Tire Reinforcements PU

Korea's First, World's No. 1 in Tire Reinforcements

Hyosung Advanced Materials pioneered the production of nylon tire cords in Korea in 1968, followed by successfully producing polyester tire cords, steel cords, and bead wires. The company developed a system for integrated production and supply of tire reinforcements, becoming a global company. Especially, polyester tire cords are highly regarded for their optimized quality and technological excellence that enhance customer value, which maintains the No.1 in market share. Hyosung Advanced Materials has devised and executed a roadmap for shifting to eco-friendly materials in accordance with the market and customer needs

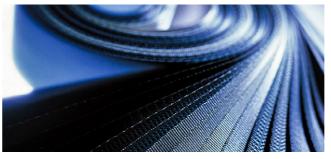


Tire cords

Technical Yarn PU

Versatile Industrial Yarn Production

Hyosung Advanced Materials' industrial nylon 66 and polyester yarns are used for seat belts, airbags, and sewing threads. The company produces industrial yarns in China and Vietnam for various purposes such as construction and civil engineering, focusing on seat belt yarn for automobiles, which is the world's No.1. It expects to achieve continuous growth through consistent technological innovation and investment.



Carbon Aramid PU

High-performance New Material, TANSOME®

Hyosung Advanced Materials' carbon fiber TANSOME® helps mitigate carbon emissions by improving fuel efficiency due to reduced weight of vehicles. Thanks to its high-strength and stability, TANSOME is used in various industries. Especially, as it is applied to CNG and hydrogen highpressure cylinders in the green energy industry, demand for it is expected to steadily increase. Hyosung Advanced Materials has increased its annual production capacity to 9,000 tons through three successive expansions from 2020 to April 2023, sustaining its growth.



Carbon fiber, TANSOME®

Interior PU

Swan Carpet, Equipped with Complete Production **Facilities from Yarn to Finished Products**

Hyosung Advanced Materials is the only carpet specialist in Asia that has its own production facilities encompassing from yarn to finished products. Its commercial carpets have the best reputation in Korea and its automotive carpets have a strong presence in the global market. Leveraging its technological expertise of mass-producing polyester tufted carpets for the first time in the world, Hyosung Advanced Materials is continuing its successful journey by penetrating the US and Chinese automobile markets.

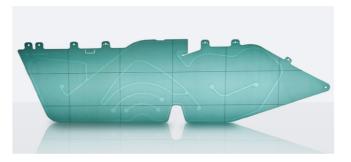


Automotive carpets

Global Safety Textiles

World's Largest Airbag Fabric Manufacturer

Hyosung Advanced Materials maintains close cooperation with the world's major automobile manufacturers and produces fabrics for airbags, cushions, and One Piece Woven (OPW). As of the end of 2022, the company had the largest market share in the global airbag fabric market. It has the entire process required for producing airbag fabric and cushions, which enables it to supply a wide range of products that can meet the needs of each client. With technology accumulated over a long period of time, it accurately identifies customer needs and provides airbags with the best quality and technology.



One Piece Woven (OPW)

Super Fiber, ALKEX®

Hyosung Advanced Materials successfully commercialized aramid fiber, ALKEX[®], which was developed with its own technology in 2003. Since then, the company has extended its application to bulletproof, automobile rubber reinforcement, and industrial use, offering various differentiated products. Hyosung Advanced Materials is continuously striving to increase the value in use of ALKEX by providing solutions to meet the needs of various customers.



Aramid fiber, ALKEX[®]

Hyosung Chemical

Delivering Convenience in Daily Lives through Hyosung Chemical's Technologies

Hyosung Chemical offers a variety of products, including polypropylene (PP), high-purity terephthalic acid (TPA), industrial / packaging / optical PET film and nylon film, and NF3 and TAC film used in the advanced semiconductor and display industries. Polyketone, which was successfully commercialized for the first time in the world, is a new eco-friendly ENPLA material, and is attracting attention as a key material that will lead the global components / parts industry.

General Information

| Company name | Hyosung Chemical Corporation |
|-----------------------|---|
| Date of establishment | June 4, 2018 |
| CEO | Kun-Jong Lee |
| HQ location | 235, Banpo-daero, Seocho-gu, Seoul, Republic of Korea (Banpo-dong) |
| Key business areas | Chemicals, etc. |



Financial Performance





* On a consolidated basis

ESG Management Performance



KCGS ESG Rating



CDP Climate Change Score



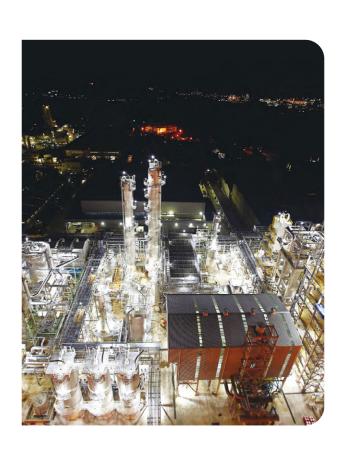
Certified as a family-friendly



CSR in the Community



Member of the Korean Red Cross Honors Club



Business Divisions

| | Chemica | Film I | Division | | |
|---|--|--|--|--|--|
| PP/DH PU | TPA PU | Neochem PU | POK Business Division | Film PU | Optical Film PU |
| Globally competitive polypropylene, TOPILENE Currently in operation with the annual capacity of 0.6 million tons since Hyosung Vina Chemicals was established | TPA (Tere-Phthalic Acid) used as a main raw material for polyester fiber / film, tire cords, and PET bottles | Developed NF3 used in high-tech industries, such as semiconductors, displays, solar cells, and developed D2 capitalizing on its own proprietary technology Possessing various specialty gas portfolios (NF₃, 20%F₂/N₂, D₂, Cl₂, HCl, N₂O, etc.) | POKETONE™, a polyketone brand based on a new, eco-friendly ENPLA material Harmless to human body, exhibiting abrasion resistance, chemical resistance, fuel resistance, and gas barrier properties | PET / nylon film brand, Filmore® widely used for packaging, and industrial and optical materials | Producing TAC acryl films that protect the PVA film used in TV, monitors, and smartphones No. 3 in the global market* for TAC (TAC: Tri-Acetyl Cellulose) Source: Japanese firm, Yano Economic Research Institute's 2023 Annual Report on the Polarizer and Subfilm Market |

Company Overview

Hyosung Chemical

PP/DH PU

Product Line-up Focusing on Specialized Products and Market Expansion

Hyosung Chemical operates its polypropylene product line with a focus on unique and specialized products based on self-produced propylene, and strives to increase customer value by supplying products for a variety of applications, including pipes and medical packaging materials. The company continues to identify new market demands for PPR pipes and is developing new markets and clients through web seminars and local seminars in India.



PPR pipe

TPA PU

Production of PTA, High-performance Polyester Textile Raw Material

Purified Terephthalic Acid (PTA) is used as the main raw material in highperformance polyester textiles. Its demand is increasing not only in the field of textiles, but also in applications such as packaging films, PET bottles, packaging materials for beer and milk, tire cords, paint, and glue. Hyosung Chemical is also striving to conserve the environment by developing clean process technologies, operating high-end pollution protection facilities, and carrying out activities to reduce environmental pollutants.



TPA

Film PU

Development of Films for Various Uses

Using Polyethylene Terephthalate (PET) and NYLON (PolyAmide6) materials, Hyosung Chemical manufactures high quality products optimized for each application, ranging from packaging and pharmaceutical films that are widely used in daily lives to industrial optical films used in mobile products, windows, TVs, and tablets.



Applications: 1. Food packaging 2. Pharmaceuticals 3. Windows 4. Optics

Neochem PU

Development of Special Industrial Gas in Response to Customers' Needs

Hyosung Chemical produces NF_3 , as well as 20% F_2/N_2 , which are special gases used in the manufacturing process of semiconductors and displays. The company is expanding its market presence through the commercialization of deuterium (D_2) gas and other high-purity gas products (CI_2 , HCl, N_2O), developed using its proprietary technology. It is committed to continuously diversifying its product portfolio.



POK Business Division

Production of the New Material ENPLA POKETONE

POKETONE is a material that is harmless to the human body and has no harmful substances. It has acquired FDA certification and green certification, boasting excellent performance in terms of chemical resistance, impact resistance, and abrasion resistance. It is widely used in the making of food-contacting conveyors, packaging materials for cosmetic products, and toys for babies. Further, its application is being expanded to automotive connectors, electric/electronic gears, and crude oil mining pipes.



Optical Film PU

Development of TAC Film for Polarizer and Application in Next-generation Display Products

The Optical Film PU is the only manufacturer in Korea to produce TAC (Tri-Acetyl Cellulose) film that protects the PVA polarizing film inside LCD polarizers, which are fitted into TVs, monitors, and laptops. The products, which adhere to high quality standards, are utilized in coating and OLED applications. In an active response to the rapidly evolving display market, the company has promptly entered and expanded into the vehicle display sector, a new market.



Nitrogen trifluoride (NF₃)

POKETONE

OVERVIEW — ESG AT HYOSUNG — FOCUS ISSUES — ESG MANAGEMENT — ESG PERFORMANCE — APPENDIX

Five Themes of RE:GEN

ESG Management Strategy

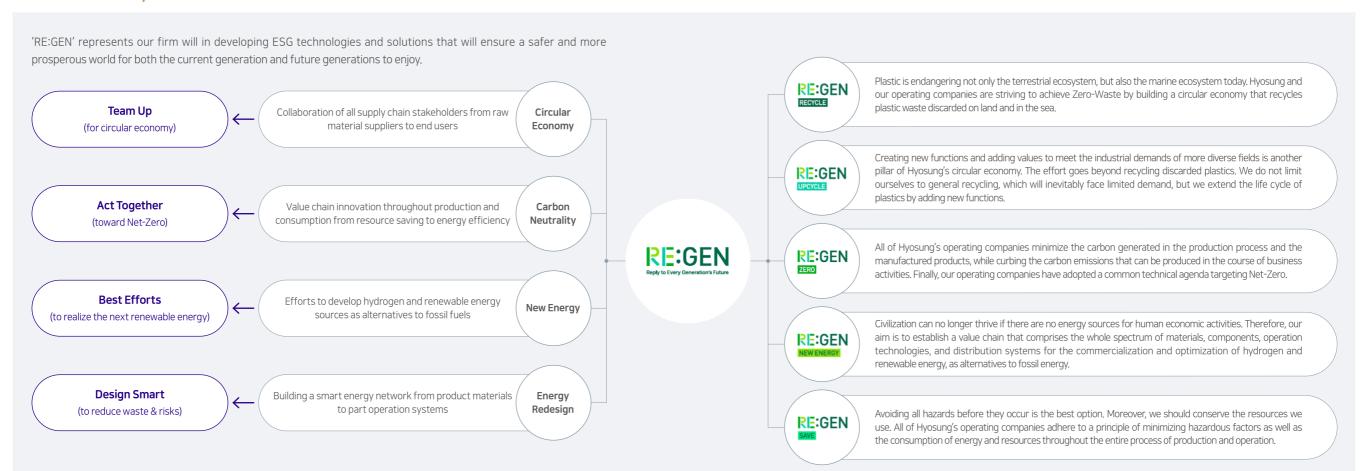
FReply to Every Generation's Future, RE:GEN ...

Our ESG Brand, RE:GEN

Hyosung considers ESG to be the foremost criterion for the Group's management and the future success of our operating companies. In 2022, we launched our new ESG brand, "RE:GEN-our commitment for the future of every generation", with the goal of encouraging greater participation and promoting the spread of ESG. RE:GEN represents our unwavering determination to address the global challenges facing the current generation and to develop ESG technologies and solutions that will ensure a safe and prosperous world for future generations to enjoy.

Our commitment to ESG extends beyond mere declarations and good faith practices. We are dedicated to making tangible efforts to expand the consensus on authenticity and to build an industrial ecosystem that fosters a virtuous cycle centered on ESG. By leveraging our accumulated business and technological competencies, we strive to make a meaningful impact. Our ESG brand, RE:GEN, embodies our reply to the sustainable future of every generation, both today and tomorrow.

RE:GEN's ESG Identity



ESG Management Strategy

Reply to Every Generation's Future, RE:GEN

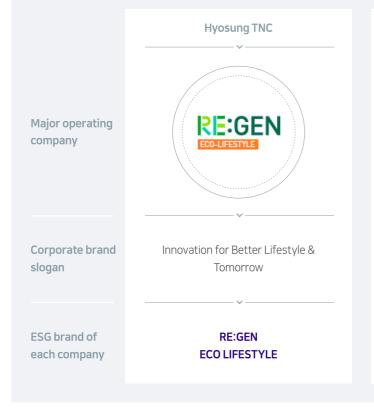
RE:GEN's ESG Ecosystem Created Together

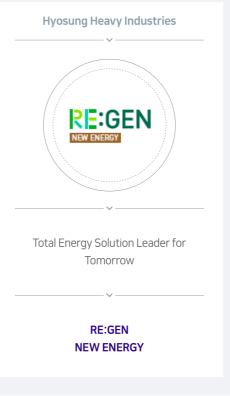
Based on the ESG brand RE:GEN, Hyosung is formulating and developing plans to disseminate the will of each operating company and external partners. With an aim to make it as a practical ESG brand, we will enhance marketing and communication activities so that more products can incorporate ESG values, embedding them in the daily lives of more customers and end users.

Supporting the purpose of the Group's ESG brand, RE:GEN, Hyosung's major operating companies established each company's ESG brand vision and goal, the essence, which is customized to each company's business characteristics based on RE:GEN. Each ESG brand is also aligned with the brand vision of each operating company so that ESG is at the heart of the business. By doing this, the business

activities of operating companies can incorporate ESG activities. Hyosung avoids a superficial approach to ESG, and through branding, we are making efforts to disseminate RE:GEN throughout society more widely with partners who share the same vision. This is a framework in which all operating companies implement in-depth ESG in their business by each theme. Through this, Hyosung's ESG brand 'RE:GEN' aims to become a new growth model for humanity by advancing technology development and product expansion to build a more eco-friendly and sustainable world, and simultaneously facilitating the spread of goodwill both internally and externally. This will soon become a shortcut to the realization of the 'ESG ecosystem.'

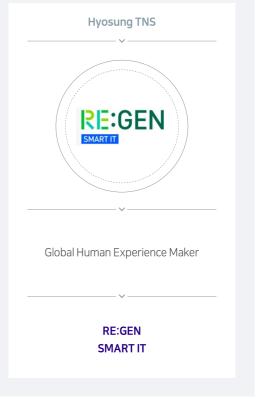
RE:GEN Brands by Operating Company











ESG Management Strategy

[®] Reply to Every Generation's Future, RE:GEN _■

RE:GEN ALLIANCE "Companion for All Generations" RE:GEN ALLIANCE "Companion for All Generations" ALLIANCE

RE:GEN ALLIANCE is a collaborative initiative that aims to promote the social adoption of ESG principles, enhance the ESG performance of various sectors, and create mutually beneficial business outcomes with eco-friendly SMEs who share Hyosung's vision and values. RE:GEN ALLIANCE supports the growth of its participating companies by endorsing them as a trustworthy brand. The participating companies aspire to make ESG a criterion for future consumption by offering their products and solutions that embody ESG values as alternatives for end users. Hyosung aims to invest in RE:GEN as a pragmatic platform for the early establishment of the Alliance and expansion of the customer base by increasing the credibility, sincerity, and attractiveness of RE:GEN. Participating companies play a role in disseminating more social values. Consequently, it is anticipated that the scale of the Alliance will further enlarge through mutual cooperation, and social performance based on ESG will augment throughout the value chain.

By 2023, we aim to establish an alliance with about 15 SMEs that produce outstanding eco-friendly products, such as HARLIE K and 119REO, and continue to enlarge it. Through RE:GEN ALLIANCE, we will endeavor to disseminate more ESG values built on the value of 'Companion for All Generations,' working to extend the ESG ecosystem to all corners of society.

Aligning to have a consistent direction Strengthening the RE:GEN brand and Organizing marketing events to while maintaining the unique areas of products by transforming them into a motivate consumers to pay more the products of the ALLIANCE brand with meaningful awareness attention to ESG products participants Support through A concerted direction Expansion of touch Umbrella Campaign for co-branding points and scale

RE:GEN GUARDIAN "Companion for All Species"

Hyosung recognizes the significance of conserving the Earth's ecosystem. Therefore, we have initiated more specific and intensive projects for restoring and protecting biodiversity and ecosystems, such as 'marine forest,' since 2022. We are aware that biodiversity can be jeopardized by the escalation of human activities, and that this can pose a risk to the survival of humanity as well.

The motivation for creating RE:GEN GUARDIAN is that these activities transcend a simple biodiversity program, and aspire to the level of 'restoring and protecting the rights of all species and the ecosystems' as the group's philosophy, and to establish them as ongoing Group activities. Hyosung considers RE:GEN GUARDIAN as a symbol of the value of 'Companion for All Species' and endeavors to restore even a small part of the global environment, covering the sea, land, rivers, and air quality, to a better condition. We embrace all generations of humanity in these efforts.

Current Initiatives for Safeguarding the Ecosystem

Hyosung and its major subsidiaries' current initiatives for ecosystem preservation, including biodiversity conservation

Company-wide activities

'Online education on climate change and biodiversity'
'One Company, One River cleanup activity'

Advanced materials

'Jeonju pogostemon conservation project'
'Adopt-A-Beach (Yongyu Beach) protection activities'

Advanced materials + Chemicals

'Plogging alongside Mapo Han River'

Chemicals

'Behavioral enrichment'

Enhanced and Focused Activities for Biodiversity Conservation, Such as Seagrass Marine Forest Preservation

The comprehensive biodiversity and ecosystem restoration and preservation project, starting from Seagrass forest management in 2022

Hyosung Corporation + Hyosung TNC + Hyosung Heavy Industries

Seagrass marine forest management project: Habitat protection for marine protected organisms

November 2022

Company-wide activities

Seagrass marine forest restoration project: Restoration for marine protected organisms 2023

Hyosung Heavy Industries

Wetland conservation activities: Wetland cleanup activities and creation of rest areas 2023

ESG Highlights



•Hyosung Advanced Materials obtained ISCC PLUS certification

•Hyosung Chemical acquired GRS and RCS certifications

for the first time in the tire cord industry



Social

Contribution to Shared Growth Fund

• Supported SMEs(Small&Medium-sized Enterprises) and rural communities with KRW 10 billion investment in the Shared Growth Fund of KOFCA (Korea Foundation for Cooperation of Large&Small Business, Rural Affairs)

Enhancing Safety at Business Sites and Suppliers

- Identified and implemented measures to improve all business sites through external safety consulting
- •Hyosung Heavy Industries provided its suppliers with free consulting for the development of safety and health management system

Contribution to Local Communities

- •Recognized as 'CSR in the community' for four consecutive years
- •Hyosung Advanced Materials received a commendation from the Korean Ministry of Health and Welfare
- Supported local communities with products that incorporate Hyosung's eco-friendly technology (POKETONE tray, carbon fiber dryer, etc.)

Startup Open Innovation

 Hyosung TNC supported eco-friendly textile and smart textile startups with joint development of new products, equity investment, and others

Operation of Employee Mental Health Care Program

 Provided mental counseling, remote health and cultural support programs, and other services to enhance employee morale and alleviate stress due to heavy workload

Governance

Enactment and Revision of ESG Management Policies Including Company-wide Code of Ethics

 Enacted and revised policies related to employee behavior standards, including the Code of Ethics, human rights management, and anti-corruption policies

Implementation of Anti-corruption and Ethical Management

- •Hyosung joined the 'B.E.S.T. Forum CEO Pledging Ceremony' for four consecutive years
- •Hyosung Advanced Materials and Hyosung Chemical took part in the BIS Anti-Corruption Pledge Ceremony in 2022

Board Diversity and Expertise

- •Appointed female external directors since 2017
- Consisted of experts in management, law, accounting / tax, environment, energy, culture, society, etc.

Enhancing Shareholder Communication

• Disclosed performances and held the Non-Deal Road Show (NDR) for institutional investors in Korea and Asia on a regular basis



Operation of the ESG Management Promotion Committee under the BoD

• Set ESG-related objectives and reinforced the ESG system, including risk management

FOCUS ISSUES

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- **43** Customer Obsession

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Climate Change Response

UN SDGS LINKAGE





Why so important?

Climate change is a pressing global issue that requires a collective response from all humanity as the world is witnessing the rapid and devastating impacts of climate change. The Korean government has recently enacted the 'Framework Act on Carbon Neutrality and Green Growth for Coping with Climate Crisis,' which seeks to increase the capacity of society and the environment to adapt to climate change and to facilitate a transition to a carbon-neutral economy. As the government policies on climate change exert more influence, it is essential to devise and implement a thorough response strategy.

Our Approach

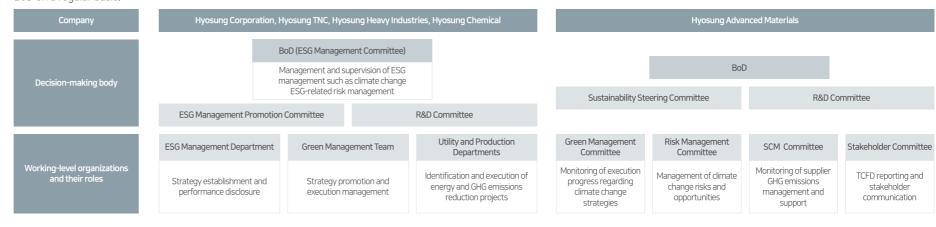
As a global company that operates in industries that have a significant impact on climate change, such as textiles, chemicals, industrial materials, and heavy industry, Hyosung is committed to various initiatives throughout its management to reduce its GHG emissions. In this regard, all operating companies have adopted the carbon management system in accordance with the TCFD recommendations, participated in CDP, and disclosed their carbon information since 2021.

Our Achievement

| Hyosung | > | GHG emissions reductions compared to 2018 level 9,2% |
|----------------------------------|-------------|---|
| Hyosung TNC | | GHG emissions reductions compared to 2018 level 26.8% |
| Hyosung Heavy Industries | | GHG emissions reductions compared to 2018 level 30.2% |
| Hyosung Advanced Materials | | Establishment of Scope 1, 2, 3 inventory for all global business sites |
| Hyosung Chemical | | Reduction of 25,592 tons of GHG emissions annually by using waste incineration heat energy compared to the emissions levels using LNG |

Governance for Climate Action

Hyosung Corporation has established the ESG Management Committee within the board of directors (BoD) to address climate change at the corporate level. The operating companies handle climate change issues through the ESG Management Promotion Committee and the R&D Committee, which are the highest decision-making bodies under the CEO. They report major agenda items to the BoD on a regular basis.



Key Agenda Items Discussed at ESG Management Promotion Committee in 2022

| Category | Key Agenda Items | | | | |
|-------------------------------|---|--|--|--|--|
| Hyosung Corporation | Sales of Certified Emission Reductions (CERs), development of a system for calculating product footprint, and resolution in favor of declaration of endorsement of TCFD and expansion of sustainability reporting scope (ESG data including GHG emissions emitted by its subsidiaries | | | | |
| Hyosung TNC | System for calculating product footprint Consulting aimed at helping its suppliers sharpen their capabilities to manage energy consumption and GHG emissions Report on its GHG emissions reduction progress made at its domestic business sites, disclosure of its overseas business sites, environmental data, and expansion of its in-house campaign for regen, etc | | | | |
| Hyosung Heavy Industries | Declaration of its support for TCFD, GHG emissions data, environmental investment plan and performance, and report on activities to promote biodiversity | | | | |
| Hyosung Advanced Materials | Report on risks posed by climate change, and resolution for plans to set and submit SBT to the SBTi | | | | |
| Hyosung Chemical | Operation of a TFT for GHG emissions reduction and identification of measures to GHG emissions reduction, participation in CDP and declaration of its support for TCFD, responses to demand from its customers for carbon data disclosure, and consulting aimed at helping its suppliers sharpen their capabilities to manage energy consumption and GHG emissions | | | | |

Board Functions

Our Board of Directors (BoD) and ESG Management Committee are responsible for deliberating on ESG-related policies, establishing related goals, managing risks, and developing investment and action plans. Our board includes outside directors from diverse backgrounds and with expertise in various fields, allowing for in-depth discussions and management of climate issues. For example, a former Minister of Environment served as a member of Hyosung Corporation's ESG Management Committee as a climate change and energy expert until March 2023. In April 2023, a former Minister of Trade, Industry, and Energy joined us as an outside director.

Top Management

The ESG Management Promotion Committee, under the supervision of the CEO, oversees not only the environmental, safety, and health aspects, but also the social and governance aspects of the company. It operates on a quarterly basis and selects major agenda items to be submitted or reported to the BoD. The R&D Committee is joined by the CEO and the management, and it operates on a semiannual basis to establish R&D strategies that reflect the opinions of climate change-related departments, such as sales, marketing, development, and research.

Working Organizations

The dedicated organization consists of the ESG Management Department under the CEO and the Green Management Team under the Strategy Division, and is responsible for establishing climate change strategies, managing implementation, and disclosing performance. Onsite utility and production departments are charged with reducing energy usage and GHG emissions.

Operating Companies

Hyosung has established dedicated organizations for ESG management and climate change in each operating company to address the global challenge of climate change.

Hyosung TNC, Hyosung Heavy Industries, and Hyosung Chemical have formed the ESG Management Promotion Committee under the leadership of the CEO, and they submit or report major agenda items from the committees to the BoD.

Hyosung Advanced Materials operates both the Sustainability Steering Committee and subcommittees for each sector to deliberate on climate change issues, and they present and report major agenda items to the BoD.



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Climate Change Response

Climate Change Response Strategy

Climate change has a significant impact on the industry, causing substantial social and economic costs, such as raw material and supply chain risks, which translate into corporate financial risks. Against this backdrop, Hyosung has established a strategic system that enables proactive responses to climate change risks by identifying and evaluating risk and opportunity factors based on the climate risk classification system included in the TCFD recommendations. We have assessed the transition risks, physical risks, and opportunity factors that companies face due to climate change, and we have determined the financial impact of each factor on our business activities.

Transition Risks

Transition risks are the risks that arise from the shift to a low-carbon society, such as policy and regulation, market, technology, and reputation risks. We have estimated the financial impact that companies have to bear as a result of these risks, such as the costs incurred to achieve the low-carbon transition, the uncertainty in the market, and the expectations of stakeholders to response climate change.

Physical Risks

Physical risks are the risks that stem from the physical impacts of climate change. They are categorized into acute risks, such as heat waves, floods, and forest fires, and chronic risks, such as rising average temperatures and sea level rise. These risks pose a high threat of direct damage to business sites, such as the loss of production facilities and the disruption of operations, due to the increase in extreme weather events and long-term changes in climate patterns.

Opportunity Factors

Climate change presents not only risks, but also opportunities for creating new businesses and markets across industries. To seize these opportunities, we analyze the financial impact of each opportunity factor by classifying them into energy sources, products and services, and markets according to the TCFD recommendations and incorporate them into our response strategies.

Analysis of Climate Change Risks

| Cate | egory | Definition | Period* | Financial impact |
|---------------------|------------------------|--|----------------------|--|
| | Policy / regulation | Stricter carbon regulations such as the Emission Trading Scheme and the EU carbon border tax | | Increased compliance costs due to climate change policies, such as GHG emissions regulations, technology regulations, and carbon taxes Hyosung Corporation and operating companies are subject to the domestic emission trading scheme. The cost of purchasing emission credits shall rise due to the reduction of GHG emissions allocations and the increase in the proportion of paid allocation. Reduced industrial competitiveness and sales due to regulations on high-carbon emission industries Weakened price competitiveness due to product cost increase resulting from regulatory compliance |
| Transition risks | Market | Customer's demand for carbon reduction and eco-friendly product certification Increasing requirement for RE100 participation Uncertainty due to changes in supply chain and market environment Changes in consumers' preferences for eco-friendly products | Mid-to long-term | Increased risk of being excluded from bidding qualification pre-qualification (PQ) Decreased sales due to loss of order opportunities Reduced demand for high-carbon products Cost increase due to REC purchase and electricity cost rise Cost increase due to supply chain changes |
| | Technology | •Transition to eco-friendly and low-carbon technologies / products | Mid- to long-term | Increased technology investment costs for GHG emissions reduction facilities and energy-efficient equipment Increased investment in low-carbon technology R&D and process improvement Cost increase due to the adoption of low-carbon bio-based raw materials |
| | Reputation | •Stakeholders' request for climate change action and information disclosure | Mid-term | • Incurred investment cost and financial interest expenses in the case of non-compliance |
| Physical | Acute | •Increased and intensified extreme weather events, such as typhoons and floods | Short-term | Damage and disruption of production facilities Potential damage due to loss of finished products |
| risks | Chronic | Long-term changes in climate patterns, such as sea level rise and average temperature increase | Long-term | Increased heating and cooling costs for product quality control Disruption of operations due to flooding of business sites Relocation costs of business sites |

Analysis of Climate Change Opportunities

| Category | Definition | Period* | Financial impact |
|-------------------|---|----------------------------|---|
| Energy source | Growth of the hydrogen market due to the implementation of the national policy on hydrogen economy Growth of eco-friendly energy demand due to declarations such as RE100 and carbon neutrality | Mid- to long-term | Increased sales by developing new hydrogen business through intra-Group synergy Reduced investment or financing costs due to policy subsidies / incentives |
| Product / service | Growth of the recycled eco-friendly product market due to the promotion of the circular economy, such as recycling Growing market demand for carbon-reduced bio-based plastic materials | Short-term to long-term | Increased sales by developing recycled low-carbon products with a competitive edge Energy cost reduction by enhancing manufacturing process energy efficiency to lower carbon footprint |
| | Growth of new markets, such as carbon sequestration | Long-term | Market entry and sales increase due to business portfolio diversification |
| Market | Generation of additional revenue by participating in the emission trading system | Short-term | • Aligned with Korea's emissions trading, profits come from selling excess carbon credits equivalent to GHG emissions reductions |

^{*} Short-term (1-3 years), mid-term (3-5 years), long-term (5-10 years)

Climate Change Response Strategy

Hyosung has adopted 'Green Vision 2030' as a systematic framework to address the risks and opportunities arising from climate change, and has developed a 'mid- to long-term roadmap for climate change response' in 2022. Through Green Vision 2030, we have established four objectives; reducing GHG emissions, developing and expanding green technologies and markets, fostering an eco-friendly corporate culture, and enhancing the trust of our stakeholders. Based on these objectives, we have formulated and implemented company-wide strategies for climate change response.

To accomplish the strategies and objectives, Hyosung aims to systematically execute specific tasks such as establishing a GHG emissions inventory, conducting climate scenario analysis, and identifying reduction measures based on the company-wide mid- to long-term roadmap for climate change response. In 2022, we have created a GHG emissions inventory focusing on manufacturing subsidiaries and the parent company, and we aim to extend it to major subsidiaries by 2025 to improve the company-wide GHG emissions inventory.

Participation in Initiatives to Respond to Climate Change

To address climate change and collaborate with the global climate crisis, all four major operating companies, namely Hyosung Corporation, Hyosung TNC, Hyosung Heavy Industries, Hyosung Advanced Materials, and Hyosung Chemical, have declared to support the Task Force on Climate-related Financial Disclosures (TCFD). Furthermore, they participate in the Carbon Disclosure Project (CDP) to disclose carbon information. Hyosung Corporation and Hyosung Advanced Materials received the Carbon Management Sector Honors at the CDP Awards in 2020, Hyosung TNC received Special Award in 2021, and Hyosung Heavy Industries received Sector Honors in 2022 with an A-grade or higher score.





- Hyosung declared its support in 2022
- Hyosung Advanced Materials published its first TCFD report in 2022

Evaluation of climate change response activities



- \bullet Carbon Management Sector Honors at CDP Awards
- Hyosung Heavy Industries (Sector Honors) in 2022
- Hyosung TNC (Special Award) in 2021
- Hyosung Corporation (Sector Honors) in 2020
- Hyosung Advanced Materials (Honors Club, Sector Honors) in 2020

Green Management Vision 2030

An eco-friendly company that enhances and enriches quality of life for humanity

More than 14.5% of emissions reduction by 2030 compared to the level of 2018

GHG emissions reduction through external reduction projects, such as SDM*, in alignment with the new climate system

GHG emissions reduction by promoting energy saving activities at business sites and by expanding the introduction of renewable energy

Efficient GHG emissions management through the operation of an internal carbon asset management system and a calculation system for product carbon footprints

Risk hedging and opportunity discovery through the establishment of a climate risk and opportunity identification process

** CDP: Carbon Disclosure Project

* SDM: Sustainable Development Mechanism under the Paris Agreement

Market discovery and business expansion through green technology development

Pursuing low-carbon green growth through the expansion of renewable energy businesses such as hydrogen, photovoltaic, and wind power

Expanding eco-friendly technological capabilities such as vegetable oil-based transformers,

Novec Mixture Gas Insulated Switchgear , and plastic polyketones without harmful substances

Promoting circular economy products such as waste plastic bottles, recycled yarn from waste fishing nets, and recycled car mats

Developing new markets through technologies that increase energy efficiency, such as HVDC, STACOM, and carbon fiber (TANSOME®)

Facilitating eco-friendly corporate culture by establishing green infrastructure

Minimizing the impacts of environmental pollution by improving water quality and the air pollutant management system

Reducing water consumption through water recycling and reducing waste emissions through resource recycling

Continuous cooperation and mutual growth through energy-saving diagnoses and facility support for partners

Establishing eco-friendly infrastructure by increasing purchases of eco-friendly and green technology products Increasing stakeholder trust through transparent information disclosure

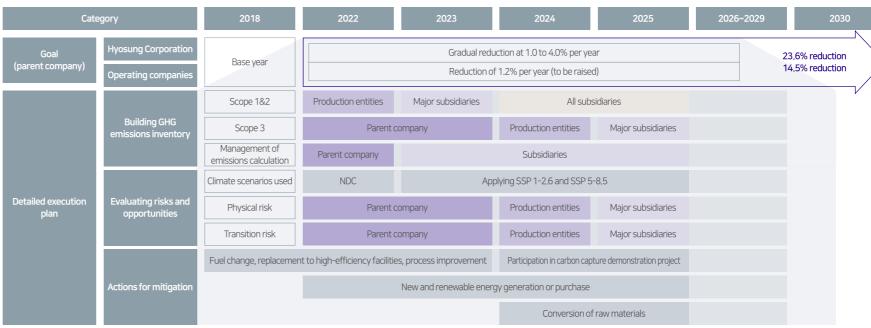
Establishing a green management system through the expansion of green and eco-friendly certifications

Building stakeholder trust through participation in CDP**, environmental information disclosure systems, and publishing sustainability reports

Voluntary participation in international initiatives on climate change

Clear communication with local residents and engagement in local nature preservation activities, such as the 'one company-one river / park / mountain' campaign

Mid- to long-term Roadmap for Climate Change Response



- *The above reduction targets are based on the corporate standards of each operating company.
- ** The above roadmap is subject to partial changes depending on the business situation of each operating company.

Climate Change Risk Management

Hyosung has devised and implemented a risk management process that can recognize and systematically address the risks and opportunities arising from climate change.

We review the risk management status annually to identify new risks and enhance the specificity of countermeasures. Major risks are reported to the ESG Management Promotion Committee to be assessed annually on the attainment of the countermeasure targets. In 2022, we detected major policy changes following the announcement of the draft of the Council of the European Union (March) and provisional agreement (December) of the EU Carbon Border Adjustment Mechanism (CBAM). We reported our analysis on business opportunities and risks as well as countermeasures in response to the changes to the management.

Going forward, Hyosung will persist in enhancing its risk management system to mitigate the adverse impact of climate change.

Climate Change Risk Management Process



Key Countermeasures against Climate Change

| Cate | egory | Period* | Countermeasures |
|------------------|---------------------|------------------------|---|
| | Policy / regulation | Mid- to long-term | Monitor domestic and international climate change policy / regulation trends and devise countermeasures Develop and implement action plans in accordance with the national 2030 NDC reduction target Establish a mid- to long-term reduction roadmap to achieve 2050 Net Zero |
| Transition risks | Market | Mid- to long-term | Conduct R&D on green products Obtain eco-friendly product certifications Build a database of customer VOCs and proactively incorporate them Increase renewable energy procurement through green premium rate system and purchase Renewable Energy Certificates (RECs) Diversify supply chain and continuously explore low-carbon raw material supply chain |
| | Technology | Mid- to long-term | Secure technology that can minimize GHG emissions based on recycling and bio-materials Advance the development of low-carbon products by measuring the carbon emissions of products throughout the life cycle |
| | Reputation | Mid-term | Formulate an eco-friendly response strategy Engage in various ESG assessments and disclose climate change response strategies Actively participate in information disclosure such as TCFD or SBTi |
| Physical risks | Acute | Short-term | Invest in complementary measures to cope with abnormal weather such as torrential rain (e.g., inundation barriers at workplaces, etc.) Conduct regular safety inspections within the workplace and establish a manual to prevent accidents Purchase disaster insurance Stock up on supplies in advance |
| | Chronic | Long-term | Install high-efficiency air conditioning and heating facilities Relocate business site to safer areas |
| | Energy source | Mid- to long-term | Meet the growing demand for eco-friendly energy through technology independence and business portfolio expansion, such as hydrogen production and storage Develop a mid- to long-term renewable energy use plan and conduct economic analysis for each renewable energy procurement option Obtain incentives through participation in government support projects such as the national carbon neutral support project |
| Opportunity | Product / service | Short-term to mid-term | Develop products using recycled and bio-based raw materials step by step Gain a competitive edge through Life Cycle Assessment (LCA) and product carbon footprint reduction Increase eco-friendly-certified products and support for certification of raw and subsidiary materials suppliers |
| | | Long-term | • Formulate and execute future new business plans to participate in projects, such as carbon capture and carbon sink |
| | Market | Short-term | Continuously conduct GHG emissions reduction activities |

^{*} Short-term (1-3 years), mid-term (3-5 years), long-term (5-10 years)

Climate Change Response

Activities to Respond to Climate Change

Hyosung is identifying and implementing measures to reduce GHG emissions through regular inspections at business sites in order to mitigate the climate impact caused by GHG emissions and comply with the government's policy on carbon neutrality and green growth. We are persistently advancing high-efficiency equipment replacement, process improvement, and introduction of low environmental impact equipment.

Introduction of High-efficiency and Low carbon energy Facilities

Hyosung Corporation's Anyang Plant upgraded old facilities to high-efficiency compressed air ones, lowered operating pressure, and adopted high-speed tufting machines in 2022, aiming to further reduce GHG emissions in 2023 by regulating pump inverters.

In 2022, Hyosung TNC enhanced unit efficiency by replacing the existing equipment that reduced 7K compressed air to 1K with a turbo blower dedicated to supplying 1K at its Gumi Plant, Its Ulsan Plant decreased power consumption by improving the efficiency of the heat exchanger boiler circulation pump.

Hyosung Heavy Industries' Changwon Plant cut down on power consumption by installing high-efficiency air conditioners within the plant in 2022. Moreover, an integrated management system is implemented for air conditioners installed in new buildings to avoid wasted energy such as emergency power saving.

In 2022, Hyosung Advanced Materials conducted power saving activities by reusing steam condensate heat sources in the recovery process and upgrading dryer facilities at the Ulsan Plant, and by lowering the amount of fresh air in the oxidation furnace at the Jeonju Plant. In 2023, the company plans to undertake activities such as reducing steam and electricity consumption through process improvement, integrated operation of waste heat recovery from incinerators, and purchasing external steam.

Hyosung Chemical devised a plan for mitigating emissions by 25 cases (reduction of 9,000 tons) in 2022 through quarterly carbon emission reduction TFT activities. In particular, the company is advancing energy efficiency improvement through investment in process facilities, and have implemented reduction projects such as enhancing the PP3 raw material recovery process and increasing the efficiency of operation of ECF auxiliary facilities.

Building Smart Factories

Hyosung has made smart factory construction one of the Group's management policies and is continuously improving the system. Smart factory connects all production-related resources in real time to the workplace and analyzes the collected data to create an optimized production environment. By building smart factories, the production yield can be enhanced by deriving the optimal operating conditions, and the GHG emissions can be reduced by lowering energy consumption.

Following the establishment of a smart factory in 2020, Hyosung Chemical achieved a total savings of KRW 14.9 billion by enhancing 23 cases, including production yield improvement and energy saving, during 2021 and 2022. In addition, Hyosung Chemical plans to save KRW 8.3 billion by improving 20 cases in 2023.

Expanding Renewable Energy and Carbon Capture

Expansion of Renewable Energy Use

Hyosung TNC

Hyosung TNC utilizes and consumes biogas by supplying the biogas generated from anaerobic digestion at the wastewater treatment plant to the boiler in order to increase the use of renewable energy within the plant. The company plans to use electricity produced in an eco-friendly way as soon as internal conditions for the use of new and renewable energy are established in the future.

Construction of Buildings Applying New and Renewable Energy Hyosung Heavy Industries

Hyosung Heavy Industries incorporates solar power generation facilities and fuel cell facilities when constructing buildings. The power obtained from the solar power generation facility is used for common parts of the building, such as elevators and parking lot lights, and the power obtained from the fuel cell facility is used for common parts and community facilities. In 2022, the company applied the facility in 'Harrington Tower Gwangan The Ocean.'

Increasing the Adoption of Solar Power Generation Facilities

Hyosung Advanced Materials installed photovoltaic power generation facilities in its Songpa S Tower in Korea and its sites in Jiaxing, Qingdao, and Changshu as part of its efforts to supply new and renewable energy. The Jiaxing corporation in China has been investing in increasing its solar power capacity since 2022 and is seeking to enhance its renewable energy portfolio.

Creation of Hydrogen Ecosystem and Carbon Capture Projects Hyosung Chemical

Hyosung Chemical is working to create a domestic hydrogen ecosystem in cooperation with the Linde Group, a world-class gas company. A new liquefied hydrogen plant with an annual production capacity of 13,000 tons will be built within Hyosung Chemical's Yongyeon Plant by 2023 together with Hyosung Heavy Industries and Linde Group. A pilot facility with CO2 cooling separation technology, which uses liquid nitrogen to separate CO₂ from flue gas, will also be installed at the Yongyeon Plant. The feasibility of carbon capture performance will be verified by initiating a test run from May 2023. The company plans to review the feasibility of the wet amine CO₂ capture process technology on a scale of 100,000 tons per year in the mid- to long-term.

Raising Awareness of Climate Change

Educating Employees on Climate Change

With the aim to help our employees better understand climate change, we provide annual education through our in-house online learning site. In 2022, we used a video made by the Biodiversity Foundation on the theme of 'climate change and biodiversity' to educate our employees. In February 2023, an external expert gave a lecture on 'corporate strategies in the face of the climate crisis and the net-zero era.' For new hires, we offer a course called 'companies and ESG management' to train them on climate change and carbon neutrality. We also offer various educational courses tailored to each department's needs, such as policies related to the emission trading system and CBAM, and LCA calculation.

Raising Awareness of Climate Change among Stakeholders

Hyosung has been actively promoting eco-friendly awareness through various contests and projects. Starting in 2014, we launched a contest for start-up ideas in the field of carbon fiber. This was followed by a series of contests, including one for college students to share their eco-friendly ideas from 2017 to 2019, an in-house contest for ideas on reducing GHG emissions and energy consumption in 2021, and an open innovation project in 2022. We are committed to continuing our efforts to engage multiple stakeholders in green management initiatives.

Environmental Management Campaign at Construction Sites Hyosung Heavy Industries

Hyosung Heavy Industries has consistently implemented Environmental Management Campaign to reduce GHG emissions at each construction site, such as banning vehicle idling, switching off lights during lunch breaks, and powering down unused PCs and monitors. It aims to enhance its participation rate by creating and disseminating posters in the near future. Furthermore, field officials at each site undergo environmental training organized by the head office, engage in clean-up campaigns on site, and participate proactively in environmental conservation activities.

Specialized Education on GHG Emissions

To enhance the effectiveness of GHG emissions reduction at business sites, the person in charge of the site is provided with education on the methodologies and technologies for mitigating GHG emissions. To sharpen the practical skills of the person in charge, Hyosung Chemical offers internal training on topics such as reduction plan guidelines and procedures. Hyosung Chemical also enlists external consulting firms to deliver professional training on specialized topics, such as reduction cases from other companies, reduction methodologies, and feasibility assessments for internal reduction plans.





Climate Change Indicators and Goals

As a global company that operates in businesses affecting climate change, such as textiles, chemicals, industrial materials, and heavy industries, Hyosung aims to minimize its impact on climate change by setting and monitoring GHG emissions reduction targets for each business unit. To align with the industrial sector goals of the Nationally Determined Contributions (NDC) announced in 2021, we established the GHG emissions quantitative target of 'Green Management Vision 2030' as a 14.5% reduction (1.2% annual reduction) compared to the level of 2018 emissions. Moreover, in April 2023, Hyosung Corporation further raised our target to 23.6% reduction by 2030 compared to the 2018 level. Taking into account the characteristics of each industry sector and SBTi membership, and other factors, we are considering gradually raising our goals to even more ambitious reduction targets for each operating company. On top of that, in the long term, we plan to implement reductions in accordance with the government's 2050 carbon neutral policy.

Aiming to achieve the reduction target, Hyosung has annually devised and executed a facility investment plan for energy reduction. It formulates a mid- to long-term reduction plan in all relevant departments, such as planning, research, production, and power generation, followed by reporting it to the ESG Management Promotion Committee and the Board of Directors (BoD) on a regular basis.

For reductions that are challenging to achieve solely through internal energy saving efforts, we make efforts in a long-term perspective through building photovoltaic power generation facilities and purchasing domestic third-party PPA and REC produced with new and renewable energy. In addition, we will further pursue the direction to gradually increase the proportion of the application of new and renewable energy.

Internal Carbon Pricing

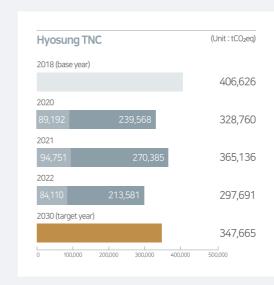
Hyosung has introduced and implemented the internal carbon pricing, which is a hypothetical cost of emitting GHG emissions, in order to manage climate change risks and seek opportunities by using it in strategic decision-making such as business direction and investment. The guidelines on carbon emission calculation and economic evaluation were distributed throughout the company, along with GHG emission calculators. Consequently, the company uses carbon prices by GHG emissions in economic feasibility analysis when applying excess and short of emission allowances according to the emission trading system, establishing energy consumption plans at business sites, and making facility investments.

Climate Change-related Employee KPI and Incentives

Hyosung has set energy reduction Key Performance Indicators (KPIs) for climate change-related production executives or plant managers and GHG emissions reduction KPIs for green management team members, and provides incentives based on their evaluation results. In order to embed ESG management in corporate culture, the ESG management KPI was decided for employees by the ESG Management Promotion Committee and the Board of Directors in 2021, and it has been implemented since 2022. Climate change indicators are evaluated for all executives (including C-Level) and teams related to energy and GHG emissions reduction, such as the ESG Management Team, Green Management Team, Production Team, and Power Team.

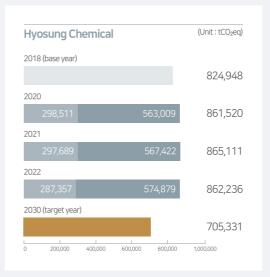
Carbon Emissions by Year and 2030 Target











- * GHG emissions were calculated based on the certified amount of carbon credit submitted. Yet, Hyosung Heavy Industries has been certified including emissions from construction sites since 2020, and the emissions in 2018, the base year, were voluntarily calculated and verified by a third party to correct emissions in order to apply the same organizational boundaries.
- ** The total GHG emissions of Scope 1 and Scope 2 reported in this document may differ from the total GHG emissions in the business report, which are calculated by rounding off the emissions by business unit to the nearest integer.
- **** The methodology for reporting total GHG emissions has changed from this year. Previously, total GHG emissions were reported as GHG emissions in business reports, but now they are reported as the sum of Scope 1 and Scope 2 GHG emissions. Therefore, the past emissions have been revised accordingly.

Green Business and New Growth Engine

UN SDGS LINKAGE











Why so important?

The global community is facing the urgent challenges of climate crisis and resource depletion, and is taking proactive measures to shift to a circular economy and a low-carbon society. To facilitate this transition, the international community is rapidly developing a legal framework to support early adoption. Furthermore, consumers are showing a growing interest and demand for low environmental impact products. Companies are not only complying with the environmental regulations, but also creating new green business models to enhance their reputation and brand value.

Our Approach

Hyosung is committed to reducing the environmental impact of its products and processes. We are pursuing technology development based on five themes: the vitalization of a circular economy based on the representative strengths of each business sector, the reduction of carbon emissions throughout the life cycle, the development of low environmental impact technologies, and the expansion of hydrogen and renewable energy sources. Through this, Hyosung will achieve sustainable growth by enhancing its environmental values.

Our Achievement

Hyosung Corporation Development of low environmental impact catalyst for polvester fiber

Received King Sejong's Award (patent technology award) from the Korean Intellectual Property Office

Hyosung TNC

Strengthening of green products in its portfolio

Released 'regen Ocean,' using a waste fishing net material
 Released bio-based spandex

Accumulated no. of registered patents

3,387

Hyosung Heavy Industries

Growing orders for low environmental impact products

- Received an order for KEPCO Bubuk S/S ESS

Hyosung

Chemical

PCR PP. PCR Film

Acquired the Global Recycled Standard (GRS) certification

Direction of Green Businesses

Hyosung is committed to providing a range of low environmental impact products and services that align with the five themes of RE:GEN, our environmental strategy system. Our aim is to contribute to the circular economy, global carbon reduction, renewable energy supply, and prevention of resource abuse. To achieve this, we are increasing our investment in research and development of green technologies and products, which will enable us to secure new growth engines for the future and achieve sustainable growth. Hyosung is aware of the increasing global demand for low environmental impact products and services, and strives to minimize environmental pollution throughout the product life cycle, from production to consumption and disposal. We also aim to offer products and services that reduce the use of natural resources and hazardous substances. Hyosung will continue to lead the way in tackling climate change and creating an low environmental impact business system by investing generously in low environmental impact products and technologies.



Hyosung TNC

☆ = 27

Promoting Green Business, Securing a New Growth Engine

Low Environmental Impact Products and Services

RECYCLE

RE:GEN

RE:GEN

Hyosung TNC

'regen Ocean Nylon', Recycled Fiber Made from Discarded Fishing Nets

Fishing gear, such as nets and fishing lines, accounts for approximately 46% of marine waste. Hyosung TNC is addressing this issue by collecting discarded fishing nets and using its technology to recycle them into nylon, creating a resource circulation model. The company works with local governments to collect abandoned fishing nets and remove impurities, improving their quality and transforming them into recycled regen Ocean Nylon yarn. In the coming years, Hyosung TNC aims to more than double its market share in the recycled nylon market by 2025.

Circulation Process for regen Ocean Nylon



'regen Nylon', Recycled Fiber Made from Reclaimed Waste

Hyosung TNC produces 'regen Nylon', a recycled fiber made from discarded nylon waste during the manufacturing process. The company uses its own technology to dispose of and recycle waste generated from the nylon-making process, Hyosung TNC has developed also developed a high-tenacity version of its regen Nylon called regen Robin Nylon developed for Outdoor brands seeking durable, eco-friendly bags and backpacks. This



Garment made from 'regen Nylon'

approach allows the company to repurpose waste materials into new products, reducing its reliance on petroleum resources and mitigating its carbon emissions. Hyosung TNC supplies various regen Nylon fibers to global fashion brands, helping them to participate in Circularity economic system.

'regen Polyester', Recycled Fiber Made from Discarded PET Bottles

Plastic waste is a major environmental issue that has garnered global attention. In response, Hyosung TNC has developed a recycled fiber called 'regen Polyester' that extracts and recycles useful ingredients from discarded PET bottles for the first time in Korea. This development of recycled fiber significantly reduces the amount of waste that goes into landfills and cuts CO_2 emissions by about 60% compared to traditional polyester fiber.

regen Polyester' Manufacturing Process



Obtaining GRS (Global Recycled Standard) Certification



The Global Recycled Standard (GRS) is a set of international criteria used to certify that recycled materials are used in the production of fiber materials or clothing. Products made from more than 20% recycled materials are eligible for GRS assessment. This assessment inspects all stages of production, from raw material sourcing to finished product manufacturing and sales, ensuring the continuity of management. Hyosung Corporation, Hyosung TNC, Hyosung Advanced Materials, and Hyosung Chemical have all received GRS certification for their main products.

Hyosung Chemical

Expanding the Range of Products with Recycling Certifications

Hyosung Chemical has received GRS certification for its products, including pellets that contain 100%, 70%, and 50% PCR (Post Consumer Recycled) polypropylene, as well as films made from PCR polyester materials. Additionally, its TAC films, which contain 40% and 30% recycled materials, have received RCS (Recycled Claim Standard) certification. This verifies that at least 5% of the product is made from recycled materials.



Hyosung Advanced Materials

Developing Recyclable Auto Parts in Line with Global Eco-friendly Policy

Hyosung Advanced Materials is working on the development of All-PET carpet for vehicles to meet the demand for environmentally friendly vehicles in the global automobile market. Unlike conventional products, all materials used in this product are polyester, and its fabric can be recycled into polyester chips after use. Currently, discussions are underway with Hyundai Motor Company and Kia to add this product as a registered



Tire cord made from recycled PET yarn

material and develop nylon products. Additionally, our recycled nylon car mats made from materials extracted from waste fishing nets have been applied to the Genesis RS4 model, and our recycled polyester product made from waste PET bottles has been used for the MV model, a mid-sized EV.

Broadening the Range of Products Made from Recycled Polyester

Hyosung Advanced Materials has developed a high-strength polyester yarn using materials derived from waste PET bottles. The company has also created a car mat made from recycled Bulked Continuous Filament (BCF), which is currently undergoing an approval process by customer companies. In addition, the company has expanded its portfolio of green products made from waste fishing nets or waste generated during the



Car mat made from recycled BCF

spinning or manufacturing process of recycled chip makers. Hyosung Advanced Materials plans to assess the mass production of recycled polyester and tire cords in 2024, with the goal of increasing the ratio of recycled polyester to 7% of its total products by 2030.

Promoting Green Business, Securing a New Growth Engine

Low Environmental Impact Products and Services

RE:GEN

Hyosung TNC

'regen Bio-Based Spandex', No.1 Global Bio-Based Spandex Brand

Fossil fuel-based spandex has been identified as a material that emits the largest amount of GHG emissions according to a carbon footprint assessment. To address this issue, Hyosung TNC was the first to successfully develop and globally commercialize biobased spandex made with plant-based materials (corn extracts). regen Bio-Based Spandex offers the same performance characteristics as our conventional CREORA spandex. This fiber makes it widely attractive for brands looking for materials made with other natural fibers and bio-based synthetics for all apparel and accessory needs. In addition, Hyosung TNC is developing bio-degradable fiber-making technologies to diversify its bio-based fiber product portfolio.

Obtained SGS ECO-Product Mark



With the objective to mitigate the environmental impact of its spandex products throughout their lifecycle, Hyosung TNC has obtained the SGS ECO-Product mark, a global certification for green products.

Hyosung Heavy Industries

Gas Insulated Switchgear Using a Substitute for Substances that Cause Global Warming

 ${\rm SF_6}$ gas is a GHG commonly used in Gas Insulated Switchgear. In response, Hyosung Heavy Industries has applied dry air, which has a global warming potential (GWP) of zero, and achieved an optimal insulation design. This has resulted in the creation of DAIS (Dry Air Insulated Switchgear) with exceptional functionality. Since 2013, this has positioned the company as a leading player in the domestic market. Additionally, the company has developed ultra-high-voltage GIS (Gas Insulated Switchgear) using green alternative gas, which is a green solution that emits 99% less GHG emissions.

Hyosung Heavy Industries

Obtaining Green Building Certifications and Establishing Green Landscaping

Hyosung Heavy Industries is committed to obtaining certifications for ecofriendly buildings and implementing green landscaping at construction sites, aiming to reduce energy consumption and environ-mental pollution throughout the entire process, from design and construction to maintenance and management. In 2022, two of buildings which the company completed received Excellent and Normal grades



Aquatic biotope in Taereung Harrington Place

from G-SEED, respectively. The company plans to obtain six more green building certifications. Additionally, Hyosung Heavy Industries has actively introduced biotopes, a type of green landscaping, mainly in large-scale construction sites. Biotopes were applied at three sites in 2022. The company will continue to focus on low-carbon and green construction to meet customers' demand for eco-friendliness. Efforts to discover green construction methods and building materials will continue in order to minimize its environmental footprint.

*Biotope: It refers to a space that provides an ecosystem where wild animals and plants can coexist. It is a type of artificial habitat created for living organisms in urban areas.

Hyosung Advanced Materials

TANSOME®, A Key Component in Reducing Automobile Weight

TANSOME® is an ultra-lightweight and high-strength material that is more than four times lighter and ten times stronger than steel. These properties make it ideal for use as a core component in the manufacture of lightweight vehicles, which improves fuel efficiency and reduces carbon emissions. The product is also known for its exceptional stability and functionality, making it suitable for a wide range of applications. In particular, it is now being used in the green energy sector, such as in high-pressure containers for fuel, an essential component for hydrogen use. The growing global demand for carbon neutrality is driving the growth of the energy sector, including hydrogen containers and wind power, as well as the light automobile sector. These sectors will drive the growth of TANSOME®.

Hyosung Advanced Materials

Low-carbon 'Lyocell Tire Cord'

Hyosung Advanced Materials is working on the development and production of a 'lyocell tire cord' made from cellulose extracted from wood. This new material aims to replace the rayon tire cord currently used as a reinforcement material for high-speed tires that need high-durability. The lyocell tire cord produces 30% less GHG emissions than rayon or nylon tire cords and releases fewer toxic substances (such as CS₂ and H₂S) during manufacturing, helping to prevent air and water pollution.



Lyocell tire cord

Launching Products Made from the Green Material Bio-PET*

To meet the growing demand for green materials, Hyosung Advanced Materials has developed a bio-PET for industrial use, made from bio-ethylene glycol extracted from plant-based materials. This product is being used in eco-friendly vehicles of Hyundai Motor Company, including the EV model IONIQ and the hydrogen car NEXO. The company also produces tire cords and car mats made from bio-PET yarn.



* Bio-PET: This green material is made from bio-ethylene glycol, which is derived from sugarcane and corn instead of petroleum-based ethylene glycol. The material is produced through a catalytic reaction and fermentation process.

ISCC PLUS Certification Obtained



Hyosung Advanced Materials has become the first tire cord provider to receive the ISCC PLUS certification. This international certification recognizes the company's use of environmentally friendly materials, such as bio- or recycled polyester, in its tire cord manufacturing process.

Promoting Green Business, Securing a New Growth Engine

Low Environmental Impact Products and Services REGEN







Hyosung Chemical

HYOSUNG POKETONE, A Low-Carbon, Eco-Friendly Polyketone Material

POKETONE™ is an eco-friendly engineering plastic that was first developed by Hyosung Chemical in 2013 using their proprietary technology. This product has a carbon footprint of 3.08 kg- CO₂eq per 1kg, which is lower than other similar products. This advantage has been verified through a Life Cycle Assessment (LCA). Additionally, POKETONE™ has been certified by multiple local and international certification bodies, including the United States Food and Drug Administration (FDA), for its non-toxicity and stability. In 2016, the product received a green certification from the Ministry of Environment.

Only engineering plastic where the backbone chain of the polymer is made entirely from carbon Highly crystalline and densely packed crystal structure Outstanding impact resistance, abrasion resistance, chemical resistance, fuel resistance, and gas barrier properties

Hyosung Chemical is focusing on the development of green products and technologies using POKETONE while expanding its use in a wide range of sectors such as engineering products including construction materials, automobiles, consumer goods, and leisure items. The company has set a goal of achieving KRW 130 billion in sales by 2025 and is working to develop products that can be applied in various industrial sectors.

Bio-based 'TAC Film'

In 2022, Hyosung Chemical's TAC film was certified in the 'Films: Semi-Durable (minimum biomass content: 45%)' category of the BioPreferred® program, which is led by the United States Department of Agriculture (USDA). In the coming years, the company will broaden the scope of eco-friendly materials.



Green Dip Solution Conducive to Reducing Toxic Chemical Use

— ESG AT HYOSUNG —

The final stage of the tire cord manufacturing process involves applying a chemical dip solution, made from a mixture of multiple chemical substances, to the semi-finished product and drying it with high heat. Hyosung Advanced Materials has developed an eco-friendly dip solution with the goal of making its manufacturing process more environmentally friendly. The company aims to reduce its use of hazardous chemicals during the process and has developed a dip solution that helps extend tire lifespan and reduce waste tire generation, without using formalin. Hyosung Advanced Materials plans to obtain certification for the commercialization of this eco-friendly dip solution.

Hyosung Chemical

Hyosung Advanced Materials

Development and Commercialization of Green Water Treatment **System**

Hyosung Chemical is actively addressing the issue of water scarcity caused by climate change through the development and commercialization of a membrane water treatment system and related technologies. A membrane allows necessary substances to pass through while filtering out unnecessary ones. Hyosung Chemical's membrane water treatment system uses hollow fibers with a size of 0.03µm. In 2012, the company developed 'submerged water treatment technologies' and obtained certifications for new environmental technologies for its products, including 'pressurized membrane filtration water treatment technologies' and a 'two-stage submerged water purification system'. Currently, the company holds two certifications. In 2022, Hyosung Chemical won contracts for three water purification projects and plans to provide clean and clear water using its new technologies.



Membranes for water purification

Hyosung Heavy Industries

Energy Storage Systems(ESS), The Core of New and Renewable Energy

An Energy Storage System (ESS) is an energy-saving device designed to store electricity when demand is low and release it when needed. As the use of renewable energy sources for power generation has increased both domestically and internationally, which has brought ESS in the spotlight as key equipment for the next-generation power and energy industry. Hyosung Heavy Industries is a leader in the global ESS industry, offering a full range of total solutions that encompass customized consulting, system buildup, and follow-up management.

Hydrogen Fueling Stations for the Next-generation of Zero-emission **Hydrogen Vehicles**

Hyosung Heavy Industries is the leading builder of hydrogen fueling stations in Korea. Since 2009, the company has constructed 25 gaseous hydrogen fueling stations throughout the country, with an additional 16 stations currently under construction. To increase the efficiency of hydrogen storage and delivery, Hyosung Heavy Industries has formed a joint venture with Linde to establish a liquid hydrogen plant and



Hydrogen fueling station for buses in Jangdeung, Gwangju fueling stations. HYOSUNG HYDROGEN(JV) has been selected to establish and operate a total of 6 liquid hydrogen fueling stations and has invested KRW 80 billion in building liquid hydrogen fueling stations for commercial vehicles. In the years ahead, the company plans to expand its business to include green hydrogen production in Korea, leveraging its extensive expertise in wind and solar power generation and energy storage systems.

In-house Development and Supply of Wind Power Generation Systems

Hyosung Heavy Industries has developed wind power generation systems with capacities of 750kW and 2MW, as well as a 5MW offshore wind power generation system, for the first time in Korea. To keep up with the growth of the domestic offshore wind power market, the company is currently working on establishing a joint venture that will operate a wind power generation system manufacturing business by 2023. This will enable the company to produce and supply ultra-large scale offshore wind power generation systems tailored to Korean conditions, such as low wind speeds and typhoons from 2024. In the years to come, Hyosung Heavy Industries will provide competitive products through securing ultra-large offshore wind turbines technologies, parts localization, and plant maintenance technologies that help customers achieve net-zero emissions.

Promoting Green Business, Securing a New Growth Engine

Green Business R&D Activities

Hyosung TNC

Securing Technologies of Manufacturing Recycled Polyester Chips

The NYPET Fiber Research Team has developed a technology to manufacture mechanically recycled polyester chips from discarded PET bottles. The process involves collecting, separating, cleaning, and crushing domestic PET bottles to recycle them into flakes. These flakes are then mixed with TiO₂, delustrant, before being pressed into chips. This technology allows for the production of post-consumer recycled polyester chips made entirely from domestic PET bottles. This recycled polyester fiber has increasingly expanded sales for uniforms in domestic government offices and workwear in semiconductor manufacturing, and it helps to reduce the dependency on imported waste bottles and mitigated CO₂ emissions, contributing to an improved environment.

Developing Pilot Technologies of Chemical Recycled Nylon

The NYPET Polymerization Research has developed a process to extract Nylon 6 caprolactam through a chemical recycling method. The resulting caprolactam is then polymerized and spun into nylon 6, which can be repurposed into clothing, bags and etc. At the Ulsan Plant, the company established a pilot facility to confirm the feasibility of mass production. This led to the construction of a new facility capable of producing 300 tons per month, which began operation in 2022. A carbon footprint calculation evaluation confirmed that post-consumer nylon reduces GHG emissions by 73% compared to conventional nylon.

Hyosung Heavy Industries

Developing and Demonstrating Technology for Bio Hydrogen Convergence Charging Station Fueled by Biogas

The Korean government is accelerating the supply of hydrogen fuel cells for vehicles, which is boosting the demand for the establishment of distributed hydrogen supply systems nationwide. In Chungju City, a pilot project is being run to operate a carbon-free hydrogen fueling station that uses biogases as raw materials instead of byproduct hydrogen derived from fossil fuels. Hyosung Heavy Industries has joined this project and worked with the Institute of Advanced Engineering to develop technology for designing the hydrogen fueling station. The station is supplied with biogases generated from the Chunqju Food Bio Energy Center through a pipe to produce green hydrogen. This is the first achievement of its kind in Korea. The station, with a capacity to produce 500kg per day, was completed in 2022 and is expected to go through a demonstration process before beginning commercial operation.



Chungju Bio Hydrogen Convergence Charging Station

▶ Investments in low environmental impact R&D Activities

Hyosung has scaled up its investment in R&D for green technologies in order to contribute to achieving net-zero emissions and minimizing environmental impacts through green and low-carbon innovative technologies. In 2022, we spent a total of KRW 14.7 billion on green R&D efforts, and investments have continued to be made. Going forward, Hyosung is committed to developing green technologies, exploring new green business opportunities, and diversifying its business portfolio.

Develop biodegradable polyester yarn, recycled polyester, and nylon materials

Hyosung TNC

Develop green materials and products (plant-based ones, etc.), and new and renewable energy products, and join projects on the establishment of hydrogen fueling stations

Hyosung Heavy Industries

Hyosung Advanced Materials

Develop technologies to apply sustainable materials (bio and recycled ones), and conduct R&D on fuel tanks for hydrogen vehicles / high-pressure containers / insulators for renewable

Hyosung Chemical

Develop parts for recycled polyester films and eco-friendly polyketone (carbon monoxide

*Hyosung R&DB Labs and the Power & Industrial Systems R&D Center under Hyosung Corporation undertake tasks such as R&D, patent registration, and filing based on a consignment service contract with the operating companies registration, and filing based on a consignment service contract with the operating companies

CASE

'Antimony (Sb)-Free,' An low environmental impact Catalyst Awarded King Sejong Prize at the Patent Technology Awards

In 2022, Hyosung R&DB Labs won the grand prize, the King Sejong Award, at the Korea Patent Technology Awards in recognition of its world-first development of an low environmental impact catalyst called 'Antimony (Sb)-Free' required for polyester fiber-making.

'Antimony (Sb)-Free' refers to an



Lead researcher, Performance Manager(PM) Cheon-Ki Kim, Hvosung R&DB Labs

environmentally friendly catalyst that replaces 'antimony' used in the production of polyester products. Antimony (Sb) is among eight hazardous heavy metals, and many local and overseas companies have attempted to develop a substitute for it, but have failed to commercialize it.

Antimony (Sb)-Free is a catalyst made from tin (Sn), which is not a toxic heavy metal that can harm human health and the planet. Hyosung began developing this catalyst in 2017 and completed mass production of the product in three years, in 2020. Using this catalyst has the advantage of reducing the amount of catalyst used by 1/10 compared to traditional methods, as well as curtailing plastic waste generated during the manufacturing process by more than 50%. Additionally, it contributes to improving the manufacturing process and product quality.

Hyosung R&DB Labs has implemented a policy to use Antimony (Sb)-Free in all polyester fiber-making processes starting from 2023. In response to the demand for green fiber from key customers, trial production has already begun. Additionally, the product is undergoing a patent registration process in the US, China, Europe, and India to expand its application in global markets. In the years ahead, it will be extended to polyester-based products made by Hyosung operating companies, including polyester tire cords that occupy the largest share (45%) in the global market, as well as other fibers for films and automobiles.

ESG AT HYOSUNG

$\hat{\Box} = 31$

Promoting Green Business, Securing a New Growth Engine

Green Business Diversification

Investment and Collaboration for a Greener Fiber Value Chain

With the objective of making the entire lifecycle of the fiber more environmentally friendly, Hyosung TNC has invested and collaborated across its upstream and downstream value chain.

As the part of the effort, the investment has been made in plant-based bio materials for commercialization to go greener in terms of using raw materials for spandex, nylon, and polyester products. Additionally, the team is collaborating with local startups that have technologies related to low environmental impact materials and products. Examples of these collaborations include working with PLEATSMAMA, a domestic fashion item maker that features our low environmental impact fiber, and with local startup Netspa, a high-quality chip maker for clothes that utilizes discarded fishing nets. The company has also invested in these startups.

PLEATS MAMA NETSPA

Roadmap for Transition to Sustainable Materials for Tire Cords

Hyosung Advanced Materials' tire reinforcement materials business division has been working to switch to sustainable materials. Starting in 2020, the company selected mixed plastic waste, including PET bottles, and pressed them into flakes in collaboration with its key suppliers. These flakes are then used to manufacture recycled polyester and tire cords. The recycled polyester tire cord, made from waste plastic and process waste, is a next-generation green product that contributes to reducing waste that ends up in landfills. With the goal of transitioning to 100% sustainable materials by 2050, the company will continue to maintain close cooperative relationships with customers and suppliers, and redouble its efforts to exchange data and jointly develop technologies, thereby leading the application of new materials.





Shaft Generator Motor, An Energy Solution for Vessels

Tighter global environmental regulations have boosted demand for Shaft Generator Motor(SGM), which are a solution for eco-friendly vessels and energy-saving. Hyosung Heavy Industries has developed Korea's first ecofriendly technology-equipped Shaft Generator Motor system with a capacity of 2MW, a green hybrid propelling device, in collaboration with Daewoo Shipbuilding & Marine Engineering, and has won more contracts. The company is also making every effort to lead the future electric



propelling market, including winning a contract for a national project on the development of eco-friendly vessel propelling motors in 2022. In addition, the company has developed a 5MW permanent magnet SGM for large-scale containers, reflecting VOCs from shipowners. This product is 2% more efficient than induction motors and is compact in size. Hyosung Heavy Industries will continue to actively meet the needs of customers for high-efficiency and green products.

Promoting Post Consumer Recycled Business Using Recycled Plastic Waste

The EU has made it mandatory to increase the rate of recycling plastic packaging mateirals to 30% by 2030. Many players in various industries have stepped up their proactive responses to these stringent regulations.

Hyosung Chemical has also made multifaceted efforts to secure various post-consumer recycled (PCR) feedstocks, develop technologies, and build a value chain for product manufacturing and sales. As part of its green business, the company plans to form a cooperative body between the public and private sectors in collaboration with the Korea Marine Environment Corporation and marine waste disposal agencies, in order to create a green marine ecosystem by recycling marine plastic waste.

| RECYCLED PP | Virgin-like quality and performance | Excellent Processability | Features excellent transparency | Stability of physical properties |
|----------------|--|--------------------------|---------------------------------|----------------------------------|
|----------------|--|--------------------------|---------------------------------|----------------------------------|



OVERVIEW ———— ESG AT HYOSUNG ——— FOCUS ISSUES ———— ESG MANAGEMENT ————— ESG PERFORMANCE ————— APPENDIX

Health and Safety at Business Sites

UN SDGS LINKAGE





Why so important?

In complex industrial settings where diverse workers are employed, special attention must be given to safety and health. It is essential to identify the factors that threaten workers and continuously strive to create a safe and healthy workplace. This is because providing a safe and healthy environment for workers also enhances the sustainability of the company.

Our Approach

Under our safety and health management policy, Hyosung encourages the participation and efforts of all employees to achieve the goal of 'zero serious accidents and industrial accidents'. Moreover, specific action plans are established and regularly evaluated to ensure compliance with our safety and health management policy. By reflecting and enhancing these evaluation results, we aim to secure a safe working environment for everyone.

Our Achievement

Hyosung Corporation

Rate of improvement for safety inspection non-conformities

Hyosung TNC

Occupational health and safety management systems (ISO 45001)

Hyosung Heavy Industries

No. of serious accidents and injuries

Hyosung Advanced Materials

Global workplace ISO 45001 certification rate

Hyosung Chemical

No. of serious accidents and injuries

100%

Plant Gumi : Maintain Certificate Plant Ulsan : Newly acquired

0 incidents

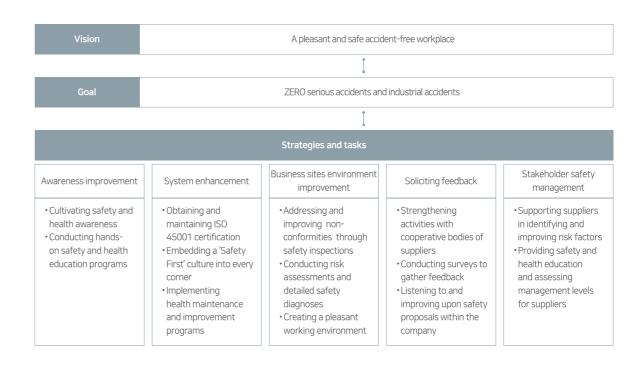
80% → **91%**

0 incidents

Empowering Our Safety and Health System

Strategy to Promote Safety and Health

Hyosung is striving to realize a pleasant and safe accident-free workplace with the objective of 'Zero Major Disasters and Major Industrial Accidents'. To achieve this vision, we have established a safety and health management policy, which is followed by all employees, and we communicate it to both internal and external stakeholders. Additionally, we formulate detailed action plans for each workplace, focusing on raising safety and health awareness, improving the work environment, soliciting feedback, and managing stakeholders' safety concerns. These action plans are monitored quarterly to verify their implementation. Especially, we consider safety and health for diverse stakeholders, such as employees, customers, suppliers, subcontractors, and the local community, as the top priority in our corporate activities. We actively promote various safety and health activities tailored to each operating company, such as the mentoring program for supplier's safety and health, symbiotic cooperation programs, support for establishing supplier's safety and health management systems, and the introduction of risk assessment certification.



Strengthening the Safety and Health Management System

Hyosung is committed to achieving the elimination of safety accidents through the establishment of systems and regulations that focus on strengthening risk response and proactive prevention. In 2022, we conducted consulting with external professional organizations to enhance accident prevention and strengthen the safety and health management system. We examined a total of 196 to 228 items, depending on the characteristics of each operating company's industry. As a result, we have met all the essential requirements and largely fulfilled the important and recommended items as well. With the goal of achieving an accident-free business sites, we will continue to enhance response activities to protect the lives and promote the health of employees and supplier staff.

| Compa | ny name | Responses | | | | | | |
|-----------------------------|----------------------------------|---|---|--|--|--|--|--|
| Hyosung Corporation | | Monthly performance reporting meetings chaired by the CEO to secure safety and health Reporting of verification results and improvement activities | Identifying improvement areas and taking actions through consulting with external professional organizations | Goal management and compliance check for accident prevention Check the adequacy of internal regulations and verification of compliance with internal regulations at plants and research institutes | | | | |
| Hyosung TNC | | Monitoring safety activities through monthly meetings chaired by the CEO Discussing and deciding on safety and health issues on a quarterly basis | Consulting with external professional organizations and checking compliance with regulations | Starting self-assessment to person in charge of safety and health affairs (half year basis) | | | | |
| | Power & Industrial Systems PG | CEO inspects the workplace and sites where products are installed four times a year | Enhancing safety at hazardous sites prone to accidents such as falls, dropping, suffocation, and electric shock | Recruitment of four dedicated patrol officers | | | | |
| Hyosung Heavy Industries | Construction PU | CEO makes bi-annual site inspections for all sites CSO joins quarterly labor-management councils and employee feedback sessions | Conducting performance evaluations of on-site employees' safety and health duties | Supporting partner companies in establishing safety and health management systems and implementing risk assessment certification (SCC) | | | | |
| Hyosung Advanced Materials | | Monthly SHE committee meetings chaired by the CEO for safety and health activities at each workplace Reporting and discussing major issues and achievements | Monthly special inspections and guidance conducted by the headquarters' Health and Safety Team for each workplace | Selecting and operating a fire consulting agency for fire prevention at workplaces | | | | |
| Hyosung Chemical | | EHS committee meetings every month for the implementation of safety accident prevention activities, reporting goals, and achievements | Expanding the safety mileage evaluation items to assess the level of safety accident prevention activities | Strengthening employees' responsibility for safety and health by reflecting safety and health KPIs in the personnel system | | | | |

Key Activities for Safety and Health Awareness Improvement

Hyosung is actively promoting various activities to foster workers' safety and health awareness and spread a safety and health culture. These activities include hands-on and experiential safety and health education, as well as regular sharing of safety and health issues across the organization.

Safety Health Newsletters Issued, Safety Proposal Campaign Conducted

Hyosung Corporation actively works to improve Environmental Health and Safety (EHS) awareness by publishing newsletters to regularly share relevant issues. Through these newsletters, the company disseminates information about safety and health compliance requirements and provides pamphlets with evacuation procedures for emergencies. We encourage worker participation and foster a safety culture through an internal safety proposal campaign. During this campaign, we received



197 proposals, which were subsequently evaluated and rewarded. Furthermore, the proposed improvements were implemented to enhance safety and health practices within the company.

Safety Promotion Activities and Occupational Health Hyosung TNC and Safety Drill

Hyosung TNC encourages employees to demonstrate safety consciousness through actions and practices, and to achieve this, it conducts various safety promotion activities. These activities include creating safety pledges, organizing safety and health competitions, and running safety campaigns. In 2023, it plans to continue spreading a safety culture and enhancing safety awareness through activities such as a safety resolution conference, IDEA competition, and a reward system for obtaining safety-related qualifications. Beyond the statutory training, Hyosung TNC also conducts various safety and health training programs for employees. These include emergency training for initial response to critical situations, training for an in-house fire brigade, chemical and hazardous material safety management training, and CPR training for managers. It also actively engages in joint training with relevant agencies like fire departments to prevent major accidents such as fires and chemical leaks and improve its initial response capabilities.







Safety Education with CSO

Power & Industrial Systems PG conducts safety education under the supervision of the Chief Safety Officer (CSO) to nurture safety experts. It offers training in six subjects, including risk assessment expertise, accident investigation and emergency response. In 2022, a total of 152 individuals participated in these training programs. Additionally, the Construction PU conducts regular on-site safety education, led by

ESG AT HYOSUNG



CSO-led education to nurture safety experts

the Construction CSO and the Construction Health and Safety Team leader. The focus of these education efforts includes responsibilities of management supervisors and dissemination of best practices to enhance safety and health standards across construction sites nationwide.

Promoting Safety Culture through Training

Hyosung Advanced Materials

Hyosung Heavy Industries

Hyosung Advanced Materials' Ulsan Plant is dedicated to promoting a safety-first culture. In March 2021, it established 10 safety absolute rules and conducted spot inspections to ensure compliance and evaluate adherence to these rules. In the first half of 2022, it organized a safety campaign to enhance safety awareness among employees. Additionally, each month, safety and health education sessions are conducted for all employees at the Ulsan Plant, as well as for partner companies and relevant parties, focusing on a selected safety theme for that particular month.

Education on Fire Prevention

Hyosung Chemical

CPR training

Hyosung Chemical has been enhancing its response to fire accidents since 2022 by contracting fire advisory services. These services include fire education, participation and guidance in fire drills, emergency response and first aid instruction, and consultations on laws and technology related to fire prevention and management. Moreover, it has engaged external professional organizations to conduct diagnostic evaluations in fire, hazardous materials, electrical, and gas-related fields. It also carries out inspections of ducts and uses thermal imaging to examine distribution panels, as well as performs special safety inspections on fireprone facilities. Through these initiatives, it identifies and addresses fire hazards to prevent potential fire accidents effectively





Fire drill

Key Activities for Safety and Health System Improvement

Hyosung is actively enhancing its risk response capability to prevent accidents in the workplace by implementing various system improvements. We have obtained and maintained safety and health management system certifications and implemented health promotion programs.

Incorporating Safety and Health KPIs into the Personnel System

To strengthen employees' responsibility for safety and health and forge a safety culture in the business sites, starting from 2023, Hyosung has been linking the performance evaluation results of safety and health management responsibilities, including safety and health management officers, to the personnel system for performance management.

Occupational Health and Safety Management System Certification

In pursuit of preventing industrial accidents and complying with safety and health regulations, Hyosung operates a safety and health management system. Each department reflects risk factors identified through risk assessments, environmental impact assessments, and safety inspections in safety and health objectives and implementation plans, and continuously improves them. To maintain ISO 45001 and KOSHA-MS certifications, we undergo annual evaluations by external organizations, and we are expanding certification to not only domestic business sites but also global ones.

| Compa | ny name | Occupational Health and Safety Management System certifications |
|------------------|-------------------------------------|---|
| Hyosung (| Corporation | Anyang Plant: Maintaining ISO 45001 certification |
| Hyosu | ing TNC | Gumi Plant (nylon-polyester business site and spandex business site): Maintaining ISO 45001 certification Ulsan Plant (nylon-polyester business site): Obtained ISO 45001 certification in 2022 |
| Hyosung Heavy | Power & Industrial Systems PG | Domestic plants: Maintaining ISO 45001 and KOSHA-MS certifications Overseas plants (India, China): Maintaining ISO 45001 certification |
| Industries | Construction PU | Obtained ISO 45001 certification in 2022 |
| Hyosung Adva | anced Materials | Rate of global ISO 45001-certified plants 91% Obtained ISO 45001 certification for Jeonju Plant in January 2023 |
| Hyosung | Chemical | Maintaining ISO 45001 and KOSHA-MS certifications |

Key Activities for Safety and Health System Improvement

Health Promotion Systems

Hyosung operates various health promotion systems for its employees and supplier workers. Each business unit has its health promotion program in place. Every year, comprehensive health check-ups are conducted for all employees, and we run a health management office managed by industrial nurses to oversee employee health and provide follow-up care. To enhance employee fitness, we also implement programs for musculoskeletal disorders, hearing conservation, and cerebrovascular diseases prevention. We have established a health fund consisting of programs targeting obesity, smoking cessation, and musculoskeletal disorders, ensuring the safety and health of both employees and supplier workers.

| Programs | Key activities | | |
|--------------------------------|--|--|--|
| Frograms | Ney activities | | |
| Health promotion programs | Cardiovascular disease prevention program Health fund for obesity, smoking cessation, and musculoskeletal disorder related issues | | |
| Worker health check-ups | Operation of health management office Special / temporary / anytime health check-ups | | |
| Work environment management | Musculoskeletal disorder management program Confined space work management program Hearing conservation program | | |
| Infection prevention | Development and dissemination of infection control guidelines for infectious diseases Real-time COVID-19 situation updates through social media Non-contact body temperature measurement for employees and visitors Utilization of remote work systems | | |

^{*} Specific details of these programs may vary by each operating company.

Workers' Safety First Work Right System

Hyosung has been implementing the Workers' Safety First Work Right System (workers' work suspension right) since August 2020 to prevent accidents in high-risk workplaces and during high-risk tasks. All employees, including those from suppliers, working in high-risk workplaces can use the work right in accordance with the established workers' safety first work right system criteria to ensure safety during their tasks. The results of the system implementation are regularly reviewed and improved to solidify the Safety First culture at the worksites. In particular, Hyosung Heavy Industries has executed a total of 1,789 workers' work suspension right, including both managers and workers, at construction sites and other high-risk workplaces. This system puts worker safety first on the job sites, emphasizing the importance of ensuring a safe work environment for all employees.

Smart Safety System

Construction PU has introduced the Hyosung Smart Safety System (HSS System) as part of its efforts to establish a smart safety management infrastructure. The HSS System standardizes the workflow at construction sites and enables real-time monitoring of all safety activities on the field. The HSS System allows for comprehensive safety activity management, including pre-hazard analysis, concentrated management of hazardous tasks, exercising work stoppage rights, and gathering workers' opinion. Additionally, it provides easy measurement and management of safety activity outcomes for each site, partner company, and individual.



Establishing and Operating Safety Golden Rules

Hyosung Heavy Industries

Hyosung Heavy Industries

Power & Industrial Systems PG has established and operates the '10 Safety Golden Rules' to prevent potential safety accidents on the field. It includes rules such as the prohibition of entry under heavy loads, the prohibition of safety device disengagement,



and the measurement of oxygen concentration in confined spaces. By continuously practicing and enforcing these rules, it contributes to creating a pleasant and safe accident-free workplace.

Key Activities for Improving Business sites Environment

Hyosung focuses on improving the work environment to ensure that workers can operate in a safer and more comfortable environment. We conduct various inspection activities, including safety inspections, equipment inspections, and facility inspections, to identify and address the areas of improvement continuously.

Safety Inspection and Improvement Activities

Hyosung Corporation

At the business site in Anyang, Hyosung Corporation strengthens safety inspections through routine inspections, theme-based inspections, micro-inspections, joint labor-management health and safety inspections, and subcontractor health and safety inspections. We also perform special fire prevention inspections to identify inadequate elements and take corrective measures.

| Inspection type | Frequency | Inspection content | No. of identified risks | Correction rate |
|--|-----------|--|-------------------------|-----------------|
| Daily inspection | Daily | Checking compliance status through checklists | 344 | 100% |
| Theme-based inspection | Monthly | Managing pre-inspection items and conducting full-scale inspection during patrol | 530 | 100% |
| Micro inspection | Monthly | Autonomous inspections by production and indirect departments | 63 | 100% |
| Joint labor- management inspection | Quarterly | Inspection of demands from existing unions and workers' representatives and check on corrective measures | 54 | 100% |
| Subcontractor inspection | Monthly | Safety management evaluation for each subcontractor | 65 | 100% |

Enhanced Health and Safety Inspection Activities

Hyosung Advanced Materials

Hyosung Advanced Materials consistently identifies potential risks and promotes accident prevention activities. It utilizes diverse methods and perspectives to inspect the health and safety status, striving to maintain a continuous improvement in health and safety within the workplace.

| Inspection type | Frequency | Inspection content | No. of identified risks | Correction rate |
|--|------------|---|-------------------------|-----------------|
| Risk assessment consulting | - | Identifying and improving safety accident risks | 47 | 99% |
| Compliance inspection of relevant laws and regulations | Biannually | Checking compliance with relevant laws and regulations at the workplace | 256 | 95% |
| Firefighting equipment inspection | Biennially | Inspection of systems and equipment by professional institutions | 323 | 85% |
| Top Patrol, daily inspection | Monthly | Workplace-led environmental safety inspection | 1,214 | 100% |

Key Activities for Improving Workplace Health and Safety

Safety Inspection Activities

Hyosung TNC

Hyosung TNC convenes safety and health meetings led by the CEO, along with quarterly site inspections joined by partner companies. Daily facility inspections are also conducted. Additionally, each team leader conducts monthly inspections of the process safety and health. In 2022, a total of 1,382 discrepancies were identified, of which 1,298 were rectified, achieving a 94% improvement rate.

Improvement of Safety Equipment and Devices

Hyosung TNC

Hyosung TNC focuses on identifying and addressing safety risks in on-site operations. Through risk assessments and employee suggestion systems, it identifies potential safety hazards during work and continuously improves on-site safety facilities to ensure fundamental safety.



Smart airbag for injury prevention in case of fall

Forklift driving-linked safety belt device

Enhanced Fire Safety Activities

Hyosung TNC

Hyosung TNC is implementing and reinforcing fire safety measures to prevent potential hazards and protect the lives of employees and company property from fire-related risks.

| Fire safety activities | Key activities | |
|---|--|--|
| Firefighting facility enhancement | Installing fire surveillance CCTVs, strengthening the fire alarm system with improved connectivity, enhancing fire resistance performance of air conditioning ducts, upgrading the automatic fire detection equipment for better functionality, etc. | |
| Fire safety expert diagnostics | Conducting comprehensive inspections and evaluations of fire operation and functions by specialized companies and implementing improvements based on the recommendations provided after the inspections *Achieving a 94% completion with 424 out of 452 recommendations for improvement in 2022 | |
| Utilizing fire prevention experts | Engaging fire prevention experts to provide legal advice, safety education, and fire drills (Gumi Plant, Ulsan Plant), Conducting fire safety inspections and consultations with external expert organizations (Daegu Plant) | |

Customized Safety and Health Inspection by Level

osung Heavy Industrie

The Power and Industrial Systems PG has established and implemented a customized safety and health inspection system based on different levels of management to identify and improve potential hazards in the workplace. The C-level safety and health inspection and improvement activities attended by the CEO and the Chief Safety Officer (CSO), focus on high-risk external installation sites and hazardous processes. Departmental self-inspections are carried out on a weekly basis, where each department selects inspection themes and performs routine checks independently to identify and address potential risks. The inspection results are then managed and approved by responsible executives. Moreover, it has a specialized safety patrol conducted by safety managers, who are assigned to specific areas in each plant. This patrol uses accident data analysis to target specific times and days with frequent incidents, leading to more focused inspections to prevent accidents. Through this tailored inspection approach, it successfully identified and improved a total of 2,999 hazards in 2022.

| Inspection type | Frequency | Inspection content | No. of identified risks | Correction rate |
|--------------------------------------|-------------|--|-------------------------|-----------------|
| C-level safety and health inspection | Biannually | Inspecting high-risk sites and processes | 206 | 100% |
| Departmental self-inspection | Weekly | Selecting inspection themes for internal checks | 1,647 | 100% |
| Specialized safety patrol | Twice a day | Inspecting accident-prone factors and timeframes | 1,146 | 100% |

Overseas Business Site Safety Management

Hyosung Heavy Industries

Hyosung Heavy Industries conducts safety inspections and improvements not only at domestic business sites but also at overseas business sites. Safety investigations were conducted for the GIS plant in India and the motor plant in Vietnam, and overseas safety managers underwent OJT by inviting them to domestic business sites. It also provided support for AED installations. Furthermore, dedicated organizations and a hot-line were established to disseminate and address similar accident cases for continuous improvement.

On-site Safety Inspections and Safety Audits Led by CEO Hyosung Heavy Industries

savy maastries

Construction PU conducts on-site safety inspections driven by the CEO twice a month to achieve the goal of 'zero serious accidents' and safety health management. The results of these inspections are shared with the entire workforce through safety newsletters to raise safety awareness among all employees. After the site inspections, scores are aggregated quarterly, and safety audits are conducted for the bottom 30% sites. The results of these audits are reported to the CEO, and corrective measures are instructed for each site. The outcomes are then announced company-wide to encourage enhanced safety management at all sites.



Safety inspection at a construction site by CEO

CASE

Expansion of Smart Safety Management System

To prevent workplace accidents, Hyosung continuously introduces and expands advanced safety technologies and equipment within the plant. We have installed a total of 11 safety laser beams to enhance identification and prevent collision accidents with workers, particularly for forklifts that operate frequently during nighttime. Additionally, an Al data recorder has been installed on one forklift with a high movement range to track and record surrounding workers, and its effectiveness is being tested. Further installations and targets are under final review. In 2023, we plan to install intelligent CCTV systems in areas vulnerable to fires, areas with frequent violations of outdoor safety helmets, and areas at risk of worker falls, as part of the continuous efforts for smart safety management.







Key Activities for Improving Workplace Health and Safety

Creating an Occupational Accident-free Workplace

Hyosung Chemical

Since 2020, Hyosung Chemical has been operating the 'Safe Workplace Campaign' to reduce accidents and strengthen safety awareness within the workplace. Starting from 2022, the campaign name was changed to 'Creating an Occupational Accident-free Workplace,' and action-oriented safety initiatives are being promoted at each organizational unit. The results of these initiatives are being monitored through the achievement of accident-free records at the PU level. Quantitative evaluations are being conducted for each PU, and outstanding PUs are recognized and awarded to encourage a competitive spirit in achieving safety performance.

> Raising awareness about safety activities · Implementing various activities to ensure safety • Managing organizational goals and evaluations related to safety activities

Promoting action-oriented safety activities by each organizational unit

Strengthening internally driven safety activities at each organizational unit

√ Creating an Occupational Accident-free Workplace √ Attaining accident-free multiples

| Year | Activity name | Target | Key activities |
|------|---|--|---|
| 2021 | Cultivating a safe workplace | Employees at Yongyeon Plant, including in-house personnel | • 'In addition to activities in 2020, holding PU safety and health meetings and promoting PU activities |
| 2022 | Creating an Occupational Accident-free Workplace | Employees at Yongyeon Plant, including the employees of contractors and partner companies | In addition to activities in 2021, taking measures based on partner feedback (VOC) |
| 2023 | Creating an Occupational Accident-free Workplace | Employees at all plants, including the employees of contractors and partner companies | In addition to activities in 2022, promoting accident prevention efforts |

| Inspection activities | Frequency | Inspection contents | No. of improvements |
|---|-------------------------|---|---------------------|
| Various inspection activities for achieving 3 zeros | Monthly | Inspection of equipment and facilities to remove smoke, odor, and discoloration Inspection to prevent fatal accidents | 11,226 |
| Regular safety inspections at the workplace | Biannually / Monthly | Company-wide safety inspection (biannually) PU safety inspection (monthly) PU site safety inspection based on inspection themes (monthly) | 1,847 |
| Improvement of near-miss accident cases | Monthly | Identifying and improving near-miss accidents | 522 |

Key Safety Management Activities for Stakeholders

Hyosung is actively promoting safety and health improvement for various stakeholders, including suppliers and subcontractors, by conducting safety and health inspections and implementing safety and health enhancement activities tailored to each operating company such as the risk assessment certification scheme.

Subcontractor Safety and Health Inspection and Support Hyosung Corporation

We operate a monthly consultation committee attended by our safety and health managers and heads of subcontractors to conduct joint inspections and discussions for safety and health improvements. Additionally, semi-annual evaluations of subcontractor safety and health performance are carried out, and support activities, such as education for enhancing safety and health management, are provided to improve their risk identification and mitigation capabilities.

Partner Company Safety and Health Management

Hyosung TNC promotes a collaborative partnership program, safety and health consultation committees, and a partner company safety and health mentoring system to foster accident prevention and establish a safety culture. Partner companies' safety and health levels are evaluated, and a reward system is implemented for outstanding companies.







Subcontractor Safety and Health Risk Assessment Hyosung Heavy Industries and Certification

The Construction PU implements the Partner Company Safety and Health Risk Assessment and Certification (SCC) in collaboration with external experts. It assesses partner companies' safety and health management systems and grants certification. Certified companies receive support for contracting, consulting, and certification costs, and regular inspections are conducted to renew and manage their certification, aiming to prevent accidents at partner companies.

CSO-led Feedback Collection from Partner Companies Hyosung Heavy Industries

The Power & Industrial systems PG holds quarterly CSO-led meetings with partner companies to gather opinions on safety and health, and the management provides support for improvement based on these inputs. In 2022, a total of 31 opinions were collected, and a support fund of KRW 320 million was provided for improvements. At the Construction PU, the CSO participates in labor-management committees to listen to opinions from all employees, including supplier employees and address issues. In 2022, a total of 403 opinions were collected, and 392 (97.3%) of them were addressed, achieving a 100% response rate for safety-related opinions.

Enhancing Partner's Safety Management

Hyosung Advanced Materials

Hyosung Advanced Materials' Ulsan Plant provides support for safety and health activities to 17 partner companies. Through the partner-led voluntary safety inspection system and Safety First program, the plant supports partner companies in building their risk assessment capacity and systems. In 2022, a total of 460 risks were identified and addressed. The plant also operates a cooperative partnership program and has achieved the highest grade, A grade, for three consecutive years. For new partner companies, safety and health mentoring is conducted, enabling benchmarking and learning from the plant's excellent partner companies in education and safety management practices. Additionally, annual evaluations recognize outstanding partner companies, and the plant provides financial assistance for external safety agency outsourcing for all partner companies.

Strengthening Partner Company Safety and Health Hyosung Chemical

Hyosung Chemical enhances workplace safety and health to the level of the parent company through regular communication and workplace inspections with partner companies. Through periodic meetings with partner companies, their opinions are collected, and out of 252 opinions, 241 (96%) were addressed. Quarterly joint inspections with partner companies resulted in a total of 312 improvements. Furthermore, to enhance partner companies' safety management capabilities, it provides support to 20 companies, including monthly dedicated safety manager personnel expenses and outsourcing costs to specialized agencies, totaling approximately KRW 19.5 million. Additionally, to strengthen safety and health responsibilities and sharpen partner companies' safety management capabilities, it has been participating in the cooperative partnership program organized by the Korea Occupational Safety and Health Agency since 2016. In 2022, nine internal and external companies received various technical, material, and financial support, and as a result, they achieved the highest grade, A grade.

| Activities | Key activities and effects | | |
|---------------------------------------|---|--|--|
| Communication | Operation of partner company committee (monthly) Partner company meetings (monthly) VOC collection through SNS (ongoing) | Sharing of information on plant's risk factors and necessary data | |
| Inspection | Joint inspections for in-house partner company workplaces (quarterly) | Improvement of workplace safety levels | |
| Personnel expenses support | Support for dedicated safety managers (7 companies, approximately KRW 17.5 million) Support for outsourcing safety management to specialized agencies (13 companies, approximately KRW 2 million) | Sharpening partner companies' safety management capabilities | |
| Cooperative partnership program | Technical support: Guidance on risk assessment, educational materials Material support: Personal protective equipment, safety facilities / equipment Financial support: Expenses for workplace environmental measurements, etc. | Enhancing partner companies' responsibility for safety and health measures | |



OVERVIEW ———— ESG AT HYOSUNG ——— **FOCUS ISSUES** ———— ESG MANAGEMENT ————— ESG PERFORMANCE ————— APPENDIX

Management for Mutual Growth

UN SDGS LINKAGE





Why so important?

If large companies and small- and medium-sized enterprises (SMEs) only pursue maximized short-term profits, there is a concern that it could weaken the foundation for SMEs to survive and lead to a crisis in the corporate ecosystem. Therefore, there is a need to establish a system of mutual cooperation among companies from a medium to long-term perspective. Mutual Growth is recognized as a highly important issue in our society. Hence, not only partner companies but also various stakeholders such as SME customers and rural communities need to come together and face the rapidly changing market environment with challenging and progressive methods while contributing to society and ensuring sustainable growth.

Our Approach

Hyosung is establishing systems for mutual growth, fair trade, and supply chain management for the co-prosperity with stakeholders, including partner companies. We systematically manage this approach to listen to the voices of stakeholders and coexist together, preparing for a sustainable future.

Our Achievement



Strengthened operation of collaborative programs for mutual growth with partner companies

Agreements on cooperation for mutual growth

Provided ESG education and consulting

Energy-saving diagnosis consulting

Purchases of environmentally friendly products and services amounted

 $896 \; \mathsf{partners}$

18 partners

8 partners

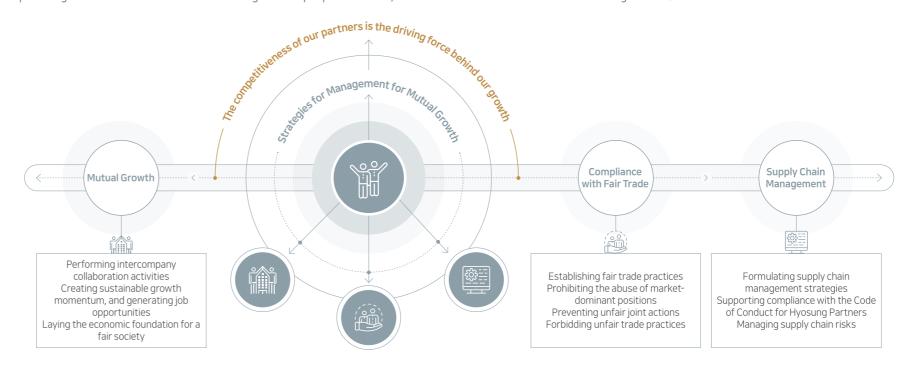
KRW 53.935 billion

Strengthening for Mutual Growth Management

Strategy for Mutual Growth Management

Hyosung is committed to the philosophy that 'the competitiveness of our partners is the driving force behind our growth' and the perception of 'being tied with partners by a common destiny.'

Based on this philosophy, we strive to create a common goal that encompasses the entire value chain and work together to shape the future. Through mutual growth management, we promote mutual growth with our partners and establish and abide by the principles of fair trade, aiming to become ethical corporate members in our society. Building a healthy supply chain ecosystem and practicing fair market transactions while fostering intercompany collaboration, we seek sustainable coexistence in fast-evolving markets.



Organization for Promoting Management for Mutual Growth

To systematically carry out activities for mutual growth management, Hyosung organizes a department responsible for mutual growth management affairs within the Strategy Division. It operates the partner support programs and manages partners through purchase departments at each business site, taking into account the characteristics of the supply chain. By listening and communicating with partners about their difficulties and suggestions, we facilitate smooth mutual growth. Additionally, to polish up the technological capabilities and competitiveness of our partners, Hyosung R&DB Labs and the Power & Industrial Systems R&D Center encourage partner participation in joint research initiatives.



Management for Mutual Growth

Key Activities for Mutual Growth

Signing Mutual Growth Agreements and Cash Payments to Excellent **Partners**

To foster a fair trade culture and promote co-prosperity with partners, Hyosung annually signs mutual growth agreements with outstanding partners selected through selfassessments. These agreements include contents related to compliance with fair trade regulations and support for coexistence, such as timely cash payments. We allow partners to request payment for goods up to three times a month and ensure cash payments within 10 days of issuing tax invoices, contributing to improving the cash flow of partner companies. In 2022, approximately KRW 1.75 trillion (approximately a 33.5% increase compared to 2021) in cash was paid to 896 outstanding partners as part of the mutual growth support.

| Category | Year | Hyosung Corporation | Hyosung TNC | Hyosung Heavy Industries | Hyosung Advanced Materials | Hyosung Chemical | Total |
|--------------------|------|------------------------|----------------|--------------------------------|----------------------------------|---------------------|-----------|
| No. of outstanding | 2021 | 107 | 56 | 636 | 50 | 40 | 889 |
| partners | 2022 | 106 | 57 | 645 | 46 | 42 | 896 |
| Cash payment | 2021 | 24,860 | 27,246 | 712,749 | 19,211 | 20,750 | 804,816 |
| (KRW million) | 2022 | 23,031 | 32,692 | 974,282 | 16,369 | 28,170 | 1,074,544 |

Communication with Partners

To practice mutual growth with partners, Hyosung participates in purchase consultations and directly visits partners to listen to their difficulties and suggestions. Additionally, we maintain continuous communication and operate various support programs to build trust with the suppliers.

PC Renewal for Partners

To support the growth infrastructure of partners, Hyosung provides assistance to selected partners that need to upgrade their business PCs. The support includes providing new SSDs, laptops, desktops, wide monitors, and more.

Supporting Partners Build Their Capacity

Hyosung Corporation and Hyosung Heavy Industries actively participate in governmentsupported programs for industrial innovation, investment resources, and benefit sharing initiatives to enhance the productivity of partners. Among these initiatives, 25 partners have participated in the performance-sharing program, where support was provided for outdoor worker protection through container facilities for workers to rest and respiratory disease prevention through cleaning vehicles. Moreover, Hyosung has implemented remote video inspections for customer site inspections to reduce response times and enhance partners' productivity and capabilities. Hyosung TNC provides tailored job training through external specialized education institutions like the Korea Management Association Consultant Inc. (KMAC) to improve partners' troubleshooting abilities, productivity, quality innovation, waste reduction, manufacturing cost reduction, and process improvement. Hyosung Advanced Materials engages in activities through the Management Doctor Program to improve various aspects of management for partner companies, including management rationalization, work automation, and welfare system establishment. Hyosung Chemical supported partner companies through management diagnostics using the Management Doctor Program to reduce losses in their processes, cut costs, and increase profits.

Customized ESG Education and Consulting

Hyosung provides professional consulting to improve partners' understanding of ESG activities and easily apply them to their business operations. This includes job training on various aspects of ESG, including human rights, ethics, supply chain, environment, safety, and climate change response. Moreover, tailored ESG management guidebooks are provided to help partners meet the increasing demand for sustainable management. Furthermore, an incentive program is in place, where companies striving to establish an ESG management system receive bonus points in supply chain evaluations.

| Category | Hyosung Corporation | Hyosung TNC | Hyosung Heavy Industries | Hyosung Advanced Materials | Hyosung Chemical | Total |
|------------------------------|------------------------|----------------|--------------------------------|----------------------------------|---------------------|-------|
| No. of beneficiary companies | 1 | 1 | 13 | 2 | 1 | 18 |

Cooperative Energy-Saving Business with Large, Medium, and Small Hyosung Corporation Hyosung Heavy Industries Hyosung Advanced Materials Hyosung Chemical **Enterprises**

To promote energy conservation and GHG emissions reduction among partners, Hyosung has signed a mutual growth agreement for large, medium, and small enterprises with the Korea Energy Agency. Under this agreement, we provide energy diagnosis consulting to partners. The energy managers at the partners undergo a diagnosis of processes and workplace environments to identify factors for energy saving and GHG mitigation. They receive analysis of problem areas, economic feasibility, and improvement themes. If any equipment support is needed, we review and take necessary support measures.

| Category | Hyosung Corporation | Hyosung Heavy Industries | Hyosung Advanced Materials | Hyosung Chemical | Total |
|---|------------------------|-----------------------------|----------------------------------|---------------------|--------|
| No. of participating partners | 1 | 4 | 2 | 1 | 8 |
| Energy saving amount (toe / year) | 18.79 | 66.87 | 26.98 | 53.68 | 166.32 |
| GHG emissions reduction amount (t CO ₂) | 38 | 135 | 54 | 108 | 335 |

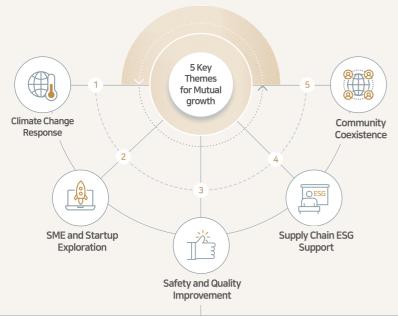
Energy Saving Equipment Support Hyosung Corporation Hyosung Heavy Industries Hyosung Advanced Materials

Hyosung conducts on-site diagnostics at partners to identify methods for cutting energy losses and consumption, such as replacing inefficient equipment with highefficiency ones. We provide support to implement these methods, helping partners reduce energy usage costs.

| Category | Hyosung Corporation | Hyosung Heavy Industries | Hyosung Advanced Materials | Total |
|--|------------------------|-----------------------------|-------------------------------|--------|
| No. of companies that received energy-saving equipment | 1 | 3 | 1 | 5 |
| Annual energy-saving cost (KRW 1,000 / year) | 3,084 | 10,403 | 4,481 | 17,968 |

Five Key Themes for Mutual growth

Hyosung's mutual growth encompasses not only partners but also a broad range of stakeholders, such as small and medium-sized enterprise customers and rural communities. To achieve mutual growth with these stakeholders, we have identified five key themes for focused implementation, including sensitive ESG management issues like climate change and safety



Theme-based Activities

Climate change response

Energy-saving and carbon reduction consulting and equipment support for SMEs Support for SMEs to obtain eco-friendly certifications and calculate carbon labeling

Safety and quality improvement

Equipment support to enhance productivity for SMEs Cost support for appointing safety managers, safety education, and consulting

SME and startup exploration

Brand development for SMEs affiliated with RE:GEN ALLIANCE*
Capacity enhancement for eco-friendly startup husinesses

Supply chain ESG support

ESG management education / consulting for SMEs Improvement of working conditions for suppliers and support for women's rights

Community coexistence

Supporting rural communities through producing eco-friendly products, promoting rural community economy (e.g., rice purchases)

Contributing to the growth and sustainability of the community

*RE:GEN ALLIANCE is a guaranteed brand created for external participants with strong commitment to Hyosung's ESG brand, RE:GEN. Hyosung will grow and coexist with RE:GEN ALLIANCE members and lead the dissemination of sustainable values for our society.

Interview with Stakeholders by Theme

SME and Startup Exploration

Interview with Jong-mi Wang, CEO of Pleats Mama, a Startup Participating in Eco-friendly Business Marketing Support





Pleats Mama is a partner of Hyosung, united by the common factors of 'eco-friendliness' and 'fashion.' Hyosung supports Pleats Mama to establish itself as an eco-friendly leading brand, and Pleats Mama acts as a kind of antenna shop, capturing market feedback for Hyosung's materials. Hyosung has provided multi-faceted marketing support for Pleats Mama. Together, we introduced bags and clothing made from reclaimed fishing nets from the southern sea of Korea at 'ISPO Munich 2022' held in Germany. With Hyosung's help, Pleats Mama could open its first flagship store, 'EE:UT' in Samcheong. Hyosung actively contributed to the planning of the flagship store and supported Pleats Mama in overcoming investment difficulties as a startup brand. Pleats

Mama hopes for continued collaboration with Hyosung in future flagship stores. We plan to include devices to showcase the detailed process of Hyosung's recycled materials becoming final products and even release Hyosung's limited edition products. In the budding eco-friendly fashion industry, Hyosung aims to lead the industry with its materials, while Pleats Mama excels in product development. Together, we imagine becoming a fantastic partner in resolving domestic environmental issues by reducing reliance on overseas eco-friendly materials.

Climate Change Response

Interview with Dong-su Jang, Factory Manager of Kyung Chang Industrial, a SME Participating in Energy Saving Support Program

Kyung Chang Industrial manufactures and sells gun magazines, bulletproof helmets, and police supplies. Among them, our bulletproof helmets use aramid yarn, a material also widely used in the aerospace industry due to its heat-resistant and robust properties. We chose Hyosung as our aramid yarn partner because of its high-quality products and stable supply, ensuring satisfactory trade. As an excellent business partner, Hyosung actively supports us through the mutual growth program. One of the support programs that has made a significant impact is the energy-saving support project. Hyosung's staff and professional consultants visited our factory to conduct on-site diagnosis to identify any facilities or processes wasting energy. They discovered ways to reduce energy usage and made proposals. We were grateful that Hyosung supported us to replace equipment with a significant energy-saving effects by covering the cost. Hyosung's supports included insulating the steam supply pipe in our facility to prevent unnecessary heat loss, and improving boiler efficiency by utilizing waste heat from exhaust gases. Calculating the energy-saving effect of the supported equipment, we estimated an annual savings of over KRW 4 million. While the amount of savings might not be substantial, it enabled us to become more conscious of climate change. These small efforts, when combined, contribute to a more beneficial society. We hope to continue fostering a mutually beneficial relationship with Hyosung. As Kyung Chang Industrial grows, we expect to increase our orders from Hyosung, and that, to us, is the essence of mutual growth.



Interview with Stakeholders by Theme

Safety and Quality Improvement

Interview with Yang-bae Park, Director of Sung Do General Technology, Participating in Safety Management Technical Guidance Support Program

Sung Do General Technology has been a long-term partner of Hyosung's Yongyeon Plant, responsible for cleaning processes such as heat exchanger cleaning, chemical cleaning, catalyst replacement, and various pipeline cleanings to ensure process safety. We have also extended our partnership with Hyosung into our venture in Vietnam by establishing a local corporation, based on the trust we have in Hyosung. Given the nature of chemical processes, the importance of safety cannot be emphasized enough. Our company utilizes the safety management funds provided by Hyosung to engage external professional organizations for regular safety management. We undergo regular safety inspections, evaluating whether machinery and equipment pose any risks, as well as assessing various aspects related to safety, from electrical installations to the overall factory environment. We receive guidance on these safety-related matters to prevent any safety incidents from Hyosung. We can confidently say that we are doing our best to ensure safety and avoid accidents with Hyosung's help. In the future, as a partner of Hyosung Chemical, a global chemical company, Sung Do General Technology also dreams of becoming a global cleaning company. To achieve this, we look forward to a partnership with Hyosung in not only safety but also in the overall ESG management fields. We firmly believe that Hyosung will continue to make efforts in maintaining a continuous symbiotic relationship, just as it has always been.

ESG Support within Supply Chain

Interview with Ho-jeong Gil, CEO of Strategy & Innovation, Participating in Supply Chain ESG Education / Consulting



Strategy & Innovation has been entrusted by Hyosung to handle the entire consulting process for its partner companies, helping them adapt to the rapidly changing ESG management environment. Our responsibilities include developing ESG management manuals tailored for the partner companies, providing education, conducting assessments, and facilitating improvements. From the initial stages of project planning, Hyosung impressed us by emphasizing a focus on helping partner companies understand ESG management and expanding ESG adoption, rather than merely evaluating and ranking them from a management perspective.

ESG has become a prevalent trend, and various assessment agencies and trading partners are now demanding ESG-related information. However, we noticed that the evaluation criteria and requested information varied significantly, leading many small and medium-sized enterprises to struggle with compliance.

Therefore, Hyosung and Strategy & Innovation put in considerable effort to reference various ESG indicators while analyzing domestic regulations, creating an ESG manual that small and medium-sized enterprises could easily embrace.

To ensure the successful implementation of the manual in the field, we provided education and improvement plans to the partner companies and later revisited them to assess whether the planned initiatives had been effectively implemented. We were pleased to find that ESG management culture was gradually taking root within the partner companies.

As a result of our collaboration with Hyosung, its partner companies now have increased confidence in dealing with future ESG requirements that may arise from exports or business transactions with other major companies. Personally, I believe this experience will be a lasting memory, as we have seen the positive impact of our efforts on the partner companies.

Community Coexistence

Interview with Dong-jun Kim, working at the Rural Fund Management Department, KOFCA(Korea Foundation for Cooperation of Large&Small Business, Rural Affairs)

As a partner dedicated to fostering the development of rural communities, Hyosung has been an especially meaningful collaborator for our foundation in 2022. Hyosung has always been a company with brilliant ideas, making our collaboration an enjoyable experience. One particular project that stands out was the support provided by Hyosung for products utilizing eco-friendly materials in Gunbuk-myeon, Haman. The project was not only an exemplary case of mutual growth between a company and a region but also a model example from an ESG perspective. As a result, our foundation is planning to widely promote this project as an outstanding case.

The T-shirts produced with recycled yarns, a food tray, high-efficiency agricultural dryers, and solar power generation equipment supported in the area not only contribute to the welfare of local students and residents but also play a significant role in reducing carbon emissions by decreasing the use of fossil fuels. This aspect aligns perfectly with both the E (environment) and S (social) aspects of ESG, and we anticipate positive ripple effects in various fields. Additionally, as this project was initiated and executed by Hyosung, a globally active company, it has garnered media attention, further spreading a positive perception of eco-friendly materials.

We hope that Hyosung continues to pursue such projects consistently. With Hyosung's ESG activities resonating throughout the global market, it has the potential to act as a catalyst for promoting eco-friendly product consumption worldwide. The efforts of Hyosung might also create a positive butterfly effect leading to decarbonization and carbon neutrality.

Our foundation will continue to collaborate with Hyosung to create innovative and distinctive ESG projects, elevating mutual brand value. Together, we aim to build a society where local farmers can smile, fostering a community where everyone can share in the joy.



KRW 10 billion Funded for Shared Growth Fund of SMEs and Rural Communities



Hyosung has entered into a memorandum of understanding with the KOFCA (Korea Foundation for Cooperation of Large&Small Business, Rural Affairs) to provide funding for the implementation of the 5 Key Themes for Mutual growth. We have contributed a total of KRW 10 billion, with KRW 5.5 billion allocated to the SME Shared Growth Fund and KRW 4.5 billion to the Rural Shared Growth Fund. Both funds serve as private funds contributed to the cooperative foundation to foster collaboration and coexistence with SMEs and rural communities, Our earnest commitment to coexistence will persist in the future.

Management for Mutual Growth

Compliance with Fair Trade

Establishment of Fair Trade Practices

Hyosung has adopted and implemented the four major practices recommended and established by the Fair Trade Commission to foster a culture of fair trade with its partner. Additionally, guidelines prohibiting retaliatory actions such as restricting or discontinuing one-sided transactions with partners have been announced to create a foundation for a fair partnership. We are committed to building rational and transparent business relationships with our partners.



Disclosure of Fair Trade Principles for Partners

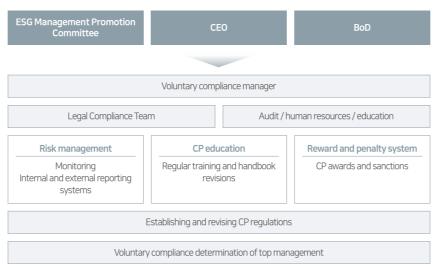
Hyosung and its partners aim to be trusted companies within the community and contribute to sustainable growth. As the first step towards this goal, the 'Code of Conduct for Hyosung Business Partners' was established in 2012. The code was developed in alignment with international standards, including the Universal Declaration of Human Rights, the ten principles of the United Nations Global Compact (UNGC), core conventions of the International Labour Organization (ILO), and OECD Guidelines. It outlines four compliance areas, which include ethical business operations, respect for the human rights of partners' employees, the establishment of a safe working environment, and responsibility for environmental management. The code provides detailed guidance on each compliance area. We are publicly disclosing the code on our website, going beyond the promises between the two parties and declaring our commitment to compliance as a social promise.

Operation of Fair Trade Compliance Program (CP)

To prevent risks related to legal violations and establish a culture of compliance and ethical management among employees, Hyosung operates a Fair Trade Compliance Program. Based on the revised version released in July 2022, the program provides guidelines for fair trade with partners and conducts voluntary compliance management monitoring. Additionally, we use the checklist of the Preliminary Business Consultation System to reinforce anti-corruption activities. Employees are regularly updated on the Fair Trade Compliance Program guidelines through the Fair Trade Compliance Manual to ensure awareness and adherence to the program.

CP Organization and Voluntary Compliance Manager

The fair trade compliance tasks are handled by the Legal Compliance Team. The team ensures that all employees are familiar with our compliance program quidelines, receive fair trade education, and participate in monitoring activities to minimize related risks. The Compliance Officer, appointed by the BoD, serves as the voluntary compliance manager. The officer is responsible for operating the Fair Trade Compliance Program and has been delegated the authority to regularly report important matters directly to the BoD and top management.



Operation of Partner Reporting Center

Our partner companies can report any unfair demands or violations of regulations through channels such as the hot-line and the reporting center, both online and offline. Additionally, various support programs are in place to ensure that all partner companies have equal opportunities along with system improvement.

Introduction of Standard Subcontracting Contracts

Hyosung complies with and applies the standard subcontracting contracts published by the Fair Trade Commission. These contracts include provisions to safeguard the physical and intellectual property rights of its partner companies, such as prohibiting forced provision of technical information, implementing and guaranteeing clauses related to technical data storage and protection of intellectual property rights, and clauses regarding the transfer of ownership of object.

Pre & Post-Contract Deliberation System

Since 2019, Hyosung has implemented and operated a pre and post-contract deliberation system with its partners to conduct self-monitoring on potential illegal activities and unfair practices. Before proceeding with transactions, we verify matters such as the provision of written contracts prior to the transaction, prohibition of unfair subcontracting payment determination, and prohibition of coercion regarding goods and unjust economic demands. After the completion of transactions, we confirm issues such as delayed payment, violations of technical data regulations, and possible reduction of unfair subcontracting payments. Operating this deliberation system has proven effective in preventing legal violations in advance and detecting potential risks associated with unfair trading, enabling early improvements to prevent such risks.

| 3. | | | (Unit: Case |
|-----------------------------|----------------------------|------|-------------|
| Category | Company name | 2021 | 2022 |
| | Hyosung Corporation | - | - |
| | Hyosung TNC | - | - |
| Pre-contract deliberations | Hyosung Heavy Industries | 68 | 56 |
| | Hyosung Advanced Materials | - | 462 |
| | Hyosung Chemical | - | - |
| | Hyosung Corporation | - | - |
| | Hyosung TNC | - | - |
| Post-contract deliberations | Hyosung Heavy Industries | 30 | 35 |
| | Hyosung Advanced Materials | - | 11 |
| | Hyosung Chemical | - | - |
| | Hyosung Corporation | 0 | 0 |
| | Hyosung TNC | 0 | 0 |
| Dispute resolution request | Hyosung Heavy Industries | 0 | 0 |
| | Hyosung Advanced Materials | 0 | 0 |
| | Hyosung Chemical | 0 | 0 |
| | | | |

Management for Mutual Growth

Supply Chain Management

Compliance Pledge to 'Code of Conduct for Hyosung Partners' for Mutual growth

Hyosung accepts compliance pledges from its partners for them to actively participate in the 'Code of Conduct for Hyosung Partners', aimed at becoming a trusted company in the community.

By encouraging them to comply with the code, we aim to establish transparent and fair trading relationships with our partners, facilitating their fulfillment of corporate social responsibilities.

Risk Assessment and Management of Suppliers

Hyosung strives to establish fair and transparent criteria for selecting partners. We clearly disclose mandatory and recommended criteria for participating in bidding on our Mutual Growth website, and any interested company can freely apply for registration as a supplier through the e-procurement system. Furthermore, to manage supply chain risks, we conduct registration screening for all new partners before bidding participation. The evaluation criteria for new partner registration include traditional management aspects such as quality, delivery, price, and business performance, as well as compliance with environmental and safety legal requirements and evaluation of ethical management levels, including human rights and labor, Additionally, we conduct reassessment of existing partners and take differentiated actions based on evaluation results.









Commencement of transactions (purchasereceipt)

Evaluation Criteria and Weightage

| Evaluation criteria | Management evaluation | Human rights issues | Environmental / safety evaluation |
|---------------------|--------------------------|---------------------|--------------------------------------|
| Weightage | 50 points | 30 points | 20 points |

Actions Based on Supplier Evaluation

- B Score ≥ 80: Priority given in contract
- © Score ≥ 70: Maintaining the existing transaction
- © Score ≥ 60: Warning and guidance management, special assessment within 3 months
- © Score < 60: Transaction suspension

Since 2022, Hyosung TNC has established and implemented a supply chain management policy that reflects environmental and human rights factors in the management of its partner companies. In addition, it conducted an ESG capability assessment for major domestic suppliers of raw materials and packaging materials, which accounted for 90% of its annual purchases. This assessment was based on Hyosung TNC's own ESG evaluation questionnaire and the ESG self-assessment system of the Korea SMEs and Startups Agency. The results of this assessment were used to support risk management and prevention for partner companies by integrating them with the mutual growth program.

In the construction sector of Hyosung Heavy Industries, an evaluation is conducted annually for partner companies that have been involved in on-site construction for over a month. The top-performing partners are provided with incentives for bidding opportunities, while companies that do not meet the qualification criteria are excluded from the partner list. This ensures thorough management of supply chain risks. In response to the enforcement of the Serious Accident Punishment Act in 2022, the evaluation of safety and health aspects of new partner registrations has been strengthened. Additionally, an ESG management status assessment for both new and existing partner companies has been introduced, and extra points are given to outstanding companies as part of the evaluation process.

The Power and Industrial Systems division has established a system within the Supplier Relationship Management (SRM) platform, which serves as a communication channel with suppliers, to manage the social responsibility management risks of partners. Through this system, suppliers can conduct self-assessments in various ESG sectors.

Hyosung Advanced Materials conducts annual assessments of major raw material suppliers in accordance with international standards such as IATF 16949 and ISO 14001. These assessments cover various aspects, including quality, price, delivery, management, environment, and human rights. Notably, ESG self-assessments covering environmental, labor, human rights, ethics, and safety aspects have been implemented for major partners at overseas business sites to manage and prevent ESG risks. For example, evaluations on topics such as 'awareness training and activities for energy conservation' are conducted to understand climate change risks in the social and environmental sectors and to support partner companies in preventing such risks.

Hyosung Chemical standardized its purchase orders by inserting clauses related to ESG management compliance into its existing purchase orders in both Korean and English. The same criteria are also applied during regular evaluations of partner companies, and the evaluation results are considered during the re-contracting review process.

Green Procurement Policy Compliance

Hyosung is committed to adhering to green procurement policies and taking the lead in practicing green management by purchasing environmentally friendly products and services. Particularly, Hyosung Advanced Materials recently revised its sustainable procurement policy and green procurement policy to respond to the increasing demand for corporate social responsibility in the supply chain sector. As part of this response, the company added provisions related to biodiversity and the prohibition of conflict mineral usage.

| | | | (0) | III. KRVV 1,000 |
|-------------------------------|--|------------|------------|-----------------|
| Company | Purchasing items | 2020 | 2021 | 2022 |
| Hyosung Corporation | Recycled nylon chipsBio-polyester chipsLED and fire extinguishers, etc. | 72,448 | 319,822 | 341,245 |
| Hyosung TNC | Recycled nylon / polyester chips Bio-based spandex raw materials Other eco-labeled certified raw materials | 11,326,858 | 13,201,928 | 28,800,344 |
| Hyosung Heavy Industries | Eco-labeled certified materials High-efficiency energy-certified equipment New and Renewable energy-certified products for energy and pollution reduction Materials for recyclable resources | 61,436,059 | 12,822,586 | 24,705,929 |
| Hyosung Advanced Materials | Bio-based raw materials Recycled polyester chips Yarns utilizing recycled polypropylene chips | 813,313 | 1,141,128 | 1,079,461 |
| Hyosung Chemical | Eco-friendly LED lamps Eco-friendly ink and adhesives Recycled toner, etc. | 206,050 | 314,806 | 366,491 |

^{*}Eco-friendly products: Products that minimize negative environmental impact by considering resource and energy usage, pollutant emissions, etc., throughout the procurement-production-usage processes

Establishment of Supply Continuity Emergency Scenario and Response Manual Hyosung Corporation Hyosung TNC Hyosung Advanced Materials Hyosung Chemical

Hyosung has developed scenario training and a response manual to systematically address delivery emergencies affecting all products supplied to customers. These emergency situations include various scenarios such as labor shortages due to strikes, transportation accidents, environmental incidents, and cyber-attacks. Based on these established scenarios, simulated drills are conducted to assess the extent of damages caused by emergencies, identify the causes, and derive recovery and mitigation measures. Through these exercises, issues and improvement measures for each response phase are identified. Moreover, the effectiveness of response outcomes based on these scenarios is validated through such drills.

^{*}Hyosung TNC: Data for 2020 and 2021 were revised due to changes in calculation standards.

^{*} Hyosung Advanced Materials: Data for 2020 and 2021 were revised due to changes in calculation standards and addition of eco-friendly items for procurement. Performance decreased compared to the previous year due to the overseas transfer of domestic plants in 2022.

UN SDGS LINKAGE





Background

The paradigm of 21st century management activities is rapidly shifting from 'customer-centric management and customer satisfaction' to 'customer experience innovation and customer happiness. A 'sustainable company' can be achieved when all members deeply immerse themselves in activities that understand customers from various and multidimensional perspectives and go beyond providing top-quality products and services to create long-term customer value, namely customer happiness.

Our approach

Hyosung's customer obsession is a business activity that practices 'customer-first' in the beginning, end, and every category of its management activities.

- Rather than just focusing on providing products and services with a competitive advantage over competitors, we strive to understand the root of the problems that customers face even before they do. We perform our tasks with great curiosity and a deep sense of responsibility for creating long-term customer value.
- We boldly challenge ourselves in customer experience innovation and creating customer value. Failures that occur in the pursuit of customer happiness are willingly accepted and become a process of learning and lessons in our organizational culture.
- We actively adopt scientific methodologies for pursuing customer happiness and continuously innovate to achieve 'sustainable customer happiness.'

Our Achievement

Hyosung TNC

International quality standard for hydrogen containers (UN/ECE R134)

Hyosung Heavy Industries

Entry into the eco-friendly and modernization of power grid in Africa

Hyosung Advanced Materials

Carbon labeling certified products

Hyosung Chemical

Production facilities and technology for deuterium ($\mathrm{D_2}$)

Passed with the first domestically produced nylon material hydrogen fuel tank liner

Won contracts for power grid projects in South Africa and Ethiopia

Increased the number of certified products from 3 to 18

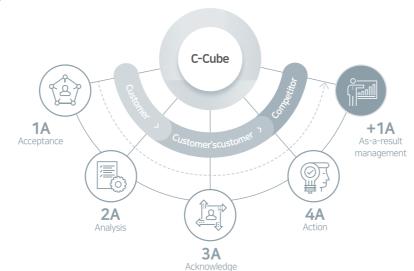
Achieved domestic production for the first time

Realization of Customer Obsession

C-Cube System

Since the introduction of C-Cube activities in 2019, Hyosung has been establishing a 4A+1A process as an execution system within the company. The core of the 4A+1A process lies in the analysis of Real VOC through comprehensive information gathering. Real VOC encompasses needs and issues that customers may not even be aware of, and providing solutions to deliver a 'WOW' experience (satisfaction beyond imagination, namely happiness) to customers is the ultimate goal. Additionally, C-Cube activities aim to identify new challenges for future growth, such as environmental sustainability, and enhance brand value.

4A+1A Process



C-Cube Activities

In 2022, various VOC activity cases were analyzed to identify factors that influenced the outcomes. Based on this analysis, improvement measures were derived to contribute to the success of future activities. Particularly, in the area of environmental sustainability, efforts extended beyond product development to include obtaining eco-certifications, organizing offline events to introduce low environmental impact products, and implementing diverse marketing activities to enhance the company's brand value from the perspective of ESG management.

In 2023, VOC activity cases will be analyzed through discussions among different departments to deepen the analysis and enhance the company's overall analytical capabilities. Additionally, sharing market research and VOCO data collection methods among departments will foster overall organizational capabilities. The activation of C-Cube face-to-face training for overseas organizations, which was impacted by the COVID-19 situation, will be revived to strengthen global deployment of C-Cube activities and enhance collaboration between the headquarters and overseas corporates.

Enhancing Customer Value through Quality Management

Securing Global Competitiveness through 'Quality DNA'

Since its establishment of the Quality Management Promotion Headquarters in 1980 and the expansion of Total Quality Control (TQC) activities across the organization, Hyosung has been committed to quality management from an early stage. In 2005, we declared it as the 'The Year of Establishing the Foundation for Quality Management' and adopted action guidelines such as 'Securing World's Best Quality, Customer Satisfaction through Quality Differentiation, and Nurturing Talent' at the Quality Management Declaration Ceremony.

Based on this foundation, each operating company within the Hyosung operates an internal quality improvement system to produce stable and high-quality products, maintaining standardized production conditions. Furthermore, each has obtained and continually renewed the ISO 9001 certification, a globally recognized quality management certification.

Strict Quality Standards for New Product R&D

Hyosung Advanced Materials

Hyosung Advanced Materials succeeded in the development of a new ballistic helmet using aramid which it had initiated the development of in 2017, and it commenced deliveries of the helmet to the South Korean military in the second half of 2023. By applying its self-developed 'super fiber' aramid, Hyosung Advanced Materials enhanced the bulletproof performance against pistol ammunition compared to conventional materials, while also improving comfort through ergonomic design. These achievements allow it to provide solutions that meet rigorous quality standards in terms of safety and convenience.

Bio Product Certification Acquisition

Hyosung Chemical

Hyosung Chemical obtained bio-based product certification for its optical film product through the United States Department of Agriculture (USDA)'s Bio Preferred Program. The program evaluates the bio-based carbon content of products. Hyosung Chemical's BESTOF Film passed the minimum bio-based content criteria with 47% bio-based content, earning the final certification. By focusing on quality management and obtaining bio-based product certification, Hyosung Chemical aims to offer reliable products and contribute to the expansion of the use of renewable bio-based materials.

Communication with Customers - Real VOC

Addressing Customer's Eco-Friendly Needs through Communication

With increasing global interest in eco-friendly solutions, Hyosung is proactively responding to eco-friendly material needs by strengthening communication with global customers through various domestic and international exhibition activities.



Preview in Daegu / Seoul 2022 - Low Environmental Impact Fiber

Hyosung TNC participated in the largest fiber exhibition in Korea, 'Preview in Daegu / Seoul' and showcased spandex fibers made from corn-based raw materials and nylon fabrics recycled from discarded PET bottles and fishing nets. Additionally, Hyosung TNC presented variety of fashion products, collaborating with top domestic SPA brand 'TopTen' and casual wear brand 'ZioZia'.

ISPO Munich 2022 - Eco-Friendly Fashion Collaboration

At ISPO, the world's largest outdoor and sportswear exhibition, Hyosung TNC collaborated with the domestic sustainable fashion startup brand. PLEATSMAMMA, to showcase 'Discarded Fishing Net Edition' bags and apparel made from 'regen Ocean Nylon', recycled fiber from discarded fishing nets.



Chinaplas 2023 - Carbon Reduction Eco-Friendly Materials

Hyosung Chemical

Hyosung Chemical participated in the Chinaplas 2023 exhibition in China, introducing its Poketone brand. Following its presence at the K-Show 2022 in Germany, it focused on promoting Poketone's eco-friendly features, such as harmless to humans and low CO₂ emissions, by showcasing its applications in EV components in Europe and China and 3D printing materials, aiming to enhance brand awareness.

Needs for Transition to Renewable Energy







Digital substation

Carbon fiber hydrogen fuel tank

H2 MEET 2022 - Eco-Friendly Material for Hydrogen Fuel Tanks

At the H2 MEET(H2 Mobility Energy Environment Technology) 2022, the Hydrogen Industry networking exhibition, Hyosung TNC presented a nylon-based liner material for hydrogen fuel tank for the first time in Korea. Hydrogen fuel tank liners play a crucial role in preventing hydrogen leakage. The nylon-based liner is lighter and stronger than the preexisting metal liner, so it is expected to become a key material that increases the energy efficiency of hydrogen vehicles.

CIGRE 2022 - Eco-Friendly Technologies for Power Transmission and Distribution

Hyosung Heavy Industries participated in CIGRE 2022, organized by the International Council on Large Electric Systems, held in France. As a highly prestigious international technical organization in the power and distribution field for over a century, CIGRE presented various technical seminars and



exhibitions. Hyosung Heavy Industries showcased its eco-friendly technologies along with other leading technologies in the field.

JEC World 2022 - Carbon Fiber Hydrogen Fuel Tanks

Hyosung Advanced Materials attended JEC World 2022, the world's largest composite materials exhibition featuring cutting-edge composite technology. At the event, it introduced hydrogen fuel tanks with TANSOME®, highlighting its outstanding strength, thereby showcasing Korea's excellent technological capabilities to the global audience.





Diverse Communication Channels with Customers

In order to have close communication and active feedback with customers and provide solutions that quickly capture their expectations and demands, we operate various customer communication channels to achieve customer value creation.

Multi-Channel Communication for Customer Engagement

Hyosung Heavy Industries

Hyosung Heavy Industries strengthens its customer communication system by utilizing various communication channels. It publishes the 'Power Technology Magazine' for customers, sharing global trends in power technology along with its activities and achievements. Additionally, it operates the YouTube channel 'Harrington Tube' for ongoing communication.

Marketing through Monthly Newsletters

Hyosung Advanced Materials

As part of our customer communication channels, Hyosung Advanced Materials issues a monthly newsletter to establish a new communication platform. Starting from 2020, it has been publishing newsletters every month to regularly communicate with a wider range of customers. The newsletter contains market information, such as Hyosung Advanced Materials' operational status, introducing new products, raw material prices, and logistics updates. It shares insights on lightweight trends in the new mobility sector and the effects of applying eco-friendly products, thereby expanding opportunities for increased scope of customer companies and sales.

Expanding Online Customer Meetings

Hyosung Advanced Materials

Considering the impact of COVID-19, Hyosung Advanced Materials initiated online meetings and webinars in 2020 as a regular communication channel. It has conducted 3,249 meetings in 2020, 5,624 in 2021, and 8,580 in 2022 to listen to the VOC. Through online meetings, it actively engages customers in climate change response seminars and collaborative work. Particularly, it promptly assesses mutual needs for product carbon footprint and reduction implementation. Global customer companies such as Autoliv, Goodyear, and Continental use this channel to explain their carbon-neutral roadmaps and sustainable management directions. Also they regularly followup on the partner company's mid to long-term carbon emission reduction goals and their execution.

Expanding Product Development and Services to Reflect Customer Needs

Hyosung TNC

Development of Nylon Material for Hydrogen Fuel Tank Liner - A First in Korea



Hyosung TNC was the first Korean company to succeed in developing and utilizing nylon as the 'liner' material for fuel tanks with its proprietary technology. The nylon material applied to hydrogen containers has passed the international quality standard (UN/ECE R134) test, demonstrating its functionality, quality, and technical completeness as a liner material. It plans to collaborate with hydrogen fuel tank manufacturers and automobile companies to conduct commercial tests.

As the market for various hydrogen mobility solutions expands, including hydrogen-powered EVs, drones, trams, ships, and urban air mobility, nylon is expected to attract more attention as a liner material for hydrogen containers. Hyosung TNC is striving to expand new growth drivers by quickly identifying these market trends.

Hyosung TNC

World's First Commercialization of 'regen Bio-Based Spandex' Made from Corn



In response to strong demands from domestic and international fashion brands for eco-friendly products, Hyosung TNC has achieved success in developing and commercializing 'regen Biobased Spandex' made from natural materials extracted from corn, instead of non-renewable resources. This groundbreaking product has received global eco-friendly certifications.

'regen Bio-based Spandex' replaces some of the raw materials extracted from non-renewable resources with materials obtained from corn, which is USDA certified for bio-content. Previously, cornextracted materials were used in packaging, cosmetics, and liquid detergents but were not suitable for high-performance fiber products like Spandex due to their lack of elasticity and recovery. After more than one year of R&D, Hyosung TNC succeeded in commercializing 'regen Bio-Based Spandex' and received the SGS ECO PRODUCT mark, a bio-raw material certification.

Hyosung Heavy Industries

Overseas Market Expansion to Meet Customers' Large Capacity GIS Demands



As the VOC for customers' large capacity Gas Insulated Switchgear* (GIS) increases, Hyosung Heavy Industries has been working on the development of large capacity GIS since 2020, to establish a lineup that can lead the premium large GIS market. By securing global top-level design technology for large capacity

GIS, Hyosung Heavy Industries has been able to quickly enter major markets centered around the Middle East and North America. Particularly, last year's order of 420kV 80kA GIS in Kuwait was a significant achievement as it marked its first entry into the Kuwait market. Moreover, by becoming the first domestic company to penetrate the US large capacity GIS market, which was previously dominated by European and Japanese companies, Hyosung has secured a favorable precedent for expanding future contracts.

The continuous effort to achieve technological differentiation and explore premium markets in the field of large capacity GIS will lead to the completion of high-quality products and customer satisfaction.

*Gas Insulated Switchgear (GIS): A device used to swiftly interrupt current during normal and abnormal conditions to protect the power system

Hyosung Heavy Industries

Promoting Eco-Friendly and Modernization of African Power Grid



The Republic of South Africa's power authority has announced the Just Energy Transition Program (JET) and Energy Storage System (ESS) implementation plan to achieve carbon neutrality by 2050. In response, Hyosung Heavy Industries has focused on customer VOC that emphasizes technological capabilities. It has engaged in activities such as technology seminars to showcase its technological competence, detailed analysis of evaluation criteria using networks, and recruitment of technical advisors from customer companies, all aimed at understanding customer needs thoroughly. As a result of these efforts, it has achieved success in securing the first-phase ESS project by the South African power authority. Furthermore, through high design and construction capability, it has established a strong market presence in South Africa and neighboring regions.

Furthermore, Hyosung Heavy Industries has secured a contract for a large-scale power grid project from the Ethiopian power authority. The project involves the installation of five substations, including AIS and GIS substations in the Southern Nations, Nationalities and People's Region of southwestern Ethiopia. With this project, GIS will be introduced to Ethiopia's national power grid for the first time, leading to further market expansion in the region.

Expanding Product Development and Services to Reflect Customer Needs

Hyosung Advanced Materials

Development of All-PET Circular Economy
Products with Recycling Consideration



Hyosung Advanced Materials recognized that eco-friendly material development is essential for meeting the increasing demand for eco-friendly regulations and achieving carbon neutrality in the automotive industry, as discussed in the company customer conference on future trends in November 2022. To address this, it is currently developing All-PET carpets that can be recycled after use, going beyond the already supplied car carpets with biopolyesters and recycled polyesters for eco-friendly vehicles. With the transformation of automobiles from EVs to eco-friendly Multi-Purpose Built Vehicles (PBVs) that can be provided to customers at a lower cost according to their business purposes and demands, Hyosung Advanced Materials, as an interior material company, is striving to propose new values that meet the needs of customers.

Hyosung Advanced Materials

Expanding Carbon Labeling in Response to Eco-Friendly Trends in the Mobility Industry



Considering the eco-friendly trends in the automotive industry, which is an important customer segment for Hyosung Advanced Materials, it is necessary to calculate and manage not only the emissions from the plant but also the emissions from the products. Following the Sustainability Steering Committee meeting in the first half of 2021, it expanded the carbon labeling* certification, which was limited to three existing tire code products, to all major products in all business units. The GHG Emissions information of the products, calculated according to ISO 14067 and verified by a third party, has been transparently disclosed on our website and elsewhere. In 2022, it obtained carbon labeling certification for a total of 18 products from eight domestic and overseas plants, including carpets, aramids, and carbon fibers. It aims to establish a system for calculating and managing the overall environmental impact throughout the product lifecycle to meet the customer's needs for understanding and improving carbon and other environmental impacts.

*Carbon labeling: A certification process that verifies and awards labels based on the GHG Emissions produced throughout the entire lifecycle of a product. The emissions are converted into an equivalent amount of carbon dioxide (CO₂).

Hyosung Chemical

Best Optical Film, Customers' Total Solution Partner



Hyosung Chemical's Optical Film PU is committed to being the best in the Plain TAC* market, a display polarizer material. It actively reflects the needs of its customers and supplies various widths and lengths of products while making efforts to meet customer demands for specific characteristics. The PU brand 'BESTOF' stands for 'Best Optical Film' and also carries the meaning of 'Best of TAC,' aiming to be the best in the TAC industry. It strives to provide customers with the best quality and performance and position itself as the customer's 'Total Solution Partner.'

*TAC (Tri-Acetyl Cellulose): A type of material used to protect the PVA polarizing film within LCD polarizers

Hyosung Chemical

Strengthening the Semiconductor Material Supply Chain Domestication of the Entire Deuterium Process



Hyosung Chemical's Neochem PU succeeded in domesticating the production facilities and technology for deuterium (D_2) for the first time in Korea in 2022, based on the electrochemical technology developed over 20 years. The newly completed production facility can produce 10 tons of high-purity deuterium annually and is currently undergoing product quality evaluation by a domestic semiconductor manufacturer, with supply to overseas optical cable manufacturers. Deuterium is a gas used in the heat treatment process of semiconductors and optical cables and is classified as a strategic material, making international trade challenging. As Korea relies entirely on imports for deuterium for semiconductors and optical cables, it aims to contribute to the stabilization of the domestic supply chain, thus reducing the country's dependence on foreign sources.

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ESG MANAGEMENT

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_____ APPENDIX

Environmental Management at Business Sites

UN SDGS LINKAGE







Hyosung is committed to minimizing any negative environmental impact caused by its business operations. To this end, we have established a set of internal management standards that are even stricter than the emission allowances set by environmental regulations. Moreover, we are implementing investment plans aimed at improving the overall environmental quality and creating ecofriendly workplaces. Business activities have been identified as one of the contributors to ecosystem destruction. Recognizing the global growing demand for conserving biodiversity, we will initiate various activities geared towards environmental protection and biodiversity conservation, with the goal of creating a healthy ecosystem.



Environmental Management Status of Business Sites

ESG AT HYOSUNG

Environmental Management Policy

Hyosung operates an environmental management system based on ISO 14001, and formulates and manages its own environmental management policy.



Principles of Compliance with Environmental Regulations

- •We adhere to the principles of environmental regulation compliance to mitigate environmental pollution and impacts while ensuring efficient management of environmental risks. The principles include:
- We promptly incorporate amendments to environmental regulations based on our environmental management policies, manuals, and processes. Additionally, we conduct thorough reviews of the regulations to ensure efficient environmental risk management along with annual evaluations of compliance.
- 2. We minimize environmental impacts by setting internal standards that are more stringent than the legal requirements.
- We transparently disclose our adherence to environmental regulations to stakeholders through diverse channels, including sustainability reports, environmental information disclosure systems, and CDP.
- •We establish KPIs and environmental management targets covering environmental certifications, environmental impact assessments, environmental compliance assessments, regulation management, pollutant emission levels, waste generation, and handling of stakeholder complaints, and develop annual plans to monitor the progress and achievement of these objectives.

Air Quality Management

Compliance with Legal Emission Allowances and Establishment of Own Emission Standards

- Hyosung abides by the legal emission allowances for air pollutants and also establishes internal emission standards that are stricter than the legal requirements.
- We conduct continuous monitoring and equipment replacement to ensure continuous compliance with the internal emission standards.
- Hyosung Corporation and Hyosung Heavy Industries have implemented rigorous management by setting the internal emission standards at 20% and 50%, respectively, compared to the legal emission allowances.

Real-Time Monitoring of Air Pollutant Emissions

- Hyosung TNC Ulsan Plant has installed TMS for key facilities to monitor air pollutant emissions in real time, and an expansion of TMS installation is planned to establish a realtime monitoring system for all workplaces.
- At Hyosung Advanced Materials Jeonju Plant, TMS has been installed for facilities that exceed 4 tons of nitrogen oxide (NOx) emissions per year. In addition, real-time automatic measuring instruments have been installed at two outlets to monitor the emission of specific air pollutants and NOx.
- Hyosung Chemical Yongyeon Plant has installed TMS for key facilities to establish a realtime monitoring system for the total emissions of air pollutants. Additionally, to ensure the proper combustion of managed substances, such as volatile organic compounds, a flare stack calorimeter has been operated.

Advancing Environmental Management to Minimize Air Pollutant Emissions

- Hyosung Corporation and Hyosung Chemical have installed low-NOx burners in the boilers to reduce NOx emissions.
- Hyosung Heavy Industries Changwon Plant is currently working on lessening compressed air consumption and extending the lifetime of bag filters through the introduction of injector pulses for descaling. The Changwon Plant also plans to establish replacement cycles and work standards for pre-treatment filters, rubber packings, and activated carbon, including bag filters.
- Hyosung Advanced Materials Ulsan Plant has been participating in the 'voluntary agreement for reducing fine dust and pollutants subject to total volume control' with the Ministry of Environment.
- Hyosung Advanced Materials Jeonju Plant has installed high-temperature specialized ceramic bag filters to all the firing line to minimize dust emissions.
- During the PET film production process at Hyosung Chemical, hazardous workplace substances and atmospheric pollutants are emitted from the in-line coating machine. To address this issue, local exhaust systems and activated carbon adsorption towers have been installed.

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Environmental Management at Business Sites

Environmental Management Status of Business Sites

Water Quality and Effluent Management

Compliance with Legal Emission Allowances and Establishment of Own Emission Standards

- •Hyosung complies with the legal emission allowances for water pollutants and also establishes internal emission standards that are stricter than the legal requirements.
- •With an aim of monitoring water pollutants, Hyosung Corporation, Hyosung Heavy Industries and Hyosung Chemical have implemented rigorous management by setting their own internal emission standards at 20%, 50% and 30% respectively, compared to the legal emission allowances.

Monitoring of Water Pollutant Emissions

- •Hyosung Corporation conducts water quality analysis for specific substance harmful to water quality four times per year for all facilities to manage the emission of newly added pollutants beyond the ones permitted.
- •Hyosung TNC Gumi Plant monitors water pollutant discharge by commissioning monthly water quality analysis to an external specialized agency.
- •Hyosung Heavy Industries monitors the discharge concentration of water pollutants by conducting monthly water quality tests. The wastewater sludge is removed through dredging to enhance treatment efficiency.
- Hyosung Advanced Materials operates a monitoring system that analyzes inflow wastewater and immediately notifies any leaks if the pollutant concentration exceeds normal levels.
- •Hyosung Chemical carries out regular monitoring of pollutant emissions and quarterly reports the actual emissions compared to planned targets to the ESG Management Committee.

Minimizing Water Consumption

- Hyosung is dedicated to reducing water usage at each business site to alleviate water stress, implementing water recycling and other water-saving initiatives.
- •At the Hyosung TNC, rainwater is stored in reservoirs within the facility and reused as cooling water, while recycled water is used in various processes to minimize water consumption.
- Hyosung Heavy Industries minimizes unnecessary water use by conducting internal checks to prevent leaks, and recycles water used in watertight tests for switch gears.
- Hyosung Advanced Materials collects water used in production processes and discharges it
 into an emergency reservoir within the plant for reuse as cooling water. In March 2023, on
 World Water Day, a campaign was conducted to raise employee awareness about water
 resources and water scarcity.
- •Hyosung Chemical stores relatively low-contamination washing water in industrial water reservoirs for reuse. The quarterly water usage is reported to the ESG Management Committee, compared to the planned target.

Waste Management

Waste Disposal

 Hyosung makes persistent efforts to cut down on waste generation by promoting the reuse and recycling of a higher proportion of waste produced during its manufacturing processes.

| Category | Activities |
|----------------------------------|--|
| Hyosung Corporation | Sorting, processing, and selling waste synthetic fibers and synthetic resins generated during the processes to recycling companies or entrust them for recycling. Consistently surpassing the annual targets of the resource circulation promotion system. |
| Hyosung TNC | Evaporating the moisture in the emulsion for reuse. Recycling wastewater sludge which was previously disposed by landfilling Installing a high-efficiency dehydrator to minimize wastewater sludge. Recovering methane through anaerobic digestion of wastewater for use as an alternative to fossil fuels. |
| Hyosung Heavy Industries | Selection and recycling of thinner cans, powder cans, miscellaneous irons, etc. Introducing a real-name waste discharge system for waste oil and paint, facilitating reduction in waste discharge. |
| Hyosung Advanced Materials | Recycling all wastewater sludge, synthetic fibers, organic solvents, and wood by entrusting them to a waste treatment company. Commissioning entrusted companies to regenerate used activated carbon into products instead of landfilling. Planning to invest in shredding, neutralizing, and sludge washing facilities in June 2023 to reduce waste dope from aramid waste. |
| Hyosung Chemical | Quarterly reporting to the ESG Management Promotion Committee on waste recycling rates with efforts to increase recycling rates. Considering investments in drying equipment for wastewater sludge to mitigate waste generation. Actively working on developing products conducive to reducing waste. |

Chemical Substance Management

Electronic System for Chemical Management

- •Hyosung controls all chemical substances used in its production processes through an ERP-based electronic system, verifying whether they contain regulated chemicals. When procuring chemicals, we require Material Safety and Health Data (MSDS) and Letters of Confirmation (LOC) from suppliers. Only materials approved after confirming their regulatory status in the Electronic Chemical Management System (ECMS) are eligible for purchase.
- Our electronic system ensures compliance with the Toxic Chemicals Control Act and the Act
 on the Registration and Evaluation, etc. of Chemical Substances, enabling systematic data
 management of all chemical substances. We maintain transparency by submitting and
 disclosing information on chemical substance performance, emissions, and statistical data
 to the Ministry of Environment.

Management of Chemical Substances: Warehousing Inspection on Handling Facilities and Reduction of Hazardous Chemicals

- Hyosung R&DB Labs has developed an low environmental impact catalyst, 'Antimony-Free,' to replace antimony (Sb), one of the eight hazardous heavy metals. Hyosung TNC plans to utilize this catalyst in polyester manufacturing to reduce the use of hazardous chemicals.
- Hyosung Heavy Industries Changwon Plant annually replaces existing hazardous chemicals with non-hazardous alternatives and endeavors to avoid the use of new hazardous chemicals through pre-environmental safety reviews.
- •Hyosung Advanced Materials Ulsan Plant manages data on chemical material intake and outtake for each process, as well as emissions from prevention facilities and water discharges from wastewater treatment plants.
- Hyosung Advanced Materials Jeonju Plant has revised the plans for chemical accident prevention and management by integrating off-site impact assessments and hazard management plans and the plans have been approved by the National Institute of Chemical Safety.
- Hyosung Chemical has installed leak detectors in hazardous chemical storage facilities to ensure early detection of harmful chemicals in case of emergencies and promptly respond to prevent environmental incidents.
- •Hyosung Chemical's Suppliers are required to conduct inspections before shipping, and vehicles transporting chemicals can enter the company premises only after passing preshipment inspections using the Supplier Self-Checklist without any issues found. Upon receipt of the chemicals, related personnel from each team conduct inspections under the supervision of the Environmental Safety Team, the Production Team, and the Quality Team.

Training on MSDS and Handling Chemical Substances

- •Hyosung obtains Material Safety and Health Data (MSDS) from suppliers and provides specialized training to all employees, categorizing them as administrators, handlers, and workers, to prevent chemical accidents.
- We develop response manuals to prepare for chemical accidents and conduct optimized training.



Environmental Management at Business Sites

Key Activities for forstering Biodiversity

RE:GEN GUARDIAN: Hyosung's ESG Activities to Promote Biodiversity

· Hyosung defines RE:GEN GUARDIAN as the 'Journey for all species' and aspires to restore the environment of our planet, encompassing the sea, land, rivers, and air, to its original state. The ultimate goal is to create a better world that can be shared with all generations of humanity.

One Company, One River Initiative

- ·At Hyosung Corporation Anyang Plant, employees engage in monthly environmental cleaning activities along the Anyangcheon stream and Hogegun Riverside Park. These efforts are aimed at enhancing water quality, preserving habitats, and restoring the local
- Employees at Hyosung Heavy Industries Changwon Plant conduct annual garbage collection activities in the riverside areas of Namcheon and Wanancheon, near the factory to safeguard the aquatic ecosystem. Moreover, a collaborative initiative with other companies in Changwon Industrial Complex is scheduled for conducting environmental cleanup activities at Bongam tidal flats and Changwon Gwisan sea, commencing from Marine Day in 2023.
- •Hyosung TNC and Hyosung Advanced Materials actively participate in environmental cleanup campaigns under the One Company, One River initiative. Their dedicated efforts involve the removal of harmful plants to foster biodiversity along Yeocheoncheon, an ecological stream in Nam-gu, Ulsan.

Engaging Citizens and Employees in Plogging and Tree Planting

- Hyosung hosted the 'Sebit ESG Color Festival' at Sebitseom.
- •We organized the 'Sebit RE:GEN Plogging,' to engage citizens in environmental cleaning efforts along the Han River.
- •In celebration of our 50th anniversary, Hyosung established the 'Hyosung Sharing Forest' at Noeul Park within the World Cup Park in Mapo-gu. Since 2016, we have been organizing an annual tree planting event at the Hyosung Sharing Forest, bringing together citizens, employees, and their families to participate in the meaningful initiative.
- •As of 2022, the initiative has successfully planted over 3,000 trees, representing around 40 different species. Additionally, we support annual operating expenses to preserve and manage the ecosystem of Noeul Park.





Contribution to the Shared Growth Fund for Rural Community and Fostering Marine Forest

- · Hyosung has contributed KRW 4.5 billion to the "Shared Growth Fund" for Rural Community and collaborates with Korea Fisheries Resources Agency and Geoje-Si to promote marine forest management for the conservation of marine biodiversity.
- Seagrass, designated as a protected marine species under the Marine Ecosystem Act, plays a crucial role in providing food, habitat, and nursery grounds in marine ecosystems. It is also internationally recognized as a representative blue carbon with its carbon absorption
- •The Shared Growth Fund supports activities to improve marine environment, such as monitoring the distribution and habitat of seagrass, seagrass transplantation, and collection of abandoned fishing gear in the sea.
- · Creating marine forests has various positive effects on marine ecosystem health, including a 2.5-fold increase in benthic organism populations, a 1.5-fold increase in the number of species present, and a 1.2-fold increase in species diversity index compared to before their establishment.





Restoration of Class II Endangered Plant 'Jeonju Pogostemon' (Hyosung Advanced Materials

•In May 2022, Hyosung Advanced Materials signed an MOU with the National Institute of Ecology for 'Biodiversity Conservation and Eco-culture Promotion' and organized a tree planting event for the class II endangered plant 'Jeonju pogostemon' in September at Girin Park in Jeonju.





Implementing Behavioral Enrichment Programs for Wildlife

Hyosung Chemical

Conservation Beyond Natural Habitats and Reproduction Enhancement

- Hyosung Chemical Oksan Plant actively participates in biodiversity conservation activities through 'Behavioral Enrichment' programs in collaboration with Cheongju Zoo, an ex-situ
- · Various behavioral enrichment programs are implemented for the animals living in the zoo, providing them with experiences similar to their natural habitats. These activities include offering opportunities for feeding, play, and sensory stimulation.
- We plan to conduct regular activities to enhance the physical and psychological well-being of endangered wildlife species, such as Asiatic black bears, Eurasian lynx, Leopard cat, and Red-crowned crane, and to improve their chances of successful breeding in the future.





Recognition of Our Commitment to

Hyosung Advanced Materials Hyosung Chemical

Supporting Endangered Species Conservation

- Hyosung Advanced Materials' Efforts in Restoring Class II Endangered Plant 'Jeonju Pogostemon' and Hyosung Chemical's 'Behavioral Enrichment' Programs for Endangered Wildlife Species such as Asiatic Black Bears and Himalayan Tahr were recognized.
- On the 'Endangered Species Day' in 2023, Hyosung Advanced Materials and Hyosung Chemical were awarded certificates and plaques of recognition from the National Institute of Ecology for their dedicated support and sponsorship in conserving endangered wildlife species.







Environmenta

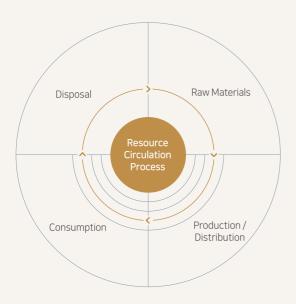
Circular Economy

UN SDGS LINKAGE





Hyosung takes a comprehensive approach to resource circulation to preserve our planet's resources for future generations. Throughout the entire process of our products, from production and distribution to consumption, we are committed to promoting the efficient use of resources, minimizing waste generation, and encouraging the recycling and reuse of waste materials. Aiming to contribute to the creation of a sustainable circular economy society, we implement specific policies tailored to each stage of the process.



Resource Circulation System

Hyosung establishes its company-wide resource circulation process to minimize the environmental impact throughout the entire product lifecycle, from raw material development to production, distribution, and disposal. By managing waste materials according to this process, we aim to contribute to the creation of a sustainable circular economy system.

R&D on Green Technologies

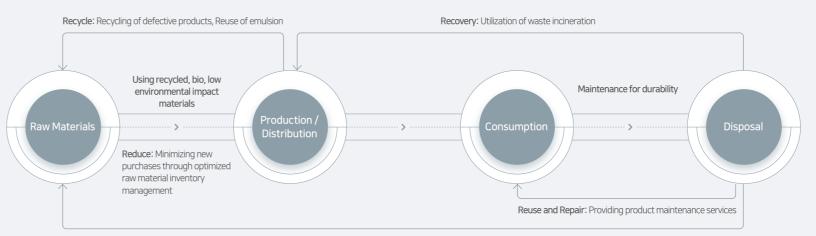
• Developing lyocell tire cord, made of cellulose extracted from wood

ESG AT HYOSUNG ——

- Developing cation dyeable (CD) PET yarn using waste PET bottles as raw materials
- Developing an industrial Bio-PET yarn that is produced using Bio-EG, a material extracted from plants
- Developing the world's first bio-based spandex yarn made of substances extracted from natural raw materials such as corn
- Developing the All-PET car mat with less waste generation.

Using and Producing Low Carbon Raw Materials, Minimizing Use of Virgin Raw Materials

- Developing a technology to recycle waste fishing nets into nylon fabrics.
- Producing recycled polyester yarn using extracted raw materials from plastic waste to apply in fabrics, tire reinforcement materials, car mats, and carpets.
- Developing car mats and carpets using recycled Bulked Continuous Filament (BCF).
- Minimizing new purchases through optimized raw material inventory management.



Recycle: Developing mechanical and chemical recycling technologies and products

Reducing and Recycling Waste

- •Introducing a real-name waste discharge system for waste oil and paint, facilitating waste discharge reductions
- •Installing a high-efficiency dehydrator and investing in the advancement of manufacturing processes to minimize wastewater sludge
- Reuse of emulsion
- •Recycling all wastewater sludge, synthetic fibers, organic solvents, wood, activated carbon by entrusting them to a waste treatment company.

Resource Circulation of Waste Materials Outside Business Sites

- Recycling steam generated by incinerating waste from external incinerators in the manufacturing process
- •Establishing a network to trade external steam and steam generated during process among nearby plants
- Opening 'the Goodwill Store Hyosung Branch 1,' a social enterprise promoting resource circulation, where our employees donated items.

ESG MANAGEMENT

Human Rights Management

UN SDGS LINKAGE





As human rights issues during business activities come to the forefront, corporate responsibility to respect human rights has become an undeniable trend. Hyosung has developed a human rights policy based on the United Nations Global Compact's Ten Principles. Guided by our nine Hyosung Human Rights Management Principles, we provide clear guidelines for all employees to make principled and ethical decisions. Our ultimate goal is to cultivate an upright corporate culture and evolve into a company that fully embraces its social role and responsibilities.



Establishing Human Rights Standards

Human Rights Policies and Principles

- · By means of the 'Hyosung Way,' our value system aimed at 'enhancing and enriching quality of life for humanity with our leading technologies and management capability," we pursue mutual growth with all stakeholders
- · Hyosung establish human rights policies to ensure human rights protection of all stakeholders, and the policies incorporate the Ten Principles of the UNGC, the labor standards suggested by the ILO and the OECD Guidelines for Multinational Enterprises.
- · We comply with labor rights and standards regarding working conditions and strive to protect and promote human rights of employees not only in Korea, but also in all other countries where we have a business presence.

Human Rights Impact Assessment

- •We conduct a company-wide human rights impact assessment once a year. For the assessment, we utilize metrics derived from the human rights management guidelines and checklist distributed by the National Human Rights Commission of Korea.
- •In 2023, we plan to enhance existing evaluation criteria such as measures to institutionalize human rights management and remediation process, and add new evaluation items related to human rights protection within the workplaces to advance the checklist.
- •Through human rights impact assessments, we aim to proactively identify potential risks to our stakeholders and implement activities to prevent the infringement of human rights and mitigate negative human rights impacts.

| Stakeholders | Potential risks | Countermeasures |
|-----------------|---|--|
| | Discrimination in employment | Implementing an employment preference policy for people with disabilities and socially vulnerable groups Operating the maternity protection system - Preventing career breaks caused by childbirth and childcare Conducting employment programs for women in socially vulnerable groups - Increasing female workforce representation |
| Employees | Discrimination and harassment | Operating an in-house reporting center - Establishing a process for reporting and addressing human rights violations and harassment |
| | Employee safety and health | Health check-up programs - Operating programs to prevent cerebrovascular and cardiovascular diseases, health check-up programs for employees, and health funds Mental health programs - Management of mental well-being of employees |
| | Prohibition of forced labor | Adopting a flexible working system - Ensuring compliance with legal working hours |
| Customers | Customer human rights abuse | Reinforcing the customer information security system - Establishing a privacy policy and assigning personnel and departments responsible for information security |
| Suppliers | Safety and health of partners | Enhancing safety management of partner companies - Operating a voluntary safety inspection system led by partner companies - Implementing mentoring programs on safety and health for new partner companies |
| Local community | Guaranteeing environmental rights around the business sites | Building eco-friendly business sites - Investing in environmental facilities to prevent pollution |

Reporting Channel

- •We have established both internal and external reporting systems to address issues related to undeserved demands, unfair business practices, verbal abuse, and physical violence.
- •We have developed a resolution manual for addressing human rights infringements, ensuring the protection of victims and providing appropriate remedies in accordance with regulations.
- · Cases received via the reporting channel are promptly handled by the Audit Team, initiating an investigation following internal procedures. The investigation is conducted with utmost confidentiality, ensuring that any information related to the reported matter or the informant is kept confidential. The progress of the investigation is communicated to the whistleblower in a transparent manner.
- •The HR Counseling Center is operated to collect and deliver employees' work-related grievances directly to the HR Team, covering various issues such as conflicts with colleagues, career aptitude, and workplace bullying. The HR Team takes appropriate action and resolves issues through interviews with employees.

Employee Training on Human Rights

- •We conduct human rights training programs both online and offline, covering various topics such as combating sexual harassment and assault, preventing abuse of power and workplace bullying, and promoting awareness of the rights of people with disabilities.
- We unfold various campaigns with an aim of creating a working environment that can safeguard
- · We establish our own comprehensive countermeasures against power abuse and continually carry out prevention activities to spread a culture of mutual respect.

| Category | Training | Content |
|---------------|--|--|
| | Training on the prevention of workplace sexual harassment | Eliminating sexual harassment and violence, and relevant regulations |
| | Training on the prevention of workplace bullying | Defining bullying and discrimination, and learning relevant regulations and preventive measures |
| All employees | Training for raising awareness of people with disabilities | Understanding type of disabilities, and learning relevant law and regulations |
| | First step toward human rights (dignity) | The meaning of human dignity, the history of human rights and dignity of interdependence (materials on the YouTube channel of the National Human Rights Commission) |

Talent Management

UN SDGS LINKAGE









In pursuit of fulfilling its mission to 'enhance and enrich the quality of life for humanity with our leading technologies and management capability,' Hyosung seeks to attract individuals equipped with the qualities of 'Global Excellence,' 'Innovation,' 'Accountability,' and 'Integrity,' nurturing them to become global leaders. Moreover, we place emphasis on enhancing employee engagement and job satisfaction by promoting work-life balance and fostering a positive organizational culture, which is achieved through active listening and incorporation of employees' valuable feedback.



Global Excellence

Talents with global competitiveness and superior capabilities

Innovation

Talents who embrace new challenges

Accountability

Talents who work with a sense of ownership

Integrity

Talents who build trust in their work with colleagues

Talent Recruiting and Onboarding Support

Direction

- We fulfill our mission to 'enhance and enrich the quality of life for humanity with our leading technologies and management capability.'
- We seek to attract talents equipped with the qualities of 'Global Excellence,' 'Innovation,' 'Accountability,' and 'Integrity'.
- We aim to become a global leader, together with our employees.



Open Recruitment

- ·We operate both regular and occasional recruitment channels to attract 'global leaders' who can fulfill Hyosung's mission
- •We transparently share information on employment contracts and the recruiting process through our own online recruitment site.
- · All applicants are given equal opportunity in the recruitment process and are not
- subjected to discrimination based upon their academic background, age, race, gender, or
- •In order to serve the socially disadvantaged, we implement the employment preference policy for people with national merit or disabilities.
- •To ensure fair and open recruitment, we deliver preliminary training to interviewers

Onboarding Programs

- •We operate onboarding programs to help new employees quickly adapt to the company and demonstrate their capabilities.
- > New hires include junior-level employees selected through regular recruitment, experienced employees selected through occasional recruitment, and externally recruited executives.
- New employees participate in introductory training on Hyosung which consists of lectures on Hyosung's core values, history, business skills, and special lectures - immediately after joining the company. Job training and OJT programs are provided for each operating company and department to help employees better understand their positions and easily adapt to the corporate environment.
- Experienced employees participate in a 3-day training program once a guarter aimed at helping them become familiar with the core values, corporate culture, organizational structure, and systems of their new organization.
- Externally recruited executives participate in 1:1 intensive training, provided by in-house lecturers, to better understand the management status, organizational structure, corporate culture, and management philosophy.
- Considering the constraints presented by the prolonged COVID-19 pandemic, a metaverse platform is in operation to help new employees more quickly adapt to the company and develop an emotional bond with their colleagues.

| Category | Onboarding programs |
|-----------------------|--|
| New employees | Introductory training consists of programs on Hyosung's core values, history, business skills, and special lectures. Job training for each operating company and department to help employees better understand their positions OJT programs |
| Experienced employees | • Quarterly training program to support familiarization with the core values, corporate culture, organizational structure, and systems |
| Executives | • 1:1 intensive training, provided by in-house lecturers, for better understanding of the management status, organizational structure, corporate culture, and management philosophy |

| | On-the-job-Training (OJT) Program | | | | | |
|---|---|--|--|--|--|--|
| Period | Under the guidance of selected senior employees, this program extends over six months following the completion of introductory training provided by Hyosung / operating companies, and job placement in their designated departments (specifics may vary by department). | | | | | |
| Content | Senior employees share required skills to support newcomers in preparing for their new positions. | | | | | |
| Qualification requirements for senior employees | A person who has more than three years of work experience in a department where new employees are assigned A person who has an outstanding performance record and understanding of the company A person who is recommended by each team leader | | | | | |
| Description | During the initial four months, the training focuses on hands-on subjects relevant to the position, aimed at enhancing employees' capacity to effectively perform their job duties. For the following two months, newcomers develop essential knowledge and competencies required for the position, reviewing work manuals and engaging in improvement tasks. | | | | | |

RMANCE — APPENDIX

Talent Management

Employee Capacity Building

Talent Development Strategy

- •For the purpose of realizing our core values through global leaders, we have established a comprehensive talent development strategy that includes elements such as 'instilling our management philosophy,' 'nurturing leadership,' 'empowering expertise,' and 'cultivating global competence.'
- •The Human Resource Development Center of the holding company provides programs on core values, management philosophy and leadership skills for all employees, while each operating company provides specialized training to sharpen job expertise and skills.



Instilling Our Management Philosophy

- Our management philosophy is deeply integrated into our training programs, where we embed our core values, known as the 'Hyosung Way,' and the corresponding 'Work Attitude' that aligns with these values to all our employees. Through this approach, we encourage and inspire our employees to follow a unified direction, fostering a workplace culture that embodies and practices these values.
- •We conduct training programs to raise awareness about the significance of mutual collaboration and effective communication among team members, fostering work synergy.



| Training program | Content | Trainee |
|---|--|----------------------------------|
| Work attitude training on responsible management practice | Fostering work attitudes for responsible management: Studying job-specific best practices and developing concrete action plans for implementation during actual tasks. | All employees |
| Training for new employees | Training on corporate history, business, core values, and work attitude to facilitate quick onboarding of new employees | New hires (new / experienced) |
| Training by position | Programs to enhance capabilities, leadership, and measures to increase brand value for each job position | All employees |

Empowering Expertise

- •To achieve value-driven management through global excellence, we offer progressive training programs tailored to each job group.
- Each operating company conducts customized vocational training at the PU / business site / team level, tailored to the unique characteristics of its business. This training approach integrates hands-on work experience and learning concurrently.
- •Job training programs encompass knowledge and skills essential for fulfilling job duties within sales, research, production, and accounting sectors.

| Job Training by the Human Resource Development Center (for All Employees): Core Knowledge / Skills by Job Group | | | | |
|---|---|--|--|--|
| Category | Content | | | |
| Common | Business communication, presentation skills, strategic planning, problem-solving, data utilization, agile methodologies | | | |
| Sales | Marketing strategies, customer consultation skills, key client management, overseas market research, price negotiation, sales strategy | | | |
| Production | Manufacturing cost management, quality issue resolution, process innovation, quality management, on-site problem solving, data analysis | | | |
| Research | Project management, R&D performance evaluation, creative problem solving, cost-saving design, product/process improvement | | | |
| Accounting | Financial statements, financial analysis, cost management, cost / profit analysis, business feasibility analysis, enterprise valuation | | | |

Occasional Training by PU / Business Site: Job Knowledge / Skills by Business

| Category | Content | | | | |
|---------------------|---|--|--|--|--|
| Sales | Comprehensive understanding of sales activities, including customers, markets, competition, credit, inventory, and logistics | | | | |
| Production | Comprehensive understanding of production activities, including processes, facilities, quality, innovation, and environmental safety | | | | |
| Research | Comprehensive understanding of R&D activities, including technology development, research methodologies, feasibility studies | | | | |
| Management | Comprehensive understanding of management and operations, including costs, accounting, regulations, HR, labor relations | | | | |
| Common competencies | Relevant knowledge and competencies required in each business division, including product knowledge, work attitude, organizational strategies | | | | |

Nurturing Leadership

•We have developed a diverse range of educational programs to cultivate leaders who will steer the company's ongoing growth. Through a tiered training, we aim to polish up overall management capabilities, elevate leadership skills, and foster a positive organizational culture, all of which will enable us to effectively manage and operate the business.

| Category | Content | | | |
|--|---|--|--|--|
| New executives | Nurturing essential entrepreneurial management competencies and the mindset required for executive roles | | | |
| Scouted executives Assisting the onboarding of scouted executives by providing education on our values, business status, and company policies | | | | |
| GMC (Global Management Course) | Assisting the onboarding of executive candidates by providing education on key management functions and assigning improvement tasks | | | |
| Team leaders | Engaging in detailed discussions with team leaders to implement our management philosophy effectively Supporting team leaders in improving intergenerational understanding and communication skills to enhance their leadership Enhancing regular assessments and feedback for team members to ensure effective team management | | | |
| New team leaders | Supporting newly appointed personnel to fulfill their roles and responsibilities, as team leaders, in terms of performance / personnel / organization management | | | |
| | | | | |

Cultivating Global Competence

- •We listen to the educational needs to ensure the sustained growth of overseas subsidiaries, providing training programs for local personnel and resident staff.
- In 2022, we focused on capacity building of local personnel in China
- > Providing training to local sales personnel on collecting trade information and enhancing consultation skills.
- > Creating a cohesive Hyosung identity through training programs covering the company's history, global business operations, and the Hyosung Way, specifically targeting newly promoted employees.
- •In 2023, our focus will be on cultivating successors, including candidates for corporate leadership, to advance a management approach led by local personnel. We will provide consultation for overseas subsidiaries in need of educational systems.

Talent Management

Work & Life Balance

Work & Life Balance

• Driven by the conviction that the well-being of employees underpins our growth, we embrace family-friendly management practices and facilitate internal and external communication initiatives. These efforts are aimed at assisting our employees in achieving a work-life balance.



Refresh Day and Designated Holiday System

- Under the 'Refresh Day Policy,' Hyosung encourages employees to take advantage of up to five consecutive annual paid holidays in situations where using their paid leave might be challenging due to plant operation schedules.
- We also implement the Designated Holiday Policy, granting employees time off, aligning with one-day national holidays or traditional holidays. In 2022, we assigned holidays through this system in months that has no statutory holiday.

Flexible Working Arrangements

- ·Hyosung adheres to legal working hour regulations (52 hours per week) while promoting flexible work arrangements to enhance employee productivity.
- •We have introduced a selective working hours system and a flexible working hours system, ensuring overtime compensation for extra work.
- •Through these mechanisms, employees can effectively manage their time based on workload, fostering flexibility and efficiency.

Healthcare and Self-development Support

Programs for Healing and Hyosung TNC Hyosung Heavy Industries Hyosung Advanced Materials Mental Well-being to Overcome Pandemic Fatigue

- •In light of the prolonged COVID-19 situation, we have initiated programs aimed at boosting employee morale and relieving the stress arising from work responsibilities.
- Operation of non-face-to-face health and culture programs, real-time YouTube tours with local guides and experts, online art museum tours, and online meditation provide a chance to recharge comfortably.

Subscription Services for Self-Development

- •In the midst of the rapid digital transformation prompted by the aftermath of COVID-19, we have broadened the scope of education to include on-demand services for our employees, beyond virtual learning.
- Starting from 2022, we have introduced subscription services such as 'Audio Classes' and 'Audio Books,' tailored to individual preferences. These offerings empower employees to engage in self-development anytime and anywhere, with a variety of topics, leveraging digital devices.

Retirement Support System

Hyosung TNC Hyosung Advanced Materials

- In 2022, the Reemployment Support System evolved into the Career Design Program, expanding its participant scope from employees reaching retirement age to employees aged 50 and above. This adjustment enables them to actively prepare for their second phase of life.
- •A new program was introduced to assist employees aged 50 and above in creating
- ·Participants have the opportunity to select specific areas of interest, such as relationships & networking, health, finances, housing & leisure, as part of the proactive preparation for their post-retirement life.

Family-friendly Management

Support for Educational Expenses

- Full support of admission and tuition fees for children entering or currently enrolled regular high schools and universities /colleges in South Korea
- Financial aid for children studying in foreign high schools and universities

Support for Leisure Activities

- Supporting club activity expenses for employees
- Offering condominium support for employees and their family members

Healthcare Management

- Providing comprehensive health check-ups for all employees
- Providing comprehensive health check-ups for spouses of employees aged 40 and above
- Subscribing accident insurance coverage for all employees

Maternity Protection System

- Providing maternity leave of 90-120 days before and after childbirth, and leave for prenatal checkups
- Shorten working hours during pregnancy
- Providing leave and medical expense support in case of miscarriage or stillbirth
- Allowing shortened working hours and childcare leave after childbirth
- Securing place and time for breastfeeding
- Allowing leave for spouse's childbirth and family care leave
- Restricting night and holiday work for pregnant employees

In-house Daycare Centers

- Hyosung operates in-house daycare centers in the Mapo, and Changwon
- •To create a nurturing childcare environment, we collaborate with professional childcare service agencies to hire skilled teachers, ensuring high-quality education and



dependable childcare. Additionally, we perform regular inspections to ensure the absence of toxic substances.

Talent Management

Organizational Revitalization Activities

Team Building Activities (Hyosung One Team, HOT)

- Hyosung operates a team-building program called 'Hyosung One Team' (HOT) with the aim of fostering effective communication and cooperation within teams to generate synergies
- Initially, the HOT program was organized on a voluntary basis until 2018. Starting from 2019, it has been integrated into the training curriculum for new team leaders. This integration helps new leaders swiftly restructure their teams and establish seamless communication channels with their team members.
- •Through this program, participants have the opportunity to assess their team dynamics, pinpoint underlying issues, and collaboratively develop solutions, thereby using the experience as a stepping stone for further progress.
- •The HOT training program was temporarily halted due to the COVID-19 pandemic. However, we are currently resuming the program, which is contributing to enhance team atmosphere. Moreover, we are designing courses tailored to the diverse needs of teams such as fostering intergenerational communication, strengthening collaboration, and improving work efficiency.

The Proud Hyosung-er Award

- Proud Hyosung Employee Recognition Award is conducted on a quarterly and annual basis to executives or employees who achieve outstanding performance in contributing to our growth and development.
- Winners are selected from the marketing, technology, research, and management support divisions, and monetary incentives and promotion-related advantages are given as rewards
- •Through the award, we motivate employees to achieve management goals and expand the scope of recognition to include qualitative contributions beyond quantitative achievements, acknowledging and encouraging employees' efforts.



Enhancing Communication

Mutual Communication System

- In order to facilitate cross-departmental communication in PGs and PUs, we are designating 'Communicators' at each business site.
- •At least one employee at each site should be selected as a communicator. Once appointed as a communicator, the employee is responsible for communicating and sharing information on issues pertaining to their business site, after undergoing proper training related to organizational communication.
- We operate programs to enhancing work synergy, with the goal of recognizing the importance of mutual cooperation among team members and effective communication.
- •Team leaders acquire mentoring and coaching techniques to foster their subordinates, while improving their communication skills to support organizational effectiveness. Team members understand cross-generational work methodologies, developing work capabilities through effective communication.

Enhancing Labor-Management Communication

- Labor unions are established within the company. At each business site, they regularly conduct briefing sessions or tiered meetings, sharing our management status to employees.
- Our headquarters and each business site have established Labor-Management Committees, holding quarterly meetings to address received complaints and manage issues at a company-wide level. Continuous monitoring ensures the progress of improvements.

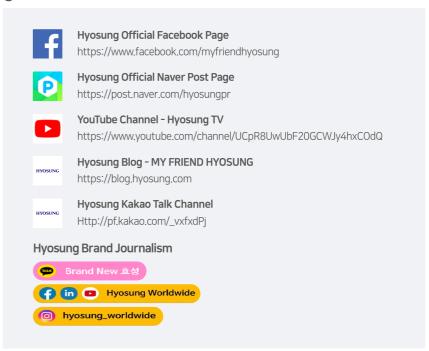
HR Counseling Center

- •The HR Counseling Center serves as a communication channel to collect and deliver employees' work-related grievances regarding various issues, such as sexual harassment, embezzlement, and personnel corruption, to HR executives.
- •The center has contributed to an increase in employee satisfaction and a decrease in the employee turnover rate by providing them with grievance counselling and opportunities to change job duties.
- •HR executives conduct direct interviews with employees and give them feedback under strict confidentiality.

Internal Bulletin Boards, Blogs and Other External Communication Channels

- Hyosung operates communication boards such as 'Tong Tong Bulletin Board' and 'Wagle Wa-gle' on the company intranet where all employees can widely share business information and news, as well as freely exchange their opinions.
- •We proactively engage with and address the feedback and suggestions submitted by employees through the Tong Tong Bulletin Board.
- •We share diverse news both within and outside the company including major corporate news, updates on social contribution activities, and employee stories through the Hyosung blog, 'MY FRIEND HYOSUNG,' the company magazine, and inhouse broad casting HBS.
- We share information about our business, products, and sustainable management through various external communication channels such as YouTube, Instagram, Facebook, and KakaoTalk.

External Communication Channels



•Search for 'channel name' in KakaoTalk, YouTube, Instagram, Facebook, and LinkedIn.

Corporate Social Responsibility

UN SDGS LINKAGE













In contemporary society, companies are called upon to fulfill various responsibilities beyond the traditional roles of production and employment, and actively address diverse social issues as members of society. Accordingly, it has become important for companies to discharge their social responsibilities and seek sustainable growth by gaining legitimacy and fostering a positive reputation. Rather than offering short-term assistance, Hyosung aims to create a society where beneficiaries can become self-reliant. We also continue to work on achieving mutual benefits for the company and local communities by enhancing social contribution activities closely aligned with our core business activities.

Our Achievements



KRW 3.071 billion

Social contribution invest-ments



Selected for 4 consecutive years

> CSR in the Community



298 individuals hired

Among participants in the Employment Promotion Program

Corporate Social Responsibility System

CSR Strategy

- · Under the social contribution slogan, 'we will stand with you through sharing,' Hyosung carries out social contribution activities based on its vision of being 'a company that empowers beneficiaries to pioneer their future through education and sharing'.
- In pursuit of our vision, we have formulated our CSR strategy across three focus areas: aiding vulnerable groups domestically and internationally, sponsoring cultural and artistic endeavors, and providing assistance to patriots and veterans.
- We carry out social contribution initiatives using low environmental impact products linked to our core businesses, aiming to tackle climate change and advance ESG management in tandem.
- Strengthening our commitment to giving back to society, we support women re-entering the workforce after a career break, sponsor Goodwill stores, and extend aid to elderly national merit recipients, etc.



We Will Stand with You through Sharing

A company that empowers beneficiaries to pioneer their future through education and sharing

Aiding vulnerable groups domestical-ly and internation-ally

Creating a society where

beneficiaries can become

self-reliant

Sponsoring cultural and artistic en-deavors

Providing assis-tance to patriots and veterans

UN SDGs

Mid- to

ong-term

KPIs









Discovering sus-tainable programs through communi-cation with local stakeholders in-stead of one-time support

Expanding long-term support pro-grams for three years or more

Selected for 'CSR in the Community' Recognition Institution

- Since 2019, we have been recognized for our social contribution efforts in the Corporate Social Responsibility in the Community program, jointly conducted by the Ministry of Health and Welfare and the Korean Council of Social Welfare, for four consecutive years.
- •In partnerships with non-profit organizations, we participate in social contribution activities to promote community engagement.
- · Hyosung Advanced Materials Ulsan Plant was acknowledged for its contributions and received commendation from the Minister of Health and Welfare in December 2022.

| Company | CSR activities | | | | |
|---|---|--|--|--|--|
| Hyosung Corporation | Employee volunteer activities and support for the Janggunbong Daycare Center for children with disabilities | | | | |
| Hyosung TNC | Assistance for the rehabilitation treatment of children with disabilities and their sib-lings by the Purme Foundation Providing learning support to Jangseongpo Elementary School through One Company, One School initiative and supporting Junggo-san Village through One Company, One Vil-lage initiative | | | | |
| Hyosung Heavy Industries | Support for Eden Welfare Foundation, a so-cial enterprise for individuals with severe dis-abilities | | | | |
| Hyosung Advanced Materials | Sponsorship for the production of barrier-free films Employee volunteer activities and support for Young Nak Aenea's Home Providing learning support to Jangseongpo Elementary School through One-site, One-school initiative and supporting Junggo-san Village through One-site, One-villag initiative | | | | |
| Hyosung Chemical Sponsorship of WESTART Multicultural Family Education Program Love Sharing Baking Volunteering | | | | | |



Our CSR Achievements

| Category | Unit | Hyosung Corporation | Hyosung TNC | Hyosung Heavy In-dustries | Hyosung Advanced Materials | Hyosung Chemical |
|----------------------------------|-------------|---------------------|-------------|---------------------------|----------------------------|------------------|
| Social contribu-tion investments | KWR million | 430 | 785 | 612 | 790 | 492 |
| No. of programs | Program | 26 | 36 | 33 | 38 | 41 |
| No. of participating employees | Person | 309 | 551 | 1,298 | 772 | 533 |
| Total volunteer hours | Hour | 159 | 1,108 | 437 | 1,171 | 183 |



Corporate Social Responsibility

Aiding Vulnerable Groups in Korea

CSR Performance Measurement

- •Hyosung evaluates social contribution activities through a CSR performance measurement process designed by experts to promote activities that are necessary for sustainability – such as those defined by the UN SDGs.
- Since 2013, we have conducted internal performance measurement of selected CSR
- We enhance the effectiveness of our CSR activities by conducting internal performance measurements, sharing the results with stakeholders, and identifying proper improvements.

Sponsoring Goodwill Store

- •The 'Goodwill Store' hires persons from vulnerable groups such as people with disabilities and North Korean defectors to contribute to their economic independence.
- •The store uses profits from donated goods for job creation and vocational training for the disabled
- · Hyosung has installed donation boxes for the Goodwill Store in our head office and at each business site, and we deliver items donated by employees to the Goodwill Store Eunpyeong Branch.





Social Value Creation in 2022 Approx, KRW 160 million (Cumulative social value* KRW 2.25 billion)

*The cumulative social value is the sum of sponsorship amounts, value of sponsored goods, and indirectly generated amounts (institution staff wages or beneficiary wages) from the year of project initiation (2013-2014) to 2022.

Donation for Disaster Relief

- •We have made donations in the event of disasters such as fires and floods in local communities
- •In March 2022, we made donations of KRW 300 million to the Korean Red Cross for residents affected by a large-scale forest fire in Uljin, Gyeongbuk, and Samcheok, Gangwon.
- •In August, a donation of KRW 300 million was delivered to the Korean Red Cross for flood victims in the central region due to concentrated heavy rainfall.

Sponsoring Eden Welfare Foundation

- Since 2014, we have supported Eden Welfare Foundation, a social enterprise to create job opportunities for people with disabilities.
- We have donated old PCs and monitors and financed the cost of replacing production facilities and lights in plants, ensuring a safe working environment for them.
- As of 2022, we have provided a total of 10,732 units of computer equipment.





Social Value Creation in 2022 Approx, KRW 1,84 billion (Cumulative social value* KRW 18.84 billion)

Employment Promotion Program for Women from Vulnerable Groups

- We are promoting the employment of middle-aged women and women with experience for their economic self-reliance and growth
- In line with the government's job creation goals, a total of 37 participants received support, and 27 of them secured employment in 2022.
- From 2013 to the present, out of a total of 400 participants in the employment support program, 298 have found jobs.





Social Value Creation in 2022 Approx, KRW 660 million

(Cumulative social value* KRW 7,21 billion)

Supporting Disabled Children and Non-disabled Siblings

- •Through the Purme Foundation, Hyosung sponsors rehabilitation treatment for disabled children and provides educational and counselling expenses for their nondisabled siblings
- In 2022, we organized family trips for families with disabled children and Hyosung families, outings for non-disabled siblings, and year-end music concerts with disabled



CASE

Social Contribution Related to Core Business

We supported our low environmental impact products in the rural farming area of Gunbuk-myeon, Haman-gun, Gyeongnam Province.

- · Hyosung TNC: T-shirts made using Regen, our recycled
- · Hyosung Advanced Materials: Agricultural drying machines made from carbon fiber
- Hyosung Chemical: Tableware made from Polyketone
- · Hyosung Heavy Industries: Support for solar power generation facilities



Hyosung TNC T-shirts made using Regen, our recycled fiber product



Hyosung Chemical Tableware made from Polyketone



Hyosung Advanced Materials Agricultural drying machines made from carbon fiber



Hyosung Heavy Industries Solar power generation facilities



Corporate Social Responsibility

Aiding Vulnerable Groups Abroad

Overseas Child Sponsorship

- •Through voluntary salary sharing among employees, we establish connections with vulnerable children in Vietnam, providing financial support for their education and livelihood
- Our Matching Grant fund is used for classroom expansion, improvement of drinking water quality, awareness-building, and construction of libraries, in order to help develop the regions where these children live.

Supporting a Health Promotion Project for Female Juveniles in Rwanda

- Hyosung conducted activities to build 'Girls Rooms' and enhance public health and sanitation for the benefit of female juveniles in Rwanda.
- In 2022, we initiated the construction of menstrual sanitation facilities in Kamegeri and Ngoma, Mukiza in Rwanda, aimed at assisting female students in managing their menstrual hygiene effectively while at school. In addition, we conducted local community education programs to enhance the rights and well-being of female children.

Support for Kindergarten Construction in Quang Nam, Vietnam

- In 2022, we provided support for the construction of a kindergarten in Quang Nam, Vietnam, where we operate business.
- Recognizing the lack of kindergarten infrastructure preventing children from receiving education, we undertook the construction of one kindergarten building, and employees from the subsidiaries in Quang Nam corporation participated in volunteer activities.



Sponsoring Cultural and Artistic Endeavors

Certification of Exemplary Institution Supporting Culture and Arts

- Since 2015, Hyosung has been certified by the Ministry of Culture, Sports and Tourism of Korea as an excellent institution for supporting culture and the arts.
- •The certification recognizes and approves model organizations and companies that proactively implement sponsorship activities in the cultural and artistic sectors.
- •We have been recognized for our continued support in this regard, including our sponsorship of Yeonwoo Theater, cultural heritage activities for Changdeokgung Palace, and funding the production of a musical show for preventing violence.

Support for Theater Troupe

- •As part of our sponsorship of cultural and artistic endeavors, we have supported Yeonwoo Theater since 2015.
- •The sponsorship funds are used to discover new actors and scriptwriting in creative play development.

Support for Barrier-free Film Production

- Since 2018, we have sponsored the production of two barrier-free films each year, and have donated the voices of our employees.
- Barrier-free films provide visual description for the visually impaired, allowing them to enjoy movies without constraints. They also offer subtitles for dialogue, sound, and music for the hearing impaired.
- In 2022, The movies 'Astro Gardener' and 'The World of Us' were made into barrier-free versions with support from Hyosung.





Providing Assistance to Patriots and Veterans

Housing Support for Veterans

- Over the ten years since our first donation in 2012, we have been working with a wide range of companies to improve residential environments for people of national merit.
- In 2022, we reconstructed and renovated 9 old houses belonging to war veterans.
- We supported 95 homeless war veterans in moving into rental houses.
- •Through this project, we have provided pleasant residential spaces to 439 war veterans.

Supporting AI Care Robots for Patriots and Veterans

- In 2022, Hyosung supplied AI care robots called 'Pibo' to 10 elderly individuals who are national merit recipients and live alone and have faced restricted in-person interactions due to the impact of COVID-19.
- •The Al care robot called 'Pibo' is a doll-type robot that offers assistance by providing
- information such as news and weather updates, monitoring body temperature and heart rate, reminding individuals of medication schedules, and offering emergency assistance in critical situations.
- In recognition of our donation of 40 Al care robots to elderly national merit recipients in 2021, we were honored to receive the Patriotic Culture Award from the Ministry of Patriots and Veterans Affairs.

Welfare Support for the Korean Military

- Since 2016, Hyosung has sponsored welfare benefits for the Korean Army, including book cafes and physical training supplies and laundry rooms.
- •In 2022, we continued to provide welfare support for the Korean Army



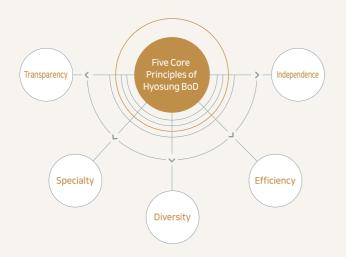


Governance

UN SDGS LINKAGE



Aligned with the mission of 'Enhance and enrich the quality of life for humanity with its leading technology and management capability', Hyosung is dedicated to governing our company through a transparent and equitable governance structure and operational principles. As the highest decision-making body, the Board of Directors (BoD) consist of members from diverse backgrounds and equipped with expertise. This approach ensures impartial and independent decision-making and establishes a governance framework that facilitates efficient management through checks and balances based on five core principles. In pursuit of sustainable growth and safeguarding shareholder rights, the BoD deliberates and determines matters mandated by law, corporate articles of association, and delegated by the general meeting of shareholders, or high-priority issues pertaining to fundamental company policy and business operations. Moreover, the BoD endeavors to uphold the interests of various stakeholders and shareholders.



Composition and Operation of the Board

Independence and Transparency of the Board

- •Hyosung upholds a BoD structure that includes a majority of outside directors who are carefully selected and verified by the Outside Director Candidate Nomination Committee. This setup ensures effective checks and balances on the company's management practices.
- Resolutions of the BoD are reviewed and determined in accordance with the Articles of Association and the BoD regulations. Directors with special interests or other potential conflicts of interest shall be restricted from exercising their voting rights.
- •The Audit Committee is exclusively composed of outside directors.
- •Both the ESG Management Committee and the Outside Director Candidate Nomination Committee maintain a minimum ratio of 2/3 outside directors, with an outside director serving as the chair of each committee to ensure impartiality and transparency.

Expertise and Diversity of the Board

- •The BoD comprises outside directors who are accomplished experts in various fields, including society, economics, finance, law, technology, and the environment.
- •The Audit Committee includes at least one or more experts in the fields of finance and accounting.
- Regular and occasional training sessions are conducted to enhance the expertise of board members and to ensure effective BoD operations.
- For newly appointed directors, we deliver training that covers an overview of the company, including visions, strategies, financial status, and major policies. The existing directors are also provided with training to improve their understanding of the industry.
- •The BoD includes a female director.

Fair and Transparent Evaluation and Compensation

- Each year, directors are evaluated based on their expertise in corporate business and technology, as well as their performance in terms of Board activities.
- •Standing directors are comprehensively evaluated based on quantitative indicators, including sales, operating profits, and net profit as well as non-quantitative indicators such as ESG and global management and the evaluation results are discussed within the BoD.
- Based on the evaluation results, compensation for the board members is approved in the general meeting of shareholders, and is provided within the limits of compensation for directors.
- •The retirement allowance for members of the BoD shall be paid in accordance with the provisions on retirement allowance for executives, which was determined by resolution of the general meeting of shareholders.

Compensation for Directors and Auditors in 2022

Unit: KRW million

| Category | Persons | Total compensation | Average compensation per capita |
|--------------------------------|---------|--------------------|---------------------------------|
| Standing directors | 3 | 13,891 | 4,630 |
| Outside directors | 3 | 163 | 54 |
| Members of the Audit Committee | 3 | 163 | 54 |

Organizational Chart of the Board



Sub-committees and Roles

- •In line with related laws and regulations, Hyosung has established sub-committees within the BoD for prompt and efficient decision-making.
- Certain authorities of the board are delegated to these committees, allowing experienced professional directors to review and address issues accordingly.

| Committees | Roles | | | | | |
|---|---|--|--|--|--|--|
| Management Committee | Reviewing and making resolutions on various agenda delegated by the BoD, including business principles and investments, in accordance with the Articles of Association and the BoD regulations. | | | | | |
| Audit Committee | Addressing audit-related matters, including audit plans, assessing the appropriateness of significant accounting standards and the feasibility of changes to accounting practices, examining the effectiveness of the internal control system, choosing and assessing external auditors | | | | | |
| Outside Director Candidate Nomination Committee | Verifying the qualifications, competencies, and independence of outside director candidates and making recommendations of suitable candidates to the BoD. | | | | | |
| ESG Management Committee | Carrying out preliminary deliberations on major business matters, including spin-offs, mergers, and business transfers and takeovers, as well as shareholder rights and shareholder return policies. Assessing and making decisions regarding significant internal transactions in accordance with the Fair Trade Act, ESG-related policies, objectives and risk management, as well as investment plans. | | | | | |

^{*}In April 2021, the Transparent Management Committee, which was previously in charge of governance under the BoD, was expanded and reorganized as the ESG Management Committee after integrating the environmental and social domains to its scope of activity

Operational Status of Sub-committees*

| Sub-committee | Members | No. of meetings convened in 2022 | |
|--|---|----------------------------------|--|
| Management Committee | 2 inside directors: Hyun-Sang Cho (Chair), Kyoo-Young Kim | 29 times | |
| ESG Management Committee | 3 outside directors: Dong-Chae Jeong (Chair), Yun-mo Sung , So-young Kim 1 inside director: Kyoo-Young Kim | 5 times | |
| Outside Director Candidate Nomination Committee | 3 outside directors: Il-ho Yoo (Chair), Yun-mo Sung, So-young Kim 1 inside director: Hyun-Joon Cho | 1 times | |
| Audit Committee | 3 outside directors: Ki-Ung Kim (Chair), Il-ho Yoo, Byung-Hyun Jo | 7 times | |

^{*} The sub-committees may vary by operating company.

APPENDIX

Governance

Composition and Operation of the Board

Composition of the Board

- •The BoD consists of directors who are appointed in the shareholder's meeting.
- •The BoD is comprised of 3 inside directors and 6 outside directors.
- •Inside directors are nominated by recommendation of the BoD, while candidates of outside director are nominated through a separate resolution process by the Outside Director Candidate Nomination Committee.
- Relevant information is provided to shareholders through reference materials that are disclosed prior to the shareholders' meeting and via the shareholder circular and notice of shareholders' meeting. The resolution is approved by shareholders on the day of the shareholders' meeting.

Board Skill Matrix*

Management / Leadership 9 members • Expertise and experience in managing large-scale organizations

Economics / Industry 7 members

- Expertise in the company's operating industry
- Experience in supply chain optimization encompassing production and distribution, or expertise in efficient corporate operations

Mergers and Acquisitions / Capital Markets

6 members

- Expertise for decision-making on the company's investment activities
- Expertise in merger and acquisition strategies, risk analysis, and relevant regulations

Sales / Marketing

5 members

• Expertise and experience in expanding market share, enhancing brand awareness, and managing corporate image

R&D / Industrial Technology

4 members

• Expertise and experience in research and industrial technology to discover new business opportunities and business models in line with technological changes

Ratio of outside directors

66.7%

• Ratio of outside directors among the total board members

Average age

63.4 years old

· Average age of board members

*Please refer to the operating company website for the board skill matrix for each operating company.

Accounting / Finance

4 members

• Expertise in auditing company accounts and financial management

Law · Regulations / Policy

5 members

• Expertise in identifying and managing issues related to policies, laws, and regulations that could impact the company's management

Environment • Culture / CSR

7 members

• Expertise and experience in human rights management, fair operations, education, culture and arts, social investments, and community engagement related to CSR activities.

Risk Management / ESG Strategy

9 members

• Expertise and experience in risk management to conduct pre-assessment of enterprise risks across management, legal, and accounting

Global Business

7 members

• Expertise in international political dynamics, global environments, and cultural background of various regions for business and risk management

Gender ratio

11.1%

• Ratio of female directors among the total board members

No. of affiliated committees per board member

1.4 committees

- · No. of committees each board member is affiliated with
- * Sub-committees: ESG Management Committee, Audit Committee, Management Committee, Outside Director Candidate Nomination Committee

Operation of the Board

- Regular board meetings are convened quarterly in accordance with Article 6 of the BoD Regulations, with ad-hoc meetings held when necessary.
- In 2022, a total of 6 Board Meetings were held, and the average attendance rate per director
- Outside directors have the right to inquire, express their opinions on management matters, and request information. They are also entitled to access and duplicate various records, ledgers, and other documents. If needed, they can consult internal or external experts to fulfill their business responsibilities effectively.
- •The company is committed to collaborating with outside directors to facilitate the execution of their duties.

Shareholder-friendly Management and Protection of Shareholders' Rights and Interests

- Hyosung has paid year-end dividends for 17consecutive years, from 2006 to 2022, to return its management performance to shareholders.
- We provide notice of the general meeting of shareholders 17 to 22 days prior to the meeting date, allowing shareholders ample time to thoroughly consider the meeting agenda.
- •We implement shareholder-friendly management by enabling shareholders to submit written or electronic proposals for agenda items of the forthcoming shareholders' meeting. This process is open for up to 6 weeks prior to the scheduled meeting, empowering shareholders to actively engage and exercise their rights in corporate decision-making.
- •In addition to the annual performance announcements, we organize regular Non-Deal Roadshows (NDRs) targeting investors in Korea and Asia with an aim of enhancing shareholders' understanding and fostering trust in our company. We also fulfill shareholders' information requests by providing Investor Relations (IR) materials.
- ·We have established an internal control policy and regulations to comply with in the prevention of internal transactions and self-transactions by management leadership or dominant shareholders.



Governance

Integrated Risk Management

UN SDGS LINKAGE





In pursuit of sustainable corporate growth, Hyosung has established and operates a risk management system along with dedicated management organizational. Both financial and non-financial risks can hinder sustainable management. As a response, we offer comprehensive reports that categorizing specific risk and corresponding management measures, taking the lead proactive risk management.



Strengthen Risk Management

Risk Management System

- •The Management Committee and ESG Management Committee under the BoD discuss risk-related matters, major risk responses, and situations management.
- •The ESG Management Promotion Committee, responsible for non-financial risk management, is chaired by the Risk Management Officer, the CEO. Its members include CSO (Chief Strategic Planning Officer), CFO (Chief Financial Officer), CMO (Chief Management Officer), Head of Public Relations, Plant Manager, Head of R&D centers.
- •Finance risks are managed by Head division of Finance under CFO effectively through seamless collaboration between the Sales Division at the headquarters and domestic and overseas subsidiaries. This involves measurement, evaluation, and execution of financial risk assessment and hedging.
- Non-financial risks are managed by the Enterprise-Wide risk management organizations under the direct control of the CEO as well as working-level organizations led by the heads of PUs and Plant Manager.
- > Enterprise-wide risk management organizations under the direct control of the CEO: ESG Management Team, Strategic Planning Division, Management Support Division, CSO.
- > Working-level organizations led by the Heads of PUs and Plant Managers: Responsible for working environment, safety, supply stability, order intake, business site management, and response to litigation risks.

| BoD | Management Committee / ESG Management Committee | | | | | | | |
|-----------------------------|---|---------------------------|--------------------------------------|--------------------------------|------------------|------------------------------------|--|-------------------|
| Top management | ESG Management Promotion Committee | | | | | | | |
| | CEO, Risk Management CSO Officer | CFO | СМО | Head of Public Relations | Plant Manager | Head of Hyosung R&DB Labs | Head of Power & Industrial Systems R&D Center | CS0 |
| Working-level organizations | Financial risks Non-financial risks | | | | | | | |
| | Enterprise-wide risk management organizations Business sit management organizations organization organization | | | ment | | | | |
| | | ESG | Head | Head Divisio | n | | | |
| | Head Division of Finance | Manage ment Officer | Division of Strategic Planning | | - 1 | 0 | Heads of PUs | Plant Managers |

Risk Management by Type

Financial Risk

| Category | Description | Countermeasures | | | | |
|-----------|--|--|--|--|--|--|
| Market | Stock price, interest rate, exchange rate fluctuations | Operating an internal accounting management framework Minimizing Exchange Position and specifying measurement periods, hedging intervals, and hedging ratios in the foreign exchange risk management rule | | | | |
| Credit | Inability of customers or trading partners to fulfill the contract terms | Setting and managing credit limits for trade partners, based on the internal accounts receivable management rule Managing recovery measures including credit investigations and collateral for investments and loans | | | | |
| Liquidity | Unforeseen liquidity deterioration | Forecasting future cash flows to maintain an appropriate level of cash reserves Establishing agreements with financial institutions for emergency fund injections | | | | |

Non-financial Risk: Business Continuity

| Category | Description | Countermeasures |
|------------------------------|--|--|
| Supply chain | Risk of delayed product delivery due to failure to maintain the supply of raw materials and production continuity | Regular self-assessments in accordance with internal contingency plan for supply chain continuity based on emergency scenarios Regular assessments of quality and environmental standards, including IATF 16949, ISO 9001, and ISO 14001, for primary material suppliers Support for consulting and regular evaluation to enhance ESG management capabilities of small-and-medium-sized suppliers Order review and operation of Bid Approval Committee (BAC) |
| Disaster and Safety Risks | Risks that may arise from natural disasters such as earthquakes and fires, and safety incidents within the workplace | Dedicated organization for company-wide safety risk management Establishment of organization for emergency response in case of disasters and safety accidents, development of scenario-specific manuals and recovery measures Regular joint Civil-defense drill based on accident scenarios such as factory fires and explosions |
| Environmental | Risk of legal punishment and fines due to inappropriate response to environmental regulations | Operation of dedicated organization for environmental risk management Regular inspection and prevention of potential risks through environmental impact assessments Renewal of ISO 14001 certification and self-verification activities Conducting Regular drill on environmental incidents based on internal plans, including chemical substances or wastewater leaks |

| Category | Description of Risks | Countermeasures |
|----------------------|--|---|
| Climate change | Regulations related to emission Physical risks to business transition | Dedicated organization for climate change risk management, monitoring of relevant regulations, establishment and implementation of reduction targets Monitoring of GHG emissions from facilities, calculation of product carbon emissions Applying internal carbon pricing in determining the direction of business development and investment |
| Quality | • 4M Method • Impact of continuous supply/delivery | Impact feasibility assessment of 4M* changes and monitoring of product quality Management of nonconforming product handling process Development and training of emergency scenarios for quality management risks |
| Human rights | Human rights violation Human resources management | Regular implementation of human rights impact assessments and subsequent improvement Establishment and distribution of human rights policies and guideline Conducting training on human rights protection, non-discrimination, and operating a reporting system |
| Security | Data loss due to external/ internal cyberattack Internal data leaks | Dedicated organization for Security and operation of security regulations and standards Knowledge management through Electronic Content Management (ECM) Regular training on the ten Information Security Rules and Internal Security Guidelines, security training for departmental security officer and enterprise-wide security training |
| Legal and Ethical | Lawsuits caused by unfair contract conditions and unfair business transactions Corruptions | Ensuring compliance with contract review regulations and utilizing standard contract templates to prevent legal risks, disseminating lawsuit cases to enhance awareness of potential legal risks Enhancing understanding through practical training in foreign exchange, patents, contract management Providing education on anti-corruption laws, subcontracting laws, fair trade laws, and ethics |
| Reputational | Risk of deteriorating reputation due to misinformation or negative communication | Training on PR Risk Management for New Hires, Promotees, and New Team Leaders Enhancing Awareness through Conducting Case-based Education on Principles and Processes for PR Personnel Stakeholder Communication for Brand Marketing and Various Channels Understanding |
| Brand / Marketing | Brand/Trademark Rights Infringement Misrepresentation/Exaggeration/ Minimization of Information Selective Information Dissemination Excluding Vulnerable Audiences | To safeguard and enhance the protection and value of the brand and trademarks, establish separate guidelines and adhere to them Stablish and implement "Ethical Marketing Operating Principles" Encourage external agencies handling advertising and marketing outsourcing to adhere to the operating principles |

^{* 4}M : Man, Machine, Material, Method

Ethical Management

UN SDGS LINKAGE



Hyosung has established the Code of Ethics and associated guidelines to foster an upright corporate culture. By conducting periodic reviews, we are establishing a process to strengthen our ethical management. Additionally, we operate three reporting channels, including the HR Counseling Center, Reporting Center, and Grievance Handling Center, to enhance awareness of ethical management. Our Audit Department conducts regular management assessments and audits of reports received both internally and externally.

Process of Strengthening Ethical Management



Ethical Management System

Strengthening Ethical Management

- In our commitment to integrity management, we have formulated the Code of Ethics along with accompanying guidelines, providing a set of standards that every employee follows to make principled and ethical decisions.
- In 2022, we revised our policies on Code of Ethics, Human Rights Management, Prevention of Discrimination and Harassment, Anti-corruption. We also strengthened the compliance standards for employees, including measures against embezzlement and fraud, protection of internal whistleblowers and overall ethical guidelines.
- •The CEOs of Hyosung Corporation and its four operating companies have participated in the 'CEO Ethical Management Pledge Ceremony,' hosted by the Ethical Management ESG Forum, for four consecutive years starting in 2020, to declare our commitment towards compliance with ethics management internally and externally.

Organizational System for Ethical Management

- Hyosung has set up a Legal Compliance Team, directly under the CEO, to strengthen ethical management activities.
- Ethical management personnel are designated within each department to support the Legal Compliance Team, and internal auditors are appointed to monitor overall business management.



Communication Channels for Ethical Management

- Hyosung operates the HR Counseling Center, Reporting Center, and Grievance Handling Center to provide employees with counseling services for unethical behaviors and grievances.
- In addition to in-person counseling services, employees can also access online anonymous counseling services to ensure confidentiality. We offer a range of communication channels, including email and mail, for their convenience.
- •An online reporting channel is available on our website to receive anonymous reports on unethical behavior, including bribery, solicitations, and unfair business transactions.

Awareness Building

Raising Awareness and Providing Training for Ethical Management

- All new Hyosung employees sign a `Pledge to Practice Ethical Management' and a `Pledge for Prohibiting Solicitation and Bribery,' proving their commitment to the Code of Ethics and Guidelines
- •We also create and distribute promotional videos and magazine-type publications through the groupware to raise awareness of ethical management.
- For the purpose of promoting awareness and practice of ethical management, employees are provided with annual training on ethical management.
- > All onboarding employees and newly promoted employees are required to take ethical management training.
- > Departments that are more susceptible to supply chain risks participate in regular training focused on compliance with subtracting laws and preventing contract violations.
- > Sales departments are provided with the information on compliance processes and standards applicable to the sales field, such as protection of trade secrets, cases of embezzlement, bribery and forgery, and regulations related to fair trade and franchise and agency transactions.
- Hyosung also implements a 'Pledge of Compliance with the Code of Conduct for Hyosung Partners' to ensure that our partners implement ethical management measures such as anti-corruption.
- > We provide ethical education materials and venues for employees of partner companies.
- > We offer ESG management consulting, aiming to extend ethical management awareness throughout the supply chain.

Internal Monitoring and Follow-up Management

- We conduct regular audits in accordance with internal audit regulations and special audits on specific issues as well as audits of reports received both internally and externally.
- •We conduct audits on overall business management encompassing planning, sales, and production with particular focus on technology and product quality.
- •We ensure that the principles of independence and anonymity are upheld to prevent whistleblowers and individuals subject to audits from facing any unfair treatment or disadvantage.
- Any suspicious incidents identified through audits are dealt with through countermeasures such
 as cautions, disciplinary actions, and compensation depending on the severity of the incident,
- Individuals identified as responsible through these audits are required to take immediate action for improvement.
- •The Audit Team regularly re-inspects the issues found to prevent re-occurrences.

Reported Anti-corruption Violations

| 2022 | Hyosung Corporation | Hyosung TNC | Hyosung Heavy Industries | Hyosung Advanced Materials | Hyosung Chemical |
|------------------------|------------------------|-------------|-----------------------------|-------------------------------|---------------------|
| No. of reported cases | - | 1 | 1 | 1 | 1 |
| No. of disciplinarians | - | - | - | - | - |

1) No. of reported cases: Excluding simple complaints, duplicate complaints, or cases where investigation was impossible due to the lack of clarity in the information received

2) No. of Disciplinarians: No. of individuals subject to reprimands, pay cuts, suspensions or dismissals (excluding written warnings)

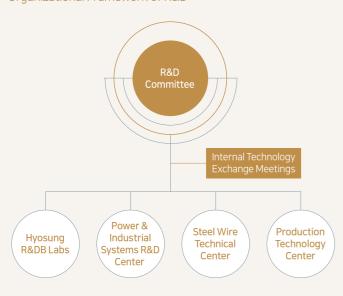
Research & Development

UN SDGS LINKAGE



At Hyosung, we have set up a research and development framework centered around the R&D Committee and Internal Technology Exchange Meetings. We run specialized research and development organization in various domains, propelling the advancement of novel products and technologies. With a consistent rise in the number of patents registered and filed by each subsidiary, we are committed to spearheading innovative R&D initiatives.

Organizational Framework of R&D



Establishment of R&D Framework

R&D Framework

R&D Committee

- •The R&D Committee fulfils its role in discussing the status of R&D regarding the main business items of our subsidiaries, as well as reflecting customers' requirements in our R&D
- •The Committee is held twice every year to define the direction of R&D activities and to comprehensively review the opinions shared by related departments.

Internal Technology Exchange Meetings

- •The internal technology exchange meetings act as a platform for cross-departmental sharing of technologies within the company, thus boosting our R&D efficiency.
- •We regularly convene fundamental technology task force teams (TFTs) to acquire core fundamental technologies and internalize our research capacity.
- •Through the meetings, we aim to create a corporate culture that fosters technology
- •The meetings facilitate addressing research challenges with a high level of effectiveness.

R&D Organization

- •The R&D organizations include the Hyosung R&DB Labs, Power & Industrial Systems R&D Center, Steel Wire Technical Center and Production Technology Center.
- •In 2019, we established the Production Technology Center with the aim of boosting technological competitiveness across the company. This center acts as a bridge between Hyosung R&D Labs and each production organization, fostering specialized human resources in core technologies.

Hyosung R&DB Labs

- · As Korea's first R&D center affiliated with a private corporation, Hyosung R&DB Labs has extended its research areas to include chemical products, raw materials, and new materials, based on its research capabilities in synthetic textiles.
- •In addition to acquiring research technology for promising new businesses that will drive our future growth, we are dedicated to innovating new products and processes within our existing business areas and promoting commercialization.

Steel Wire Technical Center

- •The Steel Wire Technical Center was established for the purpose of developing tire reinforcement materials made of steel cord and bead wire, as well as enhancing their production processes.
- ·As a specialized research institute in steel wire materials, it is enhancing the research capabilities and operating research centers in China and Vietnam. The center intends to swiftly apply new technologies to production, ensuring a prompt response to our customers' requirements.
- •The center is at the forefront of tire performance enhancement research, focusing on lightweight solutions and developing environmentally friendly products for the next generation to minimize our ecological footprint.
- We have expanded our advanced analysis equipment, pilot research facilities, and research organization to reinforce our base technology and research capabilities.

Power & Industrial Systems R&D Center

ESG MANAGEMENT

Governance

- Since its foundation, the Power & Industrial Systems R&D Center has been at the forefront of the technological development of heavy electric machines in Korea. It is currently focused on developing new technologies such as ESS, STATCOM, and voltage-source HVDC to better cope with the power industry's paradigm shift to DC grids in the future.
- •It focuses on the establishment and development of asset management solutions that provide systematic management services for facility assets by combining products, services, and operating systems based on fourth industrial technology.

Production Technology Center

- •The Production Technology Center was established to efficiently apply newly developed technologies to the production line.
- •It is charged with reviewing the newest facilities required by plants, the optimization of process design and operating conditions using computer simulation technology, support for new construction and extension projects, and plans for the application of new technology. The results of these reviews are reflected in our production organization.

R&D Expenditure Plans and Performance

Unit: KRW million

| Category | 2022 R&D expenditure plans | 2022 R&D expenditure performance | | |
|----------------------------|----------------------------|----------------------------------|--|--|
| Hyosung TNC | 18,211 | 21,187 | | |
| Hyosung Heavy Industries | 48,623 | 38,748 | | |
| Hyosung Advanced Materials | 25,808 | 33,931 | | |
| Hyosung Chemical | 20,551 | 20,883 | | |

^{*}Based on the consolidated financial statements of the year

Key R&D Performance

| Company | Key R&D performances | | |
|----------------------------|---|--|--|
| Hyosung TNC | Technology for manufacturing recycled polyester chips Pilot technology for chemical recycling of nylon Antimony (Sb)-Free polyester compounds and yarns Nylon liner for hydrogen tanks | | |
| Hyosung Heavy Industries | The first commercialization of intelligent power grid 'STATCOM' in Korea Becoming the first in Korea to possess HVDC and MV/LVDC technology using our own-developed Voltage-Source MMC Converter | | |
| Hyosung Advanced Materials | Technology for nylon tire cord made of bio-material Technology for mass production of high-strength steel cord and tire cord for EVs Prepreg resin for aviation products | | |
| Hyosung Chemical | Post-Consumer Recycled (PCR) film Block polypropylene for single-material retort films Improvement of process stability for flame-retardant grade glass fiber reinforced POKETONE used in connection plug board for EVs | | |

^{**}By entering into development outsourcing service agreements with its operating companies, Hyosung R&DB, under Hyosung Corporation, conducts R&D and patent registration and application tasks.

Information Security

UN SDGS LINKAGE



To address the evolving security challenges effectively, Hyosung has established and operates a proactive security system. In conjunction with this, we have constituted a Security Responsibility Strengthening Task Force Team (TFT) to enhance security responsibilities. Furthermore, we are engaged in a range of initiatives, including disclosing information on security practices, establishing integrated log repositories, and increasing awareness of information security among employees.

Organizational Structure for Data Security



Advancing Data Security System

Expanding the Role of Security Responsibility Strengthening TFT

- Established in 2021, the 'Security Responsibility Strengthening TFT' comprises members from the Holding Company Security Team, Security Officers from operating companies, PU, and business sites. Its role has been extended with active operation.
- •The TFT plays a pivotal role in effectively disseminating and implementing security policies formulated by the Holding Company Security Team across business sites.
- •The TFT actively engages relevant departments, contributing to raising awareness of information security and formulating concrete security strategies.
- In 2022, during information security training for all employees, including personnel from partner companies, the 'Security Responsibility Strengthening TFT' effectively showcased its role and accomplishments. This was also evident in the Information Security Pledges. Looking ahead, the TFT will sustain its commitment to collaborating on information security and security responsibilities.

Activities for Data Security

Disclosing Data Security Activities

- Starting from 2022, companies surpassing a certain revenue threshold are mandated by applicable laws to disclose their information security investments, personnel, activities, and pertinent details from the preceding year. This initiative is aimed at safeguarding internet users and encouraging investments in corporate information security.
- Accordingly, Hyosung Corporation, Hyosung TNC, Hyosung Heavy Industries, Hyosung Advanced Materials, Hyosung Chemical, and other operating companies completed the disclosure of the status of overall information security for the year of 2021 in June 2022.
- •The total information security investment for the holding company and the four major operating companies in 2022 amounted to KRW 3.39 billion, and the combined number of information security personnel stood at 9.5. These figures represent approximately 5.1% and 4.5%, respectively, of that in the Information Technology (IT) sector.

Data Security Training for Partners

- We create an annual plan for information security training to systematically educate new hires and employees on information security. Diverse information security campaigns are carried out through various channels, such as email and bulletin boards.
- •In 2022, information security training sessions were completed by over two thousand personnel from partner companies. These sessions highlighted security incident cases stemming from deliberate or negligent actions of partner company personnel, emphasizing compliance.
- Following the training, all participants are required to fulfill the Information Security Pledges, affirming their commitment to security incident responsibility.
- •In 2023, in partnership with The Korean Association for Industrial Technology Security, we are preparing in-depth security training for team security managers. The training will encompass the significance of industrial security, case studies of industrial technology leaks, and relevant legal precedents.

Integrated Log Management and Security Monitoring

- •To efficiently manage logs coming from numerous servers, communication devices, firewalls, and other security equipment, we have implemented integrated log repositories.
- In 2022, we invested in bolstering the processing capacity of log repositories in response to the escalating log volumes driven by the expanded scale of services and servers.
- •The bolstered capacity of log repositories guarantees the consistent collection, processing, and storage of extensive log data. The operation of 24/7 security monitoring empowers us to prevent security incidents and promptly address unusual patterns.

Reinforcing Email Security

- We have introduced a multifaceted email security system, aiming to safeguard against various threats like attempts to steal user accounts, deploy malicious codes, and initiate unauthorized access to transactions funds through email.
- •Twice a year, we conduct mock simulations involving malicious emails to heighten the awareness of email users. These initiatives aim to cultivate the capability to identify suspicious emails and adopt appropriate response tactics.

Visualizing Privacy Policy with Infographics

- •To ensure a clear understanding of the Privacy Policy for customers and stakeholders, we visualized the content in the form of infographics.
- Users can intuitively grasp the purposes of collection, utilization, and disposal regarding their personal information.
- •We constantly monitor the amendments of relevant laws, including the Personal Information Protection Act, to ensure the legal compliance of our Privacy Policy. With continuous assessment and revision, we are promoting proactive responses to personal information protection.

External Cooperation System

- We have established a collaborative system with government agencies and organizations such as The Korean Association for Industrial Technology Security and the Korean Academy of Industrial Security to protect core technology and intellectual property in the domestic manufacturing sector.
- •In 2022, we took part in the Industrial Security Conference hosted by the National Intelligence Service and the Ministry of Trade, Industry, and Energy, which brought together more than 900 domestic industrial security professionals. During the event, we learned from exemplary practices of other companies, adapting them to become valuable resources for Hyosung.
- Addressing both domestic and international security challenges, we actively explore proactive response strategies while continuously enhancing our information security capabilities.

ESG PERFORMANCE

- Stakeholder Engagement
- Double Materiality Assessment
- Hyosung Corporation
- Hyosung TNC
- Hyosung Heavy Industries
- Hyosung Advanced Materials
- Hyosung Chemical

 $\bigcirc = 67$

Hyosung endeavors to deliver differentiated value to stakeholders by comprehensively grasping their interests and formulating an efficient communication strategy. We carefully identify key stakeholder groups and evaluate associated risks and opportunities using tailored communication channels for each group. Additionally, we are committed to fostering genuine interactions with stakeholders and integrating their feedback into our management initiatives. We continue to offer products and services that generate economic and social benefits in tandem, ensure a sustainable supply chain, cultivate a workplace that prioritizes human rights and the environment, establish mutually beneficial partnerships, and engage in meaningful CSR activities for local communities.

Stakeholder group Customers **Partners** Shareholders and Investors ممم **Local Communities**

Main interests

- Developing innovative products through R&D
- Providing eco-friendly products tailored to the needs of our customers
- Maintaining Continuous communication to collect feedback after providing products and services
- Providing fair evaluation and opportunities
- Facilitating communication between employees and management
- · Work & life balance
- Enhancing communication
- Fair distribution of outcomes
- Preventing unfair demands or unnecessary business interference
- Promoting fair business practices
- Building trust in management leadership
- Ensuring sustainable growth engines
- Ensuring financial soundness and profitability
- Ensuring sound governance
- Sustainable long-term support for mutual growth
- Interactive two-way communication
- Conducting meaningful CSR activities

Our responses

- We aim to enhance the sustainability of our products and services by listening to customers' feedback throughout entire product lifecycle, from R&D to final delivery.
- We endeavor to establish a good work environment by promoting a healthy work-life balance for our employees. Moreover, we uphold a fair performance evaluation system and offer a wide range of benefits aimed at enhancing employee skills and capabilities.
- We persistently provide support to our partners, attentively listening to their challenges and ideas. We encourage their engagement in collaborative research project, striving for shared advancement.
- Apart from financial data, we disclose our sustainability achievements and actively seek input from shareholders and investors regarding the direction of our sustainable management.
- We are engaging in a range of CSR initiatives to develop the capacity of local communities for long-term self-sustainability, rather than providing short-term aid.

Communication channels

- Official website (ongoing)
- Global exhibitions (ongoing)
- Technology exchange meetings (ongoing)
- Customer satisfaction surveys
- Regular newsletter (monthly, yearly)
- Team building activities (Hyosung One Team, HOT)
- Wa-gle Wa-gle, Tong Tong Bulletin Board (ongoing)
- Communicator system
- "Conversation with Management" meeting (quarterly)
- Performance sharing meeting / business briefing sessions (quarterly)
- Tiered meetings (ongoing)
- Regular newsletter
- Meeting with partners (ongoing)
- Support for quality and safety improvements (ongoing)
- Hotline / reporting channel (ongoing)
- Cooperation and mutual growth program (ongoing)
- Corporate IR activities (ongoing)
- BoD (at least once a quarter) and shareholders' general meeting (annual)
- Business reports (annual)
- Corporate Disclosure System (ongoing)
- Environmental clean-up activities (monthly)
- Open-house events at plants (ongoing)
- Business-related CSR activities (ongoing)
- Communication channel with local community councils (ongoing)

Double Materiality Assessment

Hyosung conducts an annual materiality assessment to identify crucial sustainability issues that can directly or indirectly affect both our key stakeholders and business. To derive relevant and timely materiality issues, we have adopted the concept of double materiality assessment, encompassing not only the impact of material issues on corporate operations (Outside-In), but also the impact of corporate activities on the environment and society (Inside-Out). In 2022, the materiality assessment was performed based on a comprehensive evaluation of domestic and international sustainability standards and policies, sustainability-related media coverage, trends within pertinent industries, and survey results of key stakeholders. This report includes a total of 12 material issues identified through the assessment as well as our management approach and highlights of our achievements in this regard.

Process of Double Materiality Assessment



We conducted analysis to create a pool of 24 ESG issue topics. In this process, we considered the requirement of domestic and international ESG information disclosure guidance such as GRI Standards, SASB, MSCI, DJSI, KCGS, our mid- to long-term ESG management strategies, media coverage, trends within relevant industries and key topics.

STEP 2. ting Material Issues th Double Materiality Assessment

Out of the 24 issue topics, we assess Financial Materiality, considering both positive and negative impacts that external sustainability factors can have on our financial status. Additionally, we examine Impact Materiality, encompassing the positive and negative effects on the environment and society arising from our business activities. This comprehensive analysis enabled us to identify a final selection of 12 Material Issues.

Double Materiality Assessment Methodology

Financial Materiality (financial impact analysis

Impact Materiality (environmental and social impact analysis)

- •Internal analysis: Analysis of materials from the ESG Management Promotion Committee, Management Reports, and Business Strategies
- •Analysis of regulations and policies: Examination of domestic and international regulatory and ESG policy trends
- •Analysis of domestic and international standards: Evaluation of domestic and international ESG information disclosure guidelines and initiatives, including SASB, TCFD, KCGS.
- •Stakeholder survey: Conducting surveys targeting employees, partners, customers, shareholders, investors, and other relevant parties.

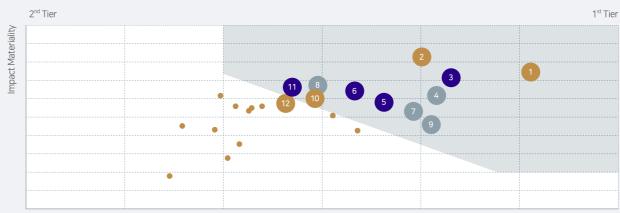
- Stakeholder survey: Conducting surveys targeting employees, partners, customers, shareholders, investors, and other relevant parties (from March 8, 2023, to March 15, 2023)
- •Analysis of domestic and international standards: Evaluation of domestic and international ESG information disclosure guidelines and initiatives, including UN SDGs, GRI, UNGC
- •Media analysis: Analyzing 1,990 media articles on environmental, social, governance, and economic issues (published in 2022)
- •Industry benchmarking: Analyzing material issues in reports of 38 domestic and international companies with outstanding ESG ratings

STEP 3.

Designing the structure and content of the Report

The 12 Material Issues derived from the 2022 Double Materiality Assessment indicate a decrease in economic and environmental concerns when compared to 2021. Notably, governance-related issues have been introduced. The process and outcomes of the Double Materiality Assessment were presented to the BoD for validation, ensuring the selection of Material Issues for the ESG Report. Following this final review, the structure and content of the ESG Report were designed.

Material Issues derived from Double Materiality Assessment



Financial Materiality

APPENDIX

* We present the results of the Double Materiality Assessment, encompassing Hyosung Corporation, Hyosung TNC, Hyosung Heavy

•: Low Impact •: High Impact
Industries, Hyosung Advanced Materials, and Hyosung Chemical.

| | Material Issues | | Impact | | Business | |
|-------------|--|--|-----------|--------------------------|----------|-------|
| Category | | GRI Standards 2021 | Financial | Environmental and social | Impact | Page |
| Environment | ① Climate Change Response | GRI 201: Economic Performance GRI 302: Energy GRI 305: Emissions | • | • | Risk | 20-25 |
| Environment | ② Green business | GRI 201: Economic Performance | • | • | Revenue | 26-31 |
| Society | ③ Workplace safety and health | GRI 403: Occupational Health and Safety | • | • | Risk | 32-36 |
| Economy | Generating economic outcome | GRI 201: Economic Performance GRI 207: Tax | • | • | Revenue | 26-31 |
| Society | ⑤ Product safety & quality and customer satisfaction | GRI 416: Customer Health and Safety GRI 417: Marketing and Labeling | • | • | Revenue | 43-46 |
| Governance | © Sustainable supply chain | GRI 308: Supplier Environmental Assessment GRI 414: Supplier Social Assessment | • | • | Risk | 37-42 |
| Economy | ② Securing new growth engines and business diversification | GRI 201: Economic Performance | • | • | Revenue | 26-31 |
| Governance | ® Ethical / compliance management | GRI 205: Anti-corruption | • | • | Risk | 63 |
| Governance | (9) Integrated risk management | Non-GRI | • | • | Risk | 62 |
| Environment | ® Environmental Pollutant Management (Water, Air, Waste, Soil) | GRI 303: Water and Effluents GRI 305: Emissions GRI 306: Waste | • | • | Cost | 48-50 |
| Society | (f) Strengthening Human Rights Management | GRI 401: Employment GRI 404: Training and Education GRI 405: Diversity and Equal Opportunity GRI 406: Non-discrimination GRI 407: Freedom of Association and Collective Bargaining GRI 408: Child Labor GRI 409: Forced or Compulsory Labor | • | • | Risk | 52-56 |
| Environment | ® Reducing resource consumption and establishing circular economy system | GRI 301: Materials GRI 306: Waste | • | • | Revenue | 51 |

Hyosung Corporation

Governance and Economic Performance

Reporting Scope

The ESG Performance section in this report encompasses the subsidiary companies listed below, which collectively contribute to over 99% of Hyosung Corporation's consolidated revenue. The data for Hyosung Corporation and its subsidiaries are presented separately, with subsidiary data provided only for the year of 2022. The cases in which specific items may not include data from certain subsidiaries are indicated in the footnotes.

| Subsidiaries | Country of operation |
|---------------------------------------|----------------------|
| Hyosung USA Inc. | USA |
| Hyosung TNS Inc. | Korea |
| Nautilus Hyosung America Inc. | USA |
| Hyosung Holdings USA, Inc. | USA |
| Hyosung Financial System (Huizhou) Co | China |
| Hyosung RUS | Russia |
| Forza Motors Korea Corp | Korea |
| Hyosung Good Springs, Inc. | Korea |
| HYOSUNG FINANCIAL SYSTEM VINA | Vietnam |

| Subsidiaries | Country of operation |
|---|----------------------|
| NH Tech Co., Ltd | Korea |
| NH CMS Co., Ltd | Korea |
| Hyosung FMS. Co., Ltd | Korea |
| GST Safety Textiles Mexico S. de R.L | Mexico |
| Gongdeok Gyeongwoo Development Corporation | Korea |
| Hyosung Solutions S DE RL DE CV | Mexico |
| Hana Alternative Investmentlandchip 39th Real Estate Investment Trust Co., Ltd | Korea |
| ATM plus Co., Ltd | Korea |
| Hyosung TNS RUS L.L.C | Russia |

Consolidated Statements of Comprehensive Income

(Unit: KRW million)

| Category | 2020 | 2021 | 2022 |
|--------------------------------|-----------|-----------|-----------|
| Sales | 2,596,176 | 3,538,943 | 3,719,326 |
| Cost of sales | 2,199,348 | 2,601,583 | 3,343,962 |
| Gross profit | 396,828 | 937,360 | 375,364 |
| SG&A | 239,904 | 277,362 | 289,443 |
| R&D expenses | 19,783 | 19,435 | 21,033 |
| Operating income | 137,141 | 640,563 | 64,887 |
| Other gain | 57,869 | 29,657 | 32,716 |
| Other loss | 35,384 | 16,794 | 16,042 |
| Finance income | 46,951 | 63,896 | 158,463 |
| Finance expenses | 98,324 | 78,412 | 219,165 |
| Profit before tax | 108,236 | 638,910 | 20,859 |
| Corporate tax expenses | 14,109 | 95,906 | (3,949) |
| Net profit | 1,220 | 540,587 | 24,807 |
| Other comprehensive gain(loss) | (28,658) | 74,711 | 64,225 |
| Total comprehensive income | (27,438) | 615,297 | 89,032 |

Financial Statements (Consolidated)

(Unit: KRW million)

| Category | 2020 | 2021 | 2022 |
|---------------------------------------|------------|-------------|------------|
| Current assets | 1,626,795 | 1,906,512 | 2,060,066 |
| Cash and cash equivalents | 222,015 | 181,960 | 143,610 |
| Trade and other receivables | 493,060 | 738,947 | 651,632 |
| Inventories | 463,206 | 696,362 | 907,204 |
| Other current assets | 448,515 | 289,243 | 357,620 |
| Non-current assets | 2,802,955 | 3,351,362 | 3,207,219 |
| Long-term trade and other receivables | 41,676 | 29,792 | 28,025 |
| Tangible assets | 930,909 | 1,000,116 | 930,909 |
| Investment in properties | 278,154 | 263,733 | 278,154 |
| Intangible assets | 73,081 | 67,740 | 73,081 |
| Other non-current financial assets | 1,257,906 | 1,785,826 | 1,257,906 |
| Non-current assets held for sale | 221,229 | 204,156 | 639,144 |
| Total assets | 4,429,750 | 5,257,874 | 5,267,285 |
| Current liabilities | 1,090,338 | 1,561,239 | 1,811,857 |
| Trade and other payables | 404,628 | 538,403 | 510,532 |
| Borrowings | 392,008 | 837,517 | 1,085,634 |
| Other current liabilities | 293,701 | 185,318 | 215,691 |
| Non-current liabilities | 825,089 | 704,361 | 558,123 |
| Long-term trade and other payables | 20,751 | 15,070 | 18,712 |
| Long-term borrowings | 448,281 | 270,436 | 159,693 |
| Other non-current liabilities | 356,058 | 418,855 | 379,718 |
| Total liabilities | 1,915,427 | 2,265,600 | 2,369,980 |
| Capital stock | 105,355 | 105,355 | 105,355 |
| Retained earnings | 6,180,531 | 6,498,302 | 6,414,345 |
| Other components of equity | -4,052,618 | - 3,978,408 | -3,964,651 |
| Non-controlling interest | 281,055 | 367,025 | 342,256 |
| | | 2,992,274 | |

Governance and Economic Performance

Corporation Tax by Country

| Country | Items | Unit | 2020 | 2021 | 2022 |
|---------|-------------------------|-------------|-------------|-------------|-------------|
| | Sales | KRW million | 1,826,403 | 2,891,085 | 3,061,616 |
| | Profit before tax | KRW million | 88,544 | 627,550 | 35,172 |
| Korea | Corporation tax expense | KRW million | 31,794 | 56,742 | (1,856) |
| | Tax rate | % | 24.2 | 24.2 | 23.2 |
| | Effective tax rate | % | 35.9 | 9 | - |
| | Sales | KRW million | 1,312,738 | 1,428,735 | 1,876,847 |
| | Profit before tax | KRW million | 416,416 | 32,221 | 7,509 |
| USA | Corporation tax expense | KRW million | (2,376) | 7,186 | (256) |
| | Tax rate | % | 22.00~24.00 | 22.00~24.00 | 22.00~24.00 |
| | Effective tax rate | % | (0.6) | 22.3 | (3.4) |
| | Sales | KRW million | 22,800 | 38,993 | 54,631 |
| | Profit before tax | KRW million | (1,341) | (3,307) | 1,502 |
| Mexico | Corporation tax expense | KRW million | 624 | (382) | 588 |
| | Tax rate | % | 30 | 30 | 30 |
| | Effective tax rate | % | - | - | 39.1 |
| | Sales | KRW million | 32 | 100 | 43 |
| | Profit before tax | KRW million | (2) | (4) | (13) |
| Brazil | Corporation tax expense | KRW million | 0 | 2 | 1 |
| | Tax rate | % | 34 | 34 | 34 |
| | Effective tax rate | % | - | - | - |
| | Sales | KRW million | 230,572 | 256,157 | 210,876 |
| | Profit before tax | KRW million | 6,524 | 7,431 | 1,192 |
| China | Corporation tax expense | KRW million | 1,677 | 1,807 | 602 |
| | Tax rate | % | 20 | 20 | 21 |
| | Effective tax rate | % | 25.7 | 24.3 | 50.5 |
| | Sales | KRW million | 177,755 | 142,055 | 294,291 |
| | Profit before tax | KRW million | (152) | 1,791 | (3,738) |
| Russia | Corporation tax expense | KRW million | 718 | 323 | (484) |
| | Tax rate | % | 20 | 20 | |
| | Effective tax rate | % | - | 18 | - |
| | Sales | KRW million | | 0 | 112,377 |
| | Profit before tax | KRW million | | (5,623) | (8,948) |
| Vietnam | Corporation tax expense | KRW million | | 0 | 0 |
| | Tax rate | % | | 21 | 21 |
| | Effective tax rate | % | | _ | |

^{*}Values may differ from those in the consolidated financial statements due to internal transactions among consolidated companies, as well as unrealized gains or losses.

*Instances where pre-tax losses are incurred, preventing the calculation of effective tax rates, are marked with '-'. As a result, the effective tax rates for certain countries in the years 2020 and 2021 have been adjusted.

Current Status of Board of Directors

| Category | | Unit | Hyosung Corporation | | |
|---|--------|--------|---------------------|-------|-------|
| | | | 2020 | 2021 | 2022 |
| Diversity | Male | Person | 9 | 8 | 8 |
| | Female | Person | 1 | 1 | 1 |
| No. of outside directors within the BoD | | Person | 7 | 6 | 6 |
| Outside director's attendance rate at the Outside Director Recommendation Committee | | % | 100.0 | 100.0 | 100.0 |
| No. of meetings of the Audit Committee | | Times | 6 | 7 | 7 |
| Outside director's attendance rate at the Audit Committee | | % | 100.0 | 95.2 | 100.0 |

Ethical and Compliance Management

| Cataman | | Unit | Hyosung Corporation | Subsidiaries |
|-----------------|--|-------------|---------------------|--------------|
| Category | | Onit | 2022 | 2022 |
| Employee | No. of cases reported | Case | - | 1 |
| discrimination | No. of cases reviewed | Case | - | 1 |
| ' ' | No. of cases reported | Case | - | 5 |
| | No. of individuals subject to disciplinary actions | Person | - | 1 |
| Fair trada | No. of violations | Case | 1 | - |
| rair traue | Fines for violations | KRW million | 200 | - |
| | Cases of fines imposed | Case | 1 | - |
| | Cases of non-monetary sanctions | Case | - | - |
| | No. of employees with records of investment-related investigations, customer complaints, lawsuits, or legal sanctions | Person | - | 1 |
| | No. of violations of legal and voluntary regulations regarding product and service information and labeling | Case | - | - |
| | No. of violations of legal and voluntary regulations regarding health and safety impact of products and services | Case | - | - |
| regulations | No. of violations of legal and voluntary regulations regarding marketing communication such as advertising, promotion, and sponsorship | Case | - | - |
| | Total amount of fines | KRW million | 200 | - |
| | Fines for violations of financial regulations, including insider trading, monopoly, and anticompetitive behaviors | KRW million | 200 | - |
| | Fines for violations of environmental regulations, such as pollutant emissions | KRW million | - | - |
| Rate of employe | ees that received an anti-corruption notification and related education | % | 82.6 | 39.4 |

^{*} No. of violations of fair trade was counted based on monetary sanctions in the form of fines according to criminal law as of the final verdict date, excluding cases in litigation.

Social Performance

Employee Status

| Category Total employees (Permanent and Temporary) | | I Imite | Ну | Subsidiaries | | |
|--|---|---------|------|--------------|------|-------|
| | | Unit | 2020 | 2021 | 2022 | 2022 |
| | | Person | 627 | 668 | 655 | 4,180 |
| | Permanent (male) | | 488 | 484 | 468 | 2,908 |
| | Permanent (female) | Person | 102 | 136 | 137 | 639 |
| | Subtotal | | 590 | 620 | 605 | 3,547 |
| | Temporary (male) | | 26 | 26 | 28 | 429 |
| Employment type | Temporary (female) | Person | 11 | 22 | 22 | 204 |
| | Subtotal | | 37 | 48 | 50 | 633 |
| | Part-time (male) | Person | 2 | 1 | 1 | 2 |
| | Part-time (female) | | 0 | 1 | 2 | |
| | Subtotal | | 2 | 2 | 3 | 22 |
| | Under 30 | Person | 61 | 79 | 94 | 1,023 |
| Age | 30-50 | | 407 | 429 | 409 | 2,659 |
| | 51 and above | | 161 | 162 | 155 | 590 |
| 6 1 | Male | | 516 | 511 | 497 | 3,358 |
| Gender | Female | Person | 113 | 159 | 161 | 844 |
| Job category (based on | Salary | | 525 | 560 | 550 | 2,029 |
| permanent employment) | Hourly | Person | 65 | 60 | 55 | 1,546 |
| | Employees with disability | | 15 | 15 | 16 | 7! |
| | Veterans | | 2 | 3 | 3 | 6. |
| Diversity | Foreigner | Person | 4 | 3 | 3 | 49 |
| | Subtotal | | 21 | 21 | 22 | 187 |
| | Female employee ratio | | 18.0 | 23.7 | 24.3 | 20.2 |
| Fostering Female Talent | Female managerial positions ratio (manager and above) | % | 12.7 | 17.0 | 18.4 | 14 |

^{*} In the subsidiary's data, GST Safety Textiles Mexico S. de R.L. has been excluded from the aggregation.

New Recruitment and Turnover

| Catagoni | | Unit | H | Subsidiaries | | |
|------------------------|-------------------------|--------|------|--------------|------|------|
| Category | | Offic | 2020 | 2021 | 2022 | 2022 |
| | Male | Person | 64 | 26 | 49 | 578 |
| | Female | | 13 | 24 | 26 | 232 |
| | Subtotal | | 77 | 50 | 75 | 810 |
| New recruits | Under 30 | | 25 | 28 | 52 | 288 |
| | 30-50 | | 27 | 21 | 19 | 484 |
| | 51 and above | | 25 | 1 | 4 | 29 |
| | Subtotal | | 77 | 50 | 75 | 810 |
| | Male | | 10 | 32 | 36 | 391 |
| | Female | | 5 | 12 | 17 | 69 |
| | Subtotal | | 15 | 44 | 53 | 460 |
| Turnover (voluntary | Under 30 | Person | 2 | 15 | 16 | 86 |
| turnover of permanent) | 30-50 | | 12 | 25 | 36 | 340 |
| | 51 and above | | 1 | 4 | 1 | 34 |
| | Subtotal | | 15 | 44 | 53 | 460 |
| | Voluntary turnover rate | % | 2.5 | 7.1 | 8.8 | 13.0 |

^{*}In the subsidiary's data, GST Safety Textiles Mexico S. de R.L. has been excluded from the aggregation.

Total compensation and Remuneration

| Category | | Unit | Hyosung Corporation | | | |
|--|-------------------------|-------------|---------------------|-------|-------|--|
| | | Offic | 2020 | 2021 | 2022 | |
| Total compensation for entry-level employees | | KRW million | 43 | 52 | 47 | |
| Ratio of entry-level employee compensation to | Male | % | 170.8 | 215.2 | 175.4 | |
| legal minimum wage | Female | % | 177.4 | 202.4 | 173.3 | |
| | Executive | | 36.8 | 28.5 | 32.6 | |
| Rate of total compensation for female compared to male | Manager level or higher | % | 92.5 | 89.4 | 73.2 | |
| | Non-manager level | | 73.7 | 74.9 | 87.6 | |
| Average total compensation | | KRW million | 99 | 131 | 117 | |
| Total annual compensation for C-level executives | | KRW million | 4,641 | 7,427 | 7,241 | |
| Median employee compensation (excluding C-level executives) | | KRW million | 69 | 82 | 77 | |
| Ratio of C-level executives' compensation to that of employees | | Times | 67.5 | 90.9 | 93.6 | |

Social Performance

Maternity and Childcare Leave

| Catagory | | Unit | Hy | Subsidiaries | | |
|-----------------------------|---|--------|-------|--------------|-------|-------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| Maternity leave | No. of employees under maternity leave | Person | 23 | 19 | 16 | 74 |
| (male) | Returning ratio to work after maternity leave | % | 100.0 | 100.0 | 100.0 | 100.0 |
| Maternity leave | No. of employees under maternity leave | Person | 10 | 7 | 7 | 42 |
| (female) | Returning ratio to work after maternity leave | % | 100.0 | 100.0 | 100.0 | 97.6 |
| | No. of employees entitled to childcare leave | Person | 206 | 189 | 163 | 1,643 |
| | No. of employees on childcare leave | Person | 3 | 2 | 2 | 53 |
| Childcare leave (male) | No. of employees returning to work after childcare leave | Person | 4 | 2 | 1 | 49 |
| | No. of employees with over 12 months of service after childcare leave | Person | 2 | 1 | 1 | 44 |
| | No. of employees entitled to childcare leave | Person | 39 | 37 | 34 | 1,067 |
| | No. of employees on childcare leave | Person | 8 | 7 | 6 | 37 |
| Childcare leave (female) | No. of employees returning to work after childcare leave | Person | 3 | 9 | 5 | 36 |
| | No. of employees with over 12 months of service after childcare leave | Person | 7 | 2 | 6 | 34 |

Labor Union Membership and Retirement Pension

| Category | | Unit | Hy | Subsidiaries | | |
|-------------------------------------|--|-------------|--------|--------------|---------|---------|
| | | Oillt | 2020 | 2021 | 2022 | 2022 |
| Labor Union Membership Status | No. of employees covered by collective bargaining agreements | Person | 57 | 51 | 46 | 1,694 |
| | Ratio of employees covered by collective bargaining agreements among total employees | % | 9.1 | 7.6 | 7.0 | 40.5 |
| | No. of union workers | Person | 44 | 37 | 36 | 1,475 |
| | Ratio of union workers | % | 77.2 | 72.5 | 78.3 | 87.1 |
| | Total operation fund for retirement pension | KRW million | 61,892 | 97,880 | 101,248 | 120,218 |
| | Operation fund of DB pension | KRW million | 61,450 | 91,441 | 100,405 | 93,070 |
| Retirement | Operation fund of DC pension | KRW million | 464 | 857 | 843 | 4,042 |
| pension | Total number of members | | 643 | 684 | 670 | 1,552 |
| | No. of DB pension members | Person | 563 | 609 | 597 | 1,394 |
| | No. of DC pension members | | 80 | 75 | 73 | 158 |

^{*} Operation fund of DC pension: The figures for 2020 and 2021 have been adjusted to align with the 'amounts recognized as expenses related to the DC pension fund' in the footnotes of the financial statements in the 2022 business report.

Employee Training Status

| Catagony | Unit | Hy | Subsidiaries | | |
|---|-----------|---------|--------------|---------|-----------|
| Category | Offic | 2020 | 2021 | 2022 | 2022 |
| No. of training participants | Person | 10,860 | 14,097 | 13,368 | 29,950 |
| Total training expenses | KRW 1,000 | 129,622 | 166,092 | 286,094 | 1,447,097 |
| Total training hours | Hours | 25,836 | 32,533 | 36,704 | 99,912 |
| Average training hours per employee | Hours | 41.2 | 48.7 | 56.0 | 22.1 |
| Average training expenses per employee | KRW 1,000 | 207 | 249 | 437 | 321 |
| No. of participants in environmental training | | 902 | 508 | 539 | 1,298 |
| No. of participants in ethics and anti-corruption training | | 538 | 525 | 541 | 1,648 |
| No. of participants in fair trade training | | 476 | 499 | 589 | 1,410 |
| No. of participants in safety and health training | | 3,654 | 6,426 | 4,486 | 6,353 |
| No. of participants in human rights training (sexual harassment / disability awareness / discrimination prevention) | Person | 1,561 | 1,888 | 2,485 | 6,762 |
| No. of participants in information security training | | 671 | 98 | 688 | 1,913 |
| No. of participants in sustainability management training | | 21 | 1,065 | 841 | 2,660 |
| No. of participants in retiree training | | - | - | - | 2 |

 $[\]ensuremath{^{*}}$ No. of participants refers to the cumulative number of participants by course.

Regular Performance Evaluation

| Category | | Unit | Hyosung Corporation | | |
|---|-------------------------|--------|---------------------|-------|-------|
| | | Offic | 2020 | 2021 | 2022 |
| No. of employees subject to performance evaluation | | Person | 590 | 620 | 605 |
| Performance evaluation rate | | % | 94.1 | 92.8 | 92.4 |
| Regular performance and career development review rate by gender | Male | | 94.9 | 94.9 | 94.4 |
| | Female | | 90.3 | 86.1 | 86.2 |
| Regular performance and career development review rate by employee category | Executive | % | 100.0 | 100.0 | 100.0 |
| | Manager level or higher | | 99.0 | 99.1 | 99.0 |
| | Non-manager level | | 87.5 | 84.9 | 84.4 |

Social Performance

Supplier Status

| Category | Unit | Hyosung Corporation | | | |
|--|-------------|---------------------|--------|--------|--|
| | Offic | 2020 | 2021 | 2022 | |
| No. of suppliers | Company | 247 | 290 | 534 | |
| Total purchase from suppliers | KRW million | 14,115 | 31,103 | 54,789 | |
| Local purchase ratio in key business regions | % | - | 65 | 63 | |

 $^{^*}$ Supplier include raw material suppliers, and for Hyosung R&DB Labs, only companies under a mutual growth agreements are included in the calculation.

Social and Environmental Assessment of Supply Chain

| Category | Unit | Hyosung Corporation |
|---|---------|---------------------|
| Ratio of new suppliers that conducted social and environment assessment | % | - |
| No. of suppliers that conducted social and environment assessment | Company | 18 |
| No. of suppliers having practical and potential negative impact | Company | - |
| Ratio of suppliers that agreed improvement based on the results of social and environment assessment | % | - |
| Ratio of suppliers whose contracts were terminated based on the results of social environment impact assessment | % | - |

Compliant Handling Process for Suppliers

| Category | Unit | Hyosung Corporation | | |
|-------------------------------|-------|---------------------|-------|--|
| Category | Offic | 2021 | 2022 | |
| No. of complaints submissions | Case | 43 | 44 | |
| No. of complaints processed | Case | 43 | 44 | |
| Processing rate | % | 100.0 | 100.0 | |

CSR Activities

| Category | Unit | Н | Subsidiaries | | |
|---------------------|-------------|------|--------------|------|------|
| | Offic | 2020 | 2021 | 2022 | 2022 |
| CSR investment | KRW million | 741 | 578 | 430 | 352 |
| No. of CSR programs | Program | 17 | 21 | 26 | 32 |

Occupational Accidents and Injuries

| Cataman | | Unit | Hyosi | Subsidiaries | | |
|-----------|--|-------------------|-------|--------------|------|------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| | accident rate(rate of injured individuals due to accidents and diseases) | % | 0.16 | 0.30* | 0.31 | 0.17 |
| | No. of fatalities | Person | - | - | - | - |
| | Fatality rate | Per 200,000 hours | - | - | - | - |
| | No. of high-consequence occupational accidents (excluding fatalities) | Case | - | - | - | - |
| Employees | High-consequence occupational accidents rate (excluding fatalities) | Per 200,000 hours | - | - | - | - |
| | No. of work-related accidents or work-related diseases | Case | - | - | 1 | 5 |
| | No. of fatalities due to work-related diseases | Person | - | - | - | - |
| | No. of injuries due to work-related diseases | Person | 1 | 2 | 1 | - |
| | No. of fatalities | Person | - | - | - | - |
| | Fatality rate | Per 200,000 hours | - | - | - | - |
| | No. of high-consequence occupational accidents (excluding fatalities) | Case | - | - | - | 1 |
| Partners | High-consequence occupational accidents rate (excluding fatalities) | Per 200,000 hours | - | - | - | 0.5 |
| | No. of work-related accidents or work-related diseases | Case | - | - | - | 2 |
| | No. of fatalities due to work-related diseases | Person | - | - | - | - |
| | No. of injuries due to work-related diseases | Person | - | - | - | - |

^{*} The incident rate for the year 2021 has been adjusted to 0.30 following the approval of an industrial accident claim for noise-induced hearing loss by a former Hyosung Corporation employee.

Products and Services Subject to Product Information Labeling and Product Safety and Health Assessment

| Category | Unit | 2022 |
|--|------|------|
| Ratio of products and services subject to product information labeling and associated assessment | % | 100 |
| Ratio of products and services undergone product safety and health assessment | % | 100 |

Hyosung Corporation

Environmental Performance

*The scope of GHG emissions and energy usage includes all business sites of Hyosung Corporation. Meanwhile, other environmental data are collected from the headquarters, Anyang Plant, Suseo Office, and Transworld, which contribute to the revenue. Among the subsidiaries, Hyosung Financial System (Huizhou) Corporation is in the process of transferring its manufacturing facilities to HYOSUNG FINANCIAL SYSTEM VINA Corporation. Additionally, Hyosung TNS RUS L.L.C. was established at the end of 2022, and therefore environmental data for these subsidiaries was not included.

GHG emissions

| | | | | Hyosung | Corporation | | Subsidiaries |
|-------------------------|-----------------------|----------------------|--------|---------|-------------|-------------|--------------|
| Category | | Unit | 2020 | 2024 | | 2022 | 2022 |
| | | | 2020 | 2021 | Plan | Performance | 2022 |
| | Stationary combustion | | 9,086 | 9,409 | 8,982 | 9,152 | 16,822 |
| Direct GHG | Mobile combustion | +60 | 360 | 357 | 353 | 377 | 9,834 |
| emissions (Scope 1) | Other emissions | tCO₂eq | - | - | - | - | 0 |
| | Subtotal | | 9,446 | 9,766 | 9,334 | 9,529 | 26,656 |
| Indirect GHG | Electricity | | 22,325 | 23,282 | 22,528 | 21,950 | 28,363 |
| emissions | Steam | tCO ₂ eq | 291 | 319 | 319 | 374 | 1 |
| (Scope 2) | Subtotal | | 22,615 | 23,601 | 22,846 | 22,324 | 28,364 |
| Total GHG emissio | ns (Scope 1 & 2) | tCO ₂ eq | 32,061 | 33,367 | 32,181 | 31,853 | 55,020 |
| | Scope 1 | tCO ₂ eq/ | 3.20 | 0.93 | 1.24 | 1.27 | 0.73 |
| GHG emissions intensity | Scope 2 | KRW 100 | 7.65 | 2.24 | 3.05 | 2.98 | 0.78 |
| Intensity | Subtotal | million | 10.85 | 3.17 | 4.29 | 4.25 | 1.51 |

Air Pollutants Emissions

| | | | | Subsidiaries | | | | |
|----------------------------|-------------------------|------|------|--------------|------|-------------|------|--|
| Category | | Unit | 2020 | 2021 | | 2022 | 2022 | |
| | | 2020 | | 2021 | Plan | Performance | 2022 | |
| | Nitrogen oxides (NOx) | | 5.8 | 1.1 | 5.8 | 3.2 | - | |
| General air pollutants | Sulfur oxides (SOx) | Ton | - | - | - | - | - | |
| , | Particulate matter (PM) | | - | 0.0 | 0.0 | 0.0 | 0.1 | |
| | CFD(R-11) | | - | - | - | - | - | |
| Ozone depleting substances | HCFC(R-123) | Ton | - | - | - | - | - | |
| | HCFC(R-22) | | - | - | - | - | - | |

Chemical Substances Management

| Category | Unit | Hy | Subsidiaries | | |
|---------------------------------|-----------------------|------|--------------|------|------|
| Category | Offic | 2020 | 2021 | 2022 | 2022 |
| Hazardous chemicals consumption | Ton | - | - | - | 99 |
| Hazardous chemicals intensity | Ton / KRW 100 million | - | - | - | 0.00 |
| Chemical substance emissions | Ton | 16 | 13 | 15 | 17 |

Energy Consumption

| | | | | Hyosung | Corporation | | Subsidiaries |
|-----------------------------|-------------|----------------------|--------|---------|-------------|-------------|--------------|
| Category | | Unit | 2020 | 2021 | | 2022 | 2022 |
| | | | 2020 | 2021 | Plan | Performance | 2022 |
| | Diesel | | 0.89 | 1.12 | 1.03 | 1.21 | 8.58 |
| | Kerosene | | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 |
| | LNG | | 178.00 | 184.48 | 176.19 | 179.64 | 25.69 |
| Direct energy | NG | LT UT | - | - | - | - | 297.42 |
| consumption | Gasoline | | 4.45 | 4.18 | 4.17 | 4.35 | 133.10 |
| | Propane | | 0.77 | 0.88 | 0.79 | 0.70 | 0.01 |
| | LPG | | - | - | - | - | 3.46 |
| | Subtotal | | 184.21 | 190.75 | 182.27 | 186.00 | 468.36 |
| | Electricity | | 459.66 | 486.51 | 470.74 | 458.67 | 370.20 |
| Indirect energy consumption | Steam | TJ | 8.35 | 8.87 | 8.87 | 10.05 | 0.02 |
| consumption | Subtotal | | 468.01 | 495.38 | 479.61 | 468.71 | 370.22 |
| Total | | TJ | 652.22 | 686.12 | 661.88 | 654.71 | 838.58 |
| Energy intensity | | TJ / KRW 100 million | 0.22 | 0.07 | 0.09 | 0.09 | 0.02 |

Environmental Performance

Waste Treatment

| | | | | Hyosung C | orporation | | Subsidiaries |
|-----------------------|------------------------|------|-------|-----------|------------|-------------|--------------|
| Category | | Unit | 2024 | | 2022 | | |
| | | | 2020 | 2021 | Plan | Performance | 2022 |
| Non-hazardous | waste (ordinary waste) | | | | | | |
| Self-treatment | | | - | - | - | - | - |
| | Recycling | | 1,530 | 1,752 | 1,883 | 1,740 | 1,948 |
| Outsourced | Incineration | Top | 47 | 158 | 150 | 134 | 1,254 |
| treatment | Landfill | Ton | 15 | 46 | 44 | 11 | 1,965 |
| | Others | - | - | - | - | - | 27 |
| Subtotal | | | 1,592 | 1,955 | 2,076 | 1,885 | 5,194 |
| Hazardous wast | te (designated waste) | | | | | | |
| Self-treatment | | | - | - | - | - | - |
| | Recycling | | 86 | 103 | 98 | 125 | 555 |
| Outsourced | Incineration | _ | 45 | 1 | 1 | - | 54 |
| treatment | Landfill | Ton | - | - | - | - | - |
| | Others | | 11 | - | - | - | - |
| Subtotal | | | 142 | 104 | 99 | 125 | 609 |
| Total waste generated | | Ton | 1,734 | 2,059 | 2,175 | 2,009 | 5,803 |
| Total waste recycled | | Ton | 1,617 | 1,854 | 1,981 | 1,865 | 2,503 |
| Total ratio of was | ste recycled | % | 93.2 | 90.1 | 91.1 | 92.8 | 43.1 |

^{*}The reporting scope of Hyosung Corporation, previously limited to the Anyang Plant, has been broadened to encompass the headquarters, Suseo Office, and Transworld. Accordingly, historical data have been revised.

Use, Reuse and Recycling of Materials

| Category | | Unit | Н | lyosung Corporatio | n |
|----------------------------|---|-------|--------|--------------------|--------|
| | | Offic | 2020 | 2021 | 2022 |
| Day (a haidian) matariala | Total use | Ton | 12,511 | 15,308 | 15,368 |
| Raw (subsidiary) materials | Use of recycled and bio-based materials | Ton | 30 | 170 | 147 |

Water Resources

| Category | | | Hyosung Corporation | | | | |
|-----------------------------|------------------|------|---------------------|-----------|-------------|---------|---------|
| | | Unit | 2020 | 2020 2021 | | 2022 | |
| | | 2020 | 2021 | Plan | Performance | 2022 | |
| Municip | Municipal water | | 120,191 | 118,187 | 119,189 | 134,315 | 431,856 |
| Water | Groundwater | Ton | - | - | - | - | - |
| consumption by water source | Industrial water | | 422,415 | 465,796 | 444,106 | 468,414 | - |
| | River water | | - | - | - | - | - |
| Total water consur | mption | Ton | 542,606 | 583,983 | 563,294 | 602,729 | 431,856 |
| Total reused water | | Ton | - | - | - | - | 53,556 |
| Rate of water reuse | | % | - | - | - | - | 12.4 |
| Total water intake | | Ton | 542,606 | 583,983 | 563,294 | 602,729 | 431,856 |

^{*} The reporting scope of Hyosung Corporation, previously limited to the Anyang Plant, has been broadened to encompass the headquarters, Suseo Office, and Transworld. Accordingly, historical data have been revised.

Wastewater and Water Treatment

| Category | | Unit | Hyosung Corporation | | | Subsidiaries |
|-------------------------------------|---------------------------------|-------|---------------------|--------|--------|--------------|
| | | Offic | 2020 | 2021 | 2022 | 2022 |
| | Wastewater treatment | Ton | 93,586 | 62,856 | 77,095 | 92,804 |
| Wastewater discharge by location | Seawater discharge | | - | - | - | - |
| | Outsourced treatment | | - | - | _ | 10 |
| Total Wastewater discharge | | Ton | 93,586 | 62,856 | 77,095 | 92,814 |
| Biochemical Oxygen Demand | Biochemical Oxygen Demand (BOD) | | 0.16 | 0.08 | 0.10 | 0.04 |
| Chemical Oxygen Demand (C | OD) | | 0.64 | 0.35 | 0.39 | 0.12 |
| Suspended Solids (SS) | | Ton | 1.98 | 0.98 | 0.76 | 1.21 |
| Total Nitrogen (T-N) | | | 0.54 | 0.38 | 0.37 | 0.13 |
| Total Phosphorus (T-P) | | | 0.03 | 0.01 | 0.01 | 0.01 |

Environmental Performance

Sales and Purchase of Eco-Friendly Products and Services

| Catagony | Unit | Hyosung Corporation | | | Subsidiaries |
|--|-------------|---------------------|-------|-------|--------------|
| Category | | 2020 | 2021 | 2022 | 2022 |
| Sales of eco-friendly products and services | KRW million | 703 | 2,596 | 3,402 | 3,236 |
| Purchase of eco-friendly products and services | KRW million | 72 | 320 | 341 | 72,728 |

 $[\]hbox{*We have defined the following products and services as environmentally friendly based on the internal criteria:}$

Pollution-free Vehicles

| Category | | Unit | Hyosung Corporation | | Subsidiaries |
|----------------------------------|-------------------|-----------|---------------------|------|--------------|
| | | | 2021 | 2022 | 2022 |
| On-road vehicles | EVs | - Vehicle | - | - | 3 |
| | Hydrogen vehicles | verlicie | - | - | - |
| 000 | EVs | Vehicle | 16 | 17 | 26 |
| Off-road vehicles | Hydrogen vehicles | verlicie | - | - | - |
| Ratio of pollution-free vehicles | | % | 27.6 | 29.3 | 5.4 |

^{*} On-road vehicles: Passenger cars, vans, trucks, special vehicles, two-wheeled vehicles (excluding electric bicycles)

Energy Savings and GHG Emissions Reduction

| Site | Project | Date of installation | Investment (KRW million) | Energy usage reduction (kWh / year) | Energy usage reduction (TJ / year) | GHG emissions reductions (CO ₂ ton eq / year) |
|--------|---|----------------------|-----------------------------|---|--|--|
| Anyang | Installing roots BL for transporting PET chips in the BCF packing room (shutdown of the high-pressure turbo compressor through compressed air conservation) | Mar. 2020 | 30 | 225,570 | 2.17 | 104 |
| Anyang | Installing roots blower inverters at wastewater treatment plants | Dec. 2020 | 18 | 197,100 | 1.89 | 91 |
| Anyang | Reducing power cost with efficient load management of aeration tank | Jan.2022 | 0 | 78,840 | 0.76 | 36 |
| Anyang | Maintenance and leak elimination for compressed air drain traps (maintenance of 10 traps and leaks) | Mar. 2022 | 8 | 69,292 | 0.67 | 32 |
| Anyang | Replacement of outdated chilled water pump motor for refrigeration system | Apr. 2022 | 13 | 51,443 | 0.49 | 24 |
| Anyang | Replacement of outdated cooling water pump motor for refrigeration system | Apr. 2022 | 10 | 14,525 | 0.14 | 7 |
| Anyang | 20% improvement in compressed air manufacturing efficiency (Introduction of new air compressors and change of piping line) | Aug. 2022 | 350 | 2,610,480 | 25.06 | 1,199 |
| Anyang | 0.9kg/aril decompression of compressed air operating pressure (operating pressure reduced to low pressure - 7.0kg/aril and high pressure - 9.0kg/aril) | Aug. 2022 | 105 | 761,244 | 7.31 | 350 |
| Anyang | Reducing power costs by 30% through increased production output with the introduction of a high-speed tufting machine | Nov. 2022 | 495 | 105,120 | 1.01 | 48 |
| Anyang | Reducing power loss through integrated operation of transformers (from 3 units of F#35 transformers to 2 units) | Dec. 2022 | 0 | 131,400 | 1.26 | 60 |

Biodiversity within Areas of Business Impact

| Category | Unit | Hyosung Corporation | Subsidiaries |
|--|------|---------------------|--------------|
| IUCN Red List of Threatened Species | 종 | - | 324 |
| Nationally designated endangered species | 종 | 15 | 328 |

^{*} IUCN Red List of Threatened Species: Included species categorized as Critical (CR), Endangered (EN), and Vulnerable (VU) within a 25 km radius of the business site.

Environmental Investments

| | | Hyosung Corporation | | | |
|--|-------------|---------------------|------|------|-------------|
| Category | Unit | 2020 | 2021 | | 2022 |
| | 204 | | 2021 | Plan | Performance |
| Waste treatment and environment restoration expenses | | 269 | 328 | 380 | 448 |
| Pollution prevention and environmental management expenses | KRW million | 126 | 228 | 200 | 232 |
| Total | | 395 | 556 | 580 | 680 |

Key Environmental Investment Plans and Performance Reported through ESG Management **Promotion Committee**

| Category | Content | Unit | 2022 (Plan) | 2022 (Performance) |
|--|---|-------------|----------------|-----------------------|
| Waste treatment expenses and environment insurance | Waste treatment expenses, such as wastewater sludge and environmental liability insurance | KRW million | 252 | 314 |
| | Enhancing storage of wastewater, atmospheric emissions, and waste | KRW million | 90 | 96 |
| | Exhaust gas treatment facilities | KRW million | 380 | 319 |
| Preventing environmental pollution | Installation of oxidation / carbonization, exhaust gas heat exchanger | KRW million | 240 | - |
| poliution | Dredging work of holding tank and screen tank of wastewater treatment plant / Replacement of chemical reactor/ Replacement of fillings in non-point pollution prevention facilities/ Replacing the Tarpaulin at the Waste Storage | KRW million | 30 | 30 |
| | Environmental Management Certification Cost Assurance and consulting service expenses for calculating CO2 by product | KRW million | - | 45 |
| Environment management | Establishment of an electronic chemical management system | KRW million | 26 | 26 |
| system | Establishment of a computer system for calculating CO2 LCA by product | KRW million | 56 | 55 |
| | Expenses related to participation in, reporting, and verification of carbon information disclosures and responding to ETS | KRW million | 14 | 11 |
| | Introduction of a high-speed tufting machine | KRW million | 395 | 488 |
| | Introduction of new air compressors | KRW million | 350 | 337 |
| Energy efficiency | Improvement of automatic pressure control equipment for compressed air | KRW million | 48 | 46 |
| | Upgrading Co/W pump motor for refrigeration system to high-efficiency model | KRW million | 15 | 22 |
| | Replacement of cooling water pumps for air compressors and inverter control | KRW million | 35 | - |

⁻ Sold Products: Yarn and automotive carpets/ automotive option mats made of recycled polyester chips, automotive carpets/ automotive option mats made of recycled nylon chips or bio-polyester chips and high-efficiency certified materials

 $⁻ Purchased\ Products: LED\ lighting\ fixtures, Recycled\ Chips, Biochips, High-Efficiency\ Certified\ Materials$

^{*} Off-road vehicles: Includes non-specified vehicles such as construction machinery, agricultural machinery, etc. E.g., forklifts, tool cars, and carts used in workplaces.

^{*} Nationally designated endangered species: Data have been collected based on major administrative areas according to the national distribution survey of endangered wildlife by the National Institute of Biological Resources.

 $[*] Subsidiary \ data \ includes \ some \ duplicate \ figures \ due \ to \ overlapping \ areas \ with \ business \ sites \ where \ only \ offices \ are \ located.$

Reporting Scope

The ESG Performance section in this report encompasses the subsidiary companies listed below, which collectively contribute to over 92% of Hyosung TNC Corporation's consolidated revenue. The data for Hyosung TNC and its subsidiaries are presented separately, with subsidiary data provided only for the year of 2022. The cases in which specific items may not include data from certain subsidiaries are indicated in the footnotes.

| Subsidiaries | Country of operation |
|--|----------------------|
| Hyosung Chemicals (Jiaxing) Co., Ltd | China |
| Hyosung International Trade (Jiaxing) Co., Ltd | China |
| Hyosung Spandex (GuangDong) Co., Ltd | China |
| Hyosung Spandex (Jiaxing) Co., Ltd | China |
| Hyosung Spandex (Zhuhai) Co., Ltd | China |
| Hyosung Spandex (Quzhou) Co., Ltd | China |

| Subsidiaries | Country of operation |
|---|----------------------|
| Hyosung Spandex (Ningxia) Co., Ltd | China |
| Hyosung DongNai Co., Ltd | Vietnam |
| Hyosung India Pvt. Ltd | India |
| Hyosung Istanbul TEKSTIL LTD.STI | Türkiye(Turkey) |
| Hyosung Brasil industria e comericio de fibras LTDA | Brazil |

Consolidated Statements of Comprehensive Income

(Unit: KRW million)

| Category | 2020 | 2021 | 2022 |
|--------------------------------|-----------|-----------|-----------|
| Sales | 5,161,617 | 8,596,030 | 8,882,730 |
| Cost of sales | 4,663,097 | 6,896,953 | 8,450,585 |
| Gross profit | 498,520 | 1,699,077 | 432,145 |
| SG&A | 217,078 | 257,369 | 287,364 |
| R&D expenses | 14,882 | 18,057 | 21,187 |
| Operating income | 266,560 | 1,423,651 | 123,594 |
| Other gain | 29,740 | 50,725 | 80,204 |
| Other loss | 23,321 | 20,248 | 63,580 |
| Finance income | 179,241 | 117,523 | 387,062 |
| Finance expenses | 228,665 | 167,423 | 496,632 |
| Profit(Loss) of associates | - | - | 11 |
| Profit before tax | 223,554 | 1,404,228 | 30,659 |
| Corporate tax expenses | 55,282 | 396,325 | 11,475 |
| Net profit | 168,272 | 1,007,903 | 19,183 |
| Other comprehensive gain(loss) | -18,680 | 96,350 | 23,149 |
| Total comprehensive income | 149,592 | 1,104,252 | 42,332 |

Financial Statements (Consolidated)

(Unit: KRW million)

| (Unit: KRW milli | | | | |
|---------------------------------------|-----------|-----------|-----------|--|
| Category | 2020 | 2021 | 2022 | |
| Current assets | 1,245,072 | 2,605,431 | 2,143,068 | |
| Cash and cash equivalents | 122,242 | 143,763 | 103,107 | |
| Trade and other receivables | 713,180 | 1,359,913 | 1,061,002 | |
| Inventories | 354,691 | 1,009,135 | 885,375 | |
| Other current assets | 54,959 | 92,620 | 93,584 | |
| Non-current assets | 1,553,283 | 1,921,038 | 2,176,811 | |
| Long-term trade and other receivables | 13,594 | 434 | 174 | |
| Tangible assets | 1,248,720 | 1,556,634 | 1,755,821 | |
| Investment in properties | 125,063 | 123,726 | 122,388 | |
| Intangible assets | 30,621 | 26,570 | 23,911 | |
| Other non-current financial assets | 135,285 | 213,674 | 274,517 | |
| Non-current assets held for sale | 25,772 | - | - | |
| Total assets | 2,824,127 | 4,526,469 | 4,319,879 | |
| Current liabilities | 1,681,903 | 2,249,513 | 2,184,964 | |
| Trade and other payables | 551,994 | 1,083,946 | 902,574 | |
| Borrowings | 1,053,683 | 899,433 | 1,187,670 | |
| Other current liabilities | 76,226 | 266,134 | 94,720 | |
| Non-current liabilities | 426,869 | 513,360 | 619,391 | |
| Long-term trade and other payables | 28,818 | 13,624 | 15,764 | |
| Long-term borrowings | 298,035 | 333,883 | 409,771 | |
| Other non-current liabilities | 100,016 | 165,853 | 193,856 | |
| Total liabilities | 2,108,772 | 2,762,873 | 2,804,356 | |
| Capital stock | 21,638 | 21,638 | 21,638 | |
| Retained earnings | 228,149 | 971,280 | 779,977 | |
| Other components of equity | 351,187 | 427,600 | 421,078 | |
| Non-controlling interest | 114,382 | 343,079 | 292,831 | |
| Total equities | 715,356 | 1,763,597 | 1,515,524 | |

Corporation Tax by Country

| Country | Items | Unit | 2020 | 2021 | 2022 |
|-----------|-----------------------|-------------|-----------|-----------|-----------|
| | Sales | KRW million | 3,143,280 | 4,560,799 | 5,364,506 |
| | Profit before tax | KRW million | 79,552 | 382,683 | 303,616 |
| Korea | Corporate tax expense | KRW million | 17,200 | 106,696 | 13,910 |
| | Tax rate | % | 24.0 | 24.0 | 28.0 |
| | Effective tax rate | % | 21.6 | 27.9 | 4.6 |
| | Sales | KRW million | 1,551,718 | 3,703,984 | 2,957,361 |
| | Profit before tax | KRW million | 85,265 | 505,482 | (112,607 |
| China | Corporate tax expense | KRW million | 6,216 | 124,857 | (40,318) |
| | Tax rate | % | 25.0 | 25.0 | 25.0 |
| | Effective tax rate | % | 14.5 | 24.7 | |
| | Sales | KRW million | 92,808 | 41,024 | 16,324 |
| | Profit before tax | KRW million | (2,804) | 2,602 | 269 |
| Hongkong | Corporate tax expense | KRW million | (559) | (430) | 121 |
| | Tax rate | % | 12.0 | 17.0 | 8.0 |
| | Effective tax rate | % | - | - | 45.1 |
| | Sales | KRW million | 438,536 | 565,683 | 705,525 |
| | Profit before tax | KRW million | 248 | 5,270 | 5,139 |
| Japan | Corporate tax expense | KRW million | 224 | 1,830 | 1,974 |
| | Tax rate | % | 31.0 | 35.0 | 31.0 |
| | Effective tax rate | % | 90.3 | 34.7 | 38.4 |
| | Sales | KRW million | 2,264 | 2,297 | 3,073 |
| | Profit before tax | KRW million | 173 | 3 | 551 |
| Taiwan | Corporate tax expense | KRW million | 53 | 26 | 140 |
| | Tax rate | % | 20.0 | 20.0 | 20.0 |
| | Effective tax rate | % | 30.7 | 751.7 | 25.5 |
| | Sales | KRW million | - | - | |
| | Profit before tax | KRW million | (98) | (115) | (89 |
| Singapore | Corporate tax expense | KRW million | (5) | 2 | |
| | Tax rate | % | 17 | 17 | 17 |
| | Effective tax rate | % | - | - | |
| | Sales | KRW million | 886,351 | 1,742,871 | 1,653,364 |
| | Profit before tax | KRW million | 31,456 | 347,050 | 138,070 |
| Vietnam | Corporate tax expense | KRW million | 2,126 | 19,066 | 12,589 |
| | Tax rate | % | 5.0 | 5.0 | 5.0 |
| | Effective tax rate | % | 6.8 | 5.5 | 9.1 |

| Country | Items | Unit | 2020 | 2021 | 2022 |
|-----------------|-----------------------|-------------|----------|---------|----------|
| | Sales | KRW million | 24,323 | 250,474 | 200,060 |
| | Profit before tax | KRW million | (11,682) | 87,202 | (37,171) |
| India | Corporate tax expense | KRW million | 420 | 15,409 | (3,963) |
| | Tax rate | % | 28.0 | 25.0 | 25.0 |
| | Effective tax rate | % | - | 17.7 | - |
| | Sales | KRW million | - | - | 16,080 |
| | Profit before tax | KRW million | - | - | (7,078) |
| Indonesia | Corporate tax expense | KRW million | - | - | - |
| | Tax rate | % | - | - | 22.0 |
| | Effective tax rate | % | - | - | - |
| | Sales | KRW million | 50,186 | 69,015 | 97,132 |
| | Profit before tax | KRW million | (52) | 2,793 | 2,564 |
| Italy | Corporate tax expense | KRW million | 134 | 789 | 782 |
| | Tax rate | % | 28.0 | 28.0 | 28.0 |
| | Effective tax rate | % | - | 28.2 | 30.5 |
| | Sales | KRW million | 159,966 | 389,641 | 322,244 |
| | Profit before tax | KRW million | 55,405 | 248,225 | 111,493 |
| Türkiye(Turkey) | Corporate tax expense | KRW million | 10,761 | 59,420 | 21,147 |
| | Tax rate | % | 22.0 | 25.0 | 23.0 |
| | Effective tax rate | % | 19.4 | 23.9 | 19.0 |
| | Sales | KRW million | 3,279 | 1,835 | 1,848 |
| | Profit before tax | KRW million | 5 | 496 | 173 |
| Mexico | Corporate tax expense | KRW million | 9 | 118 | 52 |
| | Tax rate | % | 30.0 | 30.0 | 30.0 |
| | Effective tax rate | % | 175.2 | 23.8 | 30.0 |
| | Sales | KRW million | 99,169 | 211,326 | 216,827 |
| | Profit before tax | KRW million | 34,081 | 62,964 | 13,763 |
| Brazil | Corporate tax expense | KRW million | 11,337 | 16,396 | 1,968 |
| | Tax rate | % | 34.0 | 34.0 | 34.0 |
| | Effective tax rate | % | 33.3 | 26.0 | 14.3 |

^{*} The revenue and profit before tax figures for Korea have been adjusted to match the data in the separate income statement presented in the 2022 annual report.

* In instances where corporate tax expenses turn negative due to profit before tax losses, the effective tax rate is adjusted to 0 in accordance with auditor validation, and this adjustment is accurately incorporated, with the effective tax rate rounded to the first decimal place.

Governance and Economic Performance

Current Status of Board of Directors

| Category | | Unit | 2022 |
|--|---|--------|-------|
| Diversity | Male | Person | 6 |
| | Female | Person | - |
| No. of outside directors within the BoD | No. of outside directors within the BoD | | |
| Outside director's attendance rate at the Outside Director | Recommendation Committee | % | 100.0 |
| No. of meetings of the Audit Committee | | Times | 7 |
| Outside director's attendance rate at the Audit Committee | | % | 100.0 |

^{*} Data only include the BoD of Hyosung TNC

Ethical and Compliance Management

| Cahanami | | Unit | Hyosung TNC | Subsidiaries |
|---|---|-------------|-------------|--------------|
| Category | | Unit | 2022 | 2022 |
| Franks as discrimination | No. of cases reported | Case | - | - |
| Employee discrimination | No. of cases reviewed | Case | - | - |
| Auti namentina | No. of cases reported | Case | 1 | 1 |
| Anti-corruption | No. of individuals subject to disciplinary actions | Person | - | - |
| Fair trade | No. of violations | Case | 1 | - |
| rair trade | Fines for violations | KRW million | - | - |
| | Cases of fines imposed | Case | 2 | - |
| | Cases of non-monetary sanctions | Case | - | - |
| | No. of violations of legal and voluntary regulations regarding product and service information and labeling | Case | - | |
| Violation of laws and regulations | Total amount of fines | KRW million | 16 | - |
| | Fines for violations of financial regulations, including insider trading, monopoly, and anticompetitive behaviors | KRW million | - | - |
| | Fines incurred by the violations of environmental regulations, such as pollutant emissions | KRW million | | - |
| Anti-corruption | | | | |
| Ratio of employees and executives who received anti-corruption training | Ratio of executives who received anti-corruption training and notice | % | 25.0 | - |
| and notice | Ratio of employees who received anti-corruption training and notice | % | 93.6 | 59.9 |
| No. of business sites that assessed risk | s of anti-corruption | Site | 1 | 9 |

Production Output by Business Sector

| Category | | Unit | 2020 | 2021 | 2022 |
|--------------------------------------|--------------------|-----------------|-----------|-----------|-----------|
| Production output by business sector | Textiles | KRW million | 1,752,382 | 4,408,553 | 3,667,979 |
| | Trading and others | NRVV ITIIIIIOIT | 308,277 | 449,694 | 673,323 |

^{*} Production volume is based on consolidated data.

R&D Expenses

| Category | Unit | | Hyosung TNC | | Subsidiaries |
|--------------------------------------|-------------|--------|-------------|--------|--------------|
| | Offic | 2020 | 2021 | 2022 | 2022 |
| Total R&D Expenses | KRW million | 14,882 | 18,057 | 21,187 | 924 |
| R&D Expenses in environmental sector | KRW million | - | - | 606 | - |

 $^{{\}rm *R\&D\,expenses\,for\,subsidiary\,data\,include\,only\,Hyosung\,DongNai\,Co.,Ltd.}$

Patent Registrations and Applications

| Category | | Unit | 2020 | 2021 | 2022 |
|-----------------------------------|----------|------|-------|-------|-------|
| Patent registration (accumulated) | Domestic | Case | 584 | 591 | 591 |
| | Overseas | Case | 195 | 198 | 206 |
| Patent application (accumulated) | Domestic | Case | 1,216 | 1,219 | 1,224 |
| | Overseas | Case | 352 | 362 | 374 |

 $^{{\}rm *The\ figures\ may\ differ\ from\ business\ report\ due\ to\ variations\ in\ the\ consolidation\ and\ compilation\ of\ existing\ patent\ rights\ resulting\ from\ the\ split.}$

Social Performance

Employee Status

| Catagony | | Unit | | Hyosung TNC | | Subsidiarie |
|--|---|--------|-------|-------------|-------|-------------|
| Category | | Unit | 2020 | 2021 | 2022 | 202 |
| Total employees (Permanent and Temporary) | | Person | 1,528 | 1,501 | 1,435 | 5,45 |
| | Permanent (male) | | 1,113 | 1,188 | 1,106 | 3,87 |
| | Permanent (female) | Person | 238 | 252 | 256 | 1,49 |
| | Subtotal | | 1,351 | 1,440 | 1,362 | 5,36 |
| Employment type | Temporary (male) | | 123 | 43 | 44 | 6 |
| | Temporary (female) | Person | 54 | 18 | 29 | 2 |
| | Subtotal | | 177 | 61 | 73 | 8 |
| | Part-time (male) | Person | 3 | 6 | 2 | |
| | Part-time (female) | | 4 | 2 | 7 | |
| | Subtotal | | 7 | 8 | 9 | |
| Age | Under 30 | Person | 271 | 231 | 206 | 2,32 |
| | 30-50 | | 793 | 790 | 795 | 2,97 |
| | 51 and above | | 471 | 488 | 443 | 14 |
| Caradan | Male | Danner | 1,239 | 1,237 | 1,152 | 3,93 |
| Gender | Female | Person | 296 | 272 | 292 | 1,51 |
| Job category (based | Salary | - | 766 | 743 | 760 | 1,31 |
| on permanent employment) | Hourly | Person | 585 | 697 | 602 | 4,04 |
| | Employees with disability | | 40 | 49 | 45 | 2 |
| | Veterans | | 22 | 19 | 17 | |
| Diversity | Foreigner | Person | 2 | 2 | 4 | 8 |
| | Subtotal | | 49 | 58 | 66 | 11 |
| | Female employee ratio | | 19.1 | 18.0 | 19.9 | 27. |
| Fostering Female Talent | Female managerial positions ratio (manager and above) | % | 11.7 | 12.1 | 13.5 | 22 |

New Recruitment and Turnover

| Cataran | | Unit | | Hyosung TNC | | Subsidiaries |
|------------------------|-------------------------|--------|------|-------------|------|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| | Male | | 73 | 93 | 131 | 1,547 |
| | Female | | 35 | 41 | 73 | 509 |
| New recruits | Subtotal | | 108 | 134 | 204 | 2,056 |
| | Under 30 | Person | 72 | 81 | 68 | 1,410 |
| | 30-50 | | 20 | 49 | 119 | 637 |
| | 51 and above | | 16 | 4 | 17 | 9 |
| | Subtotal | | 108 | 134 | 204 | 2,056 |
| | Male | | 59 | 67 | 110 | 739 |
| | Female | | 20 | 51 | 49 | 312 |
| | Subtotal | | 79 | 118 | 159 | 1,051 |
| Turnover (voluntary | Under 30 | Person | 47 | 64 | 78 | 674 |
| turnover of permanent) | 30-50 | | 25 | 40 | 61 | 369 |
| | 51 and above | | 7 | 14 | 20 | 8 |
| | Subtotal | | 79 | 118 | 159 | 1,051 |
| | Voluntary turnover rate | % | 5.2 | 7.9 | 11.1 | 19.6 |

Total Compensation and Remuneration

| Catagoni | | I India | | Hyosung TNC | | Subsidiaries |
|--|-------------------------|-------------|-------|-------------|-------|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| Total compensation for entry-level employees | | KRW million | 43 | 51 | 47 | 9 |
| Ratio of entry-level employee compensation to legal minimum wage | Male | % | 171.5 | 202.4 | 175.6 | 223.5 |
| | Female | 70 | 171.5 | 202.4 | 175.6 | 236.6 |
| | Executive | | - | 101.8 | 71.4 | 16.7 |
| Rate of total compensation for female compared to male | Manager level or higher | % | 89.4 | 90.8 | 89.9 | 42.6 |
| compared to male | Non-manager level | | 63.0 | 65.7 | 65.2 | 60.9 |
| Average total compensation | | KRW million | 64 | 76 | 69 | 11 |
| Total annual compensation for C-level executives | | KRW million | 289 | 428 | 310 | - |
| Median employee compensation (excluding C-level executives) ¹⁾ | | KRW million | 63 | 76 | 68 | 43 |
| Ratio of C-level executives' compensation to that of employees ¹⁾ | | Times | 4.62 | 5.65 | 4.57 | - |

¹⁾ Total annual compensation for top executives and the ratio of top executives' compensation to that of employees: Due to unavailability of data for certain subsidiaries, figures have been omitted for 2022 Sustainability Report.

Social Performance

Maternity and Childcare Leave

| Catanami | | Llada | | Hyosung TNC | | Subsidiaries |
|--------------------------|---|--------|-------|-------------|-------|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| Maternity leave | No. of employees under maternity leave | Person | 19 | 24 | 27 | 168 |
| (male) | Returning ratio to work after maternity leave | % | 100.0 | 100.0 | 100.0 | 100.0 |
| Maternity leave | No. of employees under maternity leave | Person | 10 | 6 | 9 | 100 |
| (female) | Returning ratio to work after maternity leave | % | 100.0 | 100.0 | 100.0 | 82.6 |
| | No. of employees entitled to childcare leave | Person | 186 | 162 | 140 | - |
| | No. of employees on childcare leave | Person | 3 | 2 | 2 | 211 |
| Childcare leave (male) | No. of employees returning to work after childcare leave | Person | - | 4 | - | 209 |
| | No. of employees with over 12 months of service after childcare leave | Person | - | - | 3 | 204 |
| | No. of employees entitled to childcare leave | Person | 36 | 28 | 26 | - |
| | No. of employees on childcare leave | Person | 13 | 10 | 9 | 131 |
| Childcare leave (female) | No. of employees returning to work after childcare leave | Person | 12 | 13 | 7 | 125 |
| | No. of employees with over 12 months of service after childcare leave | Person | 2 | 12 | 8 | 122 |

 $^{{\}rm *Data\,are\,unavailable\,for\,the\,no.\,of\,employees\,eligible\,for\,childcare\,leave\,in\,subsidiaries.}$

Labor Union Membership and Retirement Pension

| Catamami | | I locid | | Hyosung TNC | | Subsidiaries |
|-------------------------------------|--|-------------|--------|-------------|--------|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| Labor Union Membership Status | No. of employees covered by collective bargaining agreements | Person | 585 | 579 | 493 | 4,575 |
| | Ratio of employees covered by collective bargaining agreements among total employees | % | 38.3 | 38.6 | 34.4 | 83.4 |
| | No. of union workers | Person | 523 | 520 | 438 | 1,639 |
| | Ratio of union workers | % | 89.4 | 89.8 | 88.8 | 35.8 |
| | Total operation fund for retirement pension | KRW million | 89,582 | x99,555 | 96,883 | 547 |
| | Operation fund of DB pension | KRW million | 88,002 | 97,828 | 95,227 | - |
| Retirement | Operation fund of DC pension* | KRW million | 2,170 | 2,209 | 5,167 | - |
| pension | Total number of members | | 1,668 | 1,659 | 1,587 | 2,065 |
| | No. of DB pension members | Person | 1,353 | 1,330 | 1,284 | - |
| | No. of DC pension members | | 315 | 329 | 303 | - |

^{*} AUM for DC pension fund: The figures for 2020 and 2021 have been adjusted to be aligned with the 'amounts recognized as expenses related to the DC pension fund' in the footnotes of the financial statements in the 2022 business report.

Employee Training Status

| Catanana | | 11-2 | | Hyosung TNC | | Subsidiaries |
|---|-------------------------|--------|-------------|-------------|-------------|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| No. of training participants | | Person | 20,109 | 23,931 | 20,066 | 16,062 |
| Total training expenses | | KRW | 582,597,000 | 773,020,000 | 832,587,000 | 225,026,467 |
| Total training hours | | Hours | 41,535 | 59,609 | 57,933 | 114,922 |
| Average training hours per employee | | Hours | 27 | 40 | 40 | 21 |
| Average training expenses per employe | 9 | KRW | 381,281 | 515,003 | 580,200 | 41,267 |
| Average training hours per employee Male | | | 27 | 39 | 39 | 17 |
| by gender | Female | Hours | 22 | 27 | 47 | 10 |
| Average training hours per employee by employee category | Executive | | 45 | 42 | 25 | 0 |
| | Manager level or higher | | 33 | 38 | 62 | 3 |
| by employee eategory | Non-manager level | | 24 | 36 | 34 | 23 |
| No. of participants in environmental train | ning | | 1,981 | 1,238 | 1,350 | 1,837 |
| No. of participants in ethics and anti-cor | ruption training | | 1,266 | 1,028 | 1,343 | 3,148 |
| No. of participants in fair trade training | | | 645 | 773 | 1,412 | 136 |
| No. of participants in safety and health t | raining | | 4,337 | 8,201 | 3,156 | 5,359 |
| No. of participants in human rights training (sexual harassment / disability awareness / discrimination prevention) | | Person | 4,408 | 4,224 | 5,829 | 1,330 |
| No. of participants in information security training | | | 1,362 | 512 | 1,941 | 1,671 |
| No. of participants in sustainability management training | | | 17 | 1,417 | 1,119 | 792 |
| No. of participants in retiree training | | | 26 | 40 | 54 | 231 |

Regular Performance Evaluation

| Catagony | | Unit | | Subsidiaries | | |
|--|--|------|-------|--------------|-------|-------|
| Category | | | 2020 | 2021 | 2022 | 2022 |
| No. of employees subject to performance | No. of employees subject to performance evaluation | | 1,351 | 1,440 | 1,362 | 4,625 |
| Performance evaluation rate | Performance evaluation rate | | 88.0 | 96.0 | 94.9 | 91.0 |
| Regular performance and career | Male | | 90.0 | 96.5 | 96.2 | 70.0 |
| development review rate by gender | Female | | 81.5 | 93.3 | 89.8 | 37.4 |
| Regular performance and career | Executive | % | 100.0 | 100.0 | 100.0 | 10.6 |
| development review rate by employee category | Manager level or higher | | 100.0 | 100.0 | 100.0 | 51.5 |
| | Non-manager level | | 87.7 | 95.7 | 94.6 | 87.9 |

^{*} Subsidiaries data for retirement pension: Limited to DongNai and Brazil Corporation

Social Performance

Supplier Status

| Category | Unit | | Subsidiaries | | |
|--|-------------|---------|--------------|---------|-----------|
| Category | Offic | 2020 | 2021 | 2022 | 2022 |
| No. of suppliers | Company | 161 | 212 | 245 | 835 |
| Total purchase from suppliers | KRW million | 414,215 | 661,257 | 838,304 | 2,875,922 |
| Local purchase ratio in key business regions | % | - | 86.5 | 72.1 | 86.0 |

ESG Risk Assessment in Supply Chain

| Category | Unit | 2022 |
|--|---------|------|
| Total number of suppliers | Company | 245 |
| No. of suppliers who signed the Pledge of Compliance with the Code of Conduct for Hyosung Suppliers | Company | 144 |
| No. of key suppliers | Company | 22 |
| No. of suppliers assessed for ESG impact | Company | 13 |
| No. of suppliers identified as having significant actual and potential negative ESG impacts | Company | 8 |
| No. of suppliers that agreed improvement based on the negative results of assessment | Company | 6 |
| Ratio of suppliers that agreed improvement based on the negative results of assessment (suppliers agreed improvement / suppliers implemented assessment) | % | 46.2 |
| No. of suppliers whose contracts were terminated due to the significant ESG impacts | Company | - |

 $^{^{\}ast}$ Key suppliers refer to the companies within the scope of 95% total purchase amount

Compliant Handling Process for Suppliers

| Category | Unit | 2022 |
|-------------------------------|------|-------|
| No. of complaints submissions | Case | 1 |
| No. of complaints processed | Case | 1 |
| Processing rate | % | 100.0 |

^{*} Integrated management item for Hyosung TNC, with no applicable subsidiaries.

CSR Activities

| Category | Unit | | Subsidiaries | | |
|---------------------|-------------|------|--------------|------|------|
| | Offic | 2020 | 2021 | 2022 | 2022 |
| CSR investment | KRW million | 585 | 413 | 785 | 72 |
| No. of CSR programs | Program | 4 | 27 | 36 | 14 |

Occupational Accidents and Injuries

| C-1 | | 11-24 | | Hyosung TNC | | Subsidiaries |
|-------------------------|--|-------------------|------|-------------|------|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| | accident rate(rate of injured individuals due to accidents and diseases) | % | 0.13 | 0.83 | 0.47 | 0.40 |
| Total recorda | ble incident rate (TRIR) | Per 200,000 hours | 0.10 | 0.35 | 0.45 | 0.34 |
| Process Safe | ty Incidents Count (PSIC) | Case | - | - | - | 2 |
| Process Safe | ty Total Incident Rate (PSTIR) | Per 200,000 hours | - | - | - | 0.03 |
| | No. of fatalities | Person | - | - | - | - |
| | Fatality rate | Per 200,000 hours | - | - | - | - |
| Employees | No. of high-consequence occupational accidents (excluding fatalities) | Case | - | - | - | 1 |
| | High-consequence occupational accidents rate (excluding fatalities) | Per 200,000 hours | - | - | - | 0.05 |
| | No. of work-related accidents or work-related diseases | Case | 1 | 6 | 3 | 20 |
| | No. of fatalities due to work-related diseases | Person | - | - | - | - |
| | No. of injuries due to work-related diseases | Person | 1 | 1 | 5 | 1 |
| | No. of fatalities | Person | - | - | - | |
| | Fatality rate | Per 200,000 hours | - | - | - | |
| | No. of high-consequence occupational accidents (excluding fatalities) | Case | - | - | - | |
| Partners | High-consequence occupational accidents rate (excluding fatalities) | Per 200,000 hours | - | - | - | |
| No. of work-re diseases | No. of work-related accidents or work-related diseases | Case | 1 | 1 | 1 | |
| | No. of fatalities due to work-related diseases | Person | - | - | - | |
| | No. of injuries due to work-related diseases | Person | 1 | - | - | - |

 $^{^{*}}$ The incident rate for the years 2020 to 2021 was recalculated due to the previous calculation errors.

Products and Services Subject to Product Information Labeling and Product Safety and Health Assessment

| Category | | Unit | 2022 |
|--|--------------------------|------|------|
| Ratio of products and services subject to product information labeling and associated assessment | Total | % | 36.0 |
| | Spandex products | % | 13.3 |
| | Nylon polyester products | % | 46.0 |

^{*} The combined figures of Hyosung TNC and its subsidiary

 $^{*\, \}mathsf{Data} \, \mathsf{of} \, \mathsf{ESG} \, \mathsf{impacts} \, \mathsf{assessment} \, \mathsf{in} \, \mathsf{supply} \, \mathsf{chain} \, \mathsf{only} \, \mathsf{include} \, \mathsf{Hyosung} \, \mathsf{TNC} (\mathsf{exclude} \, \mathsf{Subsidiary})$

Environmental Performance

GHG emissions

| | | | | Hyosung TNC | | | | | |
|-----------------------------------|-----------------------|---|---------|-------------|---------|-------------|---------|--|--|
| Category | | Unit | 2020 | 2021 | 2022 | | 2022 | | |
| | | | 2020 | 2021 | Plan | Performance | 2022 | | |
| | Stationary combustion | | 82,822 | 93,808 | 93,398 | 82,923 | 269,811 | | |
| Direct GHG emissions (Scope 1) | Mobile combustion | | 695 | 437 | 17 | 361 | 2,593 | | |
| | Process emissions | tCO₂eq | - | - | 0 | - | - | | |
| | Waste disposal | | 5,664 | 506 | 0 | 826 | - | | |
| | Subtotal | | 89,181 | 94,751 | 93,414 | 84,110 | 272,404 | | |
| | Electricity | | 236,033 | 263,867 | 257,738 | 209,295 | 610,519 | | |
| Indirect GHG emissions (Scope 2) | Steam | tCO₂eq | 3,550 | 6,518 | 3,047 | 4,285 | 110,759 | | |
| (Scope 2) | Subtotal | | 239,583 | 270,385 | 260,785 | 213,581 | 721,278 | | |
| Total GHG emissions (Scope | 1 & 2) | tCO ₂ eq | 328,764 | 365,136 | 354,199 | 297,691 | 993,682 | | |
| | Scope 1 | .00 / | 8.72 | 5.74 | 5.66 | 5.24 | 0.0840 | | |
| GHG emissions intensity 1) | Scope 2 | tCO ₂ eq/ KRW 100 million | 23.42 | 16.37 | 15.79 | 13.30 | 0.2225 | | |
| | Subtotal | TATAN TOO TTIIIIOTT | 32.14 | 22.11 | 22.05 | 18.53 | 0.306 | | |
| | Revenue | KRW 100 million | 10,229 | 16,514 | 16,063 | 16,063 | | | |

¹⁾ When calculating intensity, only the revenue from the textile sector is included, excluding the trading portion from the total revenue of Hyosung TNC.

Air Pollutants Emissions

| | | | | Hyos | Subsidiaries | | | |
|----------------------------|-------------------------|------|------|------|--------------|-------------|-------|-------------|
| Category | | Unit | 2020 | 2021 | | 2022 | 2022 | |
| | | | 2020 | 2021 | Plan | Performance | Plan | Performance |
| | Nitrogen oxides (NOx) | | 47.8 | 58.9 | - | 59.6 | 177.8 | 164.4 |
| General air pollutants | Sulfur oxides (SOx) | Ton | 1.2 | 3.1 | - | 6.3 | 39.6 | 82.7 |
| poliuturits | Particulate matter (PM) | | 5.0 | 4.0 | - | 3.8 | 56.7 | 84.6 |
| Volatile Organic Co | mpounds (VOCs) | Ton | - | - | - | 0.002 | 42.0 | 53.4 |
| Hazardous. Air Pol | lutants (HAPs) | Ton | - | - | - | - | - | 1.2 |
| | CFD(R-11) | | 0.8 | 0.3 | - | 0.2 | - | - |
| Ozone depleting substances | HCFC(R-123) | Ton | - | - | - | - | - | - |
| | HCFC(R-22) | | - | - | - | - | - | - |

Chemical Substances Management

| Category | | | Hyos | Subsidiaries | | | |
|---------------------------------|-----------------------|-------|-------|--------------|-------------|---------|-------------|
| | Unit | 2020 | 2021 | 2022 | | 2022 | |
| | | 2020 | | Plan | Performance | Plan | Performance |
| Hazardous chemicals consumption | Ton | 7,510 | 7,619 | 8,000 | 7,174 | 120,252 | 3,269,911 |
| Hazardous chemicals intensity | Ton / KRW 100 million | 0.73 | 0.46 | 0.50 | 0.45 | 0.01 | 0.35 |
| Chemical substance emissions | Ton | 0.4 | 0.3 | 0.2 | 0.2 | 3.0 | 2.9 |

Energy Consumption

| | | | | Hyos | sung TNC | | Subsidiaries |
|------------------------|------------------------------------|----------------------|----------|----------|----------|-------------|--------------|
| Category | | Unit | | | | 2022 | |
| | | | 2020 | 2021 | Plan | Performance | 2022 |
| | Diesel (for vehicles) | | 6.42 | 4.09 | 0.21 | 2.88 | 1.38 |
| | Diesel (excluding vehicles) | | 6.42 | 4.09 | 0.00 | 0.01 | 4.24 |
| | Kerosene | | 0.35 | 0.34 | 0.00 | 0.37 | - |
| | LNG | | 823.57 | 956.71 | 1,200.92 | 855.58 | 2,296.51 |
| | Gasoline (for vehicles) | | 1.64 | 1.39 | 0.03 | 1.33 | 16.50 |
| | Gasoline (excluding vehicles) | | 1.64 | 1.39 | 0.00 | 0.01 | - |
| Direct energy | Propane | T. | 681.98 | 766.81 | 751.78 | 670.80 | 0.01 |
| consumption | BC oil | TJ - | 19.67 | 11.08 | 22.93 | 8.47 | - |
| | Hard coal | | - | - | 0.00 | - | 1,416.98 |
| | Other solid fuels | | - | - | 0.00 | - | 44.38 |
| | LPG (for vehicles) | | 2.24 | 0.96 | 0.00 | 1.17 | 20.11 |
| | LPG (excluding vehicles) | | 2.24 | 0.96 | 0.00 | - | 4.67 |
| - | Biogas | | 48.93 | 36.28 | - | 2.80 | 13.31 |
| | Subtotal | | 1,584.81 | 1,777.67 | 1,975.86 | 1543.42 | 3,818.08 |
| | Electricity | | 4,859.88 | 5,513.85 | 5,385.78 | 4,373.50 | 4,023.96 |
| Indirect | Steam | | 658.22 | 783.22 | 813.03 | 931.39 | 3,300.67 |
| energy | Waste heat from industrial process | TJ | - | - | 0.00 | _ | - |
| consumption | Heat from waste incineration | 13 | 397.41 | 332.03 | 403.70 | 405.64 | - |
| | Subtotal | | 5,915.51 | 6,629.10 | 6,602.51 | 5,304.89 | 7,324.63 |
| Total | | | 7,500.32 | 8,406.77 | 8,578.37 | 6,848.29 | 11,142.71 |
| Energy intensit | y ¹⁾ | TJ / KRW 100 million | 0.73 | 0.51 | - | 0.43 | 0.34 |
| | PPA | | | | - | - | - |
| | Green Premium | | | | - | - | - |
| | REC | TJ | | | - | - | - |
| Renewable energy usage | Self-generated (waste energy) | 13 | 397 | 332 | 403.70 | 328 | - |
| 3,3 | Self-generated (bioenergy) | | 49 | 36 | 30 | 22 | - |
| | Subtotal | | 446 | 368 | 434 | 350 | - |
| | Renewable energy usage ratio | % | 5.94 | 4.38 | 5.06 | 3.04 | - |

¹⁾ When calculating intensity, only the revenue from the textile sector is included, excluding the trading portion from the total revenue of Hyosung TNC.

Environmental Performance

Waste Treatment

| | | | | Hyos | ung TNC | | Subsidiaries | |
|-----------------------|------------------------|------|--------|--------|---------|-------------|--------------|-------------|
| Category | | Unit | 2000 | 0004 | | 2022 | 2022 | |
| | | | 2020 | 2021 | Plan | Performance | Plan | Performance |
| Non-hazardous v | waste (ordinary waste) | | | | | | | |
| Self-treatment | | | - | - | - | - | - | - |
| | Recycling | | 13,455 | 13,002 | 8,620 | 11,836 | 3,020 | 9,397 |
| Outsourced | Incineration | T | 1,475 | 1,605 | 700 | 1,220 | 3,838 | 3,693 |
| treatment | Landfill | Ton | 593 | 451 | 300 | 330 | 2,377 | 1,545 |
| | Others | | - | - | - | - | - | - |
| Subtotal | <u>'</u> | | 15,523 | 15,058 | 9,620 | 13,387 | 9,235 | 14,635 |
| Hazardous waste | e (designated waste) | | | | | | | |
| Self-treatment | | | 597 | 598 | - | 439 | - | - |
| | Recycling | | 434 | 486 | 200 | 308 | 210 | 123 |
| Outsourced | Incineration | | 1,558 | 1,650 | 150 | 1,622 | 13,417 | 11,162 |
| treatment | Landfill | Ton | 1 | 2 | 1 | 1 | 49 | 42 |
| | Others | | - | - | - | - | - | - |
| Subtotal | | | 2,590 | 2,737 | 351 | 2,369 | 13,675 | 11,327 |
| Total waste generated | | Ton | 18,123 | 17,770 | 9,971 | 15,756 | 22,910 | 25,962 |
| Total waste recycled | | Ton | 13,899 | 13,488 | 8,820 | 12,583 | 3,230 | 9,520 |
| Total ratio of was | te recycled | % | 76.7 | 75.9 | 88.5 | 79.9 | 14.1 | 36.7 |

Use, Reuse and Recycling of Materials

| Category | | Unit | Hyosung TNC | | | Subsidiaries |
|---|---|-------|-------------|---------|---------|--------------|
| Category | | Offic | 2020 | 2021 | 2022 | 2022 |
| | Total use | Ton | 522,270 | 650,221 | 560,799 | 846,137 |
| Raw (subsidiary) materials | Recycled amount (recovery of DMAc in manufacturing spandex) | Ton | 22,159 | 30,488 | 22,004 | 358,425 |
| Usage of recycled materials (PET bottle recycle chips and flakes) | | Ton | 3,943 | 6,816 | 11,894 | 6,060 |

Water Resources

| | | | | Hyos | | Subsidiaries | | |
|---|---------------------------------|------|-----------|-----------|-----------|--------------|-----------|-------------|
| Category | Category | | 2020 | 2021 | | 2022 | 2022 | |
| | | | 2020 | 2021 | Plan | Performance | Plan | Performance |
| | Municipal water | | 80,725 | 80,589 | 81,725 | 80,647 | 2,505,869 | 2,381,844 |
| Water | Groundwater | Ton | - | - | - | - | 689,714 | 632,457 |
| consumption by water source | Industrial water | 1011 | 6,276,576 | 6,756,354 | 6,655,686 | 7,009,847 | 2,681,941 | 2,584,296 |
| | River water | | - | - | - | - | - | - |
| Total water consun | nption | Ton | 6,357,301 | 6,836,943 | 6,737,411 | 7,090,494 | 5,877,524 | 5,598,597 |
| Water reused (inclu reused industrial wa | 9 | Ton | 4,665,190 | 4,498,213 | 5,065,941 | 5,152,144 | 529,723 | 397,178 |
| Water reuse rate (in + reused industrial v | ncluding internal use water) | % | 73.0 | 66.0 | 75.0 | 73.0 | 9.0 | 7.1 |
| Total water consun | nption | Ton | 6,357,301 | 6,836,943 | 6,737,411 | 7,090,494 | 5,877,524 | 5,598,597 |

Wastewater and Water Treatment

| Catagony | Category | | | | Subsidiaries | |
|-------------------------------------|----------------------|------|-----------|-----------|--------------|-----------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| | Wastewater treatment | | 547,317 | 555,740 | 701,025 | 1,196,920 |
| Wastewater discharge by location | Seawater discharge | Ton | | | - | - |
| | Outsourced treatment | | | | - | 474,850 |
| Total Wastewater discharge | | Ton | 1,227,242 | 1,297,689 | 1,187,291 | 1,671,770 |
| Biochemical Oxygen Demand | (BOD) | | 3.65 | 5.01 | 4.34 | 22.40 |
| Chemical Oxygen Demand (C | OD) | | 33.44 | 36.11 | 21.12 | 24.52 |
| Suspended Solids (SS) | | Ton | 6.98 | 6.43 | 8.60 | 40.92 |
| Total Nitrogen (T-N) | | | 10.33 | 11.97 | 9.61 | 26.14 |
| Total Phosphorus (T-P) | | | 0.46 | 0.39 | 0.29 | 0.21 |

Environmental Performance

Energy Savings and Emissions Reduction

| Site | Project | Date of installation | Investment (KRW million) | Energy savings (kWh / year) | Energy savings (TJ / year) | GHG emissions reductions (CO₂ ton eq / year) |
|--------|--|----------------------|-----------------------------|-----------------------------------|----------------------------------|--|
| | Upgrading to high-efficiency cooler (800RT) | Oct. 2019 | 240 | 1,152,000 | 11.06 | 529 |
| Gumi | Replacing with new air compressors (to optimize supply pressure) | Oct. 2019 | 330 | 1,190,000 | 11.42 | 547 |
| Guilli | Q6-2 lower heat medium pump inverter reduction | Sep. 2021 | 9.32 | 14,030 | 0.13 | 6 |
| | Energy (electricity cost) savings through STA air pressure optimization | Dec. 2021 | 90.0 | 1,250,928 | 12.01 | 575 |
| | Lighting improvement for fabric inspection machines | Mar. 2017 | 6 | 9,712 | 0.09 | 4 |
| | LED lighting replacement | Mar. 2018 | 14.91 | 46,116 | 0.44 | 21 |
| Daegu | Increasing efficiency of waste heat recovery system - Inverter installment for raw water conveying pump, replacement of a calorimeter, and pipe cleaning | Oct. 2022 | 2 | 31,586 | | 69 |
| | Replacing extruder BL motors (BL Motor -> Induction Motor) | Oct. 2019 | 99.9 | 1,103,760 | 10.60 | 507 |
| | Replacing outdated dewatering equipment | Dec. 2019 | 393 | 219,600 | 2.11 | 101 |
| Ulsan | Improving the efficiency of distributing returned cooling water (electricity) - Replacing a faulty valve in the cooling tower to enhance the efficiency of distributing returned cooling water and shutting down one cooling tower | Oct. 2022 | 6 | 396,000 | 3.80 | 182 |
| | Reducing air loss through dryer facility enhancement (electricity) - Replacing the existing purge type dryer with non-purge type to prevent air loss | Aug. 2022 | 210 | 426,673 | 4.10 | 196 |
| | Improving back washing frequency through replacement of sand filter media | Jan. 2022 | 50 | 427,680 | 4.11 | 196 |
| Total | | | 1,451 | 6,268,085 | 59.87 | 2,934 |

| Site | | Project | Energy savings (TJ / year) | GHG emissions reductions (CO ₂ ton eq / year) |
|--------------|--|--|-------------------------------|--|
| | Hyosung Chemicals (Jiaxing) Co., Ltd | Steam savings through compressor | 47.76 | 1,602.82 |
| | Hyosung Spandex (Jiaxing) Co., Ltd | LED lighting replacement | 0.45 | 71.88 |
| | Replacing C6 #1 HTM boiler air preheater to enhance efficiency | 1.75 | 276.87 | |
| | | Integrating C3-3 and C6 operations | 23.13 | 3,664.47 |
| | | Installing 2 high-efficiency motors for P8080 (CH/W Pump) | 0.82 | 130.06 |
| | Hyosung Spandex | Power savings through temperature adjustment of CH/W system | 2.12 | 336.28 |
| | (GuangDong) Co., Ltd | Installing automatic control device for steam condensate cooling fan | 0.01 | 1.98 |
| | | Changing operation mode of N2 generator and reducing air purge | 1.13 | 179.51 |
| | | Upgrading motors for dope tank AG and AG4010 | 0.33 | 52.16 |
| | | Installing LED lighting at the polymerization site | 0.01 | 2.25 |
| | | Maintaining indoor temperature and humidity in the Take Up area and stopping AHU 1B supply fan | 0.25 | 50.37 |
| Subsidiaries | | Maintaining indoor temperature and humidity in the Take Up area while stopping AHU 1B return fan | 0.96 | 191.09 |
| | Hyosung India Pvt. Ltd | Maintaining temperature in the Spinning Room and stopping AHU 3B return fan | 0.01 | 2.91 |
| | | Installing cooling pads in AHU 3A and 3B for pre-cooling of fresh air | 0.04 | 7.87 |
| | | Optimizing motor current of LP compressor and maintaining air pressure | 0.15 | 29.40 |
| | | Optimizing HP air pressure | 0.26 | 51.29 |
| | | Installing AHU coolers | | 21.59 |
| | | Stopping polymerization pumps and agitator mixers | 0.47 | 48.59 |
| | Hyosung Istanbul TEKSTIL LTD.STI | Changing pump types | 0.31 | 32.38 |
| | | Building TVR system | 3.91 | 131.29 |
| | | Installing boiler preheaters | 4.61 | 154.74 |
| Total | | | 88.72 | 7,039.79 |

Sales and Purchase of Low Environmental Impact Products and Services

| Category | Unit | | Subsidiaries | | |
|---|-------------|--------|--------------|--------|--------|
| Category | Offic | 2020 | 2021 | 2022 | 2022 |
| Revenue from products and services designed for a low-carbon economy (sales of products and services) | KRW million | 31,515 | 61,413 | 50,957 | 3,907 |
| Target net income from products and services designed for a low-carbon economy | KRW million | - | - | 74,367 | 11,192 |
| Purchase of products and services | KRW million | 11,226 | 16,403 | 28,800 | 9,342 |

 $^{^{*}}$ Data for 2020 and 2021 have been corrected due to changes in calculation criteria.

Pollution-free Vehicles

| Category | | Unit | | Subsidiaries | | |
|----------------------------------|-------------------|-----------|------|--------------|------|------|
| Category | | Offic | 2020 | 2021 | 2022 | 2022 |
| On-road vehicles | EVs | - vehicle | - | - | - | 1 |
| Of Frodu Verlicies | Hydrogen vehicles | verlicie | - | - | - | - |
| Off-road vehicles | EVs | vehicle | 69 | 74 | 66 | 25 |
| Hydrogen vehicles | | verlicie | - | - | - | - |
| Ratio of pollution-free vehicles | | % | 48 | 51 | 48 | 21.0 |

^{*}On-road vehicles: Passenger cars, vans, trucks, special vehicles, two-wheeled vehicles (excluding electric bicycles)

Biodiversity within Areas of Business Impact

| Category | Unit | Hyosung TNC | Subsidiaries |
|--|------|-------------|--------------|
| IUCN Red List of Threatened Species | 종 | 213 | 2,196 |
| Nationally designated endangered species | 종 | 23 | - |

^{*} IUCN Red List of Threatened Species: Included species categorized as Critical (CR), Endangered (EN), and Vulnerable (VU) within a 25 km radius of the business site.

Environmental Investments

| | | | Hyos | ung TNC | | Subsidiaries | | |
|--|-------------|-------|-----------|---------|-------------|--------------|-------------|--|
| Category | Unit | 2020 | 2020 2021 | | 2022 | 2022 | | |
| | | 2020 | | Plan | Performance | Plan | Performance | |
| Waste treatment and environment restoration expenses | | 1,699 | 1,749 | 1,535 | 2,617 | 6,851 | 5,085 | |
| Pollution prevention and environmental management expenses | KRW million | 1,056 | 1,406 | 354 | 374 | 437 | 507 | |
| Investment in facilities for environmental improvement | | 205 | 527 | 983 | 960 | 531 | 2,707 | |
| Total | | 2,960 | 3,682 | 2,872 | 3,951 | 7,819 | 8,298 | |

¹⁾ Figures have been aligned to changes in the combined environmental investments for 2020 and 2021 compared to the previous year.

^{*}Off-road vehicles: Include non-specified vehicles such as construction machinery, agricultural machinery, etc. E.g., forklifts, tool cars, and carts used in workplaces.

^{*} Nationally designated endangered species: Data have been collected based on major administrative areas according to the national distribution survey of endangered wildlife by the National Institute of Biological Resources.

Reporting Scope

This report's ESG Performance section includes data from the subsidiaries listed below, which together account for over 92.3% of Hyosung Heavy Industries' consolidated revenue. The data for Hyosung Heavy Industries and its subsidiaries are presented separately, with data for the subsidiaries only provided for the year 2022. Any instances where data for specific items may not include information from certain subsidiaries are indicated in the footnotes.

| Subsidiaries | Country of operation |
|---|----------------------|
| Jinheung Enterprise.co.,ltd | Korea |
| Nantong Hyosung Transformer Co., Ltd. | China |
| HYOSUNG T&D INDIA Pvt Ltd | India |
| Hyosung HICO, Ltd. | USA |
| Hyosung Vina Industrial Machinery Co., Ltd. | Vietnam |

Consolidated Statements of Comprehensive Income

(Unit: KRW million)

| Category | 2020 | 2021 | 2022 |
|--------------------------------|-----------|-----------|-----------|
| Sales | 2,983,971 | 3,094,699 | 3,510,144 |
| Cost of sales | 2,588,586 | 2,690,410 | 3,075,122 |
| Gross profit | 395,385 | 404,289 | 435,022 |
| SG&A | 317,808 | 250,724 | 253,025 |
| R&D expenses | 33,503 | 33,499 | 38,748 |
| Operating income | 44,075 | 120,066 | 143,249 |
| Other gain | 25,831 | 47,754 | 16,089 |
| Other loss | 37,070 | 39,234 | 23,424 |
| Finance income | 118,355 | 89,204 | 395,239 |
| Finance expenses | 169,167 | 122,401 | 469,564 |
| Gain(loss)of associates | (4) | (1,032) | (1,747) |
| Profit before tax | (17,980) | 94,357 | 59,842 |
| Corporate tax expenses | 1,278 | 17,840 | 30,712 |
| Net profit | (19,258) | 76,517 | 29,130 |
| Other comprehensive gain(loss) | (2,989) | (8,861) | 33,042 |
| Total comprehensive income | (22,247) | 67,656 | 62,172 |

Financial Statements (Consolidated)

(Unit: KRW million)

| Category | 2020 | 2021 | 2022 |
|--|-----------|-----------|-----------|
| Current assets | 1,238,408 | 1,561,558 | 2,221,500 |
| Cash and cash equivalents | 52,294 | 81,009 | 212,740 |
| Trade and other receivables | 542,936 | 651,997 | 841,772 |
| Inventories | 318,971 | 413,135 | 628,721 |
| Other current assets | 324,207 | 415,417 | 538,267 |
| Non-current assets | 2,465,046 | 2,461,143 | 2,471,971 |
| Long-term trade and other receivables | 514,552 | 478,571 | 448,621 |
| Tangible assets | 1,134,914 | 1,256,151 | 1,288,100 |
| Investment in properties | 547,335 | 441,018 | 437,787 |
| Intangible assets | 145,920 | 147,943 | 145,106 |
| Investments in subsidiaries and affiliates | 48 | 22,709 | 30,703 |
| Others | 122,277 | 114,751 | 121,654 |
| Total assets | 3,703,454 | 4,022,701 | 4,693,471 |
| Current liabilities | 1,740,041 | 1,944,011 | 2,504,911 |
| Trade and other payables | 633,275 | 805,864 | 790,343 |
| Borrowings | 598,704 | 630,641 | 950,163 |
| Other current liabilities | 508,062 | 507,506 | 764,405 |
| Non-current liabilities | 995,163 | 1,041,548 | 1,085,349 |
| Long-term trade and other payables | 237,838 | 236,750 | 251,227 |
| Long-term borrowings | 575,801 | 631,281 | 659,765 |
| Other non-current liabilities | 181,524 | 173,517 | 174,357 |
| Total liabilities | 2,735,204 | 2,985,559 | 3,590,260 |
| Capital stock | 46,623 | 46,623 | 46,623 |
| Retained earnings | -19,648 | 28,987 | 68,905 |
| Other components of equity | 856,607 | 856,614 | 859,041 |
| Non-controlling interest | 84,668 | 104,918 | 128,642 |
| Total equities | 968,250 | 1,037,142 | 1,103,211 |

Corporation Tax by Country

| Country | Items | Unit | 2020 | 2021 | 2022 |
|--------------|-------------------------|-------------|-----------|-----------|-----------|
| Korea | Sales | KRW million | 2,905,631 | 2,822,339 | 3,241,315 |
| | Profit before tax | KRW million | 1,045 | 161,005 | 115,815 |
| | Corporation tax expense | KRW million | 3,587 | 26,209 | 33,023 |
| | Tax rate | % | 22.0 | 22.0 | 24.2 |
| | Effective tax rate | % | 34.3 | 20.0 | 28.5 |
| | Sales | KRW million | 111,719 | 107,934 | 162,823 |
| | Profit before tax | KRW million | 2,662 | 18 | 5,569 |
| China | Corporation tax expense | KRW million | - | 0 | C |
| | Tax rate | % | 25.0 | 25.0 | 25.0 |
| | Effective tax rate | % | - | - | - |
| | Sales | KRW million | 32,548 | 82,740 | 61,136 |
| India | Profit before tax | KRW million | (6,531) | (1,925) | (5,203) |
| | Corporation tax expense | KRW million | 2,272 | 234 | (|
| | Tax rate | % | 33.0 | 33.0 | 25.2 |
| | Effective tax rate | % | - | - | - |
| | Sales | KRW million | 11,213 | 35,477 | 50,660 |
| | Profit before tax | KRW million | 217 | 1,323 | 2,592 |
| Vietnam | Corporation tax expense | KRW million | 43 | 284 | 483 |
| | Tax rate | % | 20.0 | 20.0 | 20.0 |
| | Effective tax rate | % | 20.0 | 20.0 | 18.6 |
| | Sales | KRW million | 10,151 | 223,641 | 311,420 |
| | Profit before tax | KRW million | -16,885 | -28,785 | -47,611 |
| USA | Corporation tax expense | KRW million | - | -2,996 | 3,314 |
| | Tax rate | % | 26.0 | 26.0 | 21.0 |
| | Effective tax rate | % | - | - | |
| | Sales | KRW million | 484 | 758 | 1,066 |
| | Profit before tax | KRW million | 50 | 24 | 32 |
| South Africa | Corporation tax expense | KRW million | 4.0 | 14.0 | 32.0 |
| | Tax rate | % | 28.0 | 28.0 | 28.0 |
| | Effective tax rate | % | 8.0 | 6.0 | 101.4 |

^{*} Values may differ from those in the consolidated financial statements due to internal transactions among consolidated companies, as well as unrealized gains or losses.

Current Status of Board of Directors

| Category | | | 2022 |
|---|---|--------|-------|
| Diversity | Male | Person | 7 |
| | Female | Person | 1 |
| No. of outside directors within the BoD | | | 4 |
| Outside director's attendance rate at the Outside Director Re | Outside director's attendance rate at the Outside Director Recommendation Committee | | 100.0 |
| No. of meetings of the Audit Committee | | Times | 7 |
| Outside director's attendance rate at the Audit Committee | | % | 100.0 |

Ethical and Compliance Management

| Category | | Unit | Hyosung Heavy Industries | Subsidiaries |
|--|--|-------------|-----------------------------|--------------|
| | | | 2022 | 2022 |
| Employee | No. of cases reported | Case | - | 2 |
| discrimination | No. of cases reviewed | Case | - | 2 |
| Anti-removation | No. of cases reported | Case | 1 | - |
| Anti-corruption | No. of individuals subject to disciplinary actions | Person | - | - |
| Frintendo | No. of violations | Case | - | - |
| Fair trade | Fines for violations | KRW | - | - |
| | Cases of fines imposed | Case | 1 | N/A |
| | Cases of non-monetary sanctions | Case | - | N/A |
| Violation of laws and | Fines imposed by legal proceedings associated with bribery or corruption | KRW million | - | N/A |
| regulations | Fines imposed by legal proceedings related to product safety | KRW million | - | N/A |
| | Fines imposed by legal proceedings related to anti-competitive behaviors | KRW million | - | N/A |
| | Fines imposed by legal proceedings related to environmental law breaches such as pollutant emissions | KRW million | 7 | N/A |
| Prevention of corrupti | on risks | | | |
| Rate of employees that | received an anti-corruption notification and related education | % | 81.4 | 30.0 |
| No. of business sites assessed on corruption risks | | ea | 2 | 2 |

^{*}Hyosung HICO is excluded from the rate of employees that received an anti-corruption notification and related education.

Production Output by Business Sector

| Category | | Unit | Нус | Subsidiaries | | |
|-------------------|--------------|-------------|---------|--------------|---------|---------|
| | | Offic | 2020 | 2021 | 2022 | 2022 |
| Production output | Transformers | KRW million | 516,202 | 445,463 | 466,574 | 210,654 |
| | GIS | KRW million | 393,530 | 529,374 | 354,975 | 46,966 |
| | Motors | KRW million | 266,505 | 222,957 | 269,115 | 48,048 |
| | Others | KRW million | 200,290 | 172,905 | 249,866 | 6,192 |

^{*} Subsidiaries' production volume include data from subsidiaries of the Power & Industrial Systems division including Nantong Hyosung Transformer, HYOSUNG T&D INDIA, Hyosung HICO, and Hyosung Vina Industrial Machinery

Construction Projects

| Catagony | Unit | Нус | Subsidiaries | | |
|---|-------------|-----------|--------------|-----------|-----------|
| Category | Offic | 2020 | 2021 | 2022 | 2022 |
| No. of projects underway | Case | 31 | 40 | 39 | 40 |
| No. of outsourced projects received | Case | 16 | 16 | 13 | 24 |
| Total backlog | KRW million | 3,814,690 | 4,352,735 | 4,591,878 | 2,791,327 |
| No. of projects operated in accordance with sustainability standards and certifications | Case | 6 | 3 | 1 | - |
| No. of pending projects related to hydrocarbon and renewable energy | Case | - | - | - | - |

^{*} Subsidiaries' construction project data include data from its subsidiary, Jinheung Enterprise.

R&D Expenses

| Category | Unit | 2020 | 2021 | 2022 |
|--------------|-------------|--------|--------|--------|
| R&D Expenses | KRW million | 33,503 | 33,498 | 38,748 |

Patent Registration and Application

| Category | | Unit | 2020 | 2021 | 2022 |
|-----------------------------------|----------|------|------|------|------|
| Patent registration (accumulated) | Domestic | Casa | 341 | 334 | 351 |
| | Overseas | Case | 81 | 115 | 147 |
| Patent application (accumulated)) | Domestic | Case | 363 | 386 | 398 |
| Patent application (accumulated)) | Overseas | CdSE | 216 | 249 | 279 |

^{*} Values in this report may differ from those in the business report due to the transfer of existing special rights and changes in the starting points for data collection after the spin-off.

Sales from Products Conducive to Resource Use Efficiency

| Category | Unit | Нус | Subsidiaries | | |
|---|-------------|---------|--------------|---------|--------|
| Category | | 2020 | 2021 | 2022 | 2022 |
| Sales from products related to renewable energy and energy efficiency | KRW million | 473,714 | 279,143 | 318,500 | 40,824 |

Social Performance

Employee Status

| Category | | Unit | Hyosung Heavy Industries | | | Subsidiaries |
|----------------------------|---|--------|--------------------------|-------|-------|--------------|
| | | UIIIL | 2020 | 2021 | 2022 | 2022 |
| Total employees (Permanent | and Temporary) | Person | 3,154 | 3,125 | 3,192 | 1,995 |
| | Permanent (male) | | 2,769 | 2,708 | 2,689 | 1,376 |
| | Permanent (female) | Person | 222 | 213 | 219 | 226 |
| | Subtotal | | 2,991 | 2,921 | 2,908 | 1,602 |
| | Temporary (male) | | 75 | 101 | 129 | 361 |
| Employment type | Temporary (female) | Person | 88 | 103 | 155 | 32 |
| | Subtotal | | 163 | 204 | 284 | 393 |
| | Part-time (male) | Person | - | - | - | 40 |
| | Part-time (female) | | - | - | - | 24 |
| | Subtotal | | - | - | - | 64 |
| Age | Under 30 | Person | 213 | 222 | 301 | 596 |
| | 30-50 | | 2,284 | 2,194 | 2,151 | 1,075 |
| | 51 and above | | 657 | 709 | 740 | 388 |
| 6 1 | Male | | 2,844 | 2,809 | 2,818 | 1,777 |
| Gender | Female | Person | 310 | 316 | 374 | 282 |
| Job category (based on | Salary | | 2,262 | 2,228 | 2,251 | 720 |
| permanent employment) | Hourly | Person | 729 | 693 | 657 | 882 |
| | Employees with disability | | 92 | 90 | 96 | 6 |
| S | Veterans | | 68 | 66 | 67 | 2 |
| Diversity | Foreigner | Person | 19 | 16 | 19 | 21 |
| | Subtotal | | 179 | 172 | 182 | 29 |
| | Female employee ratio | | 9.8 | 10.1 | 11.7 | 12.9 |
| Fostering Female Talent | Female managerial positions ratio (manager and above) | % | 6.5 | 7.2 | 7.0 | 21.4 |

 $^{^{\}ast}$ Hyosung HICO is excluded from the data regarding the rate of female employees and diversity.

New Recruitment and Turnover

| Catagon | Catagony | | Нус | Subsidiaries | | |
|------------------------|-------------------------|--------|------|--------------|------|------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| New recruits | Male | | 154 | 179 | 222 | 607 |
| | Female | | 70 | 89 | 138 | 96 |
| | Subtotal | | 224 | 268 | 360 | 703 |
| | Under 30 | Person | 65 | 112 | 195 | 354 |
| | 30-50 | | 73 | 119 | 147 | 277 |
| | 51 and above | | 86 | 37 | 18 | 72 |
| | Subtotal | | 224 | 268 | 360 | 703 |
| | Male | | 72 | 96 | 132 | 269 |
| | Female | | 12 | 17 | 20 | 41 |
| | Subtotal | | 84 | 113 | 152 | 310 |
| Turnover (voluntary | Under 30 | Person | 9 | 17 | 35 | 145 |
| turnover of permanent) | 30-50 | | 69 | 85 | 110 | 147 |
| | 51 and above | | 6 | 11 | 7 | 18 |
| | Subtotal | | 84 | 113 | 152 | 310 |
| | Voluntary turnover rate | % | 2.8 | 3.9 | 5.2 | 19.4 |

Total compensation and Remuneration

| Category | | Unit | Hyosung Heavy Industries | | | | |
|--|-------------------------|-------------|--------------------------|-------|-------|--|--|
| | | Unit | 2020 | 2021 | 2022 | | |
| Total compensation for entry-level em | nployees | KRW million | 48 | 48 | 54 | | |
| Rate of entry-level compensation to legal minimum wage | Male | % | 189.8 | 190.5 | 201.8 | | |
| | Female | % | 189.8 | 190.5 | 201.8 | | |
| | Executive | % | 93.5 | 98.3 | 91.7 | | |
| Rate of total compensation for female compared to male | Manager level or higher | | 73.5 | 81.1 | 79.5 | | |
| | Non-manager level | | 57.4 | 58.4 | 64.9 | | |
| Average total compensation | | KRW million | 58 | 65 | 75 | | |
| Total annual compensation for C-level executives | | KRW million | 300 | 376 | 380 | | |
| Median employee compensation (excluding C-level executives) | | KRW million | 62 | 67 | 75 | | |
| Ratio of C-level executives' compensation to that of employees | | Times | 5.2 | 5.8 | 5.1 | | |

Hyosung Heavy Industries

Social Performance

Maternity and Childcare Leave

| Cotomony | | Unit | Hyos | Hyosung Heavy Industries | | | |
|--------------------------|---|--------|------|--------------------------|------|------|--|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 | |
| Maternity leave | No. of employees under maternity leave | Person | 71 | 77 | 58 | 26 | |
| (male) | Returning ratio to work after maternity leave | % | 100 | 100 | 100 | 100 | |
| Maternity leave | No. of employees under maternity leave | Person | 13 | 19 | 14 | 5 | |
| (female) | Returning ratio to work after maternity leave | % | 92 | 89 | 93 | 100 | |
| | No. of employees entitled to childcare leave | Person | 693 | 627 | 587 | 83 | |
| | No. of employees on childcare leave | Person | 69 | 64 | 56 | 17 | |
| Childcare leave (male) | No. of employees returning to work after childcare leave | Person | 55 | 59 | 48 | 17 | |
| | No. of employees with over 12 months of service after childcare leave | Person | 125 | 55 | 56 | 17 | |
| | No. of employees entitled to childcare leave | Person | 26 | 27 | 22 | 9 | |
| | No. of employees on childcare leave | Person | 19 | 19 | 15 | 10 | |
| Childcare leave (female) | No. of employees returning to work after childcare leave | Person | 16 | 14 | 17 | 10 | |
| | No. of employees with over 12 months of service after childcare leave | Person | 13 | 14 | 12 | 8 | |

Labor Union Membership and Retirement Pension

| Category | | Unit | Hyos | tries | Subsidiaries | |
|---------------------------|--|-------------|---------|---------|--------------|--------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| | No. of employees covered by collective bargaining agreements | Person | 785 | 693 | 660 | 1,127 |
| Labor Union Membership | Ratio of employees covered by collective bargaining agreements among total employees | % | 24.9 | 22.2 | 21.1 | 56.5 |
| Status | No. of union workers | Person | 682 | 657 | 628 | 1,005 |
| | Ratio of union workers | % | 89.9 | 94.8 | 95.2 | 89.2 |
| | Total operation fund for retirement pension | KRW million | 217,734 | 189,752 | 195,734 | 10,073 |
| | Operation fund of DB pension | KRW million | 182,154 | 150,689 | 163,933 | 9,879 |
| Retirement | Operation fund of DC pension | KRW million | 35,580 | 39,063 | 31,800 | 193 |
| pension | pension Total no. of members | | 2,967 | 3,083 | 3,279 | 581 |
| No. of DB pension members | Person | 2,256 | 2,404 | 2,486 | 437 | |
| | No. of DC pension members | | 711 | 679 | 793 | 144 |

Employee Training Status

| Catanana | | Unit | Hyosu | ung Heavy Indust | tries | Subsidiaries |
|---|-------------------------|-----------|-----------|------------------|-----------|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| No. of training participants | | Person | 125,299 | 117,002 | 111,480 | 68,111 |
| Total training expenses | | KRW 1,000 | 1,067,897 | 1,434,366 | 1,877,658 | 123,958 |
| Total training hours | | Hour | 147,849 | 169,968 | 177,385 | 89,773 |
| Average training hours per employee | | Hour | 47 | 54 | 56 | 45 |
| Average training expenses per employe | 9 | KRW | 338,585 | 458,997 | 588,239 | 62,134 |
| Average training hours per employee by gender Male Female | Male | | 48 | 56 | 57 | 42 |
| | Female | Hour | Hour | 37 | 48 | 40 |
| Average training hours per employee by employee category | Executive | | 31 | 38 | 15 | 11 |
| | Manager level or higher | | 37 | 44 | 47 | 29 |
| s, sp.o, oo satogo., | Non-manager level | | 49 | 57 | 59 | 48 |
| No. of participants in environmental train | ning | | 3,430 | 1,931 | 1,773 | 5,820 |
| No. of participants in ethics and anti-cor | ruption training | | 1,494 | 1,134 | 2,601 | 1,057 |
| No. of participants in fair trade training | | | 1,477 | 1,099 | 1,327 | 454 |
| No. of participants in safety and health t | raining | | 50,321 | 44,942 | 46,548 | 57,841 |
| No. of participants in human rights training (sexual harassment / disability awareness / discrimination prevention) | | Person | 7,260 | 6,796 | 7,923 | 914 |
| No. of participants in information security training | | | 1,917 | 481 | 1,661 | 906 |
| No. of participants in sustainability management training | | | 11 | 2,975 | 3,335 | 563 |
| No. of participants in retiree training | | | - | - | 12 | 70 |

Regular Performance Evaluation

| Category | | Unit | Hyos | Subsidiaries | | |
|--|-------------------------|--------|-------|--------------|-------|--------------------|
| | | Offic | 2020 | 2021 | 2022 | 2022 |
| No. of employees subject to performance | e evaluation | Person | 2,991 | 2,921 | 2,908 | 1,504 |
| Performance evaluation rate | | % | 95.0 | 93.0 | 91.1 | 75.4 |
| Regular performance and career | Male | | 99.4 | 97.4 | 95.3 | |
| development review rate by gender | Female | | 73.5 | 71.6 | 58.2 | |
| Regular performance and career | Executive | % | 94.5 | 95.5 | 97.8 | Non- disclosure |
| development review rate by employee category | Manager level or higher | | 97.4 | 98.5 | 98.5 | a.o |
| | Non-manager level | | 95.0 | 93.0 | 91.1 | 1 |

Hyosung Heavy Industries

Social Performance

Supplier Status

| Category | Unit | Нус | Subsidiaries | | |
|--|-------------|-----------|--------------|-----------|---------|
| Category | Offic | 2020 | 2021 | 2022 | 2022 |
| No. of suppliers | Company | 3,962 | 4,004 | 3,585 | 1,325 |
| Total purchase from suppliers | KRW million | 1,868,226 | 1,695,648 | 2,119,258 | 439,306 |
| Local purchase ratio in key business regions | % | 86.0 | 84.0 | 80.0 | 99.8 |

Social and Environmental Assessment of Supply Chain

| Category | Unit | Hyosung Heavy Industries |
|--|---------|--------------------------|
| Ratio of new suppliers that conducted social and environmental assessment | % | 9.0 |
| No. of suppliers that conducted social and environmental assessment | Company | 428 |
| No. of suppliers having practical and potential negative impact | Company | 7 |
| Ratio of suppliers that agreed improvement based on the results of social and environmental assessment | % | 100.0 |
| Ratio of suppliers whose contracts were terminated based on the results of social environmental assessment | % | - |

Compliant Handling Process for Suppliers

| Category | Unit | 2022 |
|-------------------------------|------|------|
| No. of complaints submissions | Case | _ |
| No. of complaints processed | Case | - |
| Processing rate | % | - |

^{*} Based on the cases reported through the procurement channel

CSR Activities

| Category | Unit | Нус | sung Heavy Indust | ries | Subsidiaries |
|---------------------|-------------|------|-------------------|------|--------------|
| | Offic | 2020 | 2021 | 2022 | 2022 |
| CSR investment | KRW million | 858 | 560 | 612 | 9 |
| No. of CSR programs | Program | 12 | 19 | 33 | 3 |

Occupational Accidents and Injuries

| Catanani | | Unit | Hyosu | ing Heavy Indus | stries | Subsidiaries |
|--|---|------------------|-------|-----------------|--------|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| Occupational accident rate(rate of injured individuals due to work-related accidents and diseases) | | % | 0.70 | 0.83 | 0.72 | 1.85 |
| Process Safety Total Incident Rate (PSTIR) | | Per 200,000 Hour | - | 3.20 | - | |
| | No. of fatalities | Person | - | 1 | - | |
| | Fatality rate | Per 200,000 Hour | - | 0.03 | - | |
| | No. of high-consequence occupational accidents (excluding fatalities) | Case | - | - | - | 4 |
| Employees | High-consequence occupational accidents rate (excluding fatalities) | Per 200,000 Hour | - | - | - | 0.00 |
| No. of work-related accidents or work-related diseases | | Case | 16 | 20 | 19 | 3 |
| | No. of fatalities due to work-related diseases | Person | - | - | - | - |
| | No. of injuries due to work-related diseases | Person | 6 | 5 | 4 | (|
| | No. of fatalities | Person | 1 | 1 | - | |
| | Fatality rate | Per 200,000 Hour | 0.01 | 0.01 | - | |
| | No. of high-consequence occupational accidents (excluding fatalities) | Case | 0 | 0 | 12 | C |
| Partners | High-consequence occupational accidents rate (excluding fatalities) | Per 200,000 Hour | 0.00 | 0.00 | 0.00 | 0.00 |
| | No. of work-related accidents or work-related diseases | Case | 44 | 51 | 33 | |
| | No. of fatalities due to work-related diseases | Person | - | - | - | |
| | No. of injuries due to work-related diseases | Person | 3 | 2 | 10 | |

^{*}The incident rate of the previous report was based on the figures released by the Korea Occupational Safety and Health Agency, but the data in this report have been changed due to the change in data collection (incident rate = no. of employees injured / no. of employees * 100)

Environmental Performance

* The scope of GHG emissions and energy usage includes all facilities of Hyosung Heavy Industries. Meanwhile, other environmental data is collected from the headquarters, Changwon Plant, and construction sites.

GHG emissions

| | | | | Hyosung He | eavy Industries | | Subsidiaries |
|-------------------------------------|-----------------------|----------------------|--------|------------|-----------------|-------------|--------------|
| Category | | Unit | 2020 | 2024 | 2022 | | 2000 |
| | | | 2020 | 2021 | Plan | Performance | 2022 |
| | Stationary combustion | | 7,599 | 7,177 | 6,889 | 8,638 | 3,843 |
| | Mobile combustion | tCO ₂ eq | 815 | 772 | 778 | 840 | 815 |
| Direct GHG emissions (Scope 1) | Process emissions | | 1,107 | 614 | - | 524 | - |
| (Scope 1) | Waste disposal | | 38 | 443 | - | 41 | - |
| | Subtotal | | 9,558 | 9,005 | 7,667 | 10,043 | 4,658 |
| | Electricity | | 47,794 | 44,442 | 50,544 | 41,796 | 16,307 |
| Indirect GHG emissions (Scope 2) | Steam | tCO ₂ eq | 114 | 663 | 663 | - | 7,819 |
| (Scope 2) | Subtotal | | 47,908 | 45,105 | 51,207 | 41,796 | 24,125 |
| Total GHG emissions (Scope | 1 & 2) | tCO ₂ eq | 57,466 | 54,110 | 58,874 | 51,839 | 28,784 |
| GHG emissions intensity | Scope 1 | tCO ₂ eq/ | 0.38 | 0.38 | 0.38 | 0.39 | 0.49 |
| | Scope 2 | KRW 100 | 1.91 | 1.91 | 1.91 | 1.61 | 2.56 |
| | Subtotal | million | 2.29 | 2.30 | 2.30 | 2.00 | 3.05 |

Air Pollutants Emissions

| Category | | | Hyosung Heavy Industries | | | | |
|----------------------------|-------------------------|------|--------------------------|------|------|-------------|--|
| | | Unit | 2020 | 2021 | 2022 | | |
| | | | 2020 | 2021 | Plan | Performance | |
| | Nitrogen oxides (NOx) | | 1.1 | 1.3 | 1.2 | 1.0 | |
| General air pollutants | Sulfur oxides (SOx) | Ton | - | - | - | 0.0 | |
| | Particulate matter (PM) | | 8.90 | 5.80 | 5.70 | 4.2 | |
| | CFD(R-11) | | - | - | - | - | |
| Ozone depleting substances | HCFC(R-123) | Ton | - | - | - | - | |
| | HCFC(R-22) | | - | - | - | - | |

Chemical Substances Management

| Category | | | Subsidiaries | | | |
|---------------------------------|---------------------|--------|--------------|-------|-------------|-------------|
| | Unit | 2020 | 2021 | | 2022 | |
| | | 2020 | 2021 | Plan | Performance | Performance |
| Hazardous chemicals consumption | Ton | 127 | 34 | 20.00 | 2.47 | 138.69 |
| Hazardous chemicals intensity | Ton/KRW 100 million | 0.01 | 0.00 | - | 0.00 | 0.01 |
| Chemical substance emissions | ton | 254.10 | 194.00 | 30.00 | 29.20 | 2.23 |

Energy Consumption

| | | | | Hyosung H | eavy Industries | S | Subsidiaries |
|-----------------------------|------------------------------|----------------------|----------|-----------|-----------------|-------------|--------------|
| Category | | Unit | 2020 | 2021 | | 2022 | 2022 |
| | | | 2020 | 2021 | Plan | Performance | 2022 |
| | Diesel | | 10.21 | 9.54 | 8.72 | 9.32 | 9.80 |
| | Kerosene | | 21.88 | 21.68 | 21.69 | 33.93 | 36.99 |
| | LNG | | 109.71 | 94.12 | 91.65 | 97.10 | 0.12 |
| | NG | | - | - | - | - | 5.83 |
| | Gasoline | | 2.50 | 2.31 | 2.31 | 2.66 | 2.04 |
| Direct energy | Propane | TJ | 8.00 | 5.51 | 4.11 | 7.19 | 0.05 |
| consumption | B-C oil | 13 | - | - | - | - | - |
| | Anthracite | | - | 0.46 | 0.46 | 2.83 | - |
| | Other solid fuels | | - | 7.28 | 7.28 | 10.33 | 13.82 |
| | LPG | | 0.38 | 0.50 | 0.32 | 0.68 | 1.03 |
| | Biogas | | - | - | - | - | - |
| | Subtotal | | 152.68 | 141.39 | 136.55 | 164.03 | 71.08 |
| | Electricity | | 984.06 | 928.67 | 1,056.19 | 873.39 | 188.17 |
| | Steam | | 3.34 | 17.60 | 18.43 | - | 71.08 |
| Indirect energy consumption | Waste heat from processes | TJ | - | - | - | - | - |
| consumption | Heat from waste incineration | | 60.53 | 51.50 | 50.00 | 53.06 | - |
| | Subtotal | | 1,047.93 | 997.78 | 1,124.62 | 926.45 | 259,25 |
| Total | | TJ | 1,200.61 | 1,139.17 | 1,261.17 | 1,090.48 | 328.93 |
| Energy intensity | | TJ / KRW 100 million | 0.05 | 0.05 | 0.04 | 0.04 | 0.24 |

Environmental Performance

Waste Treatment

| | | | | Hyosung Heav | / Industries | | Subsidiaries |
|--------------------|------------------------|-------|---------|--------------|--------------|-------------|--------------|
| Category | | Unit | 2020 | 2024 | | 2022 | 2022 |
| | | | 2020 | 2021 | Plan | Performance | Performance |
| Non-hazardous | waste (ordinary waste) | | | , | , | | |
| | Recycling | | 4,178 | 5,037 | 4,950 | 4,120 | 2,873 |
| Outsourced | Incineration | | 1,229 | 148 | 150 | - | |
| treatment | Landfill | Ton | 370 | 278 | 280 | 301 | |
| | Others | | - | - | - | - | |
| Subtotal | ' | | 5,777 | 5,463 | 5,380 | 4,422 | 2,873 |
| Hazardous wast | te (designated waste) | | · | , | <u>'</u> | <u> </u> | |
| Outsourced | Recycling | | 288 | 216 | 225 | 297 | 64 |
| | Incineration | | 177 | 125 | 167 | 215 | |
| treatment | Landfill | Ton | 1 | 5 | 5 | 1 | |
| | Others | | - | - | - | - | 5. |
| Subtotal | ' | | 466 | 347 | 397 | 513 | 117 |
| Construction wa | aste | | | | | | |
| | Recycling | | 6,586 | 2,987 | 2,987 | 3,433 | 7,885 |
| Outsourced | Incineration | _ | - | - | - | - | |
| treatment | Landfill | Ton - | - | - | - | - | 30,858 |
| | Others | - | 264,118 | 185,465 | 185,465 | 78,596 | 5,114 |
| Subtotal | , | | 270,705 | 188,452 | 188,452 | 82,029 | 43,85 |
| Total waste gene | erated | Ton | 276,947 | 194,261 | 194,229 | 86,962 | 46,84 |
| Total waste recy | cled | Ton | 11,052 | 8,240 | 8,162 | 7,850 | 10,82 |
| Total ratio of was | ste recycled | % | 4.0 | 4.2 | 4.2 | 9.0 | 23. |

^{*} Data updated due to the absence of construction waste data in the total waste generation and waste recycling figures for 2020 and 2021.

Use, Reuse and Recycling of Materials

| Category | | Unit | Нус | sung Heavy Indust | ries |
|-----------------------------|------------------|-------|---------|-------------------|---------|
| | | Offic | 2020 | 2021 | 2022 |
| Raw (subsidiary) materials | Total use | Ton | 101,791 | 98,698 | 163,612 |
| Raw (Subsidial y) Haterials | Recycling amount | Ton | - | - | - |

Water Resources

| | | | | Hyosung Hea | avy Industries | | Subsidiaries |
|-----------------------|------------------|------|---------|-------------|----------------|-------------|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | | 2022 |
| | | | 2020 | 2021 | Plan | Performance | 2022 |
| | Municipal water | | 3,715 | 157,968 | 157,968 | 100,415 | 172,650 |
| Water consumption | Groundwater | Ton | - | - | - | - | 36,844 |
| by water source | Industrial water | 1011 | 347,318 | 361,867 | 428,500 | 406,955 | 21,316 |
| | River water | | - | - | - | - | - |
| Total water consumpti | ion | Ton | 351,033 | 519,835 | 586,468 | 507,370 | 230,810 |
| | Municipal water | | 3,715 | 157,968 | 157,968 | 100,415 | 172,650 |
| Water withdrawal by | Groundwater | Ton | - | - | - | - | 36,844 |
| water source | Industrial water | 1011 | 347,318 | 361,867 | 428,500 | 406,955 | 21,316 |
| | River water | | - | - | - | - | - |
| Total water withdrawa | ıl | Ton | 351,033 | 519,835 | 586,468 | 507,370 | 230,810 |

Wastewater and Water Treatment

| Catagoni | | Unit | Нус | osung Heavy Indust | ries | Subsidiaries |
|--|----------------------|------|-------|--------------------|-------|----------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| | Wastewater treatment | | - | - | - | 119,172 |
| Wastewater discharge by location | Seawater discharge | Ton | - | - | - | - |
| iocation i | Outsourced treatment | | 8,873 | 8,880 | 7,774 | 34,090 |
| Total Wastewater discharge | | Ton | 8,873 | 8,880 | 7,774 | 153,262 |
| Biochemical Oxygen Demand | (BOD) | | 0.02 | 0.03 | 0.02 | |
| Chemical Oxygen Demand (COD) Suspended Solids (SS) Total Nitrogen (T-N) Total Phosphorus (T-P) | | | 0.11 | 0.25 | 0.50 | |
| | | Ton | 0.03 | 0.01 | 0.13 | Non-disclosure |
| | | | 0.22 | 0.04 | 0.07 | |
| | | | 0.03 | 0.02 | 0.01 | |

Hyosung Heavy Industries

Environmental Performance

Sales and Purchase of Low Environmental Impact Products and Services

| Catagony | | Unit | Hyosi | Subsidiaries | | |
|-----------------------|---|-------------|-----------|--------------|---------|--------|
| Category | | Offic | 2020 | 2021 | 2022 | 2022 |
| | Power systems (ESS, STATCOM, solar PCS, low environmental impact transformer and GIS | KRW million | 221,011 | 91,550 | 206,283 | 17,027 |
| Sales of products and | Industrial machinery (high-efficiency premium motor) | KRW million | 100,333 | 107,213 | 94,981 | 40,824 |
| services | Industrial machinery (hydrogen fueling station) | KRW million | 14,820 | 27,464 | 24,417 | - |
| | Construction (contract amount for green-certified construction projects for the year) | KRW million | 1,162,062 | 497,669 | 273,588 | - |
| Purchase of proc | ducts and services | KRW million | 61,436 | 12,823 | 24,706 | 7,341 |

Pollution-free Vehicles

| Catagony | Category | | Hyosung Hea | Subsidiaries | |
|----------------------------------|-------------------|-----------|-------------|--------------|------|
| Category | | Unit | 2021 | 2022 | 2022 |
| Electric vehicles | | - Vehicle | 1 | - | - |
| On-road vehicles | Hydrogen vehicles | verlide | 1 | - | - |
| Off-road vehicles | Electric vehicles | - Vehicle | 165 | 163 | 38 |
| OTT-TOdu Verilicies | Hydrogen vehicles | verlide | - | - | - |
| Ratio of pollution-free vehicles | | % | | 49.1 | 34.5 |

Energy Savings and GHG Emissions Reduction

| | | Date of | Investment | Hyosung Heavy Industries | | |
|-------------|--|--------------|---------------|------------------------------------|---|--|
| Category | Business | installation | (KRW million) | Energy usage reduction (TJ / year) | Emissions reductions (tCO ₂ eq / year) | |
| Electricity | Investments in air conditioner for the transformer assembly line at Changwon Plant 1 | Dec. 2022 | 87 | 1.25 | 60 | |
| Electricity | Investments in GIS replacing chillers and heaters at Changwon Plant 1 | Jun. 2022 | 42 | 0.32 | 15 | |

Environmental Investments

| | | | Subsidiaries | | | |
|--|-------------|------|--------------|------|-------------|-------------|
| Category | Unit | 2020 | 2021 | 2022 | | 2022 |
| | | | 2021 | Plan | Performance | Performance |
| Waste treatment and environment restoration expenses | | 408 | 373 | 420 | 3,112 | 1,832 |
| Pollution prevention and environmental management expenses | KRW million | 265 | 206 | 330 | 250 | 341 |
| Total | | 673 | 580 | 750 | 3,362 | 2,173 |

Governance and Economic Performance

Reporting Scope

This report's ESG Performance section includes data from the subsidiaries listed below, which together account for over 98.5% of Hyosung Advanced Materials' consolidated revenue. The data for Hyosung Advanced Materials and its subsidiaries are presented separately, with data for the subsidiaries only provided for the year 2022. Any instances where data for specific items may not include information from certain subsidiaries are indicated in the footnotes.

| Category | 2020 | 2021 | 2022 (Actual) |
|---------------------------------------|-----------|-----------|---------------|
| Current assets | 842,036 | 1,355,009 | 1,331,264 |
| Cash and cash equivalents | 47,128 | 33,590 | 23,869 |
| Trade and other receivables | 442,619 | 703,260 | 592,665 |
| Inventories | 324,696 | 563,967 | 652,295 |
| Other current assets | 27,594 | 54,192 | 62,435 |
| Non-current assets | 1,437,304 | 1,473,388 | 1,603,438 |
| Long-term trade and other receivables | 5,216 | 5,236 | 4,905 |
| Tangible assets1) | 1,204,360 | 1,224,325 | 1,344,551 |
| Investment in properties | 151,387 | 155,310 | 153,517 |
| Intangible assets1) | 36,615 | 36,625 | 32,738 |
| Other non-current financial assets | 39,726 | 51,892 | 67,727 |
| Non-current assets held for sale1) | 97,253 | 80,285 | 11 |
| Total assets | 2,376,593 | 2,908,682 | 2,934,713 |
| Current liabilities | 1,574,912 | 1,744,511 | 1,624,968 |
| Trade and other payables | 335,239 | 508,575 | 417,068 |
| Borrowings | 1,223,496 | 1,160,771 | 1,143,825 |
| Other current liabilities | 16,177 | 75,165 | 64,075 |
| Non-current liabilities | 420,571 | 442,582 | 510,188 |
| Long-term trade and other payables | 12,573 | 7,086 | 6,431 |
| Long-term borrowings | 376,233 | 380,039 | 487,012 |
| Other non-current liabilities | 31,765 | 55,457 | 16,745 |
| Total liabilities | 1,995,483 | 2,187,093 | 2,135,156 |
| Capital stock | 22,400 | 22,400 | 22,400 |
| Retained earnings | (101,357) | 147,307 | 236,054 |
| Other components of equity | 391,796 | 434,294 | 449,017 |
| Non-controlling interest | 68,272 | 117,588 | 92,086 |
| Total equities | 381,111 | 721,589 | 799,557 |

Consolidated Statements of Comprehensive Income

| | | | (Unit: KRW million) |
|--------------------------------|-----------|-----------|---------------------|
| Category | 2020 | 2021 | 2022 (Actual) |
| Sales | 2,394,623 | 3,597,777 | 3,841,373 |
| Cost of sales | 2,185,965 | 2,961,805 | 3,319,361 |
| Gross profit | 208,658 | 635,972 | 522,012 |
| SG&A | 146,524 | 167,707 | 173,011 |
| R&D expenses | 27,926 | 30,955 | 33,931 |
| Operating income | 34,208 | 437,310 | 315,070 |
| Other gain | 11,371 | 19,113 | 12,754 |
| Other loss | 9,455 | 12,365 | 43,129 |
| Finance income | 47,731 | 35,266 | 101,233 |
| Finance expenses | 82,750 | 67,525 | 172,766 |
| Profit before tax | 1,105 | 411,799 | 213,162 |
| Corporate tax expenses | (5,705) | 81,776 | 52,924 |
| Net profit | 6,810 | 330,023 | 160,238 |
| Other comprehensive gain(loss) | (12,940) | 48,522 | 29,306 |
| Total comprehensive income | (6,130) | 378,545 | 189,544 |

¹⁾ Data changed from the reports released in 2020 and 2021 based on the business report

Governance and Economic Performance

Corporation Tax by Country¹⁾

| Country | Items | Unit | 2020 | 2021 | 2022 (Actual |
|-----------------------|---------------------------------------|-------------|-----------|-----------|--------------|
| | Sales | KRW million | 722,534 | 963,266 | 858,081 |
| | Profit before tax | KRW million | 41,775 | 170,154 | 259,023 |
| Korea | Corporation tax expense | KRW million | (5,802) | 17,923 | 46,474 |
| | Tax rate | % | 24.2 | 24.2 | 24.2 |
| | Effective tax rate | % | - | 10.5 | 17.9 |
| | Sales | KRW million | 1,091,823 | 2,108,160 | 2,319,107 |
| | Profit before tax | KRW million | 15,309 | 288,468 | 160,463 |
| Vietnam | Corporation tax expense ²⁾ | KRW million | 4,999 | 5,305 | 28,854 |
| | Tax rate | % | 5.0, 15.0 | 0.0, 5.0 | 0.0, 10.0 |
| | Effective tax rate | % | 32.7 | 1.8 | 18.0 |
| | Sales | KRW million | 351,871 | 518,724 | 514,005 |
| | Profit before tax | KRW million | 9,901 | 75,325 | 2,32 |
| China | Corporation tax expense | KRW million | 2,608 | 31,760 | 3,84 |
| | Tax rate | % | 25.0 | 25.0 | 25.0 |
| | Effective tax rate | % | 26.3 | 42.2 | 165.5 |
| | Sales | KRW million | 380,715 | 352,568 | 416,786 |
| | Profit before tax | KRW million | (19,041) | (10,415) | 25 |
| Germany ³⁾ | Corporation tax expense | KRW million | (1,487) | 2,678 | 4,816 |
| | Tax rate | % | 28.1 | 28.1 | 28. |
| | Effective tax rate | % | - | - | 1,911. |
| | Sales | KRW million | 185,114 | 260,123 | 369,40 |
| | Profit before tax | KRW million | 1,147 | 5,516 | 8,05 |
| Luxembourg | Corporation tax expense | KRW million | 501 | 2,008 | 2,05 |
| | Tax rate | % | 28.5 | 27.2 | 27. |
| | Effective tax rate | % | 43.7 | 36.5 | 25. |

¹⁾ Amount before adjusting consolidation

2) Data corrected due to errors in the figures for corporate taxes of two subsidiaries in Vietnam from 2020 to 2021 3) It refers to all combined taxes paid by GST Global GmbH (GST) in Rumania, Mexico, and the Republic of South Africa in addition to Germany

Production Output by Business Sector¹⁾

| Category | | Unit | 2020 | 2021 | 2022 (Actual) |
|------------|---|-------------|-----------|-----------|---------------|
| Production | Industrial yarn and fabric including tire cords and steel cords ²⁾ | KRW million | 1,474,299 | 2,045,997 | 2,579,102 |
| output | Spandex & polyester yarn, and nylon films | KRW million | 341,385 | 826,727 | 635,452 |

¹⁾ Data regarding sectoral production volume corrected due to errors in the figures from 2020 to 2021

Patent Registration and Application

| Category | | Unit | 2020 | 2021 | 2022 (Actual) |
|---|----------|-------------|--------|--------|---------------|
| R&D expenses | | KRW million | 27,926 | 30,954 | 33,931 |
| Datant ragistration (assumulated)1) | Domestic | Case | 652 | 674 | 679 |
| Patent registration (accumulated) ¹⁾ | Overseas | Case | 284 | 289 | 292 |
| Detent application (accumulated)) | Domestic | Cooo | 1,269 | 1,272 | 1,275 |
| Patent application (accumulated)) ¹⁾ | Overseas | Case | 436 | 437 | 444 |

¹⁾ It refers to the total number of patents registered and applied for since 1984, which is different from the number of patents registered and applied for since 2012 as stated in the business report.

Ethical and Compliance Management

| Category | | Unit | 2022 (Actual) |
|---------------------------------|--|-------------|---------------|
| Employee discrimination | No. of cases reported | Case | - |
| Employee discrimination | No. of measures taken after the investigation into discrimination | Case | - |
| Violation of the Code of Ethics | Sexual harassment / workplace bully | Case | - |
| | Embezzlement / bribe taking | Case | 2 |
| | Data leak | Case | - |
| | False documentation | Case | - |
| | Cases of fines imposed | Case | 1 |
| | Cases of non-monetary sanctions | Case | - |
| Violation of laws and | No. of breaches of laws and our own regulations regarding the data and labeling of products and services | Case | |
| regulations ¹⁾ | Total amount of fines | KRW million | 0.8 |
| | Fines incurred by the breaches of financial laws, such as internal trading, monopoly, or anticompetitive behaviors | KRW million | - |
| | Fines incurred by environmental law violations, such as the emission of pollutants ²⁾ | KRW million | 0.8 |

¹⁾ Main violation data from 2020 to 2021 have been adjusted based on the business report.

²⁾ Tire cords and steel cords, bead wires, industrial yarn, carpets, car mats, airbag fabrics, and cushions

²⁾ In 2020, the company failed to submit a document stating the reason for allocation in accordance with the 'Act on The Allocation And Trading Of GHG emissions carbon credits,' resulting in a fine of KRW 800,000. To prevent a recurrence, the company clarified its R&R regarding the closure and transfer of business sites and educated the personnel in charge.

Social Performance

Employee Status

| Category | | Unit | 2020 | 2021 | 2022 (Actual) |
|---|---|---------|--------|--------|---------------|
| Total employees (Permanent and Temporary) | | Persons | 10,877 | 10,350 | 10,491 |
| | Permanent (male) | | 7,332 | 7,235 | 7,407 |
| | Permanent (female) | Persons | 2,459 | 2,523 | 2,471 |
| Employment type | Subtotal | | 9,791 | 9,758 | 9,878 |
| | Temporary (male) | | 638 | 349 | 350 |
| | Temporary (female) | Persons | 448 | 243 | 263 |
| | Subtotal | | 1,086 | 592 | 613 |
| Age | Under 30 | | 4,123 | 3,960 | 3,638 |
| | 30-50 | Persons | 5,863 | 5,565 | 6,011 |
| | 51 and above | | 891 | 825 | 843 |
| 0 1 | Male | Persons | 7,970 | 7,584 | 7,757 |
| Gender | Female | Persons | 2,907 | 2,766 | 2,734 |
| Job category (based on | Salary | Damana | 1,883 | 1,915 | 1,936 |
| permanent employment) | Hourly | Persons | 8,382 | 7,903 | 7,989 |
| Deard diversity | Male | Damana | 13 | 11 | 11 |
| Board diversity | Female | Persons | - | - | - |
| | Employees with disability | | 56 | 63 | 60 |
| Discounts | Veterans | Damana | 30 | 33 | 28 |
| Diversity | Foreigners | Persons | 148 | 136 | 166 |
| | Subtotal | | 234 | 232 | 254 |
| | Female employee ratio | | 27 | 27 | 26 |
| Fostering Female Talent | Female managerial positions ratio (manager and above) | % | 16 | 17 | 18 |

Regular Performance Evaluation

| Category | | Unit | 2020 | 2021 | 2022 (Actual) |
|--|-------------------------|---------|--------|-------|---------------|
| No. of employees subject to performance evaluation | | Persons | 10,219 | 9,646 | 9,915 |
| Performance evaluation rate | | % | 95.0 | 94.0 | 95.0 |
| Total employees by gender who received a regular | Male | | 6,795 | 6,268 | 6,451 |
| performance and career development review | Female | | 3,425 | 3,378 | 3,464 |
| | Executive | Persons | 98 | 90 | 101 |
| No. of employees evaluated on their performance and career development by employee category | Manager level or higher | | 887 | 964 | 961 |
| and earest development by employee eategory | Non-manager level | | 9,235 | 8,592 | 8,853 |

New Recruitment and Turnover

FOCUS ISSUES ———

| Category | | Unit | 2020 | 2021 | 2022 (Actual) |
|------------------------|-------------------------|---------|-------|-------|---------------|
| | Male | | 1,800 | 2,222 | 2,806 |
| | Female | Persons | 654 | 821 | 758 |
| | Subtotal | | 2,454 | 3,043 | 3,564 |
| New recruits | Under 30 | | 1,669 | 1,943 | 2,243 |
| | 30-50 | | 726 | 1,035 | 1,240 |
| | 51 and above | | 59 | 65 | 81 |
| | Subtotal | | 2,454 | 3,043 | 3,564 |
| | Male | | 2,348 | 1,941 | 1,762 |
| | Female | | 570 | 616 | 593 |
| | Subtotal | | 2,918 | 2,557 | 2,355 |
| Turnover (voluntary | Under 30 | Persons | 1,877 | 1,440 | 1,316 |
| turnover of permanent) | 30-50 | | 963 | 1,089 | 959 |
| | 51 and above | | 78 | 28 | 80 |
| | Subtotal |] | 2,918 | 2,557 | 2,355 |
| | Voluntary turnover rate | % | 29 | 27 | 24 |

Maternity and Childcare Leave

| Category | | | Unit | 2020 | 2021 | 2022 (Actual) |
|--|--|------------------------|---------|------|------|---------------|
| | Mala ample in a sunday matamitulas in | Korea | Darrage | 27 | 29 | 28 |
| Maternity leave | Male employees under maternity leave | Overseas | Persons | 444 | 360 | 271 |
| | Datumina rata | Korea | 0/ | 27 | 100 | 100 |
| Maternity Jeans | Returning rate | Overseas | % | 99 | 99 | 99 |
| Materrity leave | Famala analayana yadar matamit yang | Korea | Darrage | 3 | 8 | 5 |
| | Fernale employees under maternity leave | Overseas | Persons | 231 | 190 | 208 |
| laternity leave hildcare leave nale) | Datuming rate | Korea | 0/ | 100 | 100 | 100 |
| | Returning rate | Overseas | % | 90 | 97 | 89 |
| | Face layers a continue of the second second | Korea | D | 210 | 194 | 171 |
| Alaternity leave Childcare leave male) Childcare leave female) | Employees entitled to childcare leave | Overseas ¹⁾ | Persons | N/A | N/A | N/A |
| | Employees on childcare leave | Korea | D | 3 | 8 | 12 |
| | Employees on childcare leave | Overseas | Persons | 167 | 104 | 269 |
| Childcare leave | Male employees under maternity leave Korea Overseas Persons 27 degree of the persons Returning rate Korea Overseas 99 degree of the persons 100 degree of the persons 100 degree of the persons Female employees under maternity leave Korea Overseas Persons Overseas 231 degree of the persons Returning rate Korea Overseas 90 degree of the persons 100 degree of the persons Employees entitled to childcare leave Korea Overseas degree of the persons 167 degree of the persons Employees who returned to work after childcare leave Korea Overseas degree of the persons 167 degree of the persons Return rate Korea Overseas degree of the persons degree | 6 | 7 | | | |
| 1 / | Overseas | Persons | 154 | 90 | 265 | |
| | B | Korea | 0/ | 75 | 100 | 70 |
| | Return rate | Overseas | % | 100 | 99 | 99 |
| Childcare leave male) | No. of employees with over 12 months of | Korea | 0/ | 40 | 100 | 100 |
| | service after parental leave | Overseas | % | 45 | 43 | 80 |
| | E 1 29 15 191 1 | Korea | 5 | 12 | 10 | 10 |
| | Employees entitled to childcare leave | Overseas | Persons | N/A | N/A | N/A |
| | E | Korea | 5 | 2 | 7 | 7 |
| Maternity leave Fe Re Childcare leave male) Childcare leave Er Childc | Employees on childcare leave | Overseas | Persons | 218 | 175 | 199 |
| | Employees who returned to work after | Korea | 5 | 6 | 4 | 5 |
| (female) | 1 / | Overseas | Persons | 173 | 129 | 192 |
| | 5 | Korea | 0/ | 100 | 80 | 83 |
| | Return rate | Overseas | % | 76 | 63 | 95 |
| | No. of employees with over 12 months of | Korea | 0/ | 100 | 83 | 100 |
| | | Overseas | % | 77 | 60 | 83 |

Social Performance

Community Involvement

| Category | Unit | 2020 | 2021 | 2022 (Actual) |
|---------------------|----------|-------|-------|---------------|
| ICSR investment | KRW Mil. | 1,216 | 1,362 | 1,014 |
| No. of CSR programs | Programs | 72 | 63 | 72 |

Labor Union Membership Status

| Category | | Unit | 2020 | 2021 | 2022 (Actual) |
|-------------|--|---------|-------|-------|---------------|
| Labor union | Employees covered by collective agreements | Persons | 9,887 | 9,363 | 9,526 |
| | Rate of employees subject to collective agreements | % | 91 | 90 | 91 |
| membership | Number of union workers | Persons | 9,171 | 8,293 | 9,024 |
| | Rate of union workers | % | 93 | 95 | 95 |

Total Compensation

| Category | | Unit | 2020 | 2021 | 2022 (Actual) |
|--|------------------|-----------|---------|---------|---------------|
| Total Compensation ¹⁾ | | | | | |
| | Korea | KRW 1,000 | 49,014 | 50,484 | 53,508 |
| Total compensation for entry-level employees | Vietnam | VND 1,000 | 118,038 | 166,303 | 144,606 |
| | China | RMB | 42,408 | 45,744 | 48,806 |
| | Europe | EUR | 18,052 | 17,274 | 18,722 |
| | Korea | % | 282 | 286 | 275 |
| Rate of entry-level compensation to legal | Vietnam | % | 394 | 497 | 427 |
| minimum wage [Male] | China | % | 183 | 182 | 186 |
| minimum wage [Male] | Europe | % | 129 | 114 | 112 |
| B | Korea | % | 282 | 286 | 275 |
| Rate of entry-level | Vietnam | % | 394 | 497 | 427 |
| compensation to legal minimum wage [Female] | China | % | 183 | 182 | 186 |
| minimum wage [remale] | Europe | % | 124 | 102 | 105 |
| | Korea | KRW 1,000 | 76,319 | 101,227 | 95,635 |
| Average total | Vietnam | VND 1,000 | 177,828 | 220,403 | 206,855 |
| compensation | China | RMB | 5,689 | 6,024 | 6,520 |
| | Europe | EUR | 27,093 | 26,826 | 30,913 |
| Ratio of total female compe | ensation to male | | | | |
| | Korea | % | 106 | 106 | 104 |
| Executive | Vietnam | % | N/A | N/A | N/A |
| Executive | China | % | 75 | 84 | 85 |
| | Europe | % | 100 | 100 | 100 |
| | Korea | % | 114 | 110 | 113 |
| Managanalarialandahan | Vietnam | % | 50 | 50 | 50 |
| Manager level or higher | China | % | 77 | 79 | 76 |
| | Europe | % | 100 | 100 | 100 |
| | Korea | % | 104 | 103 | 104 |
| Non manager lavel | Vietnam | % | 50 | 50 | 50 |
| Non-manager level | China | % | 72 | 70 | 71 |
| | Europe | % | 100 | 100 | 100 |

¹⁾ Numbers reported are based on total compensation composed of renumeration compensation such as base salary, vacation fee, bonus, etc., and may differ from numbers in our previous sustainability reports which excluded certain benefits

Occupational Accidents and Injuries

| Category | | Unit | 2020 | 2021 | 2022 (Actual) |
|---|---|---------|------|------|---------------|
| | Occupational fatality | Persons | - | 1 | - |
| Employee Occupational accidents(Employ accidents or affected by work- | Fatality rate per ten thousand employees | bp | - | 0.98 | - |
| | Occupational accidents(Employees injured by work-related accidents or affected by work-related diseases) | Persons | 28 | 48 | 60 |
| | Rate of occupational accidents ¹⁾ | % | 0.26 | 0.47 | 0.60 |
| | Occupational fatality | Persons | - | - | - |
| | Fatality rate per ten thousand employees | bp | - | - | - |
| Supplier | Occupational accidents (Employees injured by work-related accidents or affected by work-related diseases) | Persons | - | 2 | 4 |
| | Rate of occupational accidents | % | - | 0.50 | 2.65 |

¹⁾ Revision of the accident rates for 2020-2021 due to previous errors

Retirement Pension

| Category | | Unit | 2020 | 2021 | 2022 (Actual) |
|--|----------|------------|---------|---------|---------------|
| Retirement pension | | | ' | ' | |
| | Korea | KRW Mil. | 68,521 | 74,269 | 72,329 |
| Total operation fund for retirement | Vietnam | VND 10,000 | 687,299 | 646,172 | 760,511 |
| pension | China | RMB 1,000 | 500 | 6,929 | 5,295 |
| | Europe | EUR | 4,433 | 4,020 | 3,761 |
| On anti- of the distance of the continual of the continua | Korea | KRW Mil. | 66,328 | 72,206 | 69,839 |
| Operation fund of DB pension ¹⁾ | Europe | EUR | 4,433 | 4,020 | 3,761 |
| Operation fund of DC pension ²⁾ | Korea | KRW Mil. | 2,193 | 2,063 | 2,490 |
| T-+- | Korea | Person | 1,126 | 1,070 | 1,007 |
| Total number of members | Overseas | Person | 8,344 | 7,846 | 8,607 |
| N t DD | Korea | Person | 930 | 871 | 826 |
| Number of DB pension members | Overseas | Person | 1,420 | 1,294 | 1,253 |
| Number of DC pension members | Korea | Person | 196 | 199 | 181 |

^{1,2)} Sites that don't have DB or DC are excluded. China and Vietnam, we don't operate retirement pension because the national social insurance covers pensions

Social Performance

Training Status

| Category | Unit | Korea (KRW 1,000) | Vietnam (VND 10,000) | China (RMB) | Europe (EUR) |
|--|---------|----------------------|-------------------------|----------------|-----------------|
| Total employees | Persons | 951 | 5,423 | 2,764 | 1,353 |
| Total hours completed | Hours | 35,539 | 444,027 | 76,041 | 241,129 |
| General training | Hours | 20,974 | 353,854 | 34,266 | 234,574 |
| Social/Environment training | Hours | 14,565 | 90,173 | 41,775 | 6,555 |
| Total number of participants | Persons | 12,194 | 58,183 | 39,686 | 3,932 |
| Total training expense | - | 650,230 | 4,925,680 | 479,110 | 162,527 |
| Average training hours per employee | Hours | 37 | 82 | 28 | 17 |
| Average training expenses per employee | - | 684 | 908 | 173 | 120 |

Supplier Management (2022)

| Category | Unit | Korea | Overseas |
|---|------|-------|----------|
| Totalkey suppliers | ea | 77 | 175 |
| Signing the supplier code of conduct | ea | 77 | 158 |
| Signing contracts that include ESG-related clauses | ea | 41 | 150 |
| Rate of signing contracts that include ESG-related clauses | % | 53 | 86 |
| Preliminary risk evaluation for new suppliers (e.g. ESG-related checklist before regular evaluation) | ea | 14 | 128 |
| Rate of preliminary risk evaluation for new suppliers (e.g. ESG-related checklist before regular evaluation) | % | 100 | 82 |
| No. of written regular evaluations of suppliers conducted (e.g. evaluation of environmental / social issues for written evaluation) | ea | 23 | 96 |
| Ratio of written regular evaluations of suppliers conducted (e.g. evaluation of environmental / social issues for written evaluation) | % | 100 | 70 |
| On-site audit of supplier (e.g. evaluation of environmental / social issues for on-site evaluation) | ea | N/A | 18 |

Social, Environment Training Participants

| Social, Environment training status | Social, Environment training status | | Korea | Vietnam | China | Europe |
|-------------------------------------|-------------------------------------|---------|-------|---------|-------|--------|
| Sustainability awareness training | | Persons | 994 | - | 127 | - |
| | Sexual harassment | Persons | 917 | 335 | 1,292 | 1,342 |
| Human rights | Diversity training | Persons | 1,545 | 378 | 2,780 | 11 |
| | Anti-discrimination | Persons | 947 | 4,307 | 2,975 | - |
| Ethical management | Ethics and anti-corruption | Persons | 937 | 6,920 | 5,687 | 61 |
| Ethical management | Fair trade | Persons | 986 | - | 59 | - |
| Information security | Information security | | 967 | 7,141 | 2,893 | 31 |
| Sustainable procurement | | Persons | 9 | 3 | 3 | - |
| | General environment | Persons | 954 | - | 531 | 1 |
| | Energy saving & climate change | Persons | 56 | 14 | 3,318 | - |
| Environment training | Water | Persons | 1 | 33 | 2,780 | - |
| | Chemical management | Persons | 314 | 78 | 3 | - |
| | S&H training | Persons | 1,118 | 6,827 | 6,168 | 737 |
| Safety & Health(S&H) training | Risk assessment | Persons | 20 | - | 13 | - |
| | Emergency simulation | Persons | 470 | 2,479 | 4,048 | 14 |

Environmental Performance

GHG emissions^{1)~7)}

| Category | | Uni | 2020 | 202110) | 2022 (Actual) | | |
|-------------------------------------|---------------------|---------------------------|------------------------|---------------------------------------|---------------|-----------|-----------|
| | | | Korea | tCO₂eq | 190,748 | 201,543 | 177,725 |
| | CO ₂ | | Overseas | tCO ₂ eq | 720,273 | 1,133,011 | 1,053,498 |
| | | _ | | tCO ₂ eq | 911,021 | 1,334,554 | 1,231,223 |
| GHG | | | Korea | tCO ₂ eq | 62 | 54 | 45 |
| emissions by | CH ₄ | | Overseas | tCO₂eq | 2,267 | 3,808 | 3,003 |
| type | | | Total | tCO₂eq | 2,329 | 3,862 | 3,048 |
| | | | Korea | tCO₂eq | 292 | 921 | 778 |
| | N ₂ O | | Overseas | tCO₂eq | 2,251 | 3,506 | 3,114 |
| | | | Total | tCO ₂ eq | 2,543 | 4,427 | 3,892 |
| | | Korea | tCO2eq | 43,956 | 44,442 | 44,196 | |
| | Subtotal | Overseas | tCO2eq | 95,812 | 104,067 | 106,614 | |
| | | | Total | tCO2eq | 139,768 | 148,509 | 150,810 |
| | | Stationary | Korea | tCO ₂ eq | 34,988 | 34,713 | 39,848 |
| | Discort | combustion | Overseas | tCO ₂ eq | 90,762 | 97,429 | 101,545 |
| | Direct (Scope 1) | Mobile | Korea | tCO₂eq | 352 | 132 | 129 |
| (Scope | (Scope 1) | combustion | Overseas | tCO ₂ eq | 5,050 | 3,373 | 2,475 |
| | | Process | Korea | tCO₂eq | - | - | - |
| Emissions by | | emissions Air pollutant / | Overseas | tCO₂eq | - | - | - |
| activity | | | Korea | tCO ₂ eq | 8,617 | 9,597 | 4,220 |
| | | waste disposal | Overseas | tCO₂eq | N/A | 3,265 | 2,594 |
| | | | Korea | tCO₂eq | 147,146 | 158,076 | 134,352 |
| | | Subtotal | Overseas | tCO ₂ eq | 628,978 | 1,036,258 | 953,002 |
| | Indirect | | Total | tCO ₂ eq | 776,125 | 1,194,334 | 1,087,354 |
| | (Scope 2) | Electricity. | Korea | tCO₂eq | 146,002 | 155,560 | 130,297 |
| | (Scope 2) | Electricity | Overseas ⁸⁾ | tCO ₂ eq | 608,971 | 985,969 | 914,134 |
| | | Steam | Korea | tCO₂eq | 1,144 | 2,516 | 4,054 |
| | | Steam | Overseas | tCO ₂ eq | 20,007 | 50,288 | 38,868 |
| | | | Korea | tCO ₂ eq / KRW 100 million | 26.45 | 21.02 | 20.81 |
| | Total (Scope 1, 2) |) | Overseas | tCO ₂ eq / KRW 100 million | 40.20 | 36.23 | 30.28 |
| | | | Total | tCO ₂ eq / KRW 100 million | 36.26 | 32.67 | 28.41 |
| | | | Korea | tCO ₂ eq / KRW 100 million | 6.08 | 4.61 | 5.15 |
| Emission intensity ⁹⁾ | Direct (Scope 1) | | Overseas | tCO ₂ eq / KRW 100 million | 5.31 | 3.31 | 3.05 |
| iliterisity . | | | Total | tCO ₂ eq / KRW 100 million | 5.53 | 3.61 | 3.46 |
| | | | Korea | tCO ₂ eq / KRW 100 million | 20.37 | 16.41 | 15.66 |
| | Indirect (Scope 2 |) | Overseas | tCO ₂ eq / KRW 100 million | 34.88 | 32.92 | 27.23 |
| | | | Total | tCO ₂ eg / KRW 100 million | 30.73 | 29.05 | 24.95 |

- 2) Reporting boundary
- Korea : Jeonju, Daejeon, Ulsan, headquarters, and other buildings owned by HAMC
- Overseas : Vietnam, Quang Nam, Jiaxing, Qingdao, Changshu, Luxembourg, Romania (Jiaxing in Vietnam in 2021 and completion of third party re-verification and Qingdao are excluded from third-party verification in 2022 as they report data 6) GHG emissions due to leakage of refrigerants used in refrigeration and air conditioning and GHG based on Chinese local government reporting)
- 3) GHGs criteria & protocols used for verification
- Korea : Guideline for Reporting and Certification of Emissions in the Greenhouse Gas Emissions 7) There are no NF3 emission facilities within the sites subject to reporting
- Overseas: ISO 14064:-3:2019 (Greenhouse gases Part 3: Specification with guidance for the purchased and used
- 4) Verification approach
- Korea : The third-party assurance provider reviewed and verified HAMC's GHG inventory report, consolidated basis energy usage, process to generate/aggregate/report emissions data

- 1) Depending on the rounding method used for each facility, there may be a difference of less than $\pm 1tCO_2e$. Overseas: The third-party assurance provider reviewed and verified HAMC's GHG inventory report, the process to generate/aggregate/report emissions data
 - 5) Correction of renewable energy consumption in Changshu and mobile combustion consumption
 - emissions due to leakage of SF6 used in gas insulated switches are excluded from the scope of

 - Trading Scheme (Ministry of Environment Notice No. 2021-278)
 8) Romania's Scope 2 (electricity) from 2021 are zero as 100% renewable energy (wind power) is
 - $validation \ and \ verification \ of \ greenhouse \ gas \ assertions) \\ 9) \ Intensity = Total \ amount \ of \ GHG \ emissions \ \div \ Sales, \ sales \ according \ to \ the \ general \ financial$ statement of each site within the scope of publication of the sustainability report, not on a
 - 10) Correction of data where reports based on Chinese local government

Energy Consumption

| Energy Consum | ption ¹⁾ | | Unit | 2020 | 2021 ⁷⁾ | 2022 (Actual) |
|-----------------------|----------------------------------|------------------------|----------------------|-----------|--------------------|---------------|
| | | Korea | TJ | 3,889.47 | 4,215.63 | 3,999.16 |
| | | Overseas | TJ | 6,594.14 | 8,206.57 | 7,839.34 |
| | | Total | TJ | 10,483.62 | 12,422.20 | 11,838.50 |
| | | Korea | TJ / KRW 100 million | 0.54 | 0.44 | 0.47 |
| Intensity of total e | energy consumption ³⁾ | Overseas | TJ / KRW 100 million | 0.37 | 0.26 | 0.22 |
| | | Total | TJ / KRW 100 million | 0.42 | 0.30 | 0.2 |
| | ING(I III) | Korea | TJ | 467.92 | 483.24 | 698.8 |
| | LNG (stationary) | Overseas | TJ | 1,750.40 | 1,781.20 | 1,800.13 |
| | LDC (-t-ti) | Korea | TJ | 193.81 | 176.18 | 76.38 |
| | LPG (stationary) | Overseas | TJ | 22.93 | 117.07 | 171.76 |
| | Di1/1-11 | Korea | TJ | - | - | |
| | Diesel (stationary) | Overseas | TJ | 0.03 | 0.02 | 4.13 |
| D: | Kerosene (stationary) | Korea | TJ | - | 0.01 | 0.0 |
| Direct energy | | Overseas | TJ | - | - | |
| | 100/-111 | Korea | TJ | 0.08 | 0.13 | 0.1 |
| | LPG (mobile) | Overseas | TJ | 24.92 | 29.53 | 30.1 |
| | D:1/13-) | Korea | TJ | 4.23 | 0.85 | 0.9 |
| | Diesel (mobile) | Overseas | TJ | 48.02 | 22.75 | 5.3 |
| | 0 1: (1:1) | Korea | TJ | 0.72 | 0.95 | 0.7 |
| | Gasoline (mobile) | Overseas | TJ | 2.72 | 1.12 | 0.8 |
| | EL | Korea | TJ | 3,006.15 | 3,250.64 | 2,722.7 |
| | Electricity | Overseas | TJ | 4,409.91 | 5,437.10 | 5,176.4 |
| Indirect energy Steam | 6. | Korea | TJ | 216.53 | 303.62 | 499.3 |
| | Steam | Overseas | TJ | 335.21 | 727.26 | 549.1 |
| | Self-generation | Korea ⁴⁾ | TJ | 0.03 | 0.02 | 0.0 |
| Renewable | (solar power) | Overseas ⁵⁾ | TJ | N/A | 23.64 | 37.1 |
| energy . | Purchase (wind power) | Overseas ⁶⁾ | TJ | N/A | 66.88 | 64.25 |

¹⁾ Correction of energy consumption according to overseas greenhouse gas emission verification in 2022.

Correction of renewable energy use and mobile combustion in 2021 and completion of third-party re-verification (not reflected in 2020)

 $^{2) \,} Total \, energy \, consumption \, + \, Indirect \, energy \, consumption \, + \, Indirect \, energy \, consumption \, + \, Renewable \, energy \, consumption \, \\$

³⁾ Total energy consumption intensity = Total energy consumption \dot{x} Sales, sales according to the general financial statement of each site within the scope of publication of the sustainability report, not on a consolidated basis

⁴⁾ Installed at Songpa S Tower

⁵⁾ Installed in Jiaxing and Changshu

⁶⁾ Romania purchased and used 100% renewable energy (wind power)

⁷⁾ Correction of data where reports based on Chinese local government

Environmental Performance

Air Pollutants Emissions

| Air Pollutants Emissions ^{1),2} | Air Pollutants Emissions ^{1),2),3)} | | 2020 | 2021 | 2022 (Actual) |
|--|--|-----|-------|-------|---------------|
| | Korea | Ton | 94.4 | 99.5 | 170.0 |
| NOx | Overseas | Ton | 23.2 | 18.5 | 18.1 |
| | Total | Ton | 117.6 | 118.0 | 188.2 |
| | Korea | Ton | 1.3 | 0.5 | 6.6 |
| SOx | Overseas | Ton | 7.8 | 5.1 | 4.4 |
| | Total | Ton | 9.0 | 5.6 | 10.9 |
| | Korea | Ton | 15.1 | 11.2 | 8.7 |
| PM, Particulate Matter | Overseas | Ton | 99.5 | 78.4 | 85.4 |
| | Total | Ton | 114.6 | 89.6 | 94.1 |

¹⁾ Correction of data error of air pollutant emission in overseas in 2020~2021

Ozone Depleting Substances

| Consumptions | Consumptions | | 2020 | 2021 | 2022 (Actual) |
|--|--------------|-----|------|------|---------------|
| | Korea | Ton | 0.9 | 0.4 | 0.1 |
| Total amount of ODS consumption | Overseas | Ton | 2.3 | 0.8 | 0.8 |
| | Total | Ton | 3.2 | 1.2 | 0.8 |
| CFC(Chloro Fluoro Carbon; R11) | Korea | Ton | 0.9 | 0.4 | 0.1 |
| CFC(CIIIOI O FIGOI O CAI DOI I, R T T) | Overseas | Ton | - | - | - |
| HFC(Hydro Fluoro Carbon; R134a, | Korea | Ton | - | - | - |
| R410A) ^{1), 2)} | Overseas | Ton | 2.2 | 0.7 | 0.7 |
| Etc.(R407C) | Korea | Ton | - | - | - |
| EtC.(R4U/C) | Overseas | Ton | 0.1 | 0.1 | 0.1 |

¹⁾ Correction of ODS type in Romania in 2022

Chemicals

| Consumptions | | Unit | 2020 | 2021 | 2022 (Actual) |
|-----------------------------------|------------------------|------|--------|--------|---------------|
| | Korea | Ton | 16,688 | 21,056 | 33,032 |
| Hazardous chemicals ¹⁾ | Overseas ²⁾ | Ton | 29,031 | 27,590 | 17,849 |
| | Total | Ton | 45,719 | 48,646 | 50,881 |
| | | | | | |
| Emissions | | Unit | 2020 | 2021 | 2022 (Actual) |
| Hazardous chemicals ¹⁾ | Korea | Ton | 26 | 29 | 22 |

¹⁾ Hazardous chemicals including prohibited substances, substances requiring preparation for accidents, cancer/mutagenicity substances, restricted substances, and key management substances, etc.

2022 Key Energy & GHG Emissions Reduction Activities

| Business site | Project ¹⁾ | Date of | Energy usage reduction | GHG reduction | |
|----------------|---|--------------|------------------------|----------------|--|
| DUSITIESS SILE | Project | introduction | (TJ / year) | (tCO₂e / year) | |
| Daejeon | Refrigeration dryer replacement | 2022.01 | 1 | 53 | |
| Ulsan | Optimization of exhaust fan operation | 2022.01 | 4 | 210 | |
| Ulsan | Process cycle improvement | 2022.01 | 4 | 196 | |
| Ulsan | Condensate recycling | 2022.01 | 24 | 181 | |
| Jeonju | Facility operation optimization improvement | 2022.03 | 5 | 249 | |
| Qingdao | Reducing power consumption by improving the dust collector | 2022.05 | 4 | 1,009 | |
| Jeonju | Reducing energy use by optimizing process operating conditions | 2022.05 | 6 | 282 | |
| Ulsan | AHU facility efficiency improvement | 2022.07 | 0 | 22 | |
| Jeonju | Waste heat recycling | 2022.07 | 1 | 60 | |
| Ulsan | Improve energy loss reduction | 2022.08 | 4 | 174 | |
| Ulsan | Improved transformer loss savings | 2022.08 | 3 | 144 | |
| Ulsan | Coolant use efficiency improvement | 2022.01 | 1 | 34 | |
| Ulsan | Facility efficiency improvement | 2022.12 | 0 | 16 | |
| Ulsan | Reduce steam usage | 2023.01 | 3 | 25 | |
| Ulsan | Reduce energy consumption by lowering the temperature of the boiler | 2023.01 | - | Ē | |
| Ulsan | Improving the use method of the pump | 2023.01 | 0 | 21 | |
| Jeonju | Energy use reduction through waste heat recovery | 2023.05 | 24 | 1,214 | |

¹⁾ Major projects that can be disclosed have been included in this table

Safety-Health-Environment-Energy Improvements

| CAPEX for improvement | | Unit | 2020 | 2021 | 2022 (Actual) | 2022 (Plan) |
|---------------------------------|----------|-------------|-------|-------|---------------|-------------|
| | Korea | KRW million | 2,941 | 1,879 | 1,635 | 875 |
| Safety and health ²⁾ | Overseas | KRW million | N/A | N/A | 1,790 | 812 |
| | Total | KRW million | 2,941 | 1,879 | 3,425 | 1,687 |
| | Korea | KRW million | 846 | 897 | 2,804 | 1,023 |
| Environment ³⁾ | Overseas | KRW million | N/A | N/A | 3,242 | 2,173 |
| | Total | KRW million | 846 | 897 | 6,046 | 3,196 |
| | Korea | KRW million | 70 | 65 | 274 | - |
| Energy ⁴⁾ | Overseas | KRW million | N/A | N/A | 1,737 | 1,923 |
| | Total | KRW million | 70 | 65 | 2,011 | 1,923 |

¹⁾ Operating costs are excluded from CAPEX calculation, and all amount has been converted to KRW Mil. using exchange rate of designated year

Sales and Purchases of Eco-friendly Products and Services

| Amount of sales and purchases | | Unit | 2020 | 2021 | 2022 |
|---|----------|-------------|---------|---------|---------|
| Resource-efficient products | Korea | KRW million | 203,693 | 218,052 | 298,552 |
| Resource-emident products | Overseas | KRW million | 103,142 | 156,650 | 193,523 |
| Sales of eco-friendly products and services | | KRW million | 248,992 | 281,113 | 330,813 |
| Purchases of eco-friendly products and services (Korea) | | KRW million | 813 | 1,141 | 1,079 |

²⁾ Correction of Jeonju site data error of NOx and SOx emissions in 2020 and PM in 2021

³⁾ EU sites do not collect air pollutant emissions, but all the sites undergo 3rd-party external audit once a year

²⁾ Correction of Romania data in 2021

²⁾ Correction of unit of overseas

 $^{2)\,2020\,}Korea\,and\,overseas: Supplementation\,of\,safety\,accident\,prevention\,facilities\,for\,each\,process,\,supplementation\,of\,fire\,safety\,reinforcement\,facilities,\,etc.$

^{3) 2021} Korea: Air pollution prevention facility, wastewater treatment plant and waste storage facility supplementation, prevention of physical risks related to climate change, etc. 2021 Overseas: Air pollution prevention facility, supplementation of wastewater treatment plant facilities, additional installation of dust collectors, noise prevention for local residents, prevention of physical risks related to climate change, etc.

^{4) 2022} Korea: Establishment of energy remote monitoring system, investment for waste heat and steam recycling, etc. 2022 Overseas: Renovation of productivity enhancing facilities, high-efficiency parts, installation of solar power generators and ESS facilities, etc.

2020

2021 2022 (Actual)

Environmental Performance

Water Resource Management

| Category | | | Unit | 2020 | 2021 | 2022 (Actual) |
|---------------------------------------|--|----------|------------|-------|-------|---------------|
| | | Korea | 1,000 tons | 3,464 | 4,083 | 3,884 |
| | Total amount of withdrawal | Overseas | 1,000 tons | 4,083 | 4,593 | 4,303 |
| | | Total | 1,000 tons | 7,546 | 8,676 | 8,186 |
| Water withdrawal ¹⁾ | Municipal water (water supplies, other public | Korea | 1,000 tons | 15 | 18 | 24 |
| withialawai | or private sources) | Overseas | 1,000 tons | 310 | 273 | 355 |
| | Industrial water (water supplies, other public | Korea | 1,000 tons | 3,448 | 4,065 | 3,859 |
| | or private sources) | Overseas | 1,000 tons | 3,773 | 4,320 | 3,948 |
| | Total wastewater discharge | Korea | 1,000 tons | 1,066 | 1,153 | 1,361 |
| | | Overseas | 1,000 tons | 2,127 | 2,073 | 2,600 |
| | | Total | 1,000 tons | 3,193 | 3,226 | 3,960 |
| Wastewater discharge ²⁾ | Direct discharge to fresh surface water | Korea | 1,000 tons | 306 | 311 | 540 |
| uiscriarge | | Overseas | 1,000 tons | 139 | 150 | 134 |
| | Treatment and discharge by Ord next, | Korea | 1,000 tons | 760 | 842 | 821 |
| | Treatment and discharge by 3rd party | Overseas | 1,000 tons | 1,988 | 1,923 | 2,466 |
| | | Korea | 1,000 tons | 555 | 551 | 338 |
| | Total reused water | Overseas | 1,000 tons | 980 | 961 | 906 |
| Reused water ³⁾ | | Total | 1,000 tons | 1,535 | 1,511 | 1,244 |
| | | Korea | % | 16.0 | 13.5 | 8.7 |
| | Rate of water reuse ⁴⁾ | Overseas | % | 24.0 | 20.9 | 21.1 |
| | | Total | % | 20.3 | 17.4 | 15.2 |

¹⁾ According to the environmental information system registration guide, water intake (usage) is the water resource used for product production and service provision, and is the value confirmed by bills or payment confirmations

Water Pollutants

| Water pollutant emissions ¹⁾ | | Unit | 2020 | 2021 | 2022 (Actual) |
|---|------------------------|------|-------|-------|---------------|
| | Korea | Ton | 1.7 | 2.0 | 2.5 |
| Biochemical Oxygen Demand (BOD) | Overseas ¹⁾ | Ton | 42.8 | 53.2 | 53.3 |
| | Total | Ton | 44.5 | 55.2 | 55.8 |
| | Korea | Ton | 9.0 | 10.3 | 15.0 |
| Chemical Oxygen Demand (COD) | Overseas | Ton | 201.9 | 178.3 | 203.0 |
| | Total | Ton | 210.9 | 188.6 | 218.1 |
| | Korea | Ton | 3.3 | 2.8 | 6.1 |
| Suspended Solid (SS) | Overseas | Ton | 146.3 | 121.1 | 115.8 |
| | Total | Ton | 149.6 | 123.9 | 121.9 |
| | Korea | Ton | 9.5 | 13.1 | 29.9 |
| Total Nitrogen (T-N) | Overseas | Ton | 46.8 | 52.8 | 38.8 |
| | Total | Ton | 56.3 | 65.8 | 68.6 |
| | Korea | Ton | 0.1 | 0.2 | 0.1 |
| Total Phosphorus (T-P) | Overseas | Ton | 3.3 | 3.0 | 3.1 |
| | Total | Ton | 3.4 | 3.2 | 3.2 |

¹⁾ Correction of 2020 and 2021 data error of BOD emission in overseas 2) Correction of typos in COD and SS emissions in 2020~2021

Waste Treatment

Waste generated

| | | Korea | Ton | 6,102 | 6,238 | 6,421 | |
|--|----------------------------|--------------|---------------------|-------|--------|--------|---------------|
| Total waste generated | | | Overseas | Ton | 47,756 | 53,343 | 57,419 |
| | | | Total | Ton | 53,858 | 59,582 | 63,840 |
| Non-hazardous waste (ordinary waste) ¹⁾ | | Korea | Ton | 5,168 | 5,195 | 5,177 | |
| NOI ITI IdZdi UUUS WdSte (U | of ull lat y waste) | | Overseas | Ton | 24,854 | 26,909 | 28,579 |
| Hazardous waste (design | natad wasta) ¹⁾ | | Korea ²⁾ | Ton | 933 | 1,043 | 1,244 |
| ndzai uous waste (uesigi | idleu waste) | | Overseas | Ton | 22,903 | 26,435 | 28,839 |
| Waste treated | | | | Unit | 2020 | 2021 | 2022 (Actual) |
| waste treateu | | | Korea | Ton | 6,102 | 6,238 | 6,421 |
| Total waste treated | | | Overseas | Ton | 47,756 | 53,343 | 57,419 |
| TOLAI WASLE LI EALEU | | | | | | | |
| | | | Total | Ton | 53,858 | 59,582 | 63,840 |
| T | | | Korea | Ton | 5,123 | 4,536 | 4,880 |
| Total waste recycled | | | Overseas | Ton | 31,239 | 36,460 | 40,279 |
| | | | Total | Ton | 36,362 | 40,996 | 45,159 |
| | | | Korea | % | 84.0 | 72.7 | 76.0 |
| Total ratio of waste recycled ³⁾ | | Overseas | % | 65.4 | 68.3 | 70.1 | |
| | | | Total | % | 67.5 | 68.8 | 70.7 |
| | | Landfill | Korea | Ton | 154 | 735 | 502 |
| | | | Overseas | Ton | 1,382 | 1,305 | 1,906 |
| | Outsourced | Incineration | Korea | Ton | 776 | 902 | 884 |
| | | | Overseas | Ton | 2,195 | 1,641 | 1,772 |
| | treatment | Others | Korea | Ton | - | - | - |
| Non-hazardous waste | | Outlets | Overseas | Ton | 796 | 1,341 | 1,714 |
| (ordinary waste) ¹⁾ | | Recycled | Korea ⁴⁾ | Ton | 4,238 | 3,558 | 3,791 |
| | | | Overseas | Ton | 20,152 | 22,241 | 22,803 |
| | | Londfill | Korea | Ton | - | - | - |
| | C-16 tt | Landfill | Overseas | Ton | 287 | 321 | 320 |
| | Self-treatment | 0.1 | Korea | Ton | - | - | - |
| | | Others | Overseas | Ton | 43 | 60 | 64 |
| | | . 1611 | Korea | Ton | 5 | - | _ |
| | | Landfill | Overseas | Ton | 3,381 | 3,533 | 2,752 |
| | | | Korea | Ton | 43 | 65 | 154 |
| | Outsourced | Incineration | Overseas | Ton | 7,989 | 8,410 | 8,288 |
| Hazardous waste | treatment | Other | Korea | Ton | - | - | - |
| (designated waste) ¹⁾ | | Others | Overseas | Ton | 445 | 272 | 324 |
| | | 5 | Korea | Ton | 885 | 978 | 1,089 |
| | | Recycled | Overseas | Ton | 10,555 | 13,609 | 17,363 |
| | - 15 | İ | Korea | Ton | - | - | - |
| | Self-treatment Recy | | Overseas | Ton | 532 | 611 | 113 |

¹⁾ Waste recycling rate = total recycled amount ÷ total amount of waste processed × 100

²⁾ Correction of data in 2020~2021 (Jeonju, Jiaxing, and Romania) 3) Correction of data in 2021 (Jeonju)

⁴⁾ Rate of water reuse = Total amount of reused water ÷ Water withdrawal × 100

²⁾ Waste is classified as hazardous or nonhazardous waste according to local regulations

^{3) 2020} Daejeon data added and correction of HQ data in 2021

⁴⁾ Correction of HQ data in 2021

Reporting Scope

This report's ESG Performance section includes data from the subsidiaries listed below, which together account for Hyosung Chemical' consolidated revenue. The data for Hyosung Chemical and its subsidiaries are presented separately, with data for the subsidiaries only provided for the year 2022. Any instances where data for specific items may not include information from certain subsidiaries are indicated in the footnotes.

| Subsidiaries | Country of operation | | | |
|---------------|----------------------|--|--|--|
| Vina Chemical | Vietnam | | | |

Financial Statements (Consolidated)

| | ni | | | | | |
|--|----|--|--|--|--|--|
| | | | | | | |

| Items | 2020 | 2021 | 2022 |
|---------------------------------------|-----------|-----------|-----------|
| Current assets | 435,749 | 788,985 | 819,924 |
| Cash and cash equivalents | 10,181 | 34,797 | 106,319 |
| Trade and other current receivables | 222,339 | 327,974 | 333,403 |
| Inventories | 143,162 | 392,368 | 353,083 |
| Other current assets | 60,067 | 33,846 | 27,119 |
| Non-current assets | 1,981,616 | 2,255,064 | 2,311,194 |
| Long-term trade and other receivables | 3,467 | 3,409 | 3,716 |
| Tangible assets | 1,923,348 | 2,184,604 | 2,187,083 |
| Intangible assets | 23,126 | 33,971 | 32,207 |
| Investments in affiliated companies | 15,716 | 16,189 | 14,570 |
| Others | 15,959 | 16,891 | 73,618 |
| Total assets | 2,417,365 | 3,044,049 | 3,131,118 |
| Current liabilities | 627,538 | 1,083,164 | 1,715,749 |
| Trade and other payables | 295,090 | 438,810 | 406,595 |
| Borrowings | 303,764 | 582,592 | 1,281,879 |
| Other current liabilities | 28,684 | 61,762 | 27,275 |
| Non-current liabilities | 1,387,474 | 1,471,585 | 1,300,753 |
| Long-term trade and other payables | 13,186 | 13,270 | 13,594 |
| Long-term borrowings | 1,356,429 | 1,437,382 | 1,254,294 |
| Other non-current liabilities | 17,859 | 20,933 | 32,865 |
| Total liabilities | 2,015,012 | 2,554,749 | 3,016,502 |
| Capital stock | 15,951 | 15,951 | 15,951 |
| Retained earnings | 67,607 | 126,224 | (271,424) |
| Other components of equity | 318,795 | 347,125 | 370,090 |
| Non-controlling interest | - | - | - |
| Total equities | 402,353 | 489,300 | 114,617 |

Consolidated Statements of Comprehensive Income

(Linit: KRW million)

APPENDIX

| Items | 2020 | 2021 | 2022 |
|--------------------------------|-----------|-----------|-----------|
| Sales | 1,817,190 | 2,519,965 | 2,878,558 |
| Cost of sales | 1,664,137 | 2,282,689 | 3,108,714 |
| Gross profit | 153,053 | 237,276 | (230,156) |
| SG&A | 71,922 | 78,919 | 85,688 |
| R&D expenses | 20,203 | 21,783 | 20,883 |
| Operating income | 60,928 | 136,574 | (336,727) |
| Other gain | 7,007 | 7,431 | 6,420 |
| Other loss | 17,879 | 3,067 | 5,519 |
| Finance income | 47,307 | 31,026 | 129,528 |
| Finance expenses | 95,611 | 69,917 | 240,262 |
| Gain(loss) of associates | 1,669 | 325 | (1,691) |
| Profit before tax | 3,421 | 102,372 | (448,251) |
| Corporate tax expenses | 15,037 | 43,956 | (39,384) |
| Net profit | (11,616) | 58,416 | (408,867) |
| Other comprehensive gain(loss) | (24,850) | 28,532 | 34,183 |
| Total comprehensive income | (36,466) | 86,948 | (374,684) |

Corporation Tax by Country

| Country | Items | Unit | 2020 | 2021 | 2022 |
|---------|-------------------------|-------------|-----------|-----------|-----------|
| Korea | Sales | KRW million | 1,643,262 | 2,108,872 | 2,287,412 |
| | Profit before tax | KRW million | 56,663 | 173,976 | -130,533 |
| | Corporation tax expense | KRW million | 13,881 | 43,956 | -35,379 |
| | Tax rate | % | 24.2 | 24.2 | 24.2 |
| | Effective tax rate | % | 24.5 | 25.2 | - |
| | Sales | KRW million | 176,680 | 345,048 | 592,546 |
| | Profit before tax | KRW million | (54,395) | (60,504) | (313,721) |
| Vietnam | Corporation tax expense | KRW million | - | - | - |
| | Tax rate | % | - | - | - |
| | Effective tax rate | % | - | - | - |

Hyosung Chemical

Governance and Economic Performance

Current Status of Board of Directors

| Category | | Unit | 2022 |
|---|---|--------|------|
| Diversity | Male | Person | 4 |
| | Female | Person | - |
| No. of outside directors within the BoD | | | 2 |
| Outside director's attendance rate at the Outside Director Re | Outside director's attendance rate at the Outside Director Recommendation Committee | | 100 |
| No. of meetings of the Audit Committee | | Times | 6 |
| Outside director's attendance rate at the Audit Committee | | % | 100 |

Ethical and Compliance Management

| | | | Hyosung Chemical | Subsidiaries |
|--|--|-------------|------------------|--------------|
| Category | | Unit | 2022 | 2022 |
| Faculty on dispringingtion | No. of cases reported | Case | - | - |
| Employee discrimination | No. of cases reviewed | Case | - | - |
| Anti-corruption | No. of cases reported | Case | 1 | - |
| Anti-corruption | No. of individuals subject to disciplinary actions | Person | - | - |
| Fair trade | No. of violations | Case | - | - |
| rair trade | Fines for violations | KRW | - | - |
| | No. of breaches of laws and its own regulations regarding the data and labeling of products and services | Case | - | - |
| Violation of laws and regulations | Fines incurred by the breaches of financial laws, such as internal trading, monopoly, or anticompetitive behaviors | KRW million | - | - |
| | Fines incurred by environmental law violations, such as the emission of pollutants | KRW million | 1 | 129 |
| Prevention of corruption risks | | | | |
| Rate of employees that received an anti-corruption | Rate of executives that received an anti-corruption notification and related education | % | 25.0 | - |
| notification and related education | Rate of employees that received an anti-corruption notification and related education | % | 99.0 | - |
| No of business sites assessed of | n corruption risks | Count | 2 | - |
| Rate of business sites assessed | on corruption risks | % | 15.0 | - |

^{*} Cases reported to HR Counseling Center = Zero
** See our business report for more details

Production Output by Business Sector

| Category | Unit | 2020 | 2021 | 2022 |
|-------------------|-------------|-----------|-----------|-----------|
| Production output | KRW million | 1,581,337 | 2,098,665 | 3,212,749 |

Sales and Purchase of Eco-Friendly Products and Services

| Category | 11-24 | Hyosung Chemical | | | |
|--|-------------|------------------|---------|---------|--|
| | Unit | 2020 | 2021 | 2022 | |
| Revenues generated from products and services designed for a low carbon economy | KRW million | 27,745 | 58,272 | 67,055 | |
| Target sales amount from products and services designed for a low carbon economy | KRW million | 43,259 | 41,864 | 96,739 | |
| Sales from eco-friendly products and services | KRW million | 173,131 | 211,823 | 188,578 | |
| Purchases from eco-friendly products and services | KRW million | 206 | 315 | 366 | |

^{**} Eco-friendly items included in the calculation of sales and purchases include environmental label products, GR products, low-carbon certified products, green-certified products, and GRS-certified products.

R&D Expenses

| Category | Unit | 2020 | 2021 | 2022 |
|--------------|-------------|--------|--------|--------|
| R&D Expenses | KRW million | 20,203 | 21,783 | 20,883 |

Patent Registration and Application

| Category | | Unit | 2020 | 2021 | 2022 |
|-----------------------------------|----------|------|-------|-------|-------|
| Datant registration (assumulated) | Domestic | Case | 895 | 916 | 922 |
| Patent registration (accumulated) | Overseas | Case | 182 | 193 | 199 |
| Datant application (accumulated)) | Domestic | Case | 1,757 | 1,758 | 1,761 |
| Patent application (accumulated)) | Overseas | Case | 361 | 363 | 364 |

^{*} Values in this report may differ from those in the business report due to the transfer of existing special rights and changes in the starting points for data collection after the spin-off.

Hyosung Chemical

Social Performance

Employee Status

| Catamani | | Unit | | Hyosung Chemica | l | Subsidiaries |
|------------------------------|--|--------|-------|-----------------|-------|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| Total employees (Permanent a | nd Temporary) | Person | 1,183 | 1,213 | 1,272 | 429 |
| | Permanent (male) | | 1,020 | 1,019 | 1,069 | 51 |
| | Permanent (female) Person | Person | 118 | 113 | 119 | 21 |
| Franks month ma | Subtotal | | 1,138 | 1,132 | 1,188 | 72 |
| Employment type | Temporary (male) | | 30 | 65 | 51 | 283 |
| | Temporary (female) | Person | 15 | 16 | 33 | 74 |
| | Subtotal | | 45 | 81 | 84 | 357 |
| | Under 30 | Person | 246 | 251 | 255 | 281 |
| Age | 30-50 | | 699 | 712 | 765 | 129 |
| | 51 and above | | 238 | 250 | 252 | 19 |
| Gender | Male | Doroon | 1,050 | 1,084 | 1,120 | 334 |
| Gender | Female | Person | 133 | 129 | 152 | 95 |
| Job category (based on | Salary | D | 542 | 532 | 541 | 53 |
| permanent employment) | Hourly | Person | 596 | 600 | 647 | 19 |
| | Employees with disability | | 27 | 26 | 27 | - |
| D: " | Veterans | 5 | 22 | 23 | 24 | - |
| Diversity | Foreigner | Person | 1 | 1 | 5 | - |
| | Subtotal | | 50 | 50 | 56 | - |
| | Female employee ratio | | 11.2 | 10.6 | 11.9 | 29.2 |
| Fostering Female Talent | Female managerial positions ratio (PM and above) | % | 8.3 | 7.7 | 8.4 | 14.7 |

Regular Performance Evaluation

| Catagony | | Unit | | Hyosung Chemical | | Subsidiaries |
|--|-------------------------|--------|-------|------------------|-------|--------------|
| Category | | Offic | 2020 | 2021 | 2022 | 2022 |
| No. of employees subject to performan | nce evaluation | Person | 1,138 | 1,132 | 1,188 | 396 |
| Performance evaluation rate | | % | 96.2 | 93.3 | 93.4 | 92.3 |
| Regular performance and career | Male | | 89.6 | 90 | 90 | 76.8 |
| development review rate by gender | Female | | 10.4 | 10.0 | 10.0 | 23.2 |
| Regular performance and career | Executive | % | 1.8 | 1.5 | 1.3 | 1.5 |
| development review rate by employee category | Manager level or higher | | 21.1 | 21.6 | 19.8 | 13.9 |
| | Non-manager level | | 77.1 | 76.9 | 78.9 | 84.6 |

New Recruitment and Turnover

| Catanani | | Unit | | Hyosung Chemical | | Subsidiaries |
|------------------------|-------------------------|--------|------|------------------|------|--------------|
| Category | Category | | 2020 | 2021 | 2022 | 2022 |
| | Male | | 57 | 116 | 121 | 76 |
| | Female | | 12 | 17 | 47 | 14 |
| | Subtotal | | 69 | 133 | 168 | 90 |
| New recruits | Under 30 | Person | 39 | 98 | 119 | 82 |
| | 30-50 | | 22 | 33 | 46 | 8 |
| | 51 and above | | 9 | 5 | 3 | - |
| | Subtotal | | 70 | 136 | 168 | 90 |
| | Male | | 46 | 54 | 76 | 1 |
| | Female | | 4 | 15 | 12 | 2 |
| | Subtotal | | 50 | 69 | 88 | 3 |
| Turnover (voluntary | Under 30 | Person | 5 | 15 | 31 | - |
| turnover of permanent) | 30-50 | | 33 | 45 | 50 | 3 |
| | 51 and above | | 12 | 9 | 7 | - |
| | Subtotal | | 50 | 69 | 88 | 3 |
| | Voluntary turnover rate | % | 4.4 | 6.1 | 7.4 | 4.2 |

Total compensation and Remuneration

| | | | | | | osung Chemic | cal | | Subsidiaries |
|--|--|-------------|------|------|------|-----------------------|-----------------------|--|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 (Expatriates) | 2022 (Local staff) | | |
| Total compensation for entry-level em | ployees | KRW million | 43 | 51 | 48 | - | 8 | | |
| Ratio of entry-level employee compensation to legal minimum wage | Male | - % | 173 | 199 | 179 | - | 248 | | |
| | Female | % | 173 | 199 | 179 | - | 248 | | |
| Rate of total compensation for | Manager level or higher | 0/ | 75.4 | 74.3 | 82.6 | 93.2 | 71.5 | | |
| female compared to male | Non-manager level | - % | 60.5 | 66.9 | 62.0 | - | 101 | | |
| Average total compensation | | KRW million | 68 | 77 | 73 | 113 | 16 | | |
| Total annual compensation for C-level | Total annual compensation for C-level executives | | 514 | 622 | 276 | 229 | - | | |
| Median employee compensation (excluding C-level executives) | | KRW million | 61 | 69 | 67 | 121 | 12 | | |
| Ratio of C-level executives' compensation to that of employees | | Times | 8.4 | 9.1 | 4.1 | 1.9 | - | | |

% Data for expatriates and local staff are presented separately because they are subject to Korea's Labor Law and the labor laws of their respective countries.

OVERVIEW — ESG AT HYOSUNG — FOCUS ISSUES — ESG MANAGEMENT — ESG PERFORMANCE — APPENDIX

Hyosung Chemical

Social Performance

Maternity and Childcare Leave

| Catagory | | Unit | ı | Hyosung Chemica | nl | Subsidiaries |
|--------------------------|---|--------|------|-----------------|------|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| Maternity leave | No. of employees under maternity leave | Person | 49 | 24 | 35 | 15 |
| (male) | Returning ratio to work after maternity leave | % | 100 | 100 | 100 | 100 |
| Maternity leave | No. of employees under maternity leave | Person | 4 | 3 | 8 | 10 |
| (female) | Returning ratio to work after maternity leave | % | 100 | 100 | 100 | 90 |
| | No. of employees entitled to childcare leave | Person | 257 | 248 | 249 | 15 |
| | No. of employees on childcare leave | Person | - | 6 | 4 | - |
| Childcare leave (male) | No. of employees returning to work after childcare leave | Person | - | 2 | 2 | - |
| | No. of employees with over 12 months of service after childcare leave | Person | 1 | - | 2 | - |
| | No. of employees entitled to childcare leave | Person | 18 | 20 | 22 | - |
| | No. of employees on childcare leave | Person | 5 | 5 | 5 | - |
| Childcare leave (female) | No. of employees returning to work after childcare leave | Person | 7 | 3 | 5 | - |
| | No. of employees with over 12 months of service after childcare leave | Person | 3 | 6 | 2 | - |

Labor Union Membership

| Category | Unit | Hyosung Chemical | | Subsidiaries | |
|--|--------|------------------|------|--------------|------|
| Category | Offic | 2020 | 2021 | 2022 | 2022 |
| No. of employees covered by collective bargaining agreements | Person | 596 | 600 | 648 | 369 |
| Ratio of employees covered by collective bargaining agreements among total employees | % | 50.4 | 49.5 | 50.9 | 86.0 |
| No. of union workers | Person | 578 | 591 | 637 | 369 |
| Ratio of union workers | % | 97.0 | 98.5 | 98.3 | 100 |

Retirement Pension

| Category | Unit | 2020 | 2021 | 2022 |
|---|-------------|--------|--------|--------|
| Total operation fund for retirement pension | KRW million | 69,625 | 74,731 | 72,104 |
| Operation fund of DB pension | KRW million | 68,528 | 73,530 | 70,819 |
| Operation fund of DC pension | KRW million | 1,097 | 1,201 | 1,336 |
| Total number of members | Person | 1,231 | 1,262 | 1,315 |
| No. of DB pension members | Person | 1,035 | 1,060 | 1,109 |
| No. of DC pension members | Person | 196 | 202 | 206 |

Employee Training Status

| Colonia | | 11-2 | H | lyosung Chemica | I | Subsidiaries |
|---|-------------------------|-----------|---------|-----------------|---------|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| No. of training participants | | Person | 13,245 | 10,423 | 16,307 | 1,655 |
| Total training expenses | | KRW 1,000 | 541,605 | 679,770 | 840,309 | 14,087 |
| Total training hours | | Hours | 27,606 | 30,638 | 43,536 | 8,872 |
| Average training hours per employee | | Hours | 23 | 25 | 34 | 21 |
| Average training expenses per employe | e | KRW 1,000 | 458 | 560 | 661 | 33 |
| Average training hours per employee | Male | | 23 | 25 | 32 | 21 |
| by gender | Female | | 27 | 31 | 55 | 15 |
| | Executive | Hour | 18 | 75 | 26 | - |
| Average training hours per employee by employee category | Manager level or higher | | 40 | 53 | 62 | 15 |
| -,p,g, | Non-manager level | | 19 | 17 | 28 | 21 |
| No. of participants in environmental train | ning | | 1,106 | 514 | 1,289 | - |
| No. of participants in ethics and anti-cor | ruption training | | 1,139 | 544 | 1,273 | 85 |
| No. of participants in fair trade training | | | 502 | 492 | 1,356 | - |
| No. of participants in safety and health t | raining | | 206 | 533 | 1,320 | 1,358 |
| No. of participants in human rights training (sexual harassment / disability awareness / discrimination prevention) | | Person | 3,336 | 3,390 | 5,126 | 85 |
| No. of participants in information securit | y training | | 740 | 137 | 1,452 | 85 |
| No. of participants in sustainability mana | agement training | | 14 | 1,101 | 808 | - |
| No. of participants in retiree training | | 1 | 15 | 20 | 18 | - |

Hyosung Chemical

Social Performance

Supplier Status

| Category | Unit | | Subsidiaries | | |
|--|-------------|-----------|--------------|-----------|---------|
| category | Offic | 2020 | 2021 | 2022 | 2022 |
| No. of suppliers | Company | 773 | 790 | 745 | 271 |
| Total purchase from suppliers | KRW million | 1,009,500 | 1,387,200 | 1,771,300 | 487,103 |
| Local purchase ratio in key business regions | % | 87.9 | 90.1 | 91.2 | 3.2 |

Social and Environmental Impact Assessment of Supply Chain

| Category | | Unit | 2022 |
|--------------------------|--|---------|------|
| | Ratio of new suppliers that conducted social impact assessment | % | - |
| | No. of suppliers that conducted social impact assessment | Company | 17 |
| Social impact assessment | No. of suppliers having practical and potential negative impact | Company | - |
| | Ratio of suppliers that agreed improvement based on the results of social impact assessment | % | - |
| | Ratio of suppliers whose contracts were terminated based on the results of social impact assessment | % | - |
| | Ratio of new suppliers that conducted environmental impact assessment | % | - |
| Environmental | No. of suppliers that conducted environmental impact assessment | Company | 17 |
| impact | No. of suppliers having practical and potential negative impact | Company | - |
| assessment | Ratio of suppliers that agreed improvement based on the results of environmental impact assessment | % | - |
| | Ratio of suppliers whose contracts were terminated based on the results of environmental impact assessment | % | - |

Compliant Handling Process for Suppliers

| Category | Unit | 2022 |
|-------------------------------|------|------|
| No. of complaints submissions | Case | 220 |
| No. of complaints processed | Case | 209 |
| Processing rate | % | 95.0 |

CSR Activities

| Category | Unit | 2020 | 2021 | 2022 |
|---------------------|-------------|------|------|------|
| CSR investment | KRW million | 481 | 427 | 492 |
| No. of CSR programs | Program | 5 | 32 | 41 |

Occupational Accidents and Injuries

| 6.1 | | | H | yosung Chemica | ıl | Subsidiaries |
|--|---|------------------|------|----------------|------|--------------|
| Category | | Unit | 2020 | 2021 | 2022 | 2022 |
| Occupational accident rate(rate of injured individuals due to work-related accidents and diseases) | | % | 0.67 | 0.56 | 0.42 | - |
| Total Recordable Incide | nt Rate (TRIR) | Per 200,000 Hour | 0.06 | 0.08 | 0.05 | - |
| Process Safety Inciden | ts Count (PSIC) | Case | - | 1 | - | - |
| Process Safety Total In | cident Rate (PSTIR) | Per 200,000 Hour | - | 0.07 | - | - |
| | No. of fatalities | Person | - | - | - | - |
| | Fatality rate | Per 200,000 Hour | - | - | - | - |
| | No. of high-consequence occupational accidents (excluding fatalities) | Case | - | - | - | - |
| Employees | High-consequence occupational accidents rate (excluding fatalities) | Per 200,000 Hour | - | - | - | - |
| Employees | No. of work-related accidents or work-related diseases | Case | 6 | 5 | 4 | - |
| | No. of fatalities due to work-related diseases | Person | - | - | - | - |
| | No. of injuries due to work-related diseases | Person | - | - | - | - |
| | No. of fatalities | Person | - | - | - | - |
| | Fatality rate | Per 200,000 Hour | - | - | - | - |
| | No. of high-consequence occupational accidents (excluding fatalities) | Case | 1 | - | - | - |
| Partners | High-consequence occupational accidents rate (excluding fatalities) | Per 200,000 Hour | 0.03 | - | - | - |
| T di di loi o | No. of work-related accidents or work-related diseases | Case | 1 | 7 | 4 | - |
| | No. of fatalities due to work-related diseases | Person | - | - | - | - |
| | No. of injuries due to work-related diseases | Person | - | - | - | - |
| No. of transport | Road accident | Case | - | - | - | - |
| accidents related to | Railroad accident | Case | - | - | - | - |
| chemical substances | Ship accident | Case | - | - | - | - |

Key Products and Services Evaluated for Health and Safety Impacts

| Category | Unit | 2022 |
|--|------|------|
| Ratio of products and services evaluated for health and safety impacts | % | 100 |

Hyosung Chemical

Environmental Performance

GHG Emissions

| | | | | Subsidiaries | | | |
|-----------------------------------|-----------------------|----------------------|---------|--------------|---------|-------------|---------|
| Category | | Unit | 2020 | 2024 | 2022 | | 2022 |
| | | | 2020 | 2021 | Plan | Performance | 2022 |
| | Stationary combustion | | 272,684 | 271,239 | 284,949 | 261,614 | 133,677 |
| D | Mobile combustion | | 628 | 636 | 667 | 589 | 853 |
| Direct GHG emissions (Scope 1) | Processing emissions | tCO₂eq | 24,526 | 24,765 | 26,017 | 24,126 | 927 |
| (Scope 1) | Waste disposal | | 672 | 1,049 | 1,098 | 1,028 | 7,597 |
| | Subtotal | | 298,511 | 297,689 | 312,731 | 287,357 | 143,053 |
| | Electricity | | 563,009 | 567,422 | 596,105 | 574,879 | 407,190 |
| Indirect GHG emissions (Scope 2) | Steam Scope 1 | tCO₂eq | - | - | - | - | - |
| (3copc 2) | Subtotal | | 563,009 | 567,422 | 596,105 | 574,879 | 407,190 |
| Total GHG emissions (Scope | 1 & 2) | tCO₂eq | 861,520 | 865,111 | 908,836 | 862,236 | 550,243 |
| | Scope1 | tCO ₂ eq/ | 18.17 | 14.12 | 13.67 | 12.56 | 24.14 |
| GHG emissions intensity | Scope2 | KRW 100 | 34.26 | 26.91 | 26.06 | 25.13 | 68.72 |
| | Subtotal | million | 52.43 | 41.02 | 39.73 | 37.69 | 92.86 |

^{*} Data for 2020 and 2021 changed due to the change in data collection method

Air Pollutants Emissions

| Catagoni | | Unit | | Hyosung Chemical | | | |
|-----------------------------------|-------------------------|------|-------|------------------|-------|--|--|
| Category | Category | | 2020 | 2021 | 2022 | | |
| | Nitrogen oxides (NOx) | | 219.7 | 230.9 | 240.0 | | |
| General air pollutants | Sulfur oxides (SOx) | Ton | 17.4 | 13.5 | 25.9 | | |
| | Particulate matter (PM) | | 6.9 | 10.2 | 14.4 | | |
| Volatile Organic Chemicals (VOCs) | | Ton | 1.6 | 0.8 | 0.5 | | |
| Hazardous Air Pollutants (HAPs) | | Ton | 6.3 | 12.5 | 45.6 | | |
| | CFD(R-11) | | - | - | - | | |
| Ozone depleting substances | HCFC(R-123) | Ton | - | - | - | | |
| | HCFC(R-22) | | 0.1 | 0.1 | 0.1 | | |

^{*} Data for 2020 and 2021 changed due to the change in data collection method

Chemical Substances Management

| | | | Subsidiaries | | | |
|---------------------------------|-----------------------|-----------|--------------|---------|-------------|------|
| Category | Unit | 2020 2021 | 2024 | 2022 | | 2022 |
| | | | 2021 | Plan | Performance | 2022 |
| Hazardous chemicals consumption | Ton | 285,570 | 300,785 | 300,803 | 328,321 | 856 |
| Hazardous chemicals intensity | Ton / KRW 100 million | 17.38 | 14.26 | 13.15 | 14.35 | 0.14 |
| Chemical substance emissions | Ton | 304 | 573 | 563 | 476 | N/A |

^{*} Data for 2020 and 2021 changed due to the change in data collection method $\,$

Energy Consumption

| | | | | Subsidiaries | | | |
|-----------------------------|------------------------------------|----------------------|-----------|--------------|-----------|-------------|----------|
| Category | | Unit | 2020 | 2021 | | 2022 | |
| | | | 2020 | 2021 | Plan | Performance | 2022 |
| | Diesel | | 8.47 | 8.32 | 8.64 | 8.19 | 0.01 |
| | Kerosene | | - | 0.04 | 0.02 | 0.02 | - |
| | LNG | | 455.83 | 742.73 | 672.34 | 637.86 | 609.28 |
| | Gasoline | | 1.03 | 0.85 | 0.79 | 0.75 | 0.58 |
| | Propane | | 54.28 | 50.02 | 52.78 | 50.07 | 36.36 |
| Direct energy | BC oil | TJ | - | - | - | - | - |
| consumption | Anthracite | | - | - | - | - | - |
| | Other solid fuels | | - | - | - | - | - |
| | Off-gas | | 5,541.80 | 5,698.64 | 5,893.36 | 5,591.13 | 2,143.29 |
| | LPG | | 0.61 | 0.89 | 0.84 | 0.80 | 0.25 |
| | Biogas | | - | - | - | - | _ |
| | Subtotal | | 6,062.02 | 6,500.60 | 6,628.77 | 6,288.83 | 2,789.76 |
| | Electricity | TJ | 11,592.25 | 11,857.04 | 12,662.22 | 12,012.87 | 2,247.60 |
| | Steam | | - | - | - | - | - |
| Indirect energy consumption | Waste heat from industrial process | | - | - | - | - | - |
| | Heat from waste incineration | | 562.83 | 496.27 | 480.39 | 455.76 | - |
| | Subtotal | | 12,155.07 | 12,353.31 | 13,142.61 | 12,468.63 | 2,247.60 |
| Total | | TJ | 18,217.10 | 18,854.80 | 19,771.38 | 18,757.46 | 5,037.37 |
| Energy intensity | | TJ / KRW 100 million | 1.11 | 0.89 | 0.86 | 0.82 | 0.01 |
| | PPA | | - | - | - | - | - |
| | Green premium | | - | - | - | - | - |
| B 11 | REC | TJ | - | - | - | - | - |
| Renewable energy | Waste energy | | 562.83 | 496.27 | 480.39 | 455.76 | - |
| consumption | Self-generation (solar energy) | | 1.84 | 1.65 | 1.69 | 1.60 | - |
| | Total renewable energy consumption | TJ | 564.67 | 497.92 | 482.08 | 457.36 | - |

^{*} Data for 2020 and 2021 changed due to the change in data collection method $\,$

Hyosung Chemical

Environmental Performance

Waste Treatment

| | | | | Hyosung | Chemical | | Subsidiaries |
|----------------------|------------------------|-----------|--------|---------|-------------|--------|--------------|
| Category | | Unit | 2020 | 2021 | | 2022 | 2022 |
| | | 2020 2021 | 2021 | Plan | Performance | 2022 | |
| Non-hazardous | waste (ordinary waste) | | | | | | |
| Self-treatment | | | - | - | - | - | - |
| Recycling | | | 14,731 | 14,624 | 15,814 | 18,202 | 108 |
| Outsourced | Incineration | Ton | 642 | 748 | 844 | 682 | - |
| treatment | Landfill | 1011 | 5,870 | 5,435 | 4,367 | 4,455 | 499 |
| | Others | | 1,633 | 2,304 | 1,847 | 1,248 | - |
| Subtotal | | | 22,876 | 23,112 | 22,873 | 24,587 | 608 |
| Hazardous wast | te (designated waste) | | | | | | |
| Self-treatment | | | - | - | - | - | - |
| | Recycling | | 620 | 756 | 1,375 | 458 | - |
| Outsourced | Incineration | Ton | 332 | 396 | 421 | 374 | 539 |
| treatment | Landfill | ION | 19 | 12 | 5 | 3 | - |
| | Others | | 5,645 | 4,329 | 4,696 | 4,738 | 423 |
| Subtotal | | | 6,616 | 5,492 | 6,496 | 5,574 | 961 |
| Total waste gene | erated | Ton | 29,492 | 28,604 | 29,369 | 30,161 | 1,569 |
| Total waste recycled | | Ton | 15,352 | 15,380 | 17,189 | 18,660 | 108 |
| Total ratio of was | ste recycled | % | 52.1 | 53.8 | 58.5 | 61.9 | 6.9 |

Raw Material Consumption and Recycling Amount

| Catagory | | Unit | Hyosung Chemical | | | |
|---------------------------------------|-------------------|-------|------------------|-----------|---------|--|
| Category | | Offic | 2020 | 2021 | 2022 | |
| Raw (subsidiary) materials | Total consumption | Ton | 8,797,032 | 1,017,462 | 979,665 | |
| Raw (Subsidially) Materials | Recycling amount | Ton | 44,573 | 40,461 | 38,133 | |
| Consumption of recycled raw materials | | Ton | 6,759 | 7,717 | 5,172 | |

Water Resources

| | | | | | Subsidiaries | | |
|--|-----------------|-------|-----------|-----------|--------------|-------------|-----------|
| Category | | Unit | 2020 | 2021 | 2022 | | 2022 |
| | | | 2020 | 2021 | Plan | Performance | 2022 |
| | Municipal water | | 85,628 | 88,933 | 79,226 | 73,714 | 3,012,966 |
| Water consumption | Groundwater | Ton | 82,398 | 34,980 | 117,150 | 77,964 | - |
| by water source Industrial water River water | | Ton | 6,760,888 | 6,840,039 | 7,332,179 | 6,926,571 | - |
| | | | - | - | - | - | - |
| Total water consumpti | ion | Ton | 6,928,914 | 6,963,952 | 7,528,554 | 7,078,249 | 3,012,966 |
| Total reused water | | Ton | 279,431 | 225,067 | 225,067 | 222,275 | 701,135 |
| Rate of water reuse | | % | 4.0 | 3.2 | 3.0 | 3.1 | 23.4 |
| | Municipal water | | 85,628 | 88,933 | 79,226 | 73,714 | 3,012,966 |
| Water withdrawal by | Groundwater | | 82,398 | 34,980 | 117,150 | 77,964 | - |
| water source Industrial water | | - Ton | 6,760,888 | 6,840,039 | 7,332,179 | 6,926,571 | - |
| River water | | | - | - | - | - | - |
| Total water withdrawal | | Ton | 6,928,914 | 6,963,952 | 7,528,554 | 7,078,249 | 3,012,966 |

^{*}Data for 2020 and 2021 changed due to the change in data collection method

Wastewater and Water Treatment

| Category | | Unit | | | Subsidiaries | |
|----------------------------------|----------------------|-------|-----------|-----------|--------------|---------|
| Category | | Offic | 2020 | 2021 | 2022 | 2022 |
| | Wastewater treatment | | 1,684,891 | 1,692,789 | 1,727,196 | 976,231 |
| Wastewater discharge by location | Seawater discharge | Ton | - | - | - | - |
| iocation i | Outsourced treatment | | 188 | 389 | 59 | - |
| Total Wastewater discharge | | Ton | 1,685,079 | 1,693,178 | 1,606,815 | 976,231 |
| Biochemical Oxygen Demand | (BOD) | | 10.0 | 6.6 | 6.0 | 14.4 |
| Chemical Oxygen Demand (C | OD) | | 16.1 | 16.8 | 16.6 | 27.6 |
| Suspended Solids (SS) | | Ton | 15.2 | 11.9 | 7.5 | 5.9 |
| Total Nitrogen (T-N) | | | 8.7 | 4.6 | 4.5 | 5.9 |
| Total Phosphorus (T-P) | | | 0.5 | 0.2 | 0.2 | 0.7 |

 $^{^{\}ast}$ Data for 2020 and 2021 changed due to the change in data collection method

Hyosung Chemical

Environmental Performance

Pollution-free Vehicles

| Catagory | | Unit | Hyosung Chemical | Subsidiaries |
|----------------------------------|-------------------|----------|------------------|--------------|
| Category | Category | | 2022 | 2022 |
| On-road vehicles | EVs | Vehicle | - | - |
| Of 17 Odd verticles | Hydrogen vehicles | Verlide | 1 | - |
| Off-road vehicles | EVs | Vehicle | 51 | - |
| OTT-TOdd VerlicleS | Hydrogen vehicles | Verlicle | - | - |
| Ratio of pollution-free vehicles | | % | 42.3 | - |

Energy Savings and GHG Emissions Reduction

| | | | | Hyosung Chemi | cal | |
|------------|---|----------------------|-----------------------------|--|-----------------------------|---|
| Category | Project | Date of installation | Investment (KRW million) | Energy usage reduction (TJ / year) | Energy usage reduction (TJ) | GHG emissions reductions (tCO ₂ eq / year) |
| Yongyeon 2 | Sand fiter pump replacement | Apr. 2020 | 42 | 151,110 | 1.45 | 70 |
| Oksan | Optimized management of adsorption tower steam usage (reduction of steam usage) | Jan. 2021 | 18 | 555,778 | 5.34 | 259 |
| Oksan | Optimization of SR distillation column reboiler steam usage | May. 2021 | 0 | 459,375 | 4.41 | 248 |

Internal Carbon Pricing

| С | Category Internal carbon pricing | Unit | Hyosung Chemical 2022 |
|----|----------------------------------|-------------------------|-----------------------|
| In | nternal carbon pricing | KRW/tCO ₂ eq | 25,700 |

Biodiversity within Areas of Business Impact

| Category | Unit | Hyosung Chemical | Subsidiaries |
|--|---------|------------------|--------------|
| Endangered species designated by the International Union for Conservation of Nature (Red list) | Species | 238 | 223 |
| Nationally designated endangered species (domestic) | Species | 10 | - |

^{*}Endangered species designated by the International Union for Conservation of Nature (IUCN): Record only critical (CR), endangered (EN), and vulnerable (VU) within a radius of 25 km from the workplace

Environmental Investments

| | | | | Subsidiaries | | |
|--|-------|-----------|------------|--------------|-------------|---------|
| Category | Unit | 2020 | 2021 | 2022 | | 2022 |
| | | | | Plan | Performance | 2022 |
| Waste and discharge treatment and environmental restoration expenses | | 4,647,304 | 4,404,715 | 2,793,627 | 2,684,304 | 147,425 |
| Environmental pollution prevention and environmental management expenses | KRW | 781,027 | 991,618 | 227,170 | 210,675 | - |
| Investment in environmental improvement facilities | 1,000 | 2,001,334 | 4,890,550 | 140,000 | 127,000 | - |
| Total | | 7,429,666 | 10,286,883 | 3,160,797 | 3,021,980 | 147,425 |

^{*} Nationally designated endangered species: Based on major administrative districts by province according to the national distribution survey of endangered wildlife by the national institute of biological resources

APPENDIX

- 112 Certifications and Association Memberships by Business Site
- 114 Independent Assurance Statement
- **115** GRI Standards Index
- **118** TCFD
- **119** SASB
- **121** UN SDGs

Certifications and Association Memberships by Business Site

Certifications by Business Site

| | | Certification Name | | | | | | | |
|------------------------|------------------|--------------------------------------|--------------------------------------|-------------------------------------|-------------------|---|---|----------------------------|--|
| Company | Business site | PU / Business division | Environmental management | Quality | Safety and health | Certification/ | ss (GRS/Green Environmental ology, etc.) | | |
| | HQs | Interior | ISO 14001 | ISO 9001 | - | | - | | |
| Hyosung Corporation | Anyang | Interior | ISO 14001 | ISO 9001 | - | (Fabrics, D | | | |
| | | | - | IATF 16949 | ISO 45001 | Greige | yarns) | | |
| | HQs | HQs | ISO 14001 | ISO 9001 | - | GRS (Dyed yarns, | OBP (Ocean Bound Plastic) SGS ECO PRODUCT | | |
| Hyosung TNC | | | | | | Greige yarns, Processed materials, Dyed | ISCC EU ISCC PLUS | | |
| | Gumi | Gumi | NPY | ISO 14001 | ISO 9001 | ISO 45001 | Knitted Fabrics, Dyed Woven Fabrics) | OBP(Ocean Bound Plastic | |
| | | Spandex | ISO 14001 | ISO 9001 | ISO 45001 |] | - | | |
| | Ulsan | NPY | ISO 14001 | ISO 9001 | - | | - | | |
| | Daegu | NPY | - | - | - | | Oeko-Tex® | | |
| | | | ISO 14001 | ISO 9001 | ISO 45001 | - | - | | |
| | | | Self-monitoring Business site (1) | ISO 3834-2 | KOSHA 18001 | | - | | |
| | | | Self-monitoring Business site (2) | KEPIC | - | | - | | |
| Hyosung Heavy | Changwon | Power Systems & Industrial Machinery | Self-monitoring Business site (3) | ISO 17025 | - | | - | | |
| Industries | | Mac iii lei y | Self-monitoring Business site (4) | EX proof motor | - | | - | | |
| | | | - | ASME | - | | - | | |
| | | | - | KS | - | | - | | |
| | | | - | KR | - | | - | | |
| | | | - | Nuclear Performance Verification | - | | - | | |
| | Sejong1) | Power Systems | - | - | - | | - | | |
| | Hoehyeon2) | Construction | ISO 14001 | ISO 9001 | ISO 45001 | Green I | Building | | |

1) As of May 2021, the Sejong Plant has moved its production facilities and personnel to the Changwon Plant. ISO certification tasks also were transferred starting from the date of relocation.
2) As of November 22, 2021, Hyosung Heavy Industries Construction PU has moved office from Bangbae to Hoehyeon.

*RCS BL(Recycle Claim Standard Blended)

RCS certification is a standard for certifying the contents of recycled raw materials in finished products, and can be applied to products that contain at least 5% recycled raw materials. It is divided into two label grades according to recycled raw material content; 'RCS Blended': $5\% \sim 95\%$ and 'RCS 100': above 95%.

| | | | | Certification | n Name | | |
|---------------------|------------------|---------------------------|-----------------------------|------------------------------------|--------------------------|--|---|
| Company | Business site | PU / Business division | Environmental management | Quality | Safety and health | Eco-friendliness (GRS/Green Certification/ Environmental New Technology, etc.) | |
| | | Tire Cord | ISO 14001 | ISO 9001 IATF 16949 | ISO 45001 | ISCC Plus (22.12) | |
| | Domestic | Technical Yarn | ISO 14001 | ISO 9001 IATF 16949 | ISO 45001 | GRS, Oeko-Tex® | |
| Hyosung Advanced | | Aramid | ISO 14001 | ISO 9001 IATF 16949 | ISO 45001 | Oeko-Tex® | |
| Materials | | Interior | ISO 14001 | - | ISO 45001 | GRS | |
| | Jeonju | Carbon Fiber | ISO 14001 | ISO 9001 ISO 9100 IATF 16949 | ISO 45001 ('22.11) | - | |
| | Daejeon | Interior | ISO 14001 | ISO 9001 | - | Eco-label | |
| | HQs | HQs | ISO 14001 | ISO 9001 | ISO 45001 | New Excellent Technology (NET) for the Environment | |
| | | R&D Center | - | ISO 9001 | - | - | |
| | Vongueon 1 | PP/DH | ISO 14001 | ISO 9001 | KOSHA MS | GRS (PCR-PP) | |
| | Yongyeon 1 | Neochem | ISO 14001 | ISO 9001 | ISO 45001 | - | |
| | | | TPA | ISO 14001 | ISO 9001 | | - |
| | Yongyeon 2 | POK | ISO 14001 | ISO 9001 | KOSHA MS | Green Technology | |
| | | POR | 130 14001 | IATF 16949 | | Green Technology Product | |
| I berren | | Film | ISO 14001 | ISO 9001 | - | GRS (PCR-Film) | |
| Hyosung Chemical | Yongyeon 3 | Opt. Film | ISO 14001 | ISO 9001 | - | RCS BL USDA BioPreferred® program | |
| | | Neochem | ISO 14001 | ISO 9001 | ISO 45001 | - | |
| | | | | | ISO 45001 | Ecovadis | |
| | Gumi | Film | ISO 14001 | ISO 9001 | FSSC22000 | GRS (PCR-Film) | |
| | Daejeon | Film | - | ISO 9001 | ISO 22000 (FSSC22000) | - | |
| | Oksan | Opt. Film | ISO 14001 | ISO 9001 | - | RCS BL USDA BioPreferred® program | |
| | Vina Chemical | PP/DH | ISO 14001 | ISO 9001 | - | - | |

| | New Excellent Technology (NET) for the Environment | | | | | | | |
|----------|--|---|--------------------|---------------|--|--|--|--|
| Category | Certification code | Product Name | Certification date | Expiry date | | | | |
| Hyosung | 534 | Ultra-filtration membrane water treatment technology based on an automatic coagulant control system and effluent flushing | Oct. 17, 2017 | Oct. 16, 2025 | | | | |
| Chemical | 538 | Two-stage submerged membrane water filtration system with a suction-type sludge collector applied in the sedimentation pre-processing and filtration tank | Jan. 31, 2018 | Oct. 16, 2026 | | | | |

Certifications and Association Memberships by Business Site

Association Membership

습 = 113

| Category | Association | Category | Association |
|------------------------|---|---------------|--|
| | Korea Management Association | | The Polymer Society of Korea |
| | Korea Mecenat Association | | Korea Intellectual Property Association |
| | Korean-American Association | | Gyeonggi-do Environmental Engineers |
| | Korea-Japan Economic Association | | Association |
| | Asia Society | | Carbon Composites Technology Research Association |
| | World Economic Forum (WEF) | | The Korean Institute of Power Electronics |
| | WEF YGL (Young Global Leader) | | |
| Hyosung | KOREA - U.S. Economic Council | Hyosung | Korean Association for Industrial Technology Security |
| riyosarig | YPO Korea Chapter | Corporation | The Korean Society for New and Renewable |
| | American Chamber of Commerce in Korea | | Energy |
| | The Korea Society | | The Korean Institute of Power Electronics |
| | Federation of Korean Industries | | Gyeonggi-do Environmental Engineers |
| | Korea Economic Research Institute | | Association |
| | Korea Enterprises Federation | | Anyang Electric Engineers Association |
| | The Seoul Forum for International Affairs | | Seoul Southern Immigration Office Social Integration Committee |
| | Korea H2 Business Summit | | ICMC |
| | Korea Chamber of Commerce and Industry | | |
| | Korea International Trade Association | | NY Bar Association |
| | Korea Listed Companies Association | | Seoul Chamber of Commerce and Industry |
| | Federation of Korea Human Resource | | Seoul Bar Association |
| | Development Representatives | | Korea Textile Trade Association |
| | Korea Personnel Improvement Association | | Federation of Korean Industries |
| | HRD Forum | | American Chamber of Commerce in Korea (AMCHAM) |
| | Korea Association for Chief Financial Officers | | Global Business Alliance (GBA Korea) |
| | KOREA Investor Relations Service | Hyosung TNC | Korea Exchange |
| | SETO Forum | | Korea Enterprises Federation |
| | Korean Institute of Electrical Engineers | | Korea Economic Research Institute |
| Hyosung Corporation | The Korea Fiber Society | | Korea International Trade Association |
| Corporation | Industry-Academic Cooperation at Seoul National University Electricity Power Research | | Korea Listed Companies Association |
| | Institute | | Korea Textile Trade Association |
| | International Council on Large Electric Systems | | Korea Outdoor & Sport Industry Association |
| | (CIGRE) | | Korea Personnel Improvement Association |
| | Korea Industrial Technology Association (KOITA) | | Korea Chemical Fibers Association |
| | International Shipping Agencies Association of Korea | | Seoul Chamber of Commerce and Industry |
| | Korea Plastic Pipe Research Society | | American Chamber of Commerce in Korea |
| | Korea International Freight Forwarders | Hyosung Heavy | Gyeongnam Chamber of Commerce and Industry |
| | Association | Industries | Korea International Trade Association |
| | Korean Chemical Engineering Research | | Korea Listed Companies Association |
| | Korea Industrial Safety Association | | Federation of Korean Industries |

| Category | Association |
|---------------|--|
| | Korea Enterprises Federation |
| | Gyeongnam Enterprises Federation |
| | Korea Economic Research Institute |
| | Construction Association of Korea |
| | Korea Electrical Contractors Association |
| | Korea Fire Facility Association |
| | Korea Specialty Construction Association |
| | Korea Mechanical Construction Contractors Association |
| | International Contractors' Association of Korea |
| | Korea Information & Communication Contractors Association |
| | Korea Housing Association |
| | Korea Federation of Construction Contractors |
| | Korea Remodeling Association |
| | H2KOREA |
| | Korea Hydrogen Industry Association |
| | Korea Construction Engineers Association |
| | Korea Hydro Power Industry Association |
| Hyosung Heavy | Korea Association of Machinery Industry |
| Industries | Korea Smart Grid Association |
| | Korea Electrical Manufactures Association |
| | Korea Exchange |
| | The Korean Society of Rotating Engineers |
| | Korea Electric Association |
| | Korea Plant Industries Association |
| | Korea Atomic Industrial Forum |
| | Korea Electric Engineers Association |
| | Korea Engineering & Consulting Association |
| | Korean Nuclear Society |
| | Korea Wind Energy Industry Association |
| | Changwon Industrial Complex Factory Managers Association |
| | Korea Management Association |
| | Seoul Bar Association |
| | Energy Alliance |
| | Korea TCFD Alliance |
| | Korea Construction Safety Association |
| | CSOC |

| Category | Association |
|----------------------------|--|
| | Korea Chamber of Commerce and Industry |
| | Korea International Trade Association |
| Hyosung Advanced Materials | Korea Listed Companies Association |
| Materials . | Federation of Korean Industries |
| | Korea Enterprises Federation |
| | Korea Economic Research Institute |
| | Korea Chemical Fibers Association |
| | Korea Exchange |
| | Membership Society for the National Museum of Modern and Contemporary Art, Korea (New) |
| | Korea Carbon and Nano Industry Association |
| Hyosung Advanced Materials | Korea Carbon Society |
| Materials | Korea Defense Industry Association |
| | Korea Bobsleigh Skeleton Federation |
| | UN Global Compact Network Korea |
| | Korea Fire Safety Association |
| | Jeonbuk Chemical Factory Council |
| | Environmental Preservation Association |
| | Korea Chamber of Commerce and Industry |
| | Korea International Trade Association |
| | Korea Listed Companies Association |
| | Federation of Korean Industries |
| | Korea Enterprises Federation |
| | Korea Economic Research Institute |
| | Korea Semiconductor Industry Association |
| Hyosung Chemical | Korea Industrial & Specialty Gases Association |
| | Korea Petrochemical Industry Association |
| | Korea Packaging Engineers Association |
| | Korean Institute of Chemical Engineers |
| | Korea Display Industry Association |
| | Korean Packaging Association |
| | Korea Personnel Improvement Association |
| | Korea Exchange |



Independent Assurance Statement

To readers of HYOSUNG Sustainability Report 2022

Introduction

Korea Management Registrar (KMR) was commissioned by HYOSUNG to conduct an independent assurance of its Sustainability Report 2022 (the "Report"). The data and its presentation in the Report is the sole responsibility of the management of HYOSUNG. KMR's responsibility is to perform an assurance engagement as agreed upon in our agreement with HYOSUNG and issue an assurance statement,

Scope and Standards

HYOSUNG described its sustainability performance and activities in the Report. Our Assurance Team carried out an assurance engagement in accordance with the AA1000AS v3 and KMR's assurance standard SRV1000. We are providing a Type 2, moderate level assurance. We evaluated the adherence to the AA1000AP (2018) principles of inclusivity, materiality, responsiveness and impact, and the reliability of the information and data provided using the Global Reporting Initiative (GRI) Index provided below. The opinion expressed in the Assurance Statement has been formed at the materiality of the professional judgment of our Assurance Team.

Confirmation that the Report was prepared in accordance with GRI standards 2021 was included in the scope of the assurance. We reviewed the topic-specific disclosures of standards which were identified in the double materiality assessment process.

- GRI Sustainability Reporting Standards 2021
- Universal Standards
- Topic Specific Standards
- GRI 205: Anti-corruption
- GRI 305 : Emissions
- GRI 308: Supplier Environmental Assessment
- GRI 405: Diversity and Equal Opportunity
- GRI 406: Non-discrimination
- GRI 407: Freedom of Association and Collective Bargaining
- GRI 408 : Child Labor
- GRI 409: Forced or Compulsory Labor
- GRI 414 : Supplier Social Assessment
- GRI 416: Customer Health and Safety

As for the reporting boundary, the engagement excludes the data and information of HYOSUNG's partners, suppliers and any third parties.

KMR's Approach

To perform an assurance engagement within an agreed scope of assessment using the standards outlined above, our Assurance Team undertook the following activities as part of the engagement:

- reviewed the overall Report;
- reviewed materiality assessment methodology and the assessment report;
- evaluated sustainability strategies, performance data management system, and processes;
- interviewed people in charge of preparing the Report;
- reviewed the reliability of the Report's performance data and conducted data sampling;
- ·assessed the reliability of information using independent external sources such as Financial Supervisory Service's DART and public databases.

Limitations and Recommendations

KMR's assurance engagement is based on the assumption that the data and information provided by HYOSUNG to us as part of our review are provided in good faith. Limited depth of evidence gathering including inquiry and analytical procedures and limited sampling at lower levels in the organization were applied. To address this, we referred to independent external sources such as DART and National Greenhouse Gas Management System (NGMS) and public databases to challenge the quality and reliability of the information provided.

Conclusion and Opinion

Based on the document reviews and interviews, we had several discussions with HYOSUNG on the revision of the Report. We reviewed the Report's final version in order to make sure that our recommendations for improvement and revision have been reflected. Based on the work performed, it is our opinion that the Report with reference to the GRI Standards. Nothing comes to our attention to suggest that the Report was not prepared in accordance with the AA1000AP (2018) principles. The Assurance Team's comments on the principles are as follows.

Inclusivity

HYOSUNG has developed and maintained different stakeholder communication channels at all levels to announce and fulfill its responsibilities to the stakeholders. Nothing comes to our attention to suggest that there is a key stakeholder group left out in the process. The organization makes efforts to properly reflect opinions and expectations into its strategies.

Materiality

HYOSUNG has a unique materiality assessment process to decide the impact of issues identified on its sustainability performance. We have not found any material topics left out in the process.

Responsiveness

HYOSUNG prioritized material issues to provide a comprehensive, balanced report of performance, responses, and future plans regarding them. We did not find anything to suggest that data and information disclosed in the Report do not give a fair representation of HYOSUNG's actions.

HYOSUNG identifies and monitors the direct and indirect impacts of material topics found through the materiality assessment, and quantifies such impacts as much as possible.

Reliability of Specific Sustainability Performance Information

In addition to the adherence to AA1000AP (2018) principles, we have assessed the reliability of economic, environmental, and social performance data related to sustainability performance. We interviewed the in-charge persons and reviewed information on a sampling basis and supporting documents as well as external sources and public databases to confirm that the disclosed data is reliable. Any intentional error or misstatement is not noted from the data and information disclosed in the Report.

Competence and Independence

KMR maintains a comprehensive system of quality control including documented policies and procedures in accordance with ISO/IEC 17021 2015 - Requirements for bodies providing audit and certification of management systems. This engagement was carried out by an independent team of sustainability assurance professionals. KMR has no other contract with HYOSUNG and did not provide any services to HYOSUNG that could compromise the independence of our work.













GRI Standards Index

General Standards

| GRI Standard 2021 | | Remarks |
|--------------------------|---------------------------------|---|
| | Explanation | With reference t o the GRI Standards 2021, a newly revised version, Hyosung discloses its data from January 1, 2022 through December 31, 2022. Some data of key achievements in the first half of 2023 are included. |
| GRI 1 : Foundation 2021 | Used GRI 1 | GRI 1: Foundation 2021 |
| GRI I . FOURIDATION 2021 | Applicable GRI Sector Standards | Not applicable (GRI Sector Standards for industries that Hyosung Corporation, Hyosung TNC, Hyosung Heavy Industries, Hyosung Advanced Materials, and Hyosung Chemical belong to were not announced as of June, 2023, the publication date of this report) |

| GRI Standard 2021 | | Indicators | Page | Remarks |
|---------------------------|------|---|---|--|
| Universal Standards | | | | |
| | 2-1 | Organizational details | 5, 6, 7, 9, 11, 13 | |
| | 2-2 | Entities included in the organization's sustainability reporting | 2 | |
| | 2-3 | Reporting period, frequency and contact point | 2 | |
| | 2-4 | Restatements of information | 25, 42, 73, 75, 78, 81, 82, 85, 91, 95, 96, 98, 100, 101, 102, 108, 109 | |
| | 2-5 | External assurance | 114 | |
| | 2-6 | Activities, value chain and other business relationships | 5-14, 73, 82, 91, 99, 107 | No significant changes in supply chain |
| | 2-7 | Employees | 71, 80, 89, 97, 105 | |
| | 2-8 | Workers who are not employees | 71, 80, 89, 97, 105 | |
| | 2-9 | Governance structure and composition | 60, 61 | |
| | 2-10 | Nomination and selection of the highest governance body | 60, 61 | |
| | 2-11 | Chair of the highest governance body | 60, 61 | |
| | 2-12 | Role of the highest governance body in overseeing the management of impacts | 20, 60-62 | |
| | 2-13 | Delegation of responsibility for managing impacts | 20, 60-62 | |
| | 2-14 | Role of the highest governance body in sustainability reporting | 20, 68 | |
| GRI 2: Foundation 2021 | 2-15 | Conflicts of interest | 60, 61 | |
| GRI Z. FOUI IUduoli ZOZ I | 2-16 | Communication of critical concerns | 20, 60, 67, 68 | |
| | 2-17 | Collective knowledge of the highest governance body | 60, 61 | Business report page 436 |
| | 2-18 | Evaluation of the performance of the highest governance body | 60, 61 | |
| | 2-19 | Remuneration policies | 60 | |
| | 2-20 | Process to determine remuneration | 60 | |
| | 2-21 | Annual total compensation ratio | 71, 80, 89, 98, 105 | |
| | 2-22 | Statement on sustainable development strategy | 4 | |
| | 2-23 | Policy commitments | 41, 48, 52, 63 | |
| | 2-24 | Embedding policy commitments | 41, 48, 52, 63 | |
| | 2-25 | Processes to remediate negative impacts | 52, 62, 63, 67 | |
| | 2-26 | Mechanisms for seeking advice and raising concerns | 41,52,63 | |
| | 2-27 | Compliance with laws and regulations | 63, 70, 79, 87, 96, 104 | |
| | 2-28 | Membership associations | 112-113 | |
| | 2-29 | Approach to stakeholder engagement | 67 | |
| | 2-30 | Collective bargaining agreements | 72, 81, 90, 98, 106 | |

GRI Standards Index

Topic-Specific Standards

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| Material Topics | | | | |
| GRI 3: | 3-1 | Process to determine material topics | 68 | |
| Material Topics 2021 | 3-2 | List of material topics | 68 | |
| Climate Change Response | е | | | |
| GRI 3: Material Topics 2021 | 3-3 | Management of material topics | 20 | |
| GRI 201: Economic Performance | 201-2 | Financial implications and other risks and opportunities due to climate change | 21-23 | |
| | 302-1 | Energy consumption within the organization | 74, 83, 92, 100, 108 | |
| GRI 302: Energy | 302-2 | Energy consumption outside of the organization | N/A | Energy consumption outside the organization not calculated |
| | 302-3 | Energy intensity | 74, 83, 92, 100, 108 | |
| | 302-4 | Reduction of energy consumption | 24 | |
| | 305-1 | Direct (Scope 1) GHG emissions | 74, 83, 92, 100, 108 | |
| | 305-2 | Energy indirect (Scope 2) GHG emissions | 74, 83, 92, 100, 108 | |
| GRI 305: Emissions | 305-3 | Other indirect (Scope3) GHG emissions | N/A | Other indirect GHG emissions are disclosed to the CDP (excluding subsidiaries) |
| | 305-4 | GHG emissions intensity | 74, 83, 92, 100, 108 | |
| | 305-5 | Reduction of GHG emissions | 74, 83, 92, 100, 108 | |
| Green Business | | | | |
| GRI 3: Material Topics 2021 | 3-3 | Management of material topics | 26 | |
| GRI 201 : Economic Performance | 201-1 | Direct economic value generated and distributed | 42, 76, 85, 94, 101 | |
| Health and Safety at Busi | ness Sites | | | |
| GRI 3: Material Topics 2021 | 3-3 | Management of material topics | 32 | |
| | 403-1 | Occupational health and safety management system | 32-36 | |
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| | 403-3 | Occupational health services | 34, 55 | |
| GRI 403: | 403-4 | Worker participation, consultation and communication on occupational health and safety | 33-36 | |
| Occupational Health and Safety | 403-5 | Worker training on occupational health and safety | 33, 72, 81, 90, 99, 106 | |
| and Safety | 403-6 | Promotion of worker health | 34, 55 | |
| | 403-7 | Prevention and mitigation of occupational health and safety impacts directly linked by business relationships | 32-36 | |
| | 403-9 | Work-related injuries | 73, 82, 91, 98, 107 | |
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| Topic | Index | Content | Page | Remarks |
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| Economic Performance | | | 1 | 1 |
| GRI 3: Material Topics 2021 | 3-3 | Management of material topics | 5, 6, 7, 9, 11, 13 | |
| GRI 201 : Economic Performance | 201-1 | Direct economic value generated and distributed | 69, 77, 86, 95, 103 | |
| GRI 207 : Tax | 207-4 | Country-by-country | 70, 78, 87, 96, 103 | |
| Product Safety & Quality, | and Customer | Satisfaction | | |
| GRI 3: Material Topics 2021 | 3-3 | Management of material topics | 43 | |
| GRI 416: Customer Health and | 416-1 | Assessment of the health and safety impacts of product and service categories | 73, 90 | |
| Safety | 416-2 | Incidents of non-compliance concerning the health and safety impacts of products and services | 70, 79, 87 | |
| GRI 417: | 417-1 | Requirements for product and service information and labeling | 73, 82 | |
| Marketing and Labeling | 417-2 | Incidents of non-compliance concerning product and service information and labeling | 70, 79, 96, 104 | |
| Sustainable Supply Chain | Establishment | i . | | |
| GRI 3: Material Topics 2021 | 3-3 | Sustainable Supply Chain Establishment | 37 | |
| GRI 308: Supplier | 308-1 | New suppliers that were screened using environmental criteria | 73, 82, 91, 99, 107 | |
| Assessment Assessment | 308-2 | Negative environmental impacts in the supply chain and actions taken | 42, 73, 82, 90, 99, 107 | |
| CDI 414 : Cumplion | 414-1 | New suppliers that were screened using social criteria | 73, 82, 91, 99, 107 | |
| GRI 414: Supplier Social Assessment | 414-2 | Negative social impacts in the supply chain and actions taken | 42, 73, 82, 90, 99, 107 | |

OVERVIEW ———— ESG AT HYOSUNG ———— FOCUS ISSUES ———— ESG MANAGEMENT ———— ESG PERFORMANCE ———— APPENDIX

GRI Standards Index

Topic-Specific Standards

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|--|-----------------|---|--|---------|--|--|--|
| Securing New Growth Engines & Business Diversification | | | | | | | |
| GRI 3: Material Topics 2021 | | Management of material topics | 26 | | | | |
| GRI 201 : 201-1 Economic Performance | | Direct economic value generated and distributed | 69, 77, 86, 95, 103 | | | | |
| Ethics / Compliance Manageme | nt | | | | | | |
| GRI 3: Material Topics 2021 | 3-3 | Management of material topics | 63 | | | | |
| | 205-1 | Operations assessed for risks related to corruption | 63, 79, 87, 104 | | | | |
| GRI 205 : Anti-corruption | 205-2 | Communication and training about anti-corruption policies and procedures | 63, 70, 72, 79, 81, 87, 90, 99, 106 | | | | |
| | 205-3 | Confirmed incidents of corruption and actions taken | 63, 70, 79, 87, 96, 104 | | | | |
| Integrated Risk Management | | | | | | | |
| GRI 3: Material Topics 2021 | 3-3 | Management of material topics | 62 | | | | |
| NON-GRI | , | No standards for related topics | | | | | |
| Pollutant Management (Water, | Air, Waste, and | Soil) | | | | | |
| GRI 3: Material Topics 2021 | 3-3 | Management of material topics | 48 | | | | |
| | 303-3 | Water withdrawal | 75, 84, 93, 101, 109 | | | | |
| GRI 303: Water and Effluents | 303-4 | Water discharge | 75, 84, 93, 101, 109 | | | | |
| | 303-5 | Water consumption | 75, 84, 93, 101, 109 | | | | |
| | 305-6 | Emissions of ozone-depleting substances (ODS) | 74, 83, 92, 100, 108 | | | | |
| GRI 305 : Emissions | 305-7 | Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions | 74, 83, 92, 100, 108 | | | | |
| GRI 306 : Waste | 306-3 | Waste generated | 75, 84, 93, 101, 109 | | | | |
| OUI 200 · MAZIG | 306-5 | Waste directed to disposal | 75, 84, 93, 101, 109 | | | | |

| Topic | Index | Content | Page | Remarks |
|---|----------------|--|--------------------------|--|
| • | | Content | Page | Remarks |
| Human Rights Management Re | inforcement | 1 | I | I |
| GRI 3: Material Topics 2021 | 3-3 | Management of material topics | nt of material topics 52 | |
| GRI 401: Employment | 401-1 | New employee hires and employee turnover | 71, 80, 89, 97, 105 | |
| GRI 40 I. EMPIOYMENT | 401-3 | Parental leave | 72, 81, 90, 97, 106 | |
| CDL/O/.T. | 404-1 | Average hours of training per year per employee | 72, 81, 90, 99, 106 | |
| GRI 404: Training and Education | 404-2 | Programs for upgrading employee skills and transition assistance programs | 53-56 | |
| GRI 405: Diversity and Equal | 405-1 | Diversity of governance bodies and employees | 71, 80, 89, 97, 105 | |
| Opportunity | 405-2 | Ratio of basic salary and remuneration of women to men | 71, 80, 89, 97, 105 | |
| GRI 406: Non-discrimination | 406-1 | Incidents of discrimination and corrective actions taken | 52, 70, 79, 87, 96, 104 | |
| GRI 407: Freedom of Association and Collective Bargaining | 407-1 | Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk | - | No business site subject to this index |
| GRI 408: Child Labor | 408-1 | Operations and suppliers at significant risk for incidents of child labor | - | No business site subject to this index |
| GRI 409: Forced or Compulsory Labor | 409-1 | Operations and suppliers at significant risk for incidents of forced or compulsory labor | - | No business site subject to this index |
| Resource Use Mitigation and Cir | rcular Economy | Establishment | | |
| GRI 3: Material Topics 2021 | 3-3 | Management of material topics | 51 | |
| GRI 301: Materials | 301-1 | Materials used by weight or volume | 75, 84, 93, 109 | |
| UNI JU I . IVIdLEI IdIS | 301-2 | Recycled input materials used | 75, 84, 93, 109 | |
| GRI 306 : Waste | 306-4 | Waste diverted from disposal | 75, 84, 93, 101, 109 | |

TCFD

Since 2015, nearly all nations have endorsed the Paris Agreement to set an emission reduction target and declare the commitment to implement a reduction goal against global warming. Additionally, the FSB (Financial Stability Board) has established the TCFD (Task Force on Climate-related Financial Disclosures) in December 2015 and developed a global framework for information disclosure in recognition of importance in economic decision-making against climate change. Within the framework, the disclosure is structured around four thematic areas that represent core elements of how organizations operate: governance, strategy, risk management, and metrics and targets. Companies may disclose their climate change-related financial information following the recommendations by TCFD, and the information is actively used for decision-making of stakeholders and investors. Hyosung and its four operating companies have overhauled their entire system to responsibility.

| TCFD Recommendations | | | | | |
|------------------------|---|--|--|--|--|
| | ⊗ | | | | |
| 1. Governance | Disclose the organization's governance around climate-related risks and opportunities | | | | |
| 2. Strategy | Disclose the actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning where such information is material. | | | | |
| 3. Risk Management | Disclose how the organization identifies, assesses, and manages climate-related risks. | | | | |
| 4. Metrics and Targets | Disclose the metrics and targets used to assess and manage relevant climate-related risks and opportunities where such information is material. | | | | |

TCFD Index

| Category | Index | Page |
|------------------------|---|------|
| Governance | Describe the board's oversight of climate-related risks and opportunities. | 20 |
| Governance | Describe management's role in assessing and managing climate-related risks and opportunities. | |
| | Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term. | |
| Strategy | Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning. | |
| | Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario. | - |
| | Describe the organization's processes for identifying and assessing climate-related risks. | |
| Risk Management | Describe the organization's processes for managing climate-related risks. | |
| Morrianagement | Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management. | |
| | Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process. | |
| Metrics and Targets | Disclose Scope 1, Scope 2 and, if appropriate, Scope 3 greenhouse gas (GHG) emissions and the related risks. | 25 |
| rai yets | Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets. | |

SASB

The Sustainability Accounting Standards Board (SASB) was established in 2011 to set up industry-specific sustainability accounting standards. SASB has identified financially relevant sustainability issues by taking into account the uniqueness and characteristics of each industry and published sustainability issues for 77 industries in 11 sectors in accordance with the Sustainable Industry Classification System (SICS). Hyosung and its four operating companies are following the SASB standards and the SICS industry classification to disclose relevant information through sustainability reports, and are engaging more actively with stakeholders.

Chemical

| Sustainability Disclosure Topics & Accounting Metrics | | | | | | | | | |
|--|--------------|---|--------------|-------------|------------------------------|---------------------|----------------|--|--|
| | | | | Page | | | | | |
| Topic | Code | Accounting Metric | Category | Hyosung TNC | Hyosung Advanced Material | Hyosung Chemical | Comments | | |
| GHG | RT-CH-110a.1 | Gross global Scope 1 emissions, percentage covered under emissions limiting regulations | Quantitative | 25 | 25 | 25 | | | |
| Emissions | RT-CH-110a.2 | Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets | Qualitative | 22-25 | 22-25 | 22-25 | | | |
| Air Quality | RT-CH-120a.1 | Air emissions of the following pollutants: (1) NOX (excluding N_2O), (2) SOX, (3) volatile organic compounds (VOCs), and (4) hazardous air pollutants (HAPs) | Quantitative | 83 | 101 | 108 | | | |
| Energy Management | RT-CH-130a.1 | (1) Total energy consumed, (2) percentage grid electricity, (3) percentage renewable, (4) total self-generated energy | Quantitative | 83 | 100 | 108 | | | |
| | RT-CH-140a.1 | (1) Total water withdrawn, (2) total water consumed, percentage of each in regions with High or Extremely High Baseline Water Stress | Quantitative | 84 | 102 | 109 | | | |
| Water Management | RT-CH-140a,2 | Number of incidents of non-compliance associated with water quality permits, standards, and regulations | Quantitative | 79 | 96 | 104 | | | |
| | RT-CH-140a.3 | Description of water management risks and discussion of strategies and practices to mitigate those risks | Qualitative | 49 | 49 | 49 | | | |
| Hazardous Waste Management | RT-CH-150a.1 | Amount of hazardous waste generated, percentage recycled | Quantitative | 84 | 102 | 109 | | | |
| Community Relations | RT-CH-210a.1 | Discussion of engagement processes to manage risks and opportunities associated with community interests | Qualitative | 57-59 | 57-59 | 57-59 | | | |
| Workforce | RT-CH-320a.1 | (1) Total recordable incident rate (TRIR) and (2) fatality rate for (a) direct employees and (b) contract employees | Quantitative | 82 | 98 | 107 | | | |
| Health & Safety | RT-CH-320a,2 | Description of efforts to assess, monitor, and reduce exposure of employees and contract workers to long term (chronic) health risks | Qualitative | 32-36 | 32-36 | 32-36 | | | |
| Product Design for Use-phase Efficiency | RT-CH-410a.1 | Revenue from products designed for use-phase resource efficiency | Quantitative | - | - | - | | | |
| Safety & Environmental Stewardship of | RT-CH-410b.1 | (1) Percentage of products that contain Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Category 1 and 2 Health and Environmental Hazardous Substances, (2) percentage of such products that have undergone a hazard assessment | Quantitative | - | - | - | Not applicable | | |
| Chemicals | RT-CH-410b.2 | Discussion of strategy to (1) manage chemicals of concern and (2) develop alternatives with reduced human and/or environmental impact | Qualitative | 48-49 | 48-49 | 48-49 | | | |
| Genetically Modified Organisms | RT-CH-410c.1 | Percentage of products by revenue that contain genetically modified organisms (GMOs) | Quantitative | - | - | - | Not applicable | | |
| Management of the Legal & Regulatory Environment | RT-CH-530a.1 | Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry | Qualitative | 48-49, 79 | 48-49, 96 | 48-49, 104 | | | |
| Operational Safety, Emergency Preparedness & | RT-CH-540a.1 | Process Safety Incidents Count (PSIC), Process Safety Total Incident Rate (PSTIR), and Process Safety Incident Severity Rate (PSISR) | Quantitative | 82 | - | 107 | | | |
| Response | RT-CH-540a.2 | Number of transport incidents | Quantitative | - | - | 107 | | | |

| Activity Metric | | | | | | |
|-----------------|----------------------------------|--------------|-------------|-------------------------------|---------------------|----------|
| | | | Page | | | |
| Code | Accounting Metric | Category | Hyosung TNC | Hyosung Advanced Materials | Hyosung Chemical | Comments |
| RT-CH-000,A | Production by reportable segment | Quantitative | 79 | 96 | 104 | |

Electrical & Electronic Equipment

| Sustainability Disclosure Topics & Accounting Metrics | | | | | | |
|---|------------------------|--|--------------|----------|-----------------------------|--|
| | | | Page | Comments | | |
| Topic | Code Accounting Metric | | Category | | Hyosung Heavy Industries | |
| Energy Management | RT-EE-130a.1 | (1) Total energy consumed, (2) percentage grid electricity and (3) percentage renewable | Quantitative | 92 | | |
| | RT-EE-150a.1 | Amount of hazardous waste generated, percentage recycled | Quantitative | 93 | | |
| Hazardous Waste Management | RT-EE-150a.2 | Number and aggregate quantity of reportable spills, quantity recovered (| | - | No significant spill cases | |
| Product Safety | RT-EE-250a.1 | Number of recalls issued, total units recalled | Quantitative | - | Not applicable | |
| Product Salety | RT-EE-250a.2 | Total amount of monetary losses as a result of legal proceedings associated with product safety | Quantitative | 87 | | |
| | RT-EE-410a.1 | Percentage of products by revenue that contain IEC 62474 declarable substances | Quantitative | - | Not applicable | |
| Product Lifecycle Management | RT-EE-410a.2 | Percentage of eligible products, by revenue, that meet ENERGY STAR® criteria | Quantitative | - | Not applicable | |
| J | RT-EE-410a.3 | Revenue from renewable energy-related and energy efficiency-related products | Quantitative | 88 | | |
| Materials Sourcing | RT-EE-440a.1 | Description of the management of risks associated with the use of critical materials | Qualitative | 34-35 | | |
| | RT-EE-510a.1 | Description of policies and practices for prevention of: (1) corruption and bribery and (2) anticompetitive behavior | Qualitative | 63 | | |
| Business Ethics | RT-EE-510a.2 | Total amount of monetary losses as a result of legal proceedings associated with bribery or corruption | Quantitative | 87 | | |
| | RT-EE-510a.3 | Total amount of monetary losses as a result of legal proceedings associated with anti-competitive behavior regulations | Quantitative | 87 | | |

| Activity Metric | | | | | |
|------------------------|--|--------------|-------------------------------|----------|--|
| Code Accounting Metric | | Category | Page Hyosung Heavy Industries | Comments | |
| RT-EE-000.A | Number of units produced by product category | Quantitative | 88 | | |
| RT-EE-000.B | Number of Employees | Quantitative | 89 | | |

Engineering & Construction

| | Sustainability Disclosure Topics & Accounting Metrics | | | | | | | |
|------------------------------------|---|---|--------------|-----------------------------|------------------------------|--|--|--|
| | | | | Page | | | | |
| Topic | Code | Accounting Metric | Category | Hyosung Heavy Industries | Comments | | | |
| Environmental Impacts of | IF-EN-160a.1 | Number of incidents of non-compliance with environmental permits, standards, and regulations | Quantitative | 87 | | | | |
| Project Development | IF-EN-160a.2 | Discussion of processes to assess and manage environmental risks associated with project design, siting, and construction | Qualitative | 28 | | | | |
| Structural | IF-EN-250a.1 | Amount of defect- and safety-related rework costs | Quantitative | - | Not applicable | | | |
| Integrity & Safety | IF-EN-250a.2 | Total amount of monetary losses as a result of legal proceedings associated with defect- and safety-related incidents | Quantitative | 87 | | | | |
| Workforce Health & Safety | IF-EN-320a.1 | (1) Total recordable incident rate (TRIR) and (2) fatality rate for (a) direct employees and (b) contract employees | Quantitative | 91 | | | | |
| Lifecycle Impacts of | IF-EN-410a.1 | Number of (1) commissioned projects certified to a third-party multi-attribute sustainability standard and (2) active projects seeking such certification | Quantitative | 88 | | | | |
| Buildings & Infrastructure | IF-EN-410a.2 | Discussion of process to incorporate operational-phase energy and water efficiency considerations into project planning and design | Qualitative | 10, 24, 28 | | | | |
| | IF-EN-410b.1 | Amount of backlog for (1) hydrocarbon-related projects and (2) renewable energy projects | Quantitative | 88 | | | | |
| Climate Impacts of Business Mix | IF-EN-410b.2 | Amount of backlog cancellations associated with hydrocarbon-related projects | Quantitative | 88 | | | | |
| | IF-EN-410b.3 | Amount of backlog for non-energy projects associated with climate change mitigation | Quantitative | 88 | | | | |
| | IF-EN-510a.1 | (1) Number of active projects and (2) backlog in countries that have the 20 lowest rankings in Transparency International's Corruption Perception Index | Quantitative | - | No related project available | | | |
| Business Ethics | IF-EN-510a.2 | Total amount of monetary losses as a result of legal proceedings associated with charges of (1) bribery or corruption and (2) anti-competitive practice | Quantitative | 87 | | | | |
| | IF-EN-510a.3 | Description of policies and practices for prevention of (1) bribery and corruption, and (2) anti-competitive behavior in the project bidding processes | Qualitative | 63 | | | | |

| Activity Metric | | | | | | | |
|-----------------|---------------------------------|--------------|-----------------------------|----------|--|--|--|
| Code | | | Page | | | | |
| | Accounting Metric | | Hyosung Heavy Industries | Comments | | | |
| IF-EN-000.A | Number of active projects | Quantitative | 88 | | | | |
| IF-EN-000.B | Number of commissioned projects | Quantitative | 88 | | | | |
| IF-EN-000.C | Total backlog | Quantitative | 88 | | | | |

Asset Management & Custody Activities

| Sustainability Disclosure Topics & Accounting Metrics | | | | | | | |
|---|------------------------|---|----------------------------|------------------------|-----------------|--|--|
| | | | | Page | | | |
| Topic | Code Accounting Metric | | Category | Hyosung Corporation | Comments | | |
| Transparent | FN-AC-270a.1 | (1) Number and (2) percentage of covered employees with a record of investment-related investigations, consumer-initiated complaints, private civil litigations, or other regulatory proceedings | Quantitative | - | *Not applicable | | |
| Information & Fair Advice for Customers | FN-AC-270a.2 | Total amount of monetary losses as a result of legal proceedings associated with marketing and communication of financial product-related information to new and returning customers | Quantitative | - | *Not applicable | | |
| | FN-AC-270a.3 | Description of approach to informing customers about products and services | Discussion and Analysis | - | *Not applicable | | |
| Employee Diversity & Inclusion | FN-AC-330a.1 | Percentage of gender and racial/ethnic group representation for (1) executive management, (2) non-executive management, (3) professionals, and (4) all other employees | Quantitative | 71 | | | |
| Incorporation of Environmental, Social, and | FN-AC-410a.1 | Amount of assets under management, by asset class, that employ (1) integration of environmental, social, and governance (ESG) issues, (2) sustainability themed investing, and (3) screening | Quantitative | - | *Not applicable | | |
| Governance Factors in Investment | FN-AC-410a.2 | Description of approach to incorporation of environmental, social, and governance (ESG) factors in investment and/or wealth management processes and strategies | Discussion and Analysis | - | *Not applicable | | |
| Management & Advisory | FN-AC-410a.3 | Description of proxy voting and investee engagement policies and procedures | Discussion and Analysis | - | *Not applicable | | |
| Business Ethics | FN-AC-510a.1 | Total amount of monetary losses as a result of legal proceedings associated with fraud, insider trading, anti-trust, anti-competitive behavior, market manipulation, malpractice, or other related financial industry laws or regulations | Quantitative | 63 | | | |
| | FN-AC-510a.2 | Description of whistleblower policies and procedures | Discussion and Analysis | - | *Not applicable | | |

| Activity Metric | | | | | | |
|-----------------|--|--------------|------------------------|-----------------|--|--|
| Code | Accounting Metric | Category | Page | Comments | | |
| | | | Hyosung Corporation | | | |
| FN-AC-000.A | Total assets under management (AUM) | Quantitative | - | *Not applicable | | |
| FN-AC-000.B | Total assets under custody and supervision | Quantitative | - | *Not applicable | | |

^{*}Hyosung Corporation is the holding company of Hyosung. Since it is not a general financial holding company, financial indicators are not applicable.

UN SDGs (UN Sustainable Development Goals)

Hyosung aims to provide differentiated value by identifying the major interests of all internal and external stakeholders and developing a communication strategy. We select stakeholders who have a significant impact on our business and analyzes opportunities and threats through various communication channels established for each stakeholder. We are committed to demonstrating sincerity throughout our management, from offering products and services that balance economic and social values, to ensuring sustainable supply chain management, protecting human rights and the environment in its business sites, collaborating with suppliers, and engaging in social contribution activities that foster sharing with the local community. On the foundation of this, Hyosung listens attentively to the feedback of stakeholders and incorporates it into its management activities.

| Makarial lasus | UN SDGs | | | Our Responses | | |
|---|---|---|---|--|--|--|
| Material Issue | UN SDGS | Hyosung Corporation | Hyosung TNC | Hyosung Heavy Industries | Hyosung Advanced Materials | Hyosung Chemical |
| 1) Climate Change Response | 13 == | Application of TCFD recommendations Establishment of a climate change response system Establishment of a climate change response strategy Participation in Carbon Disclosure Project (CDP) | Carbon footprint calculation of products Expansion of facility investments for GHG mitigation | Receiving orders for transmission and distribution system for new and renewable energy Expansion of new and renewable energy business | Expansion of products / regions subject to carbon labeling certification Establishment of a climate change response system for global business sites Deliberation on joining SBTi | Expansion of facility investments for GHG mitigation |
| 2) Green Business | 9 11 12 12 13 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15 | Building a green portfolio | Development of regen Bio-Based Spandex Expansion of regen recycled fiber portfolio | Expansion of hydrogen fueling stations and development of supply technology Development of eco-friendly power equipment | Development of nature-derived materials (Bio-PET) Development of recycled materials and expansion of supply | Production of eco-friendly ENPLA new material polyketone |
| 3) Health and Safety at Business Sites | 12 strong at states. | Reinforcing safety and health system | Enhancing safety inspection activities Expansion of safety education and training | Establishment of 4 key tasks and 10 safety action items | Reorganization of safety and health disaster system Establishment of 5 implementation directions | Establishment of the EHS Committee Reinforcing safety and health of partner companies |
| 4) Economic Performance | 8 ====== | Continuous overseas market development Localization strategy targeting the global market and ma Securing differentiated competitiveness through global p Expansion of investment in equipment and facilities for g | production system | | | |
| 5) Product Safety & Quality, and Customer Satisfaction | 9====================================== | Establishment of C-Cube execution system C-Cube activity DNA | Quality improvement and safety certifications acquisition Brand launch reflecting Voice Of Customers (VOC) | Establishment of the Global Management System (GMS) Product development reflecting Voice Of Customers (VOC) | Advancement of C-Cube activities Acquisition of quality management certifications Hazardous chemical analysis Product development reflecting Voice Of Customers (VOC) | Acquisition of certifications related to quality and safety Product development reflecting Voice Of Customers (VOC) |
| 6) Sustainable Supply Chain Establishment | 8 ======= 112 ===== CO | Reinforcing the risk management system of suppliers Establishment of mutual growth promotion system | Strengthen supplier registration evaluation and supply chain risk management Supporting suppliers to strengthen their competitiveness | Reinforcing the risk evaluation system of suppliers Enhancing mutual growth programs | Expanding the risk management scope of suppliers and strengthening regular evaluations Enhancing mutual growth programs Fostering small companies with carbon-related capabilities | Registration and evaluation of suppliers and reinforcement of supply chain risk management Enhancing mutual growth programs |
| 7) Securing New Growth Engines & Business Diversification | 9==== 11=== 12 13 13 13 14 14 15 15 15 15 15 15 | Expansion of global production bases Reinforcing R&D organizational system | Plant extension in Türkiye(Turkey) and Brazil, Expansion of investment in China Research and development of green and new materials, various new technologies, etc. | Expansion of entry into overseas markets for power equipment Research and development of green and new materials, various new technologies, etc. | Expansion of cooperation with major global automakers Expansion of carbon fiber facilities Research and development of green and new materials, various new technologies, etc. | Expansion of Hyosung Vina Chemicals' production facilities Research and development of green and new materials, various new technologies, etc. |
| 8) Ethics / Compliance Management | 16 manus Y | Enactment and revision of Ethical Policies, including the Code of Ethics and human rights management Reinforcing company-wide ethical standards such as employee embezzlement and breach of trust, protection of whistleblowers | Operation of ethical management communication chann Strengthening internal monitoring and follow-up manage Conduct ethical management education for employees | | | |
| 9) Integrated Risk Management | 17 ==== © | Strengthening the risk management system Identification of major risks and implementation of mana Regular measurement, evaluation, and hedging of financ Non-financial risk assessment and reporting, and implem | ial risks | | | |
| 10) Pollutant Management (Water, Air, Waste, and Soil) | 6 mmm. 14 mm. 15 mm. | Establishment of environmental management policies | Expansion of using new and renewable energy Energy-saving efforts | Development of GHG alternative technologies Energy-saving efforts | Expansion of overseas subsidiaries subject to GHG calculation Energy saving and expansion of using renewable energy | Expansion of using new and renewable energy Energy-saving efforts |
| 11) Human Rights Management Reinforcement | 5 == 10 === <\(\frac{1}{2}\) | Conducting of human rights impact assessment Development and implementation of countermeasures f Human rights education for employees | or each potential risk type identified | | | |
| 12) Resource Use Mitigation and Circular Economy Establishment | 12 | Establishment of company-wide resource circulation process | Waste sludge recycling Product development using waste resources such as waste PET bottles | Development and demonstration of fusion hydrogen fueling station technologies using biogas generated from food waste treatment plants | Consigned recycling of waste sludge, waste synthetic fibers, waste organic solvents, and waste wood Expansion of products applied with green materials, such as recycled polyester and Bio-PET | Implementation of the Post Consumer Recycled (PCR) business recycling discarded plastics |