

ABOUT THIS REPORT

Reporting Principles

This Report was prepared in accordance with the Global Reporting Initiative (GRI) Standards: Core Option, and discloses a range of sustainability data in reflection of the Industry Classification System of the Sustainability Accounting Standards Board (SASB) and the recommendations of the Task Force on Climate-related Financial Disclosure (TCFD).

Reporting Period

This Report illustrates Samsung SDI's sustainability management activities and achievements during the 2021 fiscal year (Jan. 1, 2021 ~ Dec. 31, 2021). This may extend to the first half of 2022 for the timeliness and materiality of the information contained, and to the recent three years (2019~2021) for some data whose multi-year trajectory is required to help readers properly understand such data.

Reporting Scope

The scope of this Report spans the economic, social and environmental information of Samsung SDI and its associates. Financial data is stated on a consolidated basis in accordance with K-IFRS, and annotations were added when variations occurred in reporting scope and boundary.

Reliability of the Report

This Report contains financial data audited by KPMG Samjong Accounting Corp., as well as non-financial data assured by the Korea Management Registrar for its compliance with the principles of inclusivity, materiality, responsiveness and impact.

Reporting Cycle

Reporting cycle | Annually Most recent report | June 2021

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CEO's Message

Dear Stakeholders of Samsung SDI,

Let me begin by saying that it has been my absolute honor to serve as the new CEO of Samsung SDI since December 2021 to lead the Company's battery and electronic materials businesses which are garnering much attention as future growth drivers.

Certainly, the business environment in 2021 presented us with especially turbulent circumstances - characterized by the continued COVID-19 pandemic from the previous year, immense disruptions in the supply and demand of raw materials and logistics, volatile international politics, and the formation of regional blocs across the global economy.

Nevertheless, we reached a remarkably significant milestone as our operating income surpassed KRW 1 trillion for the first time in Samsung SDI's history based on the full-fledged growth of the EV market, the expanding power tool and personal mobility markets, and the growing renewable energy power generation market.

The fundamental nature of our business lies in securing mid/long-term contracts and delivering top-notch technology. This means that we need to focus less on the quick finish line as sprinters do in a race and more on the distant horizon as marathoners.

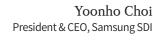
Therefore, we have committed ourselves to achieving profitable qualitative growth based on 'Super-gap' technology competitiveness and the best quality with the ultimate goal to solidify our position as a global top-tier company by 2030.

In addition to this, we have taken keen notice of ESG management as a key strategic pillar for our future growth. Earlier this year, we created a new vision for our ESG management along with our mid/long-term strategy, and strengthened the Sustainability Management Operational Framework by organizing the Sustainability Management Committee under the Board of Directors and the Sustainability Management Council led by the CEO.

We will do our utmost to provide a safe work environment where each and every employee is able to unleash his or her full potential. We also vow to fulfill our social responsibility for the environment, safety, and compliance, and to boost mutually beneficial cooperation with our business partners while aligning our CSR initiatives to promote harmony and trust with the communities where we operate. By reaching ever closer to our stakeholders through authentic communication, we will take our sustainability management to new heights.

We look forward to your plentiful encouragement and support as we pursue this relentless journey to push the boundary and forge ahead towards the true No.1 position in the market.

Thank you.





CEO's Message

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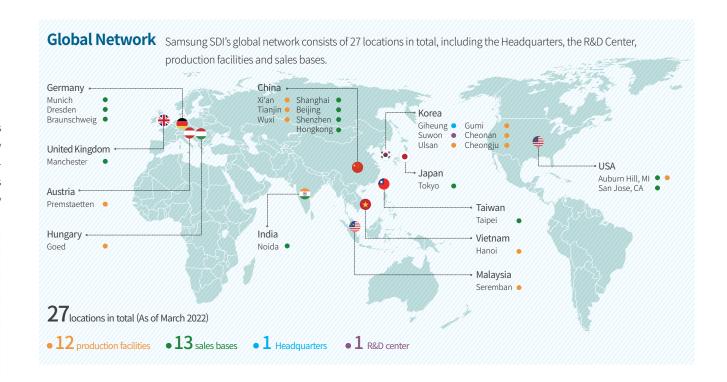
Business Overview

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Samsung SDI at a Glance

Since its foundation back in 1970, Samsung SDI produces and sells rechargeable batteries used for electric vehicle, IT device, and Energy Storage System (ESS) applications as well as materials for semiconductors and displays. We are committed to building new growth drivers through transformation and innovation to emerge as a 'Creative Energy and Materials Solution Leader'.

Company name	Samsung SDI Co., Ltd						
CEO	Yoonho Choi	Establishment	January 1970				
Headquarters	150-20, Gongse-ro, Giheung-gu, Yongin City, Gyeonggi Province, Korea						
Total No. of shares o	Total No. of shares outstanding (common shares) 68,764,530 shares						
Shareholders with 5% or more ownership (as of Dec. 31, 2021, common shares)	Samsung Electronics: 13,462,673 shares (19.58%) National Pension Service: 5,495,966 shares (7.99%) BlacKRock Fund Advisors: 3,518,195 shares (5.12%)						



Financial Performance

(on a consolidated basis, unit: KRW 100 million)



External Sustainability Assessments Made on Samsung SDI



Received A in ESG rating in 2022 for 3 consecutive years

Member of 2)
Dow Jones
Sustainability Indices
Powered by the S&P Global CSA

Listed on the DJSI World for the 17th time in 2021



2021 Climate Change Score: B

GLOBAL100⁴⁾

Ranked 46th in 2022, listed for 5 consecutive years

CLEAN200°

Ranked 35th in 2022, listed for 4 consecutive years

- 1) Supervised by MSCI(Morgan Stanley Capital International)
- 2) Supervised by S&P Dow Jones and RobecoSAM
- 3) Supervised by the CDP(Carbon Disclosure Project)
- 4), 5) Supervised by Corporate Knights

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Automotive Battery

Business Summary

In line with the increasing global penetration of xEVs, Samsung SDI remains front and center in leading innovative battery technology development.

On the back of our industry-leading battery technology, we ensure xEVs travel farther while developing low-carbon eco-friendly xEV batteries to position ourselves as a leading provider of clean energy solutions. By supplying high-efficiency, high-capacity Li-ion batteries to global automobile OEMs, we help minimize the environmental impact generated by internal combustion engine vehicles.

Application



Electric Vehicle (EV) We deploy materials that deliver optimal service life and high-capacity features and design optimized battery components to pursue innovation in extending the driving range of EVs.



Plug-in Hybrid Electric Vehicle (PHEV) As it is essential to strike the right balance between energy density required for electric-mode driving and power density that supports the engine operation, we are in constant search for the optimal point of balance by staying ahead of the competition in developing battery technology.



Hybrid Electric Vehicle (HEV) We continuously develop technology to reduce costs and improve productivity while delivering improved fuel efficiency and vehicle performance.



Mild Hybrid Electric Vehicle¹⁾ (Mild HEV) We continue to develop solutions to improve fuel efficiency and vehicle performance for a wide array of vehicle types.

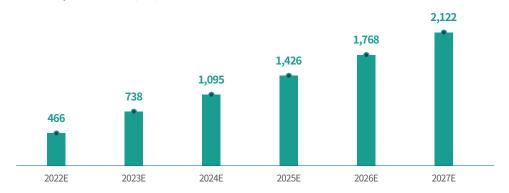
1) Combine the strengths of the Idle Stop and Go (ISG) system and hybrid vehicles by maintaining the voltage of the power supply equipment under 60V

Market Outlook

While the sustained COVID-19 pandemic and the shortage of automotive semiconductors held back the overall automotive market, xEV sales posted high growth mainly in Europe. Amid tightening environmental regulations and OEMs launching new xEV models, the global xEV sales surged by over 100% year-on-year. As more xEVs will make their debut with an extended driving range and more desirable features, xEV sales will be driven by those models equipped with fast-charging and even autonomous driving capabilities. By 2027, annual xEV sales is forecast to exceed 30 million²⁾ to account for approximately 30% of the total automobile market.

Global xEV Battery Demand Outlook2)

■ xEV battery demand outlook (GWh)



2) EV and PHEV combined *Source: IHS Markit data

CEO's Message

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Energy Storage System

Business Summary

Samsung SDI has engaged in ESS business since 2011. We post high market shares and deliver top-notch product quality by harnessing the safety of our rechargeable batteries achieved in small-sized battery business and our technology and manufacturing process tested and proven in EV battery business for ESS applications. Our products serve a broad range of applications across the utility, commercial & industrial, residential, UPS and telecom sectors on the strength of globally-recognized battery design capabilities and standardized modules to deliver end-to-end ESS solutions that cater to diverse customer needs.

Application



Utility We contribute to ensuring the stability of power grids in the power supply system spanning from power generation to transmission and distribution, and to standardizing renewable energy power generation. Installation | Power companies, microgrids within industrial complexes, etc.



Commercial & Industrial (C&I) We improve the stability of power operation and the availability of self-consumption by lowering day-time maximum loads in commercial buildings including office spaces, public institutions, schools and hospitals. Installation | Buildings, factories, etc.



Residential We ensure 24/7 supply of eco-friendly energy through alignment with photovoltaic(PV) power systems. This in turn increases residential energy self-consumption rates while reducing electric bills. Installation | Detached and row houses



UPS We help protect data centers from unexpected operational disruptions by ensuring reliable power quality and continuity while minimizing total power consumption and reducing facility investments. Installation | Factories, financial institutions, IT companies (servers), etc.



Telecom We deliver lifetime performance as well as reduced weight, smaller volume and higher energy density, and bring a dramatic reduction in maintenance expenses through the use of batteries.

Installation | Base stations, repeaters

Market Outlook

In line with the increasing frequency of abnormal weather events caused by global warming, activities are rising globally to reduce carbon emissions. Countries around the world have set their 'carbon neutrality' goals and are increasing their renewable energy power generation and use. This is expected to boost demand for ESS installations as an essential component for energy supply/demand management.

The ESS market is growing in the US, China and Europe where governments take the lead in driving green policies. Such eco-friendly energy policies are undertaken at full scale in the US under its 'Build Back Better' initiative which includes investment related to renewable energy power grids while China set its ESS installation target through the national economic development roadmap, and Europe is pushing forward with its 'Fit for 55' package which set an ambitious carbon emissions reduction goal. The ESS market is also boosting in Korea and other emerging markets with a focus on large-scale power applications, and the market is set to expand to include residential and UPS applications. The global battery-powered ESS market is forecast to maintain a CAGR of 29%, growing from 65GWh in 2022 to 231GWh in 2027.

Global LiB-ESS Demand Outlook

- Ratio of LiB-ESS(%)
- Total ESS demand outlook (GWh)
- LiB-ESS demand outlook (GWh)



*Source: SNE Research (published in Apr. 2022)



Small-Sized Li-ion Battery

Business Summary

Samsung SDI develops and sells small-sized Li-ion batteries primarily in three forms – cylindrical, prismatic, and pouch. Notably, we are a recognized leader in the IT devices sector associated with 5G communication and Internet of Things (IoT) as well as the eco-friendly, high-efficiency power application sector that is growing in line with tightening environmental regulations and consumer preferences for environmental protection. We tirelessly pursue technology innovation with our quality-first management philosophy, and maintain high market shares in the global small-sized Li-ion battery market.

Application

Small-sized Li-ion batteries are categorized into batteries that power the three major IT devices of mobile phones, laptops and tablets as well as wireless earbuds and to batteries that supply power to power tools, e-bikes and e-scooters.



Cylindrical Power tools, gardening tools, vacuum cleaners, e-bikes, e-scooters



Pouch Smartphones, tablets, wearables, wireless earbuds

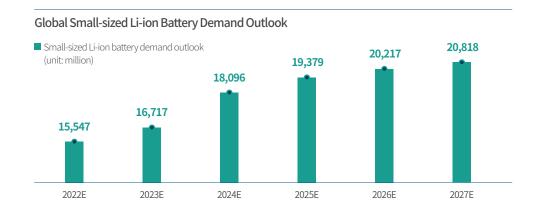


Prismatic Feature phones, smartphones, laptops, mobile gaming devices

Market Outlook

In the face of uncertainties in the market which sustained amid the prolonged COVID-19, the small-sized Li-ion battery demand is forecast to reach 15.5 billion cells in 2022, up by 20% from the previous year. While the growth of the three main devices – mobile phones, laptops, and tablets – starts to slow down in the IT market, overall demand is set to grow steadily along with the increased application of IoT technology that combines AI and 5G services and the rising demand for wireless earbuds and other wearables.

In the power application sector, the growth of cylindrical batteries will be boosted by the increasing EV production of EV startups and traditional automobile OEMs, the rising demand for micro-mobility including e-bikes and e-scooters mainly in Europe, and the increasing demand for power tools in the US. In response to such market growth, we will position ourselves as a leader of innovative battery technology across all IT and power applications to drive the global small-size Li-ion battery market.



¹⁾ Based on demand in our 2022 business plan

^{*}Source: Samsung SDI forecast (as of Oct. 2021)

CEO's Message

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Business Summary

Since the development of EMCs for the semiconductor manufacturing process in 1994, we have pursued innovation in the electronic materials sector. We develop and sell semiconductor and display materials, and remain committed to reinforcing our leadership in the conventional semiconductor and LCD markets while positioning ourselves as a market-leading company in the QD, OLED, EUV and other next-generation cutting-edge materials sectors.

Application



Semiconductor We produce patterning materials (SOH, SOD, and slurry) used to form semiconductor wafer patterns as well as packaging materials (EMC) that protect semiconductors and chips from the external environment.



Display Our electronic materials are mainly adopted for LCD, OLED and other display panels. These materials are sold in the form of films or base composite materials, and include films such as POL (polarizing film), FOCA and process materials such as OLED materials and color Photo Resist (color PR).





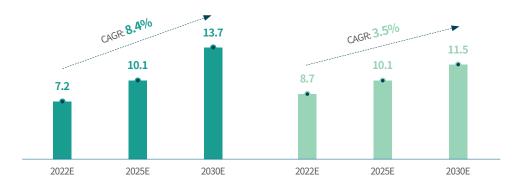
Market Outlook

In the New Normal era brought by COVID-19, 'contactless' has become a part of daily lives and this may cause significant change across markets associated with the electronic materials business. The semiconductor market is expected to witness steady growth in bit demand along with the metaverse and the wider adoption of 5G services in emerging countries. This will result in a 15% or more y-o-y increase in wafer input and the growth of related material sectors. In the display market, the area-based growth will continue with LCD products increasingly becoming large-sized. Meanwhile, the broader adoption of OLED for laptops, tablets, and other diverse IT devices as well as mobile and TV applications will drive the overall display market.

Outlook on the Electronic Materials Market with Samsung SDI's Presence

(unit: USD billion)

- Semiconductor materials
- Display materials



^{*}Source: Samsung SDI forecasts (as of Oct. 2021)

CEO's Message

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2021 Business Highlight

Launching Battery Brand 'PRiMX'

Providing the best experience to customers with the top-quality battery

In December 2021, Samsung SDI unveiled its next-generation battery brand 'PRIMX', which stands for 'Prime Battery for Maximum Experience.'

The brand was developed under three keywords, 'The Safest and most reliable Quality', 'Outstanding Performance with high-capacity technology,' and 'Proven Advantage with super-fast charging technology and super-long lifespan'.



Automotive Battery

Establishing an EV joint venture with Stellantis

In October 2021, Samsung SDI announced a next-generation prismatic battery production plan in conjunction with the automotive OEM Stellantis, and signed an agreement to establish a joint venture in May 2022.

The joint venture will start the production line as of the first quarter in 2025. While cells and modules for the EV battery will be produced with the capacity of 23GWh a year initially, it will be extended to 33GWh a year.



Energy Storage System

Maintaining ESS market leadership with solutions that deliver improved safety and system competitiveness

We have enhanced ESS products' safety by adopting direct injection fire extinguishing technology to prevent the spread of fires.

This technology aims to extinguish at an early stage(maximizing the effect of cooling fire extinguishment) by spraying a fire extinguishing agent on cells where a fire is detected to break out.



Small-Sized Li-ion Battery

Reaching an all-time high in small-sized Li-ion battery sales in 2021

Our small-sized Li-ion battery business reached an all-time high in sales in 2021, buoyed by the growing demand for cylindrical batteries across the power tool, micro-mobility, and EV sectors in the face of the global logistics disruptions caused by the protracted COVID-19.

Electronic Materials

<u>Developing and initiating the</u> <u>mass-production of QD Ink for</u> <u>QD displays</u>

We have successfully developed and initiated the mass-production of QD Ink, a novel material that determines the ultra-wide-color gamut and brightness of next-generation premium TV panels.





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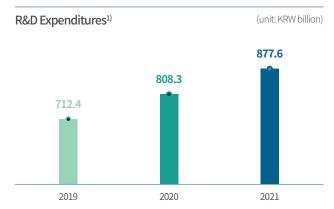
R&D Expenditures

877.6 Billion KRW

R&D

R&D Approach

The eco-friendliness of the battery industry and the safety performance of battery are gaining importance in line with the expansion of battery applications. Samsung SDI is building differentiated technology competitiveness to emerge as a leading total solution provider of world-class eco-friendly materials and energy, with a focus on the battery, IT devices, and semiconductor/display electronic materials sectors. We also engage in R&D to move ahead in embracing new products and technologies, and remain committed to securing future growth drivers while setting the trend in the rapidly-shifting technology landscape.

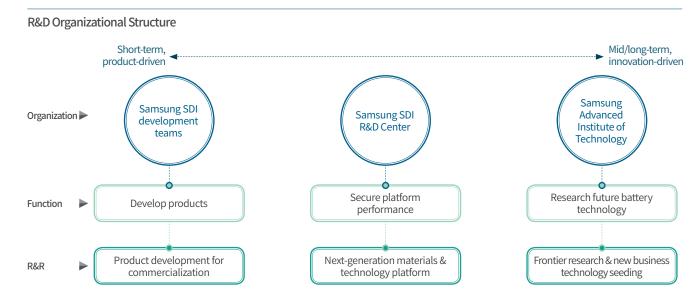


1) Excluding governmental subsidies, on a consolidated basis

R&D Organizational System

Samsung SDI operates the Samsung SDI R&D Center tasked with establishing platform performance as well as R&D organizations within respective business divisions to reinforce its global technology leadership through close collaboration across business divisions. As to battery, the characteristics of materials significantly affect product performance spanning energy density, cycle life and power, and materials account for a large share of total costs, which underscores the importance of competitive materials.

Our Battery Business and Automotive and ESS Business departments are located at the Giheung worksite to improve efficiency in battery development. The Electronic Materials Business has moved into the Samsung Future Technology Campus, which serves as Samsung Electronics' Materials Research Complex, to generate synergy through joint material R&D endeavors. We are also bolstering our research on material recycling to reinforce our expertise in battery material R&D and ensure stability in material supply and demand, further advancing ESG management in the process.



CEO's Message Company Overview

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Patents registered in Korea and overseas (cumulative) 17.735

Open Innovation

We engage in industry-academia cooperation with external institutions and prestigious universities in Korea and abroad to bolster our next-generation technology capabilities while contributing to nurture talented individuals in the industry. In particular, strategic industry-academia partnership programs have been undertaken to secure next-generation battery technology.

The first such program implemented between 2016 and 2021 was joined by Seoul National University, POS-TECH, Hanyang University, Sungkyunkwan University, and UNIST and the second program to span the period between 2022 and 2026 has added KAIST to the five existing partners. In addition, we continue to team up with universities leading in battery research in Korea and abroad to set us apart from the competition in developing battery technology. Going forward, we will further expand the scope of such collaboration.

All-Solid-State Battery

We are developing all-solid-state batteries which deploy solid electrolytes in place of liquid ones normally adopted for conventional batteries to improve both battery safety and usage time.

Over the years, we have successfully designed and synthesized solid-state electrolytes and unveiled all-solid-state battery prototypes, pioneering technology development in this specific sector. Our independently-developed lithium-metal anode-free cell architecture also demonstrates best-in-industry energy density and exceptional safety, and was featured in the world-renowned academic journal 'Nature Energy' in March 2020. In March 2022, we broke ground for the construction of the S-Line, our 6,500 m²-size pilot line for all-solid-state battery production. The S-Line will be equipped with facilities dedicated to all-solid-state battery manufacturing to demonstrate our production technology, and will drive our efforts to translate our industry-leading all-solid-state battery research outcomes into production technology.

Cobalt-free Battery

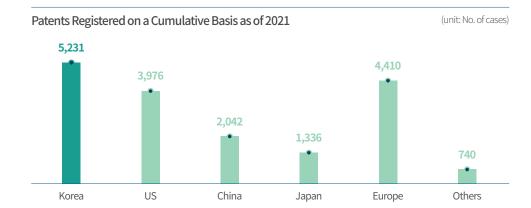
While cobalt, one of the key raw materials for battery production, plays a pivotal role in ensuring battery safety and performance, this brings risks in raw material supply/demand due to its high prices and geographically-concentrated reserves. This prompted us at Samsung SDI to engage in research with a goal of developing cathode materials with reduced cobalt content or are cobalt-free for our high-capacity battery production.

NMX is the name of the material we are exploring to retain the strengths and basic properties of existing cathode materials to the fullest possible extent. NMX materials which do not contain cobalt metals are eco-friendly and price-competitive while mitigating raw material supply/demand risks. Our goal is to apply NMX materials to battery mass-production as soon as possible to establish our competitive edge in the EV and ESS battery market.

Patent Management

Samsung SDI has 5,231 and 12,504 patents registered in Korea and overseas respectively (as of Dec. 2021), which testifies to its commitment to building technology development capabilities in the ever-changing business landscape. Our patent pools spans all our business areas, from materials that are at the core of our battery and electronic materials business to equipment and product application technologies, with a view to safeguarding our technology from competitors and materials/parts suppliers.

In developing new products, we conduct prior research and analyses on the patents issued by competitors and/or materials/parts suppliers to develop products free from risk of patent infringement and deliver such products to customers. In so doing, we ensure that both Samsung SDI and customers will be able to reliably conduct business without being involved in any unnecessary patent disputes.





Sustainability Management Strategic Framework 1

Sustainability Management Operational Framework 17

Environmental Management Implementation System 18

Risk Management System 19

Sustainability Management Operational Framework

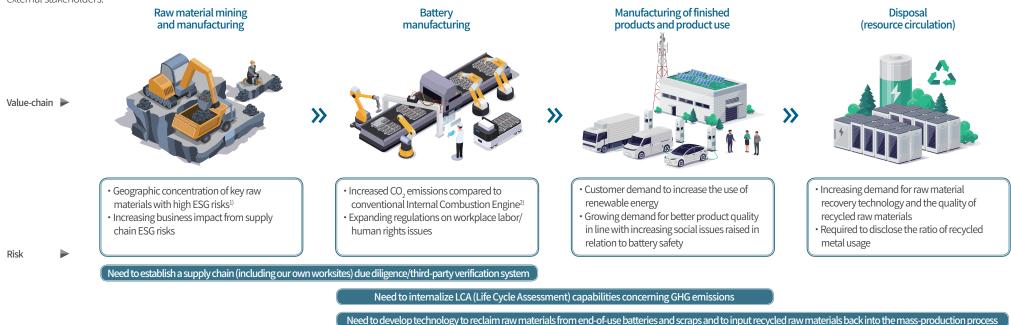
Environmental Management Implementation System

Risk Management System

Sustainability Management Strategic Framework

Managing Our Value Chain from the ESG Viewpoint

Conducting rechargeable battery business is associated with a plethora of ESG issues across the entire value chain. This presents both opportunities to create eco-friendly value in the product use phase and non-financial risks that may occur in other phases of the value chain. To respond to such risks and opportunities, Samsung SDI establishes and implements its sustainability management strategy to consistently deliver greater value to internal and external stakeholders.



Opportunity >

 Use products as a key tool to create a net-zero society through increased global demand for eco-friendly mobility and the expanded ESS installations for energy supply/demand management

 Reduce raw material costs by establishing a scrap recovery system and end-of-life batteries closed-loop process

Sustainability Management Strategic Framework

Sustainability Management Operational Framework

Environmental Management Implementation System

Risk Management System

Sustainability Management Strategic Framework

Sustainability Management Strategic Framework

In March 2022, Samsung SDI established a new sustainability management strategic framework to reach the vision of 'Super-gap ESG IMPACT Leader in Energy & Materials Solution'.

Samsung SDI's Sustainability Management Strategic Framework Corporate · Super-gap **ESG IMPACT** Leader business Vision aspiration BUILT-IN LOCK-IN WITH-IN Standards for employee's decision-Strengthen value chain Create sustainable social Improve quality Approach making competitiveness through partnerships through ESG value through and business stakeholder-centered environmental & social dissemination conduct value embedded into along supply management products Vove to Net-Zero Partnership with nfinite Safety Credibility in Accountability in ransparency in Stakeholder **Value-Chain Partners** Value-Chain Corporate Engagement and Community Governance Areas of Action to Attain the Vision and Strategic Action for Value-Chain SCM Risk Transparent Advanced BOD **Product Safety Approaches** Climate Crisis Partnership Management Disclosure Togetherness with Labor/Human Proactive People Safety Circular Economy Ethics & Compliance Community Rights Communication

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OVERVIEW

Environmental Management Implementation System

Risk Management System

Sustainability Management Strategic Framework

Strategic Approach to Sustainability Management

To bolster our business competitive edge both from business and social aspects, we have set the three strategic approaches of 'improving quality competitiveness', 'strengthening value-chain partnerships', and 'advancing stakeholder-driven management'. Specifically, we defined the slogans of 'BUILT-IN', 'LOCK-IN', and 'WITH-IN' with 'IN' as the keyword to embed sustainability into our work methods and share the meaning of strategic approaches with internal and external stakeholders.

"Internalization" (IN) of sustainable management strategic approach contributing to bolstering business competitive edge



Focus Areas of Sustainability Management

Focus areas represent the top priority areas we should consider in our internalization efforts, and correspond to sustainability management activity areas that contribute to building our future competitiveness in the battery industry. We defined six focus areas and 12 specific issues based on their business relevance and urgency among others, and created our own distinctive sustainability management brand 'IMPACT' to embody our commitment to deliver positive impact to stakeholders in each of the following focus areas.

"Positive Impact" (IMPACT) delivered to stakeholders through sustainable management



Stakeholder Value Creation



Bolster business competitiveness through increased ESG management performance and quality capabilities



Improve the protection of human rights and the quality of life through workplace



Enhance product safety, eco-friendliness and other quality aspects



Revitalize the local economy and prevent adverse environmental impact



Increase shareholder return through improved business competitiveness and corporate value

17

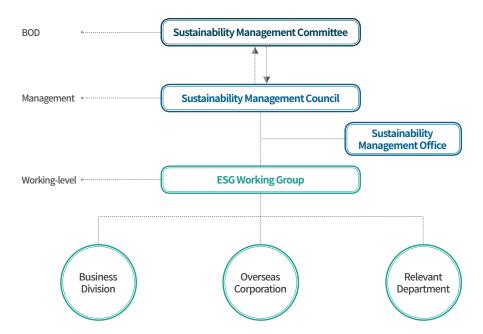
Risk Management System

Sustainability Management Operational Framework

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Sustainability Management Operational Framework

In January 2022, Samsung SDI launched the 'Sustainability Management Committee' under the Board of Directors, and reorganized the ESG Strategy Group under the Planning Team into 'Sustainability Management Office' under the direct leadership of the CFO to bolster its company-wide sustainability management governance. The 'Sustainability Management Council' was also created as a C-level consultative body led by the CEO to reinforce senior management's role in sustainability management, along with the 'ESG Working Group' formed among respective business divisions, overseas corporations and relevant departments to respond to sustainability management tasks and facilitate communication at the working level. The Sustainability Management Office will closely communicate with the ESG Working Group to assist Samsung SDI in implementing its sustainability management strategies.



Chair of the Sustainability Management Committee Duk Hyun Kim

As the framework act on carbon neutrality and green growth was announced and enforced to respond to climate change. this urges us all to take action towards carbon neutrality, and businesses have become an agent of this transition as they advance ESG management to fulfill social responsibility and pursue transparency. To ensure sustainable production and consumption, all members of Samsung SDI need to recognize the importance of ESG and take impactful action.

We will fully commit ourselves to fulfill our social responsibility towards future generations and the planet earth. CFO and Head of the Sustainability Management Office Jong Sung Kim

ESG management is no longer an option but an imperative. As such, Samsung SDI will recognize ESG management as a key strategic pillar for its business growth, and take a more proactive and preemptive approach to sustainability management

In the Environmental area, we will achieve 100% transition to renewable energy, reduce GHG emissions, expand battery recycling, and minimize the landfill of waste generated from our worksites. In the Social area, we will responsibly source minerals, establish a system to respond to EU's supply chain due diligence directive, and expand our CSR programs. In the Governance area, we will continue to advance our Board of Directors from the aspects of diversity, expertise and independence.

With the strong belief that any cost that incurs for ESG management is not merely cost but investment for our future. we will do our utmost to bolster our ESG management.

Sustainability Management Strategic Framework

Sustainability Management Operational Framework

Environmental Management Implementation System

Risk Management System

Environment Management Implementation System

Environment Management Implementation System

For businesses, environment management is never a choice but their fundamental responsibility to contribute to humanity and an agenda that warrants their proactive response to build sustainable future competitiveness. Samsung SDI is keenly aware of the severity of climate change and environmental crisis, and selected 'Proactive response to climate-crisis' as the key strategy of its environmental management to join in the effort to tackle these challenges. This focus area was categorized into the two themes of action for climate crisis and circular economy and a total of six tasks were identified and work is underway to implement these tasks.

Samsung SDI's Environment Management: Proactive response to climate-crisis **Action for Climate Crisis** Circulation of Materials 2 Themes 100% Transition to Renewable Energy Reclaim resources through battery recycling Fully shift to renewable energy power for all 2025: 42% 2022: Malaysia, Hungary Establish a closed-loop system for process worksites by 2050 through the increased use 2030:65% • 2023: China scraps and end-of-life batteries of renewable energy at key locations · 2050: 100% • 2025: US **Reduce GHG emissions** Increase recycling in the workplace • 2021: 603m³/KRW 100 million (0.3 tCO₂e reduced) Reduce direct GHG emissions by improving Minimize the landfill of waste generated 2023: Platinum for domestic worksites, and 2030: 513m³/KRW 100 million (55,000 tCO₂e reduced) on the LNG use intensity from the workplace Gold for overseas worksites 2050: 301m³/KRW 100 million (340,000 tCO₂e reduced) 6 Tasks 2021: 55.5 m³/KRW 100 million 2022: 2 products Launch more products with carbon Reduce intensity-based water consumption by 2023: 6 products (4 added) • 2030: 41.2 m³/KRW 100 million footprint certificate lowering withdrawal and increasing reuse • 2050: 27.8m³/KRW 100 million 2024: 10 products (4 added) Shift to zero-emission vehicles for all business vehicles Minimize the consumption of single-use products · 2022: Reduce in-house consumption of single-Make a 100% switch to zero-emission vehicles use products and plastics to zero Reduce the use of single-use products and 2025: 36% powered by Samsung SDI batteries for business · 2023: Reduce the consumption of single-2030: 100% plastics to zero use products and plastics by 50% for vehicles by 2030 companies operating at worksites

Sustainability Management Strategic Framework

Sustainability Management Operational Framework

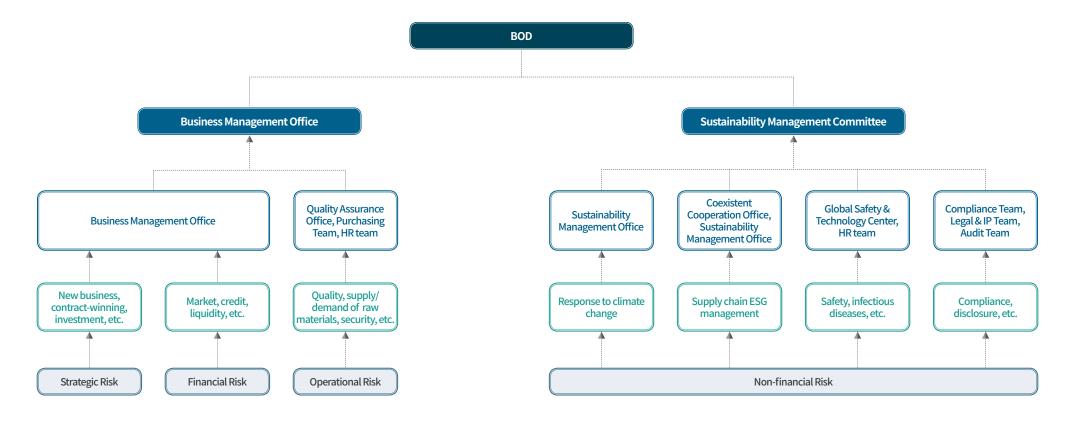
Environmental Management Implementation System

Risk Management System

Risk Management System

Company-wide Risk Management System

Board of Directors (BOD) is mandated to comprehensively manage a range of risks that may occur in the business environment concerning operations, finance, and workplace safety while making major decisions. To systematically manage such risks, Samsung SDI has stipulated business-specific risks and responsible departments. Risks are categorized into strategic, financial, and operational risks associated with our business operations as well as non-financial risks. The results of risk reviews conducted by responsible departments and their response strategies are reported to the BOD either through the Management Committee or the Sustainability Management Committee.



Sustainability Management Strategic Framework

Sustainability Management Operational Framework

Environmental Management Implementation System

Risk Management System

Risk Management System

Risk Classification and Reduction Activities

Risk	Risk Category	Explanation	Effect	Mitigation Activities
Disruptions in the supply/ demand of key raw materials	Economic Risk	 A surge in demand for products/services – EV, ESS, etc that contribute to Net-Zero society may trigger increases in raw material prices Competition is accelerating in supply/demand as the reserve of mineral resources is concentrated in specific geographies and such resources are supplied by a handful of companies 	Rising raw material prices and intensifying competition in supply/demand of raw materials give rise to increasing battery manufacturing costs, and this may impact our financial performance	 Ensure supply/demand of raw materials through joint ventures or partnerships with raw material partners Advance resource recovery technology to increase the recovery of recycled raw materials and input them back into battery manufacturing
Adverse social/ environmental impact that may occur in the supply chain and relevant regulations set to take effect (Proposal for an EU Directive on Corporate Sustainability Due Diligence) ¹⁾	Social Risk	 Given the characteristics of the nations and areas where the reserve of raw materials is concentrated, their mining process may raise issues with water quality, soil contamination, child labor and compulsory labor As the Proposal for an EU Directive on Corporate Sustainability Due Diligence takes effect, this will impose obligations on businesses to take legal responsibility for and manage ESG risks along their supply chains 	• It is possible that supply chain due diligence is included as mandatory provisions in signing a supply contract with customers (automobile OEMs, etc.)	 Manage ESG risks that may occur at partners in advance through the S-Partner system Manage ESG risks that occur internally in advance through the ESG Audit system
Strong customer demand concerning products' carbon footprint and relevant regulations set to take effect (Proposal for an EU Regulation concerning batteries and waste batteries) ²⁾	Environment Risk	 Automobile OEMs demand their supply chains to make proactive efforts to reduce carbon footprint through joining the RE100 initiative and the SBTi to reduce carbon emissions generated along their value-chain As the Proposal for an EU Regulation concerning batteries and waste batteries takes effect, this will make battery producers a target of mandatory carbon footprint disclosures made on their EV and industrial application batteries, and it is likely that they are ultimately obligated to comply with the life-cycle carbon footprint of the battery 	• It is likely that our battery sales will be prohibited in the EU market if we fail to comply with carbon footprint disclosure obligations and the life-cycle carbon footprint of the battery in the Proposal for an EU Regulation concerning batteries and waste batteries	 Manage product carbon footprints by building and operating a battery LCA system Shift to renewable energy for workplace power consumption by 2050

¹⁾ Proposal for a DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Corporate Sustainability Due Diligence and amending Directive (EU) 2019/1937 (Proposal for an EU Directive on Corporate Sustainability Due Diligence hereinafter)

²⁾ Proposal for a Regulation of the European Parliament and of the Council concerning batteries and waste batteries, repealing Directive 2006/66/EC and amending Regulation (EU) No 2019/1020 (Proposal for an EU Regulation concerning batteries and waste batteries hereinafter)



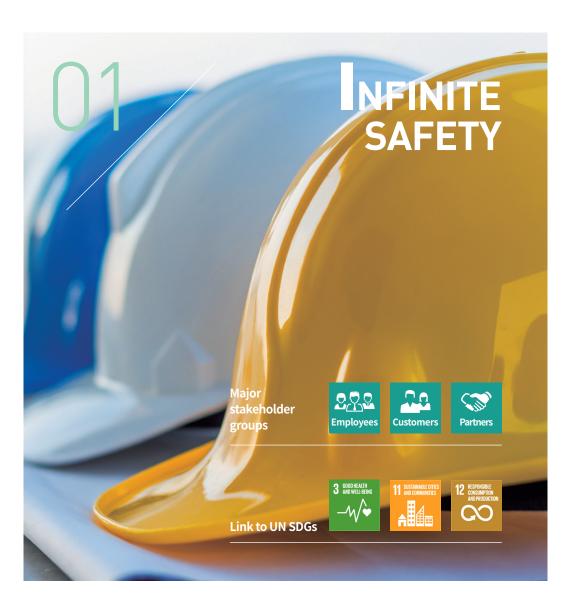
1. Infinite Safety 2. Move to Net-Zero

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6. Transparency in Stakeholder Engagement



Batteries inherently repeat the cycle of charge and discharge to produce electricity energy, and this makes product safety the paramount factor for sustainability at Samsung SDI. We set our own safety standards that are even more stringent than international safety standards, and continue to develop novel solutions to improve the safety of our products, including fire extinguishing agent spray technology.

As the Serious Accidents Punishment Act took effect in January 2022, this further highlights the importance of workplace safety. In response, we are bolstering our safety-related organizations, systems, and institutions and are fully committed to putting safety above all else across our entire value chain including partners as well as among our own employees.

KPI

Area	Indicator		Unit	2019	2020	2021
Product	Customer satisfaction Automotive and ESS battery		Point	85.7	85.1	91.9
Safety		Point	82.8	81.2	81.0	
	Employee injuries (accident) (No. of employees injured/ No. of employees X 100)		%	0.038	0.014	0.021
People Safety	(No. of em	tner injuries (accident) ployees injured/ No. of ployees X 100)	%	0.051	0.019	0.035
	Improvement tasks identified through workplace safety audits 1)		No. of cases	919	635	314

¹⁾ Reviews scaled down amid COVID-19

Scope of the Index: Domestic and overseas production facilities

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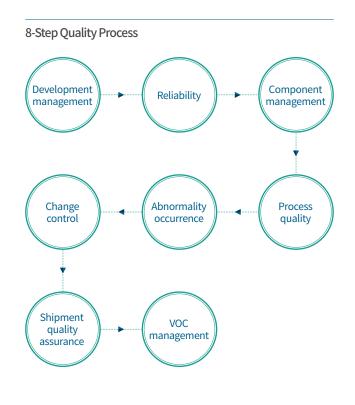
Product Safety

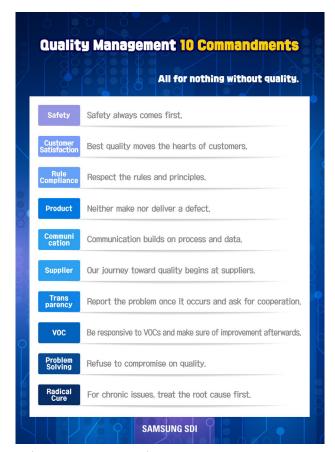
Our Approach and Management Plan

Samsung SDI puts product safety and quality before all else. Under the motto of 'All for nothing without quality', we continue to bolster our quality management system along the entire product lifecycle. As the quality of our partners directly translates into the quality of our products, we send our Quality Team staff to partners to support their quality improvement and enable immediate response to issues that occur. From development to mass-production, we analyze and monitor data by leveraging our quality assurance methodology designed for risk verification. Our Hungary corporation is managed under the direct leadership of our Quality Assurance Office operating at the Headquarters to stabilize its product launches. We also collect Voice of Customers (VOC) to improve customer satisfaction and expedite our efforts to make necessary improvements. In 2021, our Electronic Materials Business improved its product return ratio, one of the key customer quality indicators, through its sustained commitment to quality enhancement and assurance. In particular, tailor-made management of the polarizing film process and reinforced defect inspection allowed us to post an over 50% improvement in Q-VOC (quality-related VOC) against 2020.

Quality Management System

Our quality management system complies with global standards such as ISO 9001 and IATF 16949 throughout the entire process from product design, manufacturing, shipment to customer satisfaction. We introduce a range of IT systems and data analytics techniques to this end, and receive regular IATF 16949 surveillance audits performed by third-party organizations while conducting internal audits in preparation for external certification audits





Quality Management 10 Commandments

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Product Safety

Improving Product Safety

Putting safety first to preemptively ensure quality

Samsung SDI's effort to verify safety factors starts from the raw material selection phase. Specifically, we perform FMEA (Failure Mode and Effect Analysis) in the development phase to identify and improve potential safety and quality issues to ensure quality while putting safety first. Safety verifications are conducted prior to product shipment to test products under severe and/or extended use conditions to reduce their safety risks to zero in consideration of varying product use conditions and diversifying applications. To preemptively detect potential issues that may occur from the development phase to the mass production phase, we employ the accelerated testing methodology¹⁾ to conduct more robust verifications and establish quality in the process.

1) Set above-the-average conditions on time-consuming test items to identify product characteristics in a shorter period of time

Advancing the statistics-based process management system

We leverage statistical data to operate a statistics-based process management system to respond to potential quality risks in our processes and products before their occurrence. Anomaly signs on key management factors are monitored and controlled in real time, and data trends are automatically analyzed throughout the entire process from component receipt to product shipment.

This allows us to fundamentally prevent defective products from being delivered and establish an advanced quality assurance system as a result. In 2021, an electrode quality monitoring and control system was operated to ensure the uniform quality of our electrodes across all our manufacturing locations. Our 2022 plan is to apply deep learning, Al and other machine learning technologies to our process analysis, monitoring and control to upgrade our statistics-based process management system.

Establishing uniform mass production quality across global operations

Key quality management items are chosen to perform quality performance assessments on the Headquarters and all overseas corporations, and their monthly assessment scores are compared to identify and implement improvement tasks to ensure all production facilities enhance their quality performance.

To prevent identical quality incidents from reoccurring at other processes or corporations, relevant measures are shared to stabilize quality across our global operations. We perform daily quality monitoring on electrodes to prevent defective products from escaping into the backend process while establishing a more rational and specialized quality assurance process in time with the expansion of new lines to enable timely mass production.

Responding to hazardous substances contained in products

The products delivered by our Electronic Materials Business for semiconductors, displays, and batteries are strictly managed in accordance with our internal standards that are aligned with such global environmental regulations as the EU Restriction of Hazardous Substances Directive (EU RoHS) for electric and electronic devices. We also respond to the Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) regulations of respective countries while managing the containment of hazardous substances and their content in accordance with the product environmental performance requirements of our customers.

In line with the rising demands for product environmental performance, we also apply more rigorous hazardous substance content standards than domestic/overseas environmental standards. When harmful substances are contained in the raw materials that go into our new products, we ensure that such substances are reduced or eliminated from the development phase to assist our customers in ensuring the safety of their workers and the environmental friendliness of their products.

Bolstering quality assurance capabilities

The pursuit of ever-finer line widths becomes the norm in the application sector while quality standards are tightening for semiconductor materials. In response, we will bolster our capabilities to evaluate and differentiate semiconductor materials while enhancing the detection capabilities of our automated detectors for polarizing films to cater to ultra-large-sized, ultra-high-resolution products in 2022.

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Product Safety

Promoting Customer-centric Product Safety and Quality Management

Proactively addressing VOC

We manage customer-related metrics, including customer defect rates and VOCs, as KPIs to establish our competitive edge in product quality. In 2021, phase-specific goals were set to respond to VOC, and our small-sized Li-ion battery and ESS battery business divisions each defined their goal of 'immediately responding to VOC within 24 hours' and 'setting 30-day goals for improvement measures'.

To facilitate VOC registration for EV battery operations, our corporations conducted training on VOC registration management. This resulted in a 329% increase in registered VOCs against 2020, and the improvement activities undertaken for respective issues helped us bolster our EV battery quality response process.

Our Escalation Cycle has been up and running since 2022 as a process to notify relevant departments of specific VOCs that occur repeatedly and report such VOCs to senior management. For causes of defects identified through the Escalation Cycle, we perform rapid analyses and make it a rule to complete necessary improvements on such causes. Furthermore, we established the Resident Engineer system for each of our major customers (4 locations in 2020, 12 locations in 2021) and reinforced our global network to minimize any delay in customer response that may arise in the initial phase of issue occurrence and bolstered our immediate response capabilities.

In battery business, we deploy the RMA (Returned Materials Authorization)-based customer response process to define product defect rates as an effective customer indicator experienced by our customers and end users and establish a regular quality risk verification system in so doing. For the initial quality of innovative products, we plan to set the first three to six months as the intensive monitoring period to detect and improve quality issues. In case there are defect items that are not addressed completely, we make sure that their improvement measures are verified for effectiveness in order to elevate product quality. Our Electronic Materials Business sends quality experts from the Headquarters to help local staff better respond to quality issues that affect our overseas customers. The Focus 119 quality issue management system allows for real-time identification of quality-related issues, and work is underway to create a database out of such activities.

2021 Customer Satisfaction Scores by Business Division



Small-sized Li-ion Battery

91.9 points



Automotive And ESS Battery

81.0 points

Managing and improving customer satisfaction

In addition to improving on the customer VOCs collected, we also conduct customer satisfaction surveys by business division. In so doing, we lend an ear to complaints raised by customers across wide-ranging categories, including R&D capabilities, service, and delivery as well as quality. The VOCs gathered during the survey period are communicated to relevant departments through meetings and are reflected in identifying their level of quality and service and setting the course of future improvements.

Our small-sized Li-ion Battery Business conducted the CSI (Customer Satisfaction Index) survey on 22 major customers in 2021 to analyze their complaints on quality characteristics, quality performance and other categories and made improvements accordingly.

In 2022, we will include customer satisfaction improvement as one of the strategic pillars of quality management and optimize our CSI survey in terms of its timing and questionnaire.

Our Electronic Materials Business could not conduct its customer satisfaction survey in 2021 amid COVID-19. The division will resume the survey in the five categories of quality and technical support, development capability, supply, and sales to identify issues and make necessary improvements.

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Product Safety

CET(Customer Environment Test)

Our CET (Customer Environment Test) aims to minimize risks that may occur when customers use our battery while ensuring the performance stability of our products in line with the increasing penetration of batteries across diverse product categories. Unlike the widely-adopted practice of applying manufactures' own quality standards, the CET enables us to study the actual application conditions of users to improve safety risks and reviews the appropriateness of battery cell use under the conditions set by customers themselves. This ensures that Samsung SDI's battery cell products are delivered to meet the optimal conditions required by customers and helps prevent fires caused by improper product use or large-scale quality incidents attributable to mis-design or miss-matching on the part of customers.

In 2021, we reinforced our CET response management regulations and standardized our customer review documents to respond to the increasing demand for sharing small-sized mobility devices (e-bikes, kick boards, and e-scooters). Our priority for 2022 is to reach 100% in CET implementation so that end users do not experience any safety incidents due to products delivered without safety verifications.

Our automotive and ESS battery business also introduced the CET process to address the increasingly severe application use conditions and cater to new battery-powered applications such as vessels. Specifically, work is underway to identify safety risks in advance that may occur when our products are used by customers or EPC¹⁾ companies who lack sufficient understanding of our battery products.

Our customers benefit from the CET process by eliminating safety risks, which also sets favorable conditions for the quality of our battery products.

The CET is expected to play a positive role as Samsung SDI taps into new battery application markets including ships.

1) Engineering Procurement Construction



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Product Safety

Extending the Scope of Quality Improvement Management

Supporting overseas corporations with quality improvement

Samsung SDI pursues uniform, exceptional quality across all its domestic and overseas production facilities to build unsurpassed global competitiveness. To strengthen the assurance of mass-production quality, quality gate improvement activities were implemented to supplement the advance warning system based on process-specific measurement data, raise the bar on quality anomaly management, and share improvement cases with overseas corporations, elevating our quality management performance across the board.

To stabilize the outgoing quality of overseas corporations, we send quality experts from the Headquarters to provide training to local staff in the areas of mass-production, development, and customer satisfaction as part of our continuous efforts to enhance their technical performance. We also realign the organizational system of overseas corporations and engage in year-round communication with expatriates to support overseas corporations with stable quality management and operation.

Our Electronic Materials Business assists its overseas workforce in improving their quality capabilities to increase satisfaction with our quality on the part of overseas customers. The business division operates meetings attended by manufacturing, technology and quality personnel at our Cheongju worksite to transfer know-how in polarizing film manufacturing to local staff and expatriates, and engage in discussions to solve problems and bolster the work skills of employees at overseas corporations.

In 2021, audit and quality training (problem solving, FMEA, etc.) was conducted for local employees to implement more than 100 improvement activities at our Chinese location performing back-end process cutting, which allowed us to earn approval from the audits conducted by customers. In 2022, our engineers at the Cheongju worksite will be sent to provide consulting for back-end cutting process operations in China, and to conduct comparative analyses on the strengths and weaknesses of each cutting companies to make necessary improvements across the board.

Supporting partners with quality improvement

In 2021, we initiated preliminary component inspections to assist partner companies in fully assuring the quality of the components they deliver to Samsung SDI prior to their shipment. Our quality team members were permanently assigned to partners to perform inspections and improve issues with outgoing quality to prevent defective products from being shipped to support their quality management.

Furthermore, we increased the number of samples that receive quality inspections performed as part of the component shipment process to make sure that defective components do not enter our process in the first place. To reduce defect escape rates to zero, we also apply total inspections and automated inspections to the process of partner companies to help them establish their quality competitiveness.

As managing the quality of raw materials is the key to electronic materials business, our Electronic Materials Business will send dedicated staff to partner companies in 2022 to preemptively secure the quality of products delivered by partners. Our staff responsible for raw material quality will closely engage in regular meetings with partners to address customer and internal issues and advance quality management in so doing.

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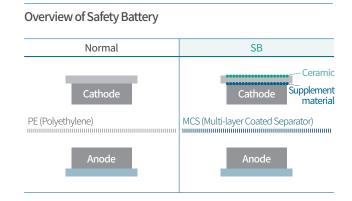
6. Transparency in Stakeholder Engagement

Product Safety

Bolstering Battery Safety

Developing SB (Safety Battery) products

Samsung SDI is developing SB (Safety Battery) products which deliver improved safety features in the event of folding, unfolding, and critical falls to enhance the safety and reliability of products. These new battery products are enabled by technology to control the crack-induced separator breaks caused by the folding of batteries as well as short circuits that occur in cathode devices and anode materials. They employ slip separators and highly flexible electrodes to keep cracks under control as well as safety-enhancing additives to control the growth of Li dendrites (micro short circuit control). As shown in the picture on the right, they also leverage ceramic insulation layers and other supplements to prevent short circuits and bolster the safety of battery in the process.

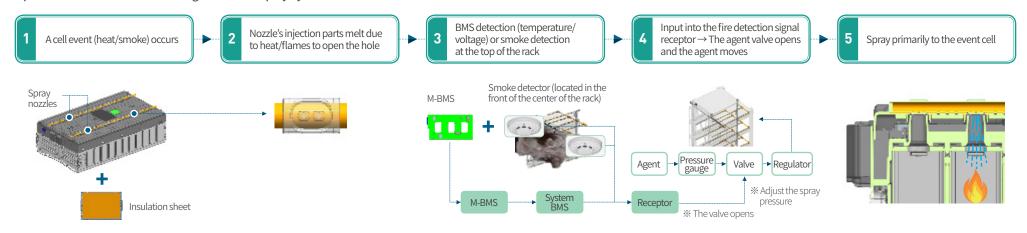


Introducing a fire extinguishing agent direct spray system for ESS applications

The continued rise in ESS cell capacity alerted us to the need to establish the safety of our products and respond to UL certification audits, and we introduced a fire extinguishing agent direct spay system for our newly-launched battery cells.

This system aims to achieve early fire suppression (maximize the cooling extinguishment effect) by intensively spraying the cell interior/exterior areas that were detected to catch fire. When a specific cell generates heat or flames, this triggers the agent container to open its valve and spray the extinguishing agent primarily to the cells where heat/fires occurred.

Operational Mechanism of Samsung SDI's Direct Spray System



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People Safety

Our Approach and Management Plan

Occupational accidents that occur in industrial settings at increasingly larger scales not only bring economic losses but also undermine employees' health and safety, tarnish the reputation of the company involved, and even impact the survival of the company. Notably, the Serious Accidents Punishment Act which took effect on January 27, 2022, further raised the bar on the criminal and financial sanctions and penalties imposed on occupational injuries.

In response, Samsung SDI has operated a company-wide 'Eradicating Serious Accidents Task Force' since May 2021 to remain free of any fatal occupational injuries. Guided by the principle that safety is the core value that all Samsung SDI employees live by, we remain further committed to bolstering our health and safety management system.

Appointing a C-level Executive for Safety Operations

Samsung SDI appointed a Chief Safety Officer (CSO) in February 2022. The CSO is mandated to manage our health and safety budget, personnel and relevant legal response, and head the development and implementation of measures to prevent the reoccurrence of injuries that do occur. To this end, an organization dedicated to safety operations was created to oversee and support all business departments.

Dedicated EHS Organization

To properly respond to the Serious Accidents Punishment Act enacted on January 27, 2022, we created a dedicated EHS organization while realigning our existing organization by adding personnel and support functions. The EHS & Infra Team, which was previously under the Technology Innovation Center, was promoted to be operated under the

Global Safety & Technology Center, and the Safety and Environment Group, which was run under respective business divisions, was incorporated into the Global Safety & Technology Center to reinforce its function as a dedicated organization. With these organizations playing a central role, we are facilitating activities to prevent accidents and communications to raise safety awareness among employees and partners.

Safety Management Organizational Chart



Executive Vice President and Head of Global Safety & Technology Center

Heon Seo



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Employee health and safety forms one of the key criteria used to evaluate corporate value in ESG management, along with employees' human rights and diversity. This also constitutes the most essential activity in ensuring the contentment of individuals and families as well as corporate growth.

Samsung SDI vows to create a safety-first culture and operate a risk management system to recognize and prevent risk factors before they occur while maintaining a 24/7 prompt response system to keep its employees out of harm's way and advance ESG management in a healthy, safe and pleasant work environment. We will also share our ESG management philosophy with partners and fulfill our social responsibility as a member of community.

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People Safety

Building an Advanced Safety Culture

Providing occupational health and safety training

We provide health & safety training to all our employees to elevate their occupational health and safety awareness. Our diverse training curriculum consists of more than 240 courses for employees to choose from. Managers, new hires, employees handling hazardous substances, and those assigned to specific or new tasks are supported in receiving tailor-made training on a quarterly basis depending on their job category or level and work processes.

In 2021, special training was conducted on the Serious Accidents Punishment Act for CEOs and managers of our partners as well as all our employees including the CEO in preparation for the enactment of this Act. This training touched upon the topics of the purpose and provisions of this Act which took effect on January 27, 2022.

Disseminating a safety culture

We regularly assess the level of our safety culture across eight areas including top management commitment, R&R, communication and engagement, competency, compliance, cause analysis and corrective action, and monitoring. Assessment outcomes are analyzed to identify causes for vulnerabilities and develop relevant measures to make necessary improvements.

Besides, safety culture themes are selected each month and a range of publicity activities are implemented to widely engage employees in establishing a safety-first culture.

Workplace Safety Management

Establishing and amending the EHS procedures

We have overhauled our workplace safety procedures to elevate employees' safety awareness and executive capabilities and ensure compliance with safety regulations and prevent accidents in the process. In reflection of ISO standards, we reclassified our workplace safety procedures into regulations, standards and Standard Operating Procedures (SOP), and amended our risk management regulations that apply to the Headquarters and worksites.

Verifications were made by the Legal & IP Team to make doubly sure that our workplace safety procedures duly reflect legal provisions and detailed procedures attributable to regulatory amendments, and the revised procedures were publicly registered on our internal standard regulation management system (PMM) for all employees to refer to.

As to the SOPs that are implemented on the shop floor, 10 essential workplace safety items were defined to further segment work procedures and elaborate on safety measures. The SOP system was reorganized to make it mandatory to consult workplace safety departments in registering SOPs in our document system. The workplace safety procedures established and amended as such are communicated to our employees through training supervised by managers.

Operating the integrated EHS system

Samsung SDI operates an integrated company-wide EHS system to identify risks and manage employee health, chemical consumption and KPIs in addition to ensuring regulatory compliance.

This system consists of 47 modules across the eight categories of safety and environment, health, chemicals, disease prevention, partner companies, audit and common areas. Our EHS system is operated in accordance with such international standards as ISO 14001 and ISO 45001. To ensure the normal operation of our company-wide EHS management system, we received surveillance audits across all domestic and overseas worksites in October 2021, and were certified to be 'valid' by the certification body.

Reinforcing our shop floor safety certification

Since 2020, we have operated the manufacturing work certification program to ensure that in performing work that involves the direct operation of facilities, error correction measures can be taken only by those workers who completed relevant job training. This program is classified into the four grades of A, B, C, and D, and upgrading from grade D (entry) to grade A (professional) is possible only when the concerned worker has worked for the set period of time and cleared the certification test.

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People Safety

Expanding the performance appraisal for manufacturing management supervisors

While EHS management performance appraisals were made on part organizations at our Gumi worksite only, this was extended to all our worksites in Korea (Cheonan, Ulsan, and Cheongju). Appraisal methods that differed across respective worksites were unified into 35 evaluation items in four areas, and appraisals have been made twice a year (first and second half) since 2021. In so doing, we will regularly review the EHS performance of management supervisors who are responsible for the shop floor safety of our employees, and achieve zero injuries and accidents and provide a safe work environment.

4 Evaluation Areas of EHS Management



Building an emergency response system

We are establishing an emergency response system to prepare for all possible incidents and accidents while regularly conducting trainings and exercises to take swift emergency response measures at all levels, from senior management to working-level employees, in the event of an emergency. Each month, processes and facilities with high risk of fires are reviewed to prevent such incidents from occurring, and emergency firefighting units are under operation 24/7 in case of emergency.

Improving on potential process-related risks

We consistently identify and improve potential process-related risks at domestic and overseas worksites. Potential process-related risks identified as such are uploaded on our computer system to be shared across the board, and the risk data has been managed twice a month since June 2021. In 2021, a total of 234,072 potential process-related risks were identified by our manufacturing workforce at all levels, and this translates into 37.4 risks per employee, which exceeded the set target (12 risks per employees) by 312%. Out of these risks identified, those associated with the detection of potential falls and fires were chosen as best practices.

Best Practices for Identifying and Improving on Potential Process-related Risks

심시	H위엄말굴	개선 우수사례			우수	
듄	P.제점	M2동 <u>후공정 입고대</u> 설비 기재 <u>낙하사고</u> 발생 우려				
	부서명		실시일	2021. 12	. 19	
S	실시자(대표)		위치	M2 음국 7기 프	레스 <u>입고대</u>	
등급	위험구분		동일유형(개소)	M2동 프레스,슬리터	입고대 (14개소	
구분		개선전 (As is)		개선 후 (To be)		
				CONTROL SE		
내 용	(근무자 평상시 3 1번 기재 입고대 입 2번 기재 재입고 발 1번 (장착된) 기재외	차된 기재 나라 발생으로 안전사고 발생 위험 익접 중선으로 중단을 나타함) 고후 티렛 장착원료됨 생후 근무자 이중입고 미인지로 제품 자동 입고 시킨 1 반(종필입고) 기재 종물로 2번 기재 이재기에서 고시 완료SVW 점명로 근무자 원료(입고)SW 조직)		렛 간 <u>인터락</u> 적용하여 기존 제 않도록 인터를 프로그램 추가 		
잠 재	직접원인	이재기 상부 안착된 정보를 이중 입고시 국	- ¹ 조적 간섭 가능한	위치로 이동하여 를 낙하	발생	
원 인 근본원인 기구적 간섭 가능한 구조에 이중 입 보 서	기구적 간섭 가능한 구조에 이중 입고 투입	중 입고 투입 불가 <u>인터록</u> 프로그램 적용 누락됨				
	관리부재	LGV이중 입고 이후 <u>이재기</u> 투입 완료S/W 3	작한 이력이 없음	으로 위와 같은 현상 사전	!에 인지 안됨	
개 선 효 과	이재기 안착된 중	· ·량물 기재 이동중 충돌 및 낙하 사고 예방				
수 평 전 개	M2동 양/음국 프	레스/슬리티 전호기(14개소) 수평전개 완료		유무 (Y/N/해당없음) 소요 금액(원)	Υ -	

Facilitating hand-written DRIs (Double-check Risk Inspection)

In line with increases in the construction and manufacturing work performed within our worksites, it becomes difficult to identify causes of risks in advance and make shop-floor verifications. To prevent such occurrences, we introduced hand-written DRIs (Double-check Risk Inspection): hand-written DRIs help identify and mark risks and enable workers and managers to directly map out work methods and safety measures so that they better recognize risks in advance and adapt to field work accordingly, mitigating risks of accidents as a result.

In 2021, hand-written DRIs were performed on production facilities and manufacturing work (error action, loading/unloading, cleaning, etc.) by Samsung SDI employees as well as partner employees. This allowed us to preemptively verify safety measures on construction and manufacturing work and check shopfloor safety measures, and the number of injuries has continued to decline since 2019, from four in 2019 to two in 2020 and two in 2021¹⁾.

To follow up on the two cases of falls²⁾ that occurred in 2021, we supplemented our DRI preparation methods by marking passages for workers and by placing floor plans and marking openings for sections where ceiling work is performed. Furthermore, hand-written DRIs were introduced for sub-subcontractors which had remained largely overlooked.

- 1) Based on the Headquarters and partner companies combined
- 2) Accidents which occurred at partners in 2021: A fall that occurred at a partner company operating in the construction site of our Hungary corporation, and a fall which occurred at a partner company operating at the Samsung Future Technology Campus

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People Safety

Advancing battery safety management

We are advancing our management process to check battery safety even from the product development phase. To prevent fire accidents, we are also raising the bar on production and storage management in line with handling and storage standards set according to battery risk levels. Notably, we have installed in-house firefighting equipment specialized for battery fires for the formation process which poses the risk of fires during manufacturing to bolster its early-phase response capabilities.

Our prevention center and our control center simultaneously engage in 24/7 monitoring to bolster battery production and storage management, and our firefighting crew and process-specific workers participate in scenario-based drills to take swift emergency action in the event of fires and build year-round emergency preparedness in so doing.

Assessing partner companies for safety performance

Samsung SDI complies with its obligation to select qualified suppliers pursuant to Article 61 of the Occupational Safety and Health Act. For any work performed in locations controlled and managed by Samsung SDI, such work is contracted to businesses who are capable of taking actions to prevent occupational injuries and accidents, and these subcontractors (partners) are subject to safety performance assessments. As to issues associated with assessing partners' safety performance, collaboration is underway among Equipment Purchasing Group, Safety and Environment Group and Infra Operation Group at respective worksites.

In 2021, such assessments were made on 334 partner companies. Those who score below 70 points should receive re-assessments within three months according to relevant regulations, and those who fail to score 70 points or above in re-assessments are prohibited from participating in any bid through the alignment made between safety performance assessment items within the partner module of our EHS system (G-EHS) and our partner management system (G-SRM). In 2021, 29 partner companies were below 70 points, and we provided them with improvement guidance in written format in place of physical visits amid COVID-19.

Partner Safety Performance Assessment Results

구분	사업장	대상社	대상하 등			평가 결과		
1 =	489	(인프라/상주 협력사)	s등급	A등급	B등급	c등급	D등급	
	전 안	46	6	24	14	2	-	
	울 산	62	8	24	26	-	4	
공사	구미	62	5	19	27	8	3	
	청 주	36	2	7	24	3	-	
	기 흥	56	11	15	23	5	2	
	수 원	19	2	5	10	1	1	
計 281		281	34	94	124	19	10	
상주	천 안	13	7	6	- ×	C용급 이하 입찰 참여	₩21 (System Loc	
	울 산	10	5	5	-	-	-	
	구미	9	5	3	1	-	-	
	청 주	5	4	1		-	-	
	기흥	10	5	4	1	-	-	
	수 원	6	1	4	1			
#+ 53		27	23	3	0	0		

Partner companies that received safety assessments

 $334_{\text{companies}}$

Honored at the 20th Korea Safety Awards

Our Cheongju worksite has been operating a 24/7 prevention center led by professionals to systematically respond to fires, safety accidents and other potential emergencies and has teamed up with the local fire station to prevent fires in communities.

The worksite has also installed leak sensors and gas detectors for all processes that handle hazardous chemicals to maintain a 24/7 real-time monitoring system. Such efforts were recognized when the worksite was named an excellent safety management company and honored with the Presidential Award at the 20th Korea Safety Awards in November 2021.



Honored at the 20th Korea Safety Awards

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People Safety

Bolstering Chemical Substances Management

Operating a chemical substances management system

Our Global Environment, Health & Safety (G-EHS) system, developed to respond to domestic and international regulations related to chemical substances, ensures that chemicals are inspected for possible conflict with applicable laws and regulations and are managed for their use at our worksites.

Any and all chemical substances that enter our worksites in Korea and abroad should receive EHS impact assessments, and should be verified for legal measures required following their entry into our worksites before purchases are made.



Total Inspections Performed on the Use of Chemical Substances

Operating an internally regulated substances grading and approval system

The scope of internally regulated substances includes carcinogens and other substances harmful to the human body as well as legally regulated substances to protect the health of our employees and prevent work-related illnesses. Substances, selected under our internally regulated substances grading and approval system, are graded into A, B, and C, and chemicals are verified for their inclusion in the prohibited substances list, applicable substitution and mitigation plans, and protective measures prior to their entry and consumption at our worksites. To protect our employees from work-related illnesses and keep them healthy, we have prioritized and categorized highly toxic substances (SVHCs/CMR/PAHs) based on their hazards and managed them accordingly since 2022. Furthermore, risk assessments are conducted on chemicals that are put into the process in consideration of their hazards, exposure levels, and work characteristics, and assessment results are used to check the work environment including sealing conditions. Total inspections are also performed on chemical substances every quarter to identify the overall status of chemical handling and regulatory compliance concerning the Material Safety Data Sheet (MSDS) and the installation of warning signs.

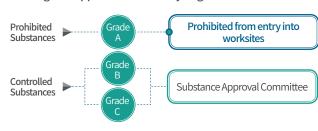
Managing process hazards

In the event of change in work that handles chemicals in the manufacturing process or the addition of new materials in the R&D process, adhoc measurements are made on hazards to abide by legal standards. We commission third-party professional organizations to perform semiannual work environment measurements on processes that handle hazards. Furthermore, we apply internal standards that are more stringent than legal standards to hazards, exposure to substances requiring special management, and ventilation facilities. For hazards that are handled throughout the entire process, we set our internal exposure limit at less than 30% of the legal threshold, and this is even further tightened to less than 10% of the legal threshold for carcinogenic, reprotoxic or mutagenic substances that require special management. In case there are processes that exceed our internally-set exposure limits, improvement measures are developed to replace or mitigate hazards and seal affected equipment.

In addition, local exhaust ventilation devices installed for processes that handle chemicals receive inspections and assessments at least once a year. Specifically, our domestic worksites are subject to regular deepdive assessments made by third-party professional organizations. In 2021, we invested nearly KRW 8.5 billion in increasing the exhaust air flow, containing equipment within booths, and installing mobile local exhaust ventilators to improve the work environment.



1) Classified into Grade A, B, and C according to their level of hazards



Develop substitution/mitigation plans and protective measures

Approve entry into worksites and use

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Healthcare

Employee Healthcare

Health promotion activities

Samsung SDI supports health promotion activities for employees including regular check-ups, work environment inspections, health training and disease prevention. We provide regular health check-ups for the early diagnosis and prevention of diseases, and our employees are supported in receiving health counseling at the Samsung SDI medical clinic when deemed necessary as a result of comprehensive life-cycle health check-ups. Furthermore, health promotion activities are implemented by inviting key opinion leaders in the healthcare sector and partnering with local health centers to help employees take better care of themselves.

Preventing work-related illnesses

To prevent work-related illnesses caused by repetitive work that generates musculoskeletal burden, we perform regular shopfloor inspections and change work methods to improve our work environment. Our Cheonan and Gumi worksites operate their own musculoskeletal center, and offer one-on-one musculoskeletal disease prevention programs to help employees ease their musculoskeletal pain that stems from their daily habits as well as work-related ones.

COVID-19 Response

Maintaining the operation of the COVID-19 Task Force

We continue to operate the company-wide COVID-19 Task Force that was launched in January 2020. The TF consists of the Corporate HR Team, the Financial Management Team, the Communication Team, and ESH departments at the Headquarters.

The TF is primarily responsible for managing domestic/overseas business travels, worksite access controls, and access to crowd facilities, conducting training and group activities, operating disease control activities and establishing relevant standards, and posting and sharing disease control standards in line with national COVID-19 guidelines on the corporate bulletin board.

Preventing infections and the spread of COVID-19

To protect employees from COVID-19 infections and prevent their spread, we ensure that elevators, handrails and other areas exposed to frequent physical contacts are disinfected more than once every day, and stronger controls are placed on worksites, dormitories, commuter buses and other facilities used by our employees.

In addition, in-house cafeterias extended their business hours, adopted zig zag seating arrangements, and placed plastic barriers on the table to minimize physical contacts among employees. We also broadcast our corporate disease prevention guidelines and distancing rules on an on-going basis to raise employees' safety awareness.

Managing partners' compliance with COVID-19 guidelines

In 2021, we reviewed 33 partner companies to help prevent COVID-19 among domestic partners. The checklist used included 14 items concerning collective and individual disease prevention activities and workers' code of conduct. Such reviews were made as part of the S-Partner certification process to provide training and encourage partner companies to abide by disease prevention guidelines.



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As the US and Europe consider carbon border taxes and other policy options to respond to climate change, a number of companies are voluntarily joining global initiatives such as the RE100 and the SBTi to reduce their carbon emissions.

While the growing demand for personal mobility, EVs and ESS boosts the demand for batteries and presents opportunity for Samsung SDI, this also comes in tandem with the stronger voice raised by stakeholders to manage adverse environmental impact generated along the battery value-chain.

Samsung SDI has developed specific implementation strategies to reach its goal of fully transitioning to renewable energy in meeting its power needs at domestic and overseas worksites by 2050. We will also measure the carbon footprint that stem from batteries and expand our resource recovery system to minimize any negative environmental impact generated along our value chain.

KPI

Area	Indicator	Unit	2019	2020	2021
Action for Climate Crisis	Direct·indirect GHG emissions intensity	tCO ₂ e/KRW 100 million (sales)	12.6	12.4	11.6
Circular	Domestic waste recycled	%	93.9	96.1	96.0
Economy and Environmental Impact	Overseas waste recycled	%	89.4	77.3	89.7
Management	Water withdrawal intensity	1,000 tons/KRW 100 million (sales)	0.08	0.07	0.06

^{*} Scope of the Index: Production facilities in Korea and overseas

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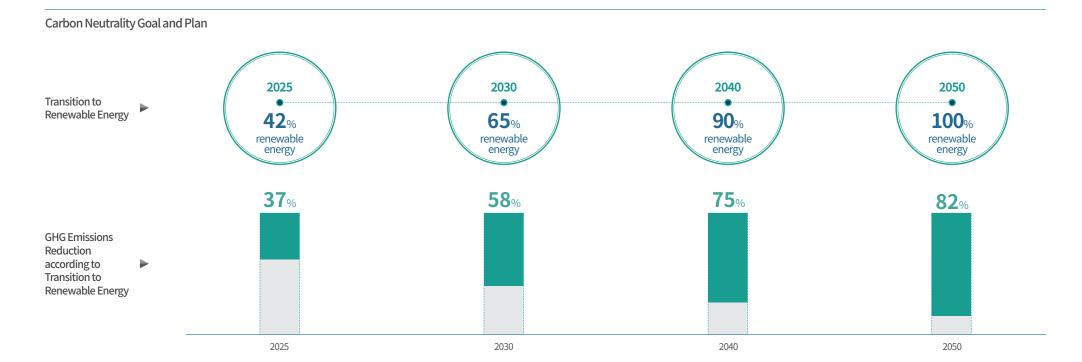
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Action for Climate Crisis

Our Approach and Management Plan

Samsung SDI set a goal of fully transitioning to renewable energy to meet its power needs at domestic and overseas worksites by 2050 as a way to respond to the climate crisis. To reach this goal, we are considering a range of feasible options, including the purchase of renewable energy certificates and the signing of PPAs (Power Purchase Agreement). In fact, our Hungary and Tianjin corporations purchased renewable energy certificates for a portion of the power used in 2021.

We aim to fully shift to renewable energy for power consumption at Hungary and Tianjin corporations by 2025, and do the same for all our overseas corporations by 2030. Guided by our overarching goal of reaching 100% in renewable energy transition by 2050, we will make gradual switches – 42% by 2025, 65% by 2030, and 90% by 2040 – and this will allow us to reduce our GHG emissions by 87% by 2050 compared to BAU levels.



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Governance

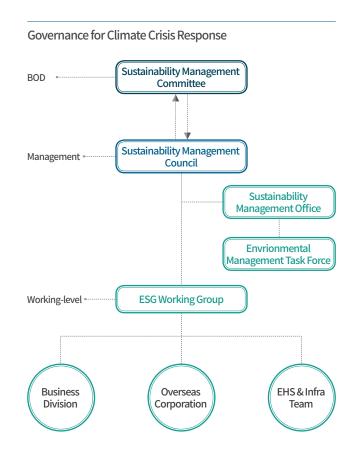
Our Board of Directors, executive management, and working-level employees engage in systematically managing climate-related risk and opportunity factors and other sustainability issues that may impact our business operations. The Sustainability Management Committee under the BOD is responsible for deliberating and deciding on climate-related corporate activities including climate crisis response strategies and policies.

As the C-level consultative body led by the CEO, the Sustainability Management Council functions to review climate crisis response strategies and discusses investment-related issues.

The Sustainability Management Office is tasked with identifying climate-related risks and opportunities and developing company-wide response strategies in alignment with our business strategies.

In tandem with this, the Environmental Management Task Force is implementing six improvement tasks. All such activities ensure that we discuss and manage major issues and response strategies to counter the climate crisis at the C-level, and any risks that may bring sizable impact on our business operations are deliberated and decisions are made through the Board of Directors.

Last but not least, the EHS & Infra Team plays a role in mitigating our GHG emissions through wide-ranging activities, by collecting and managing GHG emissions data and engaging in energy conservation effort.



Analyzing risk and opportunity factors¹⁾

We analyze climate-related risk and opportunity factors and develop response plans from the mid-to long-term perspective to effectively address the tightening global climate regulations and the needs of customers, investors and other stakeholders. Climate-related risks are categorized into transition risks and physical risks.

Transition Risk

Transition risks are segmented into regulatory & policy, technology, market, and reputation risks. To address regulatory & policy risks, we need to respond to emerging regulations such as carbon taxes, carbon border taxes, and EU's battery regulation along with GHG emissions trading. If we do not properly respond to the obligations to disclose the carbon footprint of our battery products and meet the set threshold as stipulated in EU's new battery regulation, this will make it difficult to sell our batteries in the European market and pose risk to our sales. Meanwhile, building an LCA calculation system to respond to this new regulatory framework over the mid-to long-term will enable us to leverage this system in developing less carbon-intensive batteries and render our products competitive in the future.

Technology risks refer to risks that existing products are replaced with low-carbon alternatives. As we produce key components for EVs and ESS that play an essential role in an upcoming low-carbon society, expanding R&D investments in such sectors will only boost our technology competitiveness, leaving minimal impact on our operations.

1) Used open-source data including those from the WRI and ThinkHazard!

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Market risks are classified into risks that our customers are exposed to and risks that Samsung SDI is exposed to due to customers. The former includes change in market supply and demand caused by the physical risk of the climate crisis, and this expected to be low as battery-powered products will see their market grow as they serve to help counter the climate crisis. Meanwhile, customers' efforts to reduce their carbon emissions may result in increasing operational expenses and impact their ability to purchase batteries. Analyzing the GHG data of our major customers (through S&P Trucost) demonstrated that such financial impact risks would be low.

The risks that Samsung SDI is exposed to due to customers are demands of the transition to renewable energy and the reduction of carbon emissions generated from products. If we do not properly respond to such risks, this may result in lost business opportunities such as failure to win contracts. As such, we set a goal of reaching 100% in renewable energy transition by 2050, and are looking for cost-efficient ways to pursue this transition.

Reputation risks arise when we can't engage in activities or make disclosures to address the climate crisis as requested by investors and other stakeholders, and may result in difficulties in attracting investments or lost business opportunities. Each year, we respond to the Carbon Disclosure Project (CDP) to share our data on how we respond to the climate crisis. We will also disclose our 100% renewable energy transition strategy, our carbon neutrality roadmap, and other initiatives that would be determined through our climate crisis decision-making system.

Physical Risk

Physical risks are categorized into acute and chronic risks. The former refers to floods, heat waves, or fires that bring physical impact to our assets in the short-term. This includes direct facility damages as well as the reduced availability of insurance for worksite assets and increasing insurance premiums caused by damages to worksite facilities.

Chronic risks may arise over the long haul as the sea level rises or high temperatures continue. Sea level rise may permanently inundate areas where our worksites are located and make our worksites and their assets less available for insurance subscription. We will respond to such risks by minimizing their potential impact on our business operations through continued monitoring and chronic risk assessments performed when reviewing new worksites.

Analysis of physical risks affecting Samsung SDI revealed that domestic worksites are exposed to risks that stem from typhoons, and worksites based in China, Vietnam and other Asian regions could be impacted by long-term temperature increases. Meanwhile, our worksite in Hungary which will become our key location for automotive battery production is relatively less prone to physical risks.

Risk management process

We have established a company-wide risk management process to manage the identified climate-related risks. Climate-related risk and opportunity factors are evaluated under the leadership of the Sustainability Management Council, our C-level consultative body for sustainability management, the Sustainability Management Office, the working-level body, and the ESG Working Group. Evaluation results inform our work to set priorities and develop response strategies to manage climate-related risks.



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Analysis of Risk and Opportunity Factors

Type of Risk	(Risk Duratio		Financial Impact	Stakeholder	Our Response	
		Present	GHG emissions trading schemes	Mid-term	Medium	Concerned governments	 Develop and implement Scope 1 emissions reduction strategies Transition to renewable energy for power consumption across all worksites by 2050 through the purchase of renewable energy certificates and PPAs 	
	Regulation & Policy		Carbon taxes, carbon border taxes	Mid-term	Medium	Concerned governments	 Transition to renewable energy for power consumption across all worksites by 2050 through the purchase of renewable energy certificates and PPAs 	
	a	Future	Proposal for an EU Regulation concerning batteries and waste batteries	Mid-term	High	EU governments Customers Partner companies	 Transition to renewable energy for power consumption across all worksites by 2050 through the purchase of renewable energy certificates and PPAs Develop and operate an LCA calculation system to preemptively respond to the Proposal for an EU Regulation concerning batteries and waste batteries 	
Transition Risk	Technology		R&D investments in alternative technology for low carbon products	Short-term	Low	Customers Consumers Partner companies	• Invest in and commercialize technology to make low-carbon and high-efficiency products	
	Market		Increasing financial burden associated with customers' cost of carbon	Mid-term	Low	Customers Partner companies	Regularly assess market/customer changes caused by the climate crisis	
			Increasing demand for renewable energy transition	Short-term	Medium	Customers	• Transition to renewable energy for power consumption across all worksites by 2050 through the purchase of renewable energy certificates and PPAs	
	Reputation		Responding to climate crisis issues and disclosing climate-related risks	Short-term	Medium	Investors Customers Potential employees	 Develop and disclose strategies to respond to the climate crisis, including carbon neutrality strategies Transparently disclose information on response to the climate crisis in accordance with the CDP and TCFD recommendations 	
Physical Risk	Acute		Typhoons, floods, heat waves, and fires	Short-term	Varies by worksite	Customers Partner companies Employees	Check workplace emergency response manuals on an on-going basis Bolster facility safety, subscribe to emergency insurance plans, etc.	
	Chronic		Continued high temperatures, sea level rise and the resulting inundation	Long-term	Varies by worksite	Governments Communities	Consider chronic risks when changing the business plan or reviewing new worksites	
				-				

¹⁾ Risks are categorized into short-term (2022~2025), mid-term (2026~2031), and long-term (2032~) based on the duration of their impact. (e.g., The impact of GHG emissions trading schemes could be minimal in the short-term but may increase in line with decreasing allowances.) Physical risks are classified into short-term risks that bring abrupt impact in a short period of time and long-term risks that have gradual impact over the extended period of time, from the viewpoint of duration of concerned risks.

Action for Climate Crisis

Our Response to the Climate Crisis

Renewable energy transition

Samsung SDI is operating production facilities in Europe, the US, China, and Southeast Asia as well as in Korea. As these countries differ in their institutional aspects in embracing renewable energy and in the maturity of their renewable energy power market, we will factor in these distinctive conditions to effectively implement our renewable energy transition plans.

For our overseas production facilities, wide-ranging implementation plans are under review including the purchase of renewable energy certificates and the signing of PPAs (Power Purchase Agreements). Our Hungary and Tianjin corporations started their switch to renewable energy by purchasing renewable energy certificates in 2021, and are currently exploring and reviewing specific implementation plans to reach 100% in renewable energy transition by 2025. We will expand the use of renewable energy consecutively in other parts of the world.

In Korea, we participated in the green pricing pilot project in February 2020, and in the Renewable Energy Certificate(REC) trading pilot project undertaken by Korea Energy Agency in January 2021 to review tools and support programs to implement the RE100 (Renewable Energy 100%) initiative as well as the PPAs. While PPAs have not been widely available due to the inherent characteristics of the domestic power market, the amendment of applicable laws in 2021 made it possible to directly enter into renewable energy power supply contracts with renewable power generators, and this prompted us to consider PPAs as a feasible option.

Responding to the CDP

In line with the increasingly stronger demand raised by investors to disclose information on the climate crisis, we are transparently communicating our climate crisis strategy and our progress made in reducing GHG emissions through the Carbon Disclosure Project (CDP)¹⁾. As the impact of the climate crisis aggravates on the financial aspect of businesses, we are also conducting objective analyses to proactively respond to this challenge. In 2021, we made it onto the CDP's B score, and will make accurate and objective disclosures along with continued efforts to make necessary improvements by reporting our Scope $1 \sim 3$ emissions, setting goals, and making progress accordingly.

 A non-profit to evaluate businesses for their response to making disclosures on environmental data concerning GHG and energy for global companies, investors and cities

Global Company-wide Energy Investments and Achievements in Reducing Energy Use

Category		Unit	2019	2020	2021
Total investments		KRW million	1,495	2,869	4,710
Fuel saving activities		No. of cases	88	98	78
Electrici	ty & steam saving activities	No. of cases	543	667	595
	Total reductions made	TJ	1,679	1,640	1,741
	-Fuel reduced	TJ	321	396	247
Savings	-Electricity & steam reduced	TJ	1,358	1,244	1,494
gene- rated	Total savings generated	KRW billion	186	195	213
racu	-Fuel savings generated	KRW billion	38	44	28
	-Electricity & steam savings generated	KRW billion	148	151	185

Participating in the emissions trading system

Samsung SDI has participated in the GHG emissions trading system since 2015 pursuant to the nation's Framework Act on Green Growth. We systematically manage our emissions and goals through our MRV (Monitoring, Reporting, Verification)-based carbon management system and our s-GEMS IT system. Our efforts to mitigate GHG emissions allowed us to fulfill our obligation under the system even without purchasing GHG emissions credits for a total of six years during the first and second planning periods. There are countries other than Korea who are operating or planning to operate such emissions trading programs. Our Hungary plant is fulfilling its obligations in relation to emissions reporting as well as allowance allocation, management and submission as some of its facilities were covered by the EU Emissions Trading System (ETS) as of October 2021. While China has initiated its nationwide emissions trading system since 2021, Samsung SDI's local plant is not yet subject to this system. We will continue to monitor policy trends to ensure that we faithfully implement our legal obligations imposed under such emissions trading systems.

GHG Emissions Reduced at the Global Company-wide Level

Category	Unit	20192)	2020	2021
Fuel	tCO ₂ e	16,306	17,662	12,494
Electricity & steam	tCO ₂ e	104,073	76,182	71,485
Total	tCO ₂ e	120,379	93,844	83,979

2) Reductions increased in line with change in the emission coefficient

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Action for Climate Crisis

Energy Use Management

Major energy conservation activities

To reduce the energy consumed at our worksites, we provide our domestic worksites which consume a large amount of energy with technical support for energy conservation. For overseas worksites, we offer locally-hired staff technical skill-up training for the purpose of energy saving. In addition, completed energy conservation tasks are shared among domestic and overseas worksites to maximize energy conservation outcomes.

Achievements Made in Reducing Energy Consumption among Domestic Worksites

Worksite	Activity	Achievement
Cheonan	Reduce charge/discharge times by type of battery	Reduce power consumption
Cheonan	Switch to energy-saving aeration blowers	Improve the efficiency of power consumption
	Change the operational control method for heat furnaces	Improve power consumption
Ulsan	Change the downtime management standards for dry ovens	Reduce power losses
Gumi	Rationalize the operation of refrigerator compressors for air conditioning	Improve the efficiency of power consumption
Cheongju	Switch to high-efficiency refrigerators	Cut air conditioning operational expenses

Reinforcing the energy management system at the worksite level

The external energy management system consulting project initiated for our domestic production locations in Cheonan and Ulsan among others in 2020 continued into 2021 to improve on the issues identified and increase the efficiency of our energy management system.

We have collected big data on standard energy dynamic quantities while analyzing facility-specific loads to make our management system more efficient. Facility operation managers were also provided with regular skill-up training on facility and unit physical quantity standardization, power quality assessment, and facility mechanism principles. To further conserve energy, analyses were performed on each business division for their energy use structure in line with changing energy conditions in Korea and abroad to define energy conservation activity goals and set the course for improvement.

The 'Power Consumption Composition Innovation Task Force' launched in March 2022 has invited external experts to identify key tasks for facilities that consume a large amount of power and work is underway to make necessary improvements.

Building infrastructure for EVs and electric buses

In 2019, we introduced electric commuter buses that do not generate environmental load during operation at our Giheung worksite, and have since equipped our domestic locations with EV chargers in their parking lots so that employees and customers can conveniently use their EVs.

In 2021, we joined the K-EV100, a project led by the Ministry of Environment to shift to zero-emission vehicles in the private sector. This initiative aims to drive businesses to switch to zero-emission cars for their corporate vehicles either owned or leased. Our goal is to make a full switch to EVs for our owned or leased business vehicles and build corresponding charging infrastructure by 2030.

EV Chargers Installed at Domestic Worksites

Worksite	Installation
Giheung	1 for buses, 21 for passenger cars
Cheonan	1 for buses, 4 for passenger cars
Ulsan	6 for passenger cars
Gumi	3 for passenger cars

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Managing the Environmental Impact of Products

LCA(Life Cycle Assessment) implementation

Life Cycle Assessments (LCA) are performed to identify environmental loads such as GHG emissions generated throughout the entire product lifecycle from the extraction of raw materials to product use and disposal and to analyze their substantial impact. We leverage LCAs to develop measures to improve our environmental impact, and have taken a step further to align our LCA process with the principles set out in ISO 14040 \cdot 14044 and the PEFCRs (Product Environmental Footprint Category Rules) to respond to the (draft) EU battery regulation.

As part of our efforts to advance environmentally friendly management, we are extending the scope of our products certified under carbon footprint programs to improve the environmental performance of our products. As the Proposal for an EU Regulation concerning batteries and waste batteries officially takes effect, businesses will be obligated to disclose the carbon footprint data of all EV batteries by 18 months, disclose carbon footprint performance ratings by 36 months, and comply with carbon footprint thresholds by 54 months after entry into force of the regulation.

In response, we will bolster our internal capabilities to measure the carbon footprint of our products and continue with rigorous analyses of product environmental impact assessments and their outcomes to proactively mitigate our environmental impact. This will surely help cater to the environmental performance requirements of our customers and preemptively respond to the Proposal for an EU Regulation concerning batteries and waste batteries to elevate our sustainability.

LCA Performed on EV Battery¹⁾

Samsung SDI has conducted the impact of GWP(Global Warming Potential) of a battery pack product from the perspective of LCA. Based on the result of LCA, we will keep minimize the impact of our products on the environment.



Cell components: 68% Module components: 11% Pack components: 21%

 $1) \, LCA \, outcomes \, vary \, by \, product, \, and \, the \, numerical \, data \, in \, the \, above \, diagram \, is \, indicative \, of \, how \, much \, each \, phase \, contributes \, to \, GHG \, emissions$

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Circular Economy and Environmental Impact Management

Our Approach and Management Plan

The rapid growth of the battery market is expected to result in a surge in the generation of end-of-life batteries. Meanwhile, neither legally-binding regulations nor guidelines have been established yet both at the national and international level to safely collect and dispose of batteries discarded by end users. This prompted us at Samsung SDI to partner with governments and businesses specialized in relevant fields to proactively explore ways to recycle and reuse such batteries to eventually minimize the environmental impact generated from end-of-life batteries from the battery lifecycle viewpoint.

Raw mineral material recovery process

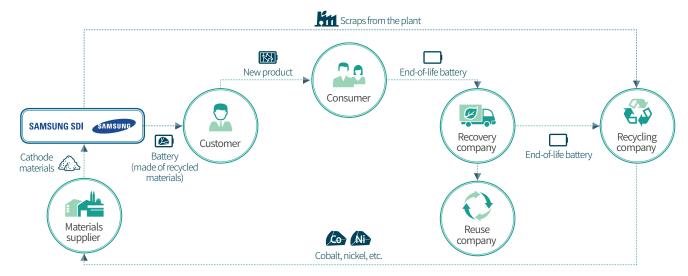
The closed-loop process to recover battery raw materials is operated in two distinctive ways. The first is to retrieve mineral raw materials from the scraps generated from the manufacturing process, and reclaim nickel sulphate, cobalt sulphate, and other minerals out of process scraps in partnership with professional recycling companies equipped with raw material recovery technology. The second is to recover mineral raw materials from the end-of-life batteries discarded by end users. Looking ahead, we will consider potential partnerships with automotive OEMs to develop a closed-loop resource recovery process.

The Proposal for an EU Regulation concerning batteries and waste batteries is likely to impose obligations on battery market players – battery makers and car OEMs – to recover, recycle and reuse end-of-life batteries while reclaiming mineral raw materials in the process. As such, Samsung SDI is developing plans to recover mineral raw materials from the end-of-life batteries discarded by end users as well as from the scraps generated from our plants.

Creating an R&D organization for end-of-life battery recycling

Our Battery 'Recycle Research Lab' was launched under our R&D Center to increase the recycling of end-of-life batteries and the recovery of raw materials. The Lab aims to conduct technology research to improve the recovery of battery materials and to reclaim materials in a low-cost, eco-friendly manner. New recycling technology will be also explored through technology cooperation with partner companies and industry-academia partnerships.

Samsung SDI's Resource Recovery Process



Circular Economy and Environmental Impact Management

Recycling and Reuse

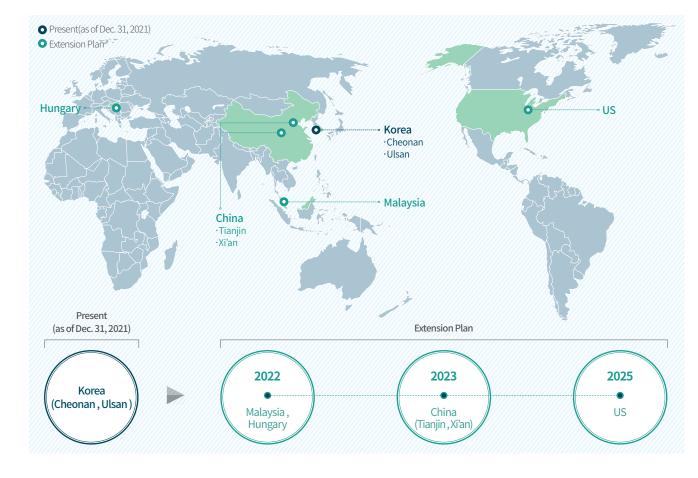
Progress made on recycling

We have established a scrap recovery system for our Cheonan and Ulsan plants to facilitate the recycling of mineral raw materials. The scraps generated from our plants are collected by professional recycling companies, who then extract such minerals as nickel sulphate and cobalt sulphate. These minerals are delivered to our battery material partners who feed them back into their raw/subsidiary material manufacturing process and supply them to Samsung SDI. In 2022, we plan to engage in a similar type of partnerships at our overseas locations in Hungary and Malaysia among others to increase the recycling of raw materials.

Progress made on reuse

We are exploring the possibility of reusing end-of-service EV batteries for ESS and other applications. As part of R&D efforts to this end, we are participating in an 'end-of- service EV·ESS battery recycling industrialization project' led by Jeollanam-do and a 'reused, refurbished battery-powered, renewable energy-aligned MWh-capacity ESS technology development and demonstration' project designed to review renewable energy-aligned ESS for battery reuse. Our plan is to examine the technical conditions and feasibility requirements to be met to reuse end-of-life batteries through R&D and demonstration project outcomes on battery reuse.

Samsung SDI's Plant Scrap Collection Locations



Circular Economy and Environmental Impact Management

2025 Mid-term Environmental Targets¹⁾

Environmental Goal Indicators	Unit	Reduction Goal for 2022 (Baseline 2020)	Cumulative Reduction Goal for 2025 (Baseline 2020)
Intensity of water withdrawal	%	-14.1	-32
Intensity of waste discharge	%	-4.1	-10
Intensity of air pollutant ²⁾ emissions	%	-7.0	-17
Intensity of water pollutant ³⁾ emissions	%	-14.8	-33
Water reuse rate ⁴⁾	%	-	22
Waste recycling rate ⁵⁾	%	-	80

- Reporting scope: All production facilities in Korea and abroad, excluding sales bases and offices, and the Headquarters and the R&D Center (as to production facilities, only those with production records for 2021 were included), Intensity: Calculated based on consolidated sales
- 2) Sum of NOx, SOx, and PM emitted
- 3) Sum of BOD, COD, and SS discharged
- 4) Water reused/withdrawn
- 5) Waste recycled/discharged

Safety Environment Management Policy

In April 2022, Samsung SDI has stipulated Safety Environment Management Policy to embody its commitment to creating a safe work environment and protecting the environment. This policy span the four areas of operating a global EHS management system, implementing environmentally friendly management, creating safe and healthy corporate values, and establishing an external green community.

We will fully embed this Safety Environment Management Policy into our business operations at all levels to bring positive impact to both Samsung SDI and all its stakeholders and advance sustainability management in so doing.



Safety Environment Management Policy

Samsung SDI Co., Ltd., a leading company in the fields of eco-friendly and global materials and total energy solutions, recognizes health and safety as a fundamental element of management, ensures a safe and healthy workplace, actively practices global environmental protection, and pursues socially responsible, sustainable management.



Safe Global Environment Management System

- The company complies with domestic and overseas laws, regulations, global standards and treaties pertaining to safety, health, environment, and energy, and establishes and faithfully enforces systematic internal standards for safe environment, zero-hazard compliance. In order to understand and practice a safe environment management system, the company educates all its employees and conducts all activities with a sense of responsibility and obligation through communication with stakeholdism on with stakeholdism.



Eco-friendly Management Practice

- The company recognizes the importance of biodiversity preservation throughout its business activities and executes its responsibility in all production processes to minimize harmful environmental consequences throughout all the stages from naw materials, parts, and purchase of packaging materials, to product development, production, logistics, and dispars. The company activity reuses and recycles water and waste and continuously makes its best efforts to reduce use of chemical substances, energy, water resources, and polluting discharge. The company activity makes continuous too vecroem the climate change crisis by expanding the use of reusable energy, reducing greenhouse gas emissions, preventing deforestation, and establishing a lawful carbon ecosystem.



Realization of Health and Safety-Oriented Corporate Values

 In order to ensure safe work conditions, the company creates a culture that's puts safety first, operates a prior risk management system for prior issue recognition, and risk factor prevention, realizes serious disaster prevention and an accident-free workplace, and maintains an emergency response system to maintain business continuity.

 The company creates a pleasant work environment, pursues health enhancement of employees, and strives to the best of its abilities to protect employees and local residents from epidemics and disasters.



Green Community-Oriented Public Image Creation

-The company shares and supports its safe environment-oriented management system with its partners to establish eco-friendly win-win partnerships, and makes contributions to local community development through continuous environmental preservation pursuits as a local community member.

April 27, 202

Yoonho Choi, CEO

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Circular Economy and Environmental Impact Management

Environmental management investment plans and achievements

Samsung SDI develops mid-to long-term environmental management investment plans to mitigate any adverse environmental impact generated from its business operations.

Each year, investment plans and their achievements are compared for six domestic worksites¹⁾ and six overseas corporations²⁾ to ensure our investments for environmental management generate intended results from the mid-to long-term viewpoint.

In 2021, we allocated nearly KRW 29.2 billion for investment, and our investment amounted to KRW 30.9 billion to reach 106% in target attainment.

Pollutant Management

Reducing the emission of air pollutants

Our internal air pollutant emission standards are more stringent than legally-mandatory ones. This enables us to strictly manage the emission of air pollutants generated from our worksites, and we operate optimized air pollution control equipment at each of our emitting facilities. Pollutants that are emitted to the atmospheric environment following their treatment are monitored for their compliance with our internal standards, and are managed for their emission trajectory.

To minimize the generation of particulate matters that are emerging as a serious social issue, we have switched to low-NOx burners for boilers used at our worksites. We have also shifted from organic to inorganic fuels for some of our processes as part of our sustained effort to reduce the emission of air pollutants.

Environmental Management Investments Made	(unit: KRW million)
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Category	2021
Plan	29,281
Achievement	30,916
Rate of Investment Execution	106%

¹⁾ Worksites in Giheung, Suwon, Cheonan, Cheongju, Gumi, and Ulsan

Air Pollutants Emitted in 2021			
Category		2021	
	NO_x	58,475	
Air pollutants	SO _x	1,871	
	PM	46,349	

Reducing the discharge of water pollutants

To preserve our aquatic ecosystem, we have raised the bar in operating and managing our effluent treatment facilities to minimize the discharge of water pollutants. In particular, we introduced internal standards that are more stringent than the legally-permissible thresholds (30~50% of such thresholds), and operate water pollutant discharge monitoring devices to manage such pollutants generated from our worksites. Furthermore, the TMS (Tele-monitoring System) is operated to monitor the discharge of water pollutants in real-time even at those worksites that do not bear any legal obligation to install such a system to review their compliance with our internal water pollutant discharge standards. Furthermore, monitoring sensors were installed at chemical storage facilities and stormwater drainage outlets to prevent the discharge of water pollutants caused by chemical spills. To recover such pollutants that have already entered the stormwater passages, devices were installed to block their flow and collect them.

Vater Pollutants Discharged in 2021			
Category		2021	
	BOD	27,447	
Water pollutants	COD	115,144	
	SS	43,288	

²⁾ Tianjin, Xi'an, Wuxi, Vietnam, Malaysia, and Hungary

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Circular Economy and Environmental Impact Management

Waste Management

Minimizing waste generation and ensuring their safe treatment

To minimize the waste generated from our manufacturing process, we take the waste-to-resource approach in improving our recycling rates. All of the end-of-life batteries generated from our R&D and process operations as well as the scraps generated from the manufacturing process are fully recycled with the help of recycling companies. We will explore recycling methods that also apply to batteries used and discarded by customers and end users. We request outsourcing companies to submit their confirmation on regulatory compliance to verify that they abide by applicable laws and ensure reliability in contracting out waste treatment and the lawful treatment of waste within our worksites. Our regulatory compliance opinions are also communicated to these outsourcing companies to make sure that waste is processed in a legally appropriate manner. Our plan for 2022 is to earn Zero Waste To Landfill (ZWTL) Gold Validation for domestic production facilities to raise our profile and brand value as an environmentally-friendly business.

Waste Management in 2021

(unit: Ton)

2021 Category		2021
Domestic waste recycling rate 96.0%		89.7%
74,151	Total generation	100,992
36,411	- General waste	52,105
37,740	- Designated waste	48,887
71,199	Amount recycled	90,569
159	Amount landfilled	4,408
	96.0% 74,151 36,411 37,740 71,199	96.0% Overseas waste recycling rate 74,151 Total generation 36,411 - General waste 37,740 - Designated waste 71,199 Amount recycled

Water Resources Management

Managing water use and effluent discharge

We endeavor to reduce our water consumption and manage water quality at an appropriate level. To minimize the amount of chemicals used to operate manufacturing facilities, we have altered our process method to curb the use of such harmful chemicals as hydrochloric acid and caustic soda and mitigate the generation of effluents accordingly.

In 2021, we set a goal of reducing the use of hazardous chemical substances such as sulfuric acid and caustic soda to zero. We also cut off the source of high-concentration acidic and alkaline effluents while rationalizing processes to improve the storage, transport and treatment facilities of organic/inorganic effluents at our battery production locations.

Water Withdi	awl in 2021	(unit: Ton)		
Category		2021		
	Giheung	164,174		
	Suwon	94,874		
	Cheonan	931,568		
Domestic	Cheongju	1,013,559		
	Gumi	371,308		
	Ulsan	1,443,448		
	Subtotal	4,018,931		
Category		2021		
	Malaysia	863,020		
	Tianjin	1,533,280		
	Wuxi	1,040,399		
Overseas	Xi'an	291,059		
	Hungary	910,458		
	Vietnam	57,832		

4,696,048

Subtotal

Effluent Disc	harge in 2021	(unit: Ton)
Category		2021
	Giheung	1,015
	Suwon	27,287
	Cheonan	771,682
Domestic	Cheongju	376,846
	Gumi	217,510
	Ulsan	644,234
	Subtotal	2,038,574
Category		2021
	Malaysia	175,795
	Tianjin	126,097
	Wuxi	617,931
Overseas	Xi'an	98,805
	Hungary	292,882
	Vietnam	-
	Subtotal	1,311,510

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Establishing the manufacturing and quality capabilities of partners along the value-chain is an essential prerequisite to build a wholesome industrial ecosystem and a paramount factor for ensuring our global competitive edge at Samsung SDI. Companies bring positive impact to their communities by generating tax revenues and creating jobs, and in return, their business is made more sustainable with the support and assistance extended by these communities.

Samsung SDI provides both tangible and intangible support to partners to help bolster their manufacturing capabilities. We also endeavor to disseminate fair trade practices with first-tier partners and between second-tier and third-tier partners. Furthermore, we operate environmental and science educational programs for teenagers in consideration of our industrial characteristics, doing our part in giving back to society.

KPI

Area	Achievement	Unit	2019	2020	2021
Value-Chain	Financial activity support ¹⁾	KRW 100 million	596	587	810
Partnership	Signing of the Fair Trade Agreement ²⁾	No. of companies	109	110	111
Togetherness	Participation in CSR activities	%	97.8	99.1	93.6
with Community	CSR expenditures ³⁾	KRW 100 million	109.9	102.7	134.4

¹⁾ Sum of direct support, the win-win fund raised, and special support

²⁾ Based on the shared growth agreement signed between Samsung SDI and first-tier partners

³⁾ Sum of management costs, cash costs (donations) and time costs

Scope of the Index: Korea

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Value-Chain Partnership

Our Approach and Management Plan

Under our win-win cooperation promotion system, we implement three win-win growth tasks to create a mutually-cooperative ecosystem under the motto of 'Growth into a Global Leader through Win-Win Cooperation'. We abide by the principles of fair trade to facilitate fair and free competition, and assist partners in boosting their competitiveness and laying the basis for sustainable growth to progress farther ahead with partners than when we go alone.

Definition of partners

We classify our supply chain partners into first-, second-, and third-tier partners. First-tier partners supply raw materials and components that go into our components and products, and second- and third-tier partners provide raw/subsidiary materials to first-tier partners. We specifically define the suppliers of key raw materials and components that may immensely impact our manufacturing and business operations as primary partners, and continue to promote win-win cooperation through wide-ranging support. In selecting and managing partners, we perform paper-based assessments and due diligence to ensure transparency and fairness in building our supply chain.

Win-Win Cooperation Promotion System



Partner Code of Conduct

The 'Samsung SDI Partner Code of Conduct' sets out proper behavioral guidelines for partners to follow in doing business with Samsung SDI. The Code stipulates how our partners should conduct in the areas of human rights, labor, health & safety, environment and ethics in line with the standards of such international organizations as the RBA (Responsible Business Alliance), the ILO, and the ISO. Each and every partner is required to sign the consent form to abide by the Code in entering into contract with us to raise their awareness to advance sustainability management.

In the event that our partners fail to honor the Code, we recommend them to take improvement measures. If their non-compliance continues or no improvement is made, we restrict our future transactions with them .

Operating the Samsung SDI Partners' Association

To promote interactions with partners, we operate the 'Samsung SDI Partners' Association (SSP)', which consists of the subcommittees of materials, components and equipment. The SSP is newly launched every two years, and the 9th SSP established in 2020 was joined by a total of 41 partners to share information on internal and external management status and strengthen strategic partnerships. In 2021, its general meeting went online amid COVID-19. Our goal for 2022 is to actively engage in benchmarking, seminars, subcommittee meetings, and Shared Growth Day events through the SSP to help generate synergy among partners.

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Value-Chain Partnership

Establishing Fair Trade

Fair trade principles

To establish transparent transaction practices, we make it a rule to use the standard contract form in doing business with partners, and observe the four action principles stipulated and amended by the Fair Trade Commission to promote compliance with subcontract regulations.

4 Action Principles

Execution of desirable agreements

Fair selection and registration of partners

Operation of unfair trade practice prevention and monitoring systems

Issuance and retention of written agreements

Supporting the Signing of the Fair Trade Agreement

Samsung SDI's endeavors to create a culture of fair trade between Samsung SDI and its first-tier partners, and among partners. We support partners to conclude the fair trade agreement among themselves and encourage them to improve their payment criteria so that payments could be made in cash within 30 days. Official documents are sent to call for cooperation in mainstreaming the signing of the standard subcontract agreement between first- and second-tier partners, and the application of the agreement is monitored.

$Performance\ in\ Supporting\ the\ Signing\ of\ the\ Fair\ Trade\ Agreement$

Category	Unit	2019	2020	2021
Samsung SDI – First-tier partners	No. of companies	109	110	111
First-tier – Second-tier partners	No. of cases	120	129	136
Second-tier – Third-tier partners	No. of cases	42	40	45

Laying the Basis for Partners' Growth

Management consulting for partners

Samsung SDI has provided win-win cooperation consulting since 2020 to support partners to improve the efficiency of their business operations. Consultants, who previously served as executives at Samsung SDI, draw on their extensive field experience, management knowhow and expert knowledge to offer management advice to meet the needs of partners, and assist partners in improving their management competency and boosting their overall competitive edge. The Voice of Partners (VOP) program is also implemented to collect complaints raised by partners. In 2021, 19 projects were undertaken for 12 partners through our management advisory activities.

Management Advisory

Development/Quality

New product development, technology strategy, technology development roadmap, New material/process/facility development

Management

Overseas production facility operation, audit process, Operational manufacturing system, SCM KPI operation

Development/Business strategy

New business/product development strategy formulation, Product competitiveness/differentiation improvement plan

Quality/Marketing

Quality assurance strategy setting & development process development, Development and mass-production quality assurance system development

Assisting partners with talent recruitment

Leveraging the training system and infrastructure available at the Samsung SDI Training Center, we assist partners in providing training to employees to strengthen their capacity. The training curriculum consists of 29 courses on job skills, quality management, process management, and business administration, which were attended by 1,151 employees from 89 partners in total on 46 occasions in 2021. We also help partners with recruitment and talent development training so that our partners hire talented individuals armed with both job skills and desired personality characteristics. In 2021, our recruitment and development support program helped create jobs for 73 persons at three partners.

Ulsan Training Center recognized for exceptional performance

As part of the Consortium for HRD Ability Magnified Program (CHAMP) designed to support capacity building for workers at SMEs and job seekers, we have operated our 'Ulsan training center' at our Ulsan worksite since 2004. The center was named an excellent training center for two consecutive years (2019~2020) to demonstrate its exceptional performance. Including 1,151 persons who graduated in 2021, the center has trained 12,080 persons between 2004 and 2021 on a cumulative basis.



Awarding Joint Training Centers for Outstanding CHAMP Performance

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Value-Chain Partnership

Providing financial support for partners

We have teamed up with financial institutions to provide financial support to partners to help stabilize their business operations through the win-win growth funds and joint project guarantees.

The KRW 130 billion win-win growth funds were raised in conjunction with the Industrial Bank of Korea, and the interest income generated goes to support our partners to pay interest on their loans. As of 2021, 52 partners benefited from the funds.

Joint project guarantees are provided by the Korea Credit Guarantee Fund to partners who jointly undertake projects with Samsung SDI by assessing the feasibility of these projects. Guarantees valued at KRW 15.5 billion were offered to 10 partners.

Boosting Win-Win Cooperation

Improving partners' manufacturing capabilities

We engage in continuous manufacturing innovation along the supply chain to help partners bolster their manufacturing capabilities. Specifically, manufacturing innovation activities were implemented at the request of Osung Advanced Materials, a partner for our Electronic Materials Business, on two occasions in 2020 and 2021. The goal of such activities was to reduce the time taken for device change and to improve on defects caused by impurities. Third-party consultancies and Samsung SDI's manufacturing technology experts identified difficulties pinpointed by the company and performed on-site checks.

Tasks required to reduce the time taken for device change were identified, including changing the design of device coupling parts and the fuel tank as well as pipe joining methods. Furthermore, improvements were made on the causes for process impurities while management methods were standardized to address defects that stem from impurities. As a result of such innovation activities, 21 out of 22 tasks were completed.

Innovation Task Execution Outcomes

(unit: No. of cases)

Category	Reduce the time taken for device change	Improve on chronic defects	Improve on defects from impurities	Total
No. of tasks identified	6	11	5	22
No. of tasks completed	5	11	5	211)

One task that was not completed was carried over to 2022 as its investment expenses exceeded the set target.

Support of building a smart factory system for partners

Since 2021, Samsung SDI has teamed up with two affiliates²⁾ to allocate budget in supporting win-win smart factory development to help partners boost their manufacturing competitiveness. This project provides three types of support depending on the size and conditions of partners. We share our manufacturing know-how and provide support in quality and productivity improvement for partners to pursue innovation on the shop floor while assisting partners in establishing ICT-enabled operation and manufacturing automation systems for their production facilities. 7 partners has been participated in this project. The smart factory system is set up in 2 partners in May 2022, while 5 partners will have the system in July 2022.

Operating the benefit sharing system

The benefit sharing system aims to facilitate win-win cooperation with SMEs. Under this program, companies placing orders and companies landing such orders collaborate in diverse ways to attain the set common goal, and share the benefits generated accordingly. In 2021, we identified six tasks and collaborated with a total of six partners to implement these tasks in the first and second half of the year. In so doing, all of the set common goals were attained, including reducing defects and improving production quantity per man hour and quality, and partners were able to elevate their manufacturing competitiveness in line with process improvements and the resulting productivity gains.

2) Samsung Electro-Mechanics, Samsung Electronics

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Togetherness with Community

Employees participating in CSR activities

93.6%

Our Approach and Management Plan

Samsung SDI, guided by its CSR vision of 'Together for Tomorrow! Enabling People', is making the world a better place and helps children and adolescents dream a big dream and unleash their full potential. Amid the prolonged COVID-19 pandemic, 2021 was another challenging year and difficulties continued across our society. In the face of this all, we developed and harnessed online education platforms to ensure that such hardships do not cause any disruption to our educational support for teens.

Since we re-defined our CSR vision and themes in 2019, we have remained focused on teen education and community programs to enable capacity building for our future generations. From 2022 onwards, we will partner with Samsung affiliates to jointly operate Samsung's leading CSR programs and bolster the expertise and social contribution of respective programs in search of more effective ways to give back to our society.

Flagship Educational Programs

Green Planet Environment School

Samsung SDI has operated 'Green Planet Environment School' as an environmental and energy educational program for children since 2011. This hands-on learning program helps elementary school students to recognize the importance of environmental protection and proper energy use.

A wide array of environmental education and experience-based activities are implemented to help learn about renewable energy and experience global warming and eco-friendly means of transport. As COVID-19 continued to make it virtually impossible to engage in in-person education, we expanded the virtual environmental education platform that we introduced as a pilot run in 2020 to make this experience-driven environmental education available for elementary school students nationwide beyond any spatial limitations.

In 2021, a total of 3,572 students benefited from our environmental education program to bring the cumulative number of participants to 41,124 persons.

Green Planet Dreaming School

The nation-wide introduction of the free-semester system across middle schools in Korea spurred demand for educational donation programs led by businesses to respond to this new governmental policy. This drove our decision at Samsung SDI to operate 'Green Planet Dreaming School' in alignment with the free-semester system since 2019 to contribute to the more effective implementation of the nation's educational policy. Since 2021, we have provided environmental education on an online platform as COVID-19 caused a challenging environment to provide students with on-site classes. We expanded the science study class offered at two middle schools in the vicinity of our Giheung worksite from four in-person sessions to eight online sessions as a pilot project in the first half of 2021. In the second half of the year, we extended the scope of this pilot project to middle schools located in the vicinity of our five worksites¹⁾ by leveraging the teaching aids and materials that we independently developed just for this program. In 2021, a total of 401 students participated, and 4,152 students benefited from this program on a cumulative basis.

1) Worksites in Giheung, Suwon, Cheonan, Cheongju, and Ulsan



Green Planet Environment School – Virtual learning

Green Planet Dreaming School - Virtual learning

Our Approach to CSR





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Togetherness with Community

Green Planet Future Science School

We have operated 'Green Planet Future Science School' for underprivileged children who spend their afterschool hours at local children centers in the vicinity of our domestic worksites since 2016. This program has been made available on an online platform since 2021 to reach educationally-underserved children irrespective of their location. In the course of 2021, a total of 2,414 students joined this program, and the cumulative number of beneficiary children amounted to 6,712 since 2016.

Blue Elephant

Under the CSR vision of 'Together for Tomorrow! Enabling People', five Samsung affiliates including Samsung SDI¹⁾ operate 'Blue Elephant' to protect adolescents from cyber violence. In 2021, we engaged in cyber violence prevention training, therapeutic counseling, prevention culture development and academic research to keep teens safe online and prevent cyber violence. The second Blue Elephant online forum was also hosted to invite domestic and international experts to discuss ways to cope with cyber violence which is exacerbating in the wake of COVID-19. With a goal of eradicating cyber violence in our society, Blue Elephant plans to conduct cyber violence prevention activities to three million people by 2029.

Green Planet Future Science School - Virtual learning



Blue Elephant - Online Forum to protect teens from cyber violence in 2021

Samsung Software Academy For Youth (SSAFY)

Five Samsung affiliates including Samsung SDI¹⁾ jointly operate the Samsung Software Academy For Youth (SSAFY) to provide young people wishing to pursue their career path as software developers with theoretical and practice-based education for one year to help them become more competitive in the job market. Trainees take basic-level courses on algorithms, coding, and web technology among others, and move on to the advanced level to develop competencies for 4th Industrial Revolution technologies such as AI and IoT. From Class 1 to Class 5, a total of 2,785 students completed this program, and 2,199 of them or 79% of total landed a job across wide-ranging fields from IT to finance as of early 2022. Presently, nearly 1,700 students from Class 6 and 7 are attending the academy.

1) Samsung Electronics, Samsung Display, Samsung SDI, Samsung Electro-Mechanics, and Samsung SDS



Samsung Software Academy for Youth – Entrance ceremony For SSAFY Class 7

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Togetherness with Community

Other Virtual CSR Activities

Dream Walking

On the occasion of our anniversary each year, we launch 'Dream Walking' activities to ensure that our future generations fully enjoy their right to breathe clean air. Funds are raised in proportion to the number of steps taken by our employees to create School Forests to help reduce the level of particulate matters for elementary schools in the vicinity of our worksites. In 2021, nearly 6,900 employees took over 1.2 billion steps to contribute to creating a School Forest for Gwangpyeong Elementary School located in the vicinity of our Gumi worksite. We will continue to build school forests to promote the healthy growth of our children under the clear blue sky without any worries over air pollution.



Dream Walking – School Forest signboard hanging ceremony at Gwangpyeong Elementary School in Gumi

Hands-on – Environmental Education Books

As part of our educational donations made for children and teens, we engage in the direct hands-on production of 'Environmental Education Books'. In 2021, over 2,800 employees volunteered to make a pop-up book that helps children learn the importance of 'water' and its circulation process. Copies of this pop-up book were donated to young readers at local children centers nationwide. Going forward, Samsung SDI will continue to inspire children to care for the environment and educate the value of water for future generations.

Hands-on - Putting Their Heart Into Every Stitch

In 2021, nearly 300 employees at our Electronic Materials Business engaged in hands-on activities to produce supplies for underprivileged children in the Family Month of May. More than 500 'cloud bread dolls' and copies of 'tactile books' were made and donated to children waiting for adoption in Korea and overseas and children from single-parent homes or taken care of by grandparents respectively.



Hands-on - Environmental education book

Hands-on – Greedabangnemo

Our 'Greedabangnemo' hands-on program sponsors artists with developmental disabilities and the exhibition of their works. Our employees paint on a small-sized canvas and exhibit their works along with those created by artists with developmental disabilities. In 2021, more than 3,300 employees joined this program with a theme of endangered animals, and the exhibition was held in Cheonan in virtual settings. Samsung SDI will continue with its mutually-beneficial partnerships to gather together people with disabilities and those without to create an inclusive and flourishing future for all.



Hands-on – Works created by Samsung SDI employees and displayed for the Exhibition for 'Greedabangnemo'

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Togetherness with Community

Environmental Cleanup Activities

Environmental Cleanup Activities in the vicinity of worksites

Samsung SDI has performed cleanup activities in the vicinity of worksites to be responsible for the environment and the win-win relationship with local communities. Employees of Cheongju plant planned and participated in an environmental cleanup activity called 'Protect the Earth' to celebrate the Earth Day on April 22. We provided citizens with cleaner streets by collecting wastes on the street near Cheongju plant.

Our Gumi plant was involved in 'Eco Plogging' with the local community. This was the voluntary participation of employees committed to the environment protection, and we collected waste by walking along the stream in the vicinity of Gumi plant.



Gumi plant- Eco Plogging Activity

CSR Activities at Overseas Corporations

Hungary - Samsung SDI Newborn Baby Program

Our Hungary corporation partners with volunteers in Goöd where it is based to provide gifts to newborn babies under the 'Samsung SDI Newborn Baby Program'. Volunteers made eco-friendly supplies for newborns with recycled and naturally-derived materials and donated them to more than 150 households. Going forward, we will explore even more CSR programs in the mutually-beneficial journey that we take along with our communities.



Hungary corporation – Delivering supplies donated under the Samsung SDI Newborn Baby Program

Austria – Samsung SDI Running and Walking Week

Our Austria corporation celebrated the 'Samsung SDI Running and Walking Week' for five days between June 14 to June 19, 2021. This was initiated amid COVID-19 which banned all sports events since 2020. Our employees walked or ran in their personal time and the company donated 1 euro for every 1 km that was walked or ran. The 3,703 euros raised as such was donated to the Styrian pediatric cancer treatment body council which helps children with cancer. We will encourage employees to join this meaningful initiative in 2022 to make greater donations.



Austria corporation – Delivering the donations raised under the Samsung SDI Running and Walking Week initiative

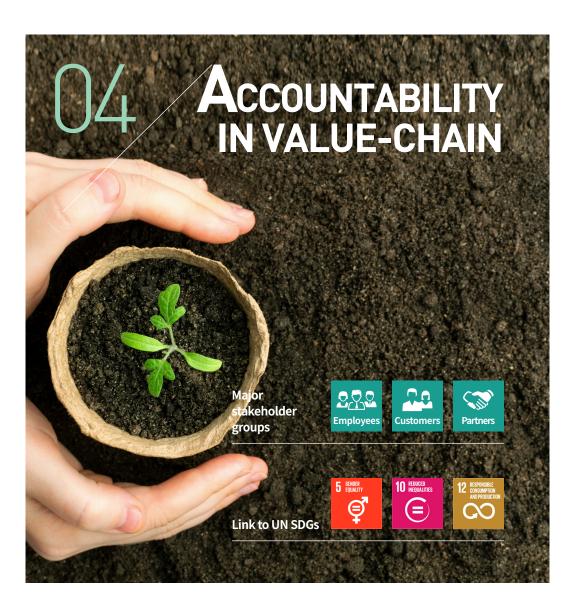
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The increasingly globalized and sophisticated value-chain makes it even more challenging to respond to risks that may arise along the value-chain. Competent authorities in the US and Europe are mulling over regulations to hold companies accountable for ESG risks that occur across their global value-chain. As electronic materials and battery raw materials are primarily found in areas with high ESG risks, this highlights the importance of fulfilling social responsibility within the value-chain as an essential prerequisite in building a company's competitive edge for the future.

Samsung SDI has operated the S-Partner system since 2009 to monitor and manage ESG risks that may occur at its partners, and responsibly sources the minerals it consumes to manage risks that may stem from the procurement of raw materials. Besides, we plan to implement an internal ESG Audit system to address human rights/environmental/social risks that may arise within our Company.

KPI

Area	Achievement	Unit	2019	2020	2021
	Certified S-Partners	No. of companies	90	55	75
SCM Risk Management	Partners subject to S-Partner re-assessments	No. of companies	4	3	3
	Third-party audits on cobalt smelters and refiners ¹⁾	%	88	92	96
Labor/Human	Employee grievances submitted ²⁾	No. of cases	1,083	1,193	1,245
Rights	Female managers	%	10.5	11.2	12.0

¹⁾ Smelters and refiners participating in third-party audit programs are included

²⁾ Grievance handling rate is 100%

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SCM Risk Management





ESG management has moved beyond the realm of mere regulatory compliance to become an imperative that determines a company's sustainable survival.

While batteries form a critical pillar of global clean energy infrastructure for their role in carbon-neutral energy storage, they are also exposed to human rights and environmental risks among others across the entire supply chain from raw materials to mines and smelters. As the Proposal for an EU Directive on Corporate Sustainability Due Diligence looms large, companies could be obliged to meet the set standards to win any contract.

In response, Samsung SDI will advance its third-party due diligence process for the whole of its supply chain

In response, Samsung SDI will advance its third-party due diligence process for the whole of its supply chain management including minerals and fully establish a metal recycling system to embed the ESG philosophy into its supply chain and make this an essential source of its competitive edge. Such preemptive and proactive endeavors will surely enable us to turn this crisis into opportunity.

Our Approach and Management Plan

Our S-Partner Certification system aims to manage ESG risks that may arise along our supply chains by verifying our partners for their non-financial risks in the areas of workplace safety, environment and human rights. As part of on-site audits, we also provide training on labor and environmental trends among others in addition to conducting ESG risk assessments to assist our partners in swiftly identifying the recent regulatory amendments made in relation to ESG risks.

As environmental and social issues including child labor, human rights violation and environmental pollution are raised along the raw material supply chains that involve our second- and third-tier partners, we join global responsible mineral sourcing initiatives along with our customers and partners. In so doing, we remain committed to making our sourcing practices transparent and responsible across the entire raw material supply chain, from mining and processing to procurement.

Managing Partners' Sustainability

Operating the S-Partner Certification system

Samsung SDI has been operating the S-Partner Certification system to ensure the sustainability of its supply chain since 2009. This system allows us to assess and certify our partners for their compliance with our Code of Conduct in line with the standards recommended by such international organizations as the RBA (Responsible Business Alliance), the ILO, and the ISO. Biennial assessments are performed on major

partners who provide us with raw/subsidiary materials with a focus on labor, ethics, environment, and health & safety risks. Since the outbreak of COVID-19, compliance with COVID-19 prevention guidelines and implementation of their specific rules were added to the health assessment category.

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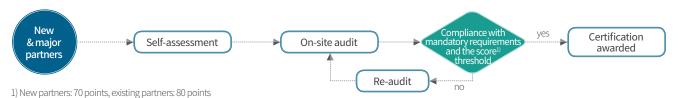
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SCM Risk Management

The S-Partner Certification Assessment process begins with self-assessments made by partners, and then proceeds to on-site audits performed by third-party professionals and follow-up measures. For issues identified as a result of on-site audits, partners are required to submit their improvement plans within one month, and re-audits are performed on those who fail to meet mandatory compliance requirements or the set score threshold to achieve certification. Meanwhile, the zero-tolerance principle is applied to critical categories including child labor, forced labor, pollutant discharge, and environmental approval to demand thorough compliance on the part of partners. In 2021, on-site audits were conducted on 33 domestic and 5 overseas partners, and 37 overseas partners received paper-based audits instead amid COVID-19.

S-Partner Certification Assessment Process



S-Partner Certification Assessment Outcomes

(unit: No. of companies)

Category		2019	2020	2021
	Certification terminated	50	24	26
D	New partner	16	2	4
Domestic	Re-audit	4	3	3
	Total	70	29	33
	Certification terminated	20	26	37
0	New partner	0	0	5
Overseas	Re-audit	0	0	0
	Total	20	26	42
	Certification terminated	70	50	63
Total	New partner	16	2	9
Total	Re-audit	4	3	3
	Total	90	55	75

S-Partner Certification Assessments and	(unit: No. of
Corrective Actions Taken	companies)

Category		2020	2021
Partner	Partners who are subject to assessment	63	75
assessments	Partners who received actual assessments	59	75 ²⁾
Corrective actions taken for identified issues	Partners identified as in need of improvement	55	38
	Partners who submitted improvement plans	55	38
Partners whose to corruption	e contract was terminated due	0	0

²⁾ Paper-based audits were performed on 37 overseas partners

Areas Where Major Improvements Were Made under the S-Partner Certification System in 2021

1. Environment	
Management of the discharge of pollutants including effluents and solid waste	3 cases
Review of atmospheric emission facility management	2 cases
Storage and management of chemical substances	2 cases
2. Environmental/health & safety system	
Achievement of the ISO 14001/45001 management system certifications	1 cases
Education and training	4 cases
3. Safety/health	
Worker protection concerning high-risk machinery	29 cases
Distribution of personal protective equipment	17 cases
Fire/emergency response manuals	13 cases
4. Labor	
Compulsory labor/non-voluntary work prevention process	5 cases
Forced labor verification process for suppliers	18 cases
Wage-related operational regulations and the notice of the resignation process	13 cases
Maternity protection regulations (overtime work, high-risk work, etc.)	17 cases
5. Ethics	
Whistleblower identity protection regulations/procedures	37 cases
Anti-corruption program for partners and subcontractors	38 cases

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SCM Risk Management

Responsible Minerals Sourcing

Responsible sourcing policy

Samsung SDI strongly demands that all its partners supplying raw and subsidiary materials abide by its responsible minerals sourcing policy and its supply chain code of conduct, along with continued monitoring and improvement activities. In addition, regular trainings and meetings are held to publicize our policy and improve awareness among internal/external stakeholders including customers, investors, senior management and the purchasing department as well as partners.

Establishing traceability along the supply chain and managing risks

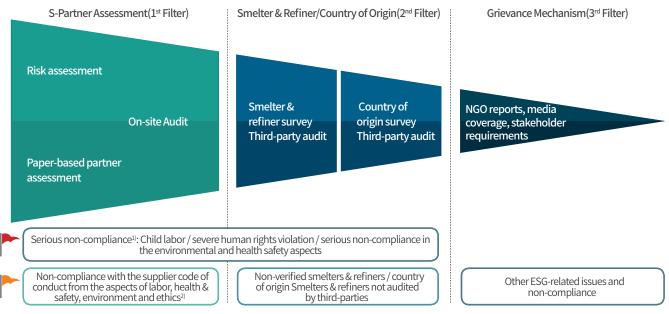
Each year, we survey all our suppliers of cobalt and other major minerals in need of verification for their possible social responsibility risks along the entire supply chain, spanning mining, distribution and processing. Since 2020, we have gradually extended the scope of such surveys from the four conflict minerals of tantalum, tin, gold and tungsten to nickel, lithium, mica, graphite, and all other minerals identified as having adverse impact from the environmental and social aspects. In 2022, we aim to perform third-party audits on the supply chain of such key minerals as cobalt, lithium and nickel among others to establish full traceability for their supply chain and further validate our survey results.

Risk due diligence system

We operate a risk due diligence system which applies to all our suppliers of raw and subsidiary materials.

Risk due diligence outcomes inform our work to identify risks along our mineral supply chains and to develop and implement risk mitigation plans with suppliers.

Samsung SDI's Supply Chain Risk Due Diligence Process



- 1) Serious non-compliance: In the event of serious non-compliance, suppliers are required to take immediate improvement measures, and even to suspend their supply when needed through reviewing the severity of the issue at hand and other relevant information
- 2) Non-compliance with the code of conduct: Refer to general non-compliance with the supplier code of conduct that could be improved, and progress is monitored through the submission of improvement plans or audits

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SCM Risk Management

Responsible Minerals Sourcing

Third-party audits

Samsung SDI ensures that all its verified smelters and refiners complete either the third-party audits performed by the RMI or other corresponding independent audits.

In 2021, 18 out of 23 verified smelters and refiners were RMI-Conformant as a result of RMI's third-party audits, and four of them were included in the active list following their application for RMI's third-party audit program.

Country of Origin of Cobalt Consumed by Samsung SDI

No	Country of Origin of Cobalt
1	Australia
2	Democratic Republic of Congo (DRC)
3	Madagascar
4	Russia

Samsung SDI's List of Cobalt Smelters and Refiners

No	Cobalt Smelters & Refiners	Country
1	Dynatec Madagascar Company	Madagascar
2	Chemaf Etoile	DRC
3	Chemaf Usoke	DRC
4	Gangzhou Yi Hao Umicore Industry Co.	China
5	Ganzhou Tengyuan Cobalt New Material Co., Ltd.	China
6	Gem (Jiangsu) Cobalt Industry Co., Ltd.	China
7	Guangdong Jiana Energy Technology Co., Ltd.	China
8	Hunan Yacheng New Materials Co., Ltd.	China
9	Hunan CNGR New Energy Science & Technology Co., Ltd.	China
10	Jiangsu Xiongfeng Technology Co., Ltd.	China
11	Jiangxi Jiangwu Cobalt industrial Co., Ltd.	China
12	Jingmen GEM Co., Ltd.	China

No	Cobalt Smelters & Refiners	Country
13	JSC Kolskaya Mining and Metallurgical Company(Kola MMC)	Russia
14	Kamoto Copper Company	DRC
15	Lanzhou Jinchuan Advanced Materials Technology Co., Ltd.	China
16	New Era Group Zhejiang Zhongneng Cycle Technology Co., Ltd.	China
17	Quzhou Huayou Cobalt New Material Co., Ltd.	China
18	SungEel HiTech Co.,Ltd.	Korea
19	Tianjin Maolian Science & Technology Co., Ltd.	China
20	Umicore Finland Oy	Finland
21	Umicore Olen	Belgium
22	ZheJiang Huayou Cobalt Co,.LTD.	China
23	Zhuhai Kelixin Metal Materials Co., Ltd.	China

Joining global initiatives



Responsible Minerals Initiative

In 2020, we joined the RMI (Responsible Minerals Initiative) to make concerted efforts with the global community to improve mineral sourcing practices. As a member of the RMI, we step up our efforts to make improvements on supply chain due diligence.

'Cobalt for Development' Project

In 2019, we partnered with Samsung Electronics, BMW, and BASF in undertaking the Cobalt for Development Project for the betterment of working conditions and communities in the vicinity of cobalt mines in the Democratic Republic of the Congo.

Cobalt

Ban on Deep Seabed Mining Initiative

In March 2021, we became the first in the battery industry to call for moratoriums on deep seabed mining (DSB) in conjunction with BMW, Volvo and Google among others to protect the marine ecosystem.

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SCM Risk Management

Managing conflict minerals and assuming extended responsibility for such minerals

Conflict minerals refer to Tantalum, Tungsten, Tin and Gold (3TG) that are mined in the Democratic Republic of the Congo and its adjacent countries. Samsung SDI established its own policy to prevent environmental pollution, human casualties, labor exploitation and human rights violation that often occur in these conflict areas and is excluding the use of conflict minerals from the raw material procurement phase. To this end, we are building a supply chain survey and management system, and demand that all our partners do business with RMI-conformant smelters and refiners. As a result of our 2021 survey, all smelters and refiners of 3TG minerals that are used for Samsung SDI products were fully conformant with the RMI certification standards.

As managing social and environmental risks is gaining heightened importance in the mineral mining and procurement process, this also raises the need for risk management on an extended scope of minerals. Samsung SDI is stepping up its efforts to establish traceability along the supply chain and improve risks on all major minerals consumed for its products.



Managing Supply Chain Procurement Risks

Managing purchasing risks

Supply chain risks include risks that may occur when partners purchase components to supply to Samsung SDI as well as environmental and social risks that arise at partners themselves.

Samsung SDI's purchasing risk management consists of four steps: the first step is taken by the Purchasing Team to select purchasing-related risks in line with the process requested by IATF 169491) and finalize risks that may affect its operations at the discretion of the head of the Purchasing Team. These risks are then assessed based on the severity of impact on Samsung SDI and the probability of occurrence.

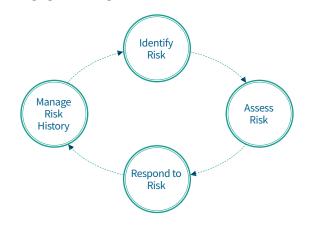
The severity of risk impact is assessed in five different levels depending on the size of expected damage from risks, those affected and restoration period among others. The probability of occurrence is also assessed in five different levels based on the frequency of occurrence during the set period of time and the availability of prevention measures. It is those risks that were assessed that inform our effort to develop short-, mid-, and long-term strategies and respond accordingly. Last but not least, Korea-Japan trade disputes, COVID-19, fluctuations in raw material prices and other risks that happened in the past are all transferred to our history database so that we could use such data in assessing and managing risks expected to occur in the future.

1) International quality management system standard for the automotive industry, jointly developed by the IATF (International Automotive Task Force) and the ISO (International Organization of Standardization)

Responding to purchasing risks in relation to COVID-19

In 2020 and 2021, COVID-19 continued to have immense impact on the global supply chain. In particular, another wave of COVID-19 that hit the Xi'an region of China in December 2021 triggered authorities to impose mobility restrictions. To respond to risks that could be caused by such restrictions, we helped partners who produce and supply raw materials to our Xi'an corporation to secure logistics routes and build sufficient inventories.

Managing Purchasing Risks



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Labor/Human Rights

Non-compliance with human rights standards



Our Approach and Management Plan

Samsung SDI respects human rights, freedom of association, and political/religious/personal freedom, and prohibits discrimination and harassment on the grounds of gender, race, religion, disability, place of origin, and sexual minority. We follow ILO (International Labor Organization) core conventions, the UN Universal Declaration of Human Rights, the UN Global Compact 10 Principles, the RBA (Responsible Business Alliance) Code of Conduct, and other global labor/human rights norms and guidelines, and stringently abide by local regulatory requirements, including labor laws in countries where we operate.

Respect for Human Rights

Protecting diversity and prohibiting discrimination

Samsung SDI is fully committed to respecting the diversity of employees and providing equal opportunity to all. We have adopted 'blind recruitment' which eliminates all identification details from candidates' applications, and give precedence to candidates of national merit and with disabilities to care for the socially underprivileged and ensure that discrimination does not occur on the grounds of educational level, gender, nationality, or religion among others in the hiring process. To further nurture our female workforce, we manage a range of diversity metrics, including the ratio of female managers, and monitor whether there are any disadvantages that are given in performance appraisal to employees who took parental leave.

We also recommend each team to engage both its leader and team members to discuss the topic of diversity at least on a semi-annual basis to minimize conflicts among different genders, nationalities and generations while maximizing synergy.

Preemptively managing labor/human rights risks

To prevent human rights risks from ever occurring at all levels, we identify major regions and worksites that are under vulnerable human rights/labor conditions and focus on their management to eliminate factors that may give rise to human rights violation. We verify these regions and worksites for their compliance with human rights standards either under the supervision of the Headquarters or self-checks made by worksites concerning child labor and compulsory labor, working hours, wages and benefits, humanitarian treatment, anti-discrimination/harassment, and freedom of association, and give notices and make necessary institutional improvements to respond to the amendments made to applicable laws.

For 15 overseas corporations, regular self-assessments are made each year to ensure compliance with local labor regulations for recruitment, working hours, and wage management to identify and manage risks and underscore the need for human rights and compliance management.

Samsung SDI's Code of Conduct (https://www.samsungsdi.co.kr/upload/download/sustainable-management/Code_of_Conduct.pdf)

Raising human rights awareness at all levels

We receive whistleblowing reports on human rights issues through wide-ranging channels, from e-mails submitted anonymously or under one's real name to phone and department head/HR reports. When a report is submitted, this is addressed in full compliance with internal guidelines including those governing disciplinary actions.

To raise awareness on human rights protection and prevent any relevant non-compliance in so doing, we provide company-wide training on the prevention of sexual harassment and improvement in perceptions on disability as well as training on a culture of mutual respect in response to the enforcement of the Anti-Bullying Law. Our training curriculum is updated and new content is added to keep pace with the ever-changing internal/external conditions and social needs.

In addition, training materials on the topics of sexual harassment prevention and a culture of mutual respect, implementation guides for employees, and other basic-level human rights guideline materials are posted on the It Basic bulletin board of our in-house website to provide information on behavioral precautions and proper responses in preventing verbal violence and improving drinking practices on an on-going basis. In 2021, we launched a campaign to promote a culture

of mutual respect and produced and uploaded related webtoons and videos to help employees raise their awareness on respect for human rights in a more engaging manner.



Webtoon for human rights training

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Labor/Human Rights

Establishing sound labor relations

We fully protect labor's three primary rights and comply with applicable laws and regulations. Pursuant to the Act on the Promotion of Workers' Participation and Cooperation, we operate an employees' representative body to make necessary institutional improvements and collect difficulties experienced by employees. In particular, we operate 'Sisicolcol' as an in-house online communication channel to collect improvement suggestions or grievances raised by employees in relation to their professional life. This provides the private comment functionality to keep inquiries confidential when necessary, and the submitted issues are addressed within 24 hours by relevant departments in principle. In 2021, a total of 1,245 inquiries were submitted and were addressed with responses and follow-up measures.



Providing a Great Work Place

Ensuring work-life balance

We strive to provide a work environment that enables employees to strike the right work-life balance and fully engage in their work. For instance, we have introduced flexible work arrangements such as selective work hours and reduced work hours to help employees manage their own work schedules.

We have also embraced remote work and eligible employees can choose to work up to four days a week at home.

At Samsung SDI, both men and women are given the opportunity to meet their childbirth/childcare needs. While legal parental leave is up to one year per child, we provide another full one year of parental leave. Furthermore, we have extended the age limit to 12 years while legally mandatory parental leave set the limit at eight to better support employees who take parental leave.

Maternity leave and other work-life balance support programs apply equally to all employees, including both contract employees and dispatched employees. As the Equal Employment Act took effect in 2021, we are making necessary institutional improvements by amending our internal support policies, including allowing employees to take parental leave during pregnancy.

Our work-life balance support programs also span physical spaces such as maternity protection rooms arranged for expectant or breastfeeding employees and in-house daycare centers operated across all worksites.

Improving the quality of life

Samsung SDI operates a wide array of welfare & benefits programs to raise the morale of employees and improve their quality of life. In 2021, we increased our contribution to employees' personal pension plan to support their stable after-retirement life and granted extra welfare points to improve the welfare of employees.

In June 2021, we opened the Samsung SDI e-Library which is available both on online and mobile platforms to provide our employees with even broader leisure options to choose from and support their self-development. This essentially created an environment for employees to read at any given time and space, without disruptions to using offline spaces that were exacerbated amid COVID-19. Our e-library provides an extensive collection of novels, essays, and economic books among others and is positively welcomed by our employees.

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Labor/Human Rights

Samsung SDI's Welfare & Benefits Programs



Housing loans and financial support for family events

- Operate a loan program for employees who have yet to purchase a home to support their housing purchase
- Provide financial support for employees' family events



Selective welfare & benefits program

• Grant welfare points that employees can redeem to use for their favored activities, be it health management, leisure or self-development



Leisure

- Provide discounts for the Caribbean Bay/amusement parks
- Provide memberships to condominiums and resorts nationwide



Educational expense support/in-house daycare centers

- Provide tuition support for employees' children
- Operate daycare centers at each worksite



Counseling Center

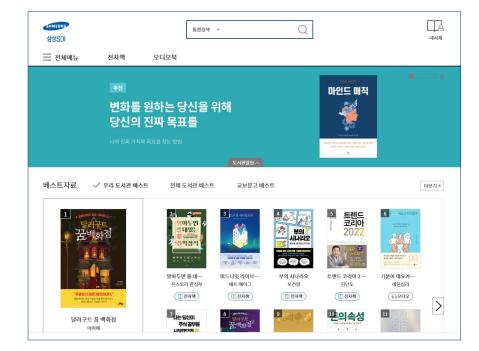
• Provide professional psychological counseling to help deal with issues in one's work life and persona life In general as well as personal grievances



Health management

- Support all employees to receive health check-ups
- Support to pay medical expenses for employees and their spouse for specific medical conditions, injuries or childbirth
- Establish rest areas for female employees and lactation rooms

Samsung SDI's e-Library



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Employee Training

Nurturing job experts

We operate tailormade offline/online training by analyzing expertise required in respective job categories, including development, technology, manufacturing, sales & marketing, and management support. Specifically, the STEP (SDI Technology Education Program) represents our distinctive technology education program designed to systemize technology training for development, process & equipment, and quality operations. In addition to common job training, we also operate department-level learning cells and in-house seminars to meet special department-specific training needs.

In addition to in-house training, we provide master/doctorate academic training and non-degree courses through industry-academia alignment to nurture experts in the development and technology sectors. Our master/doctorate degree courses (academic training) have tripled the number of students from the previous year to focus on nurturing top-notch experts in respective fields. Our license acquisition support program also encourages employees to obtain internationally/nationally-recognized qualifications in the areas of manufacturing, product quality, purchasing, finance, safety/environment, infrastructure in order to support on multiple fronts the development of job experts at all levels.

Operating the Technology Training Center

We assist equipment/process technical staff in systematically developing their common competences and technical expertise and in preemptively learning necessary technical skills and continuously developing into technical experts, contributing to improving product quality and productivity in so doing. Tailormade level-specific technical training is

provided from introductory to practical levels, and training equipment, made of core components and modules that are deployed in real-life conditions, is used to provide one-person one-kit training to effectively operate a training curriculum that spans from theoretical understanding to hands-on practice. In addition, best practices are identified to address equipment errors that occur in the field and are disseminated across the board.

To nurture technology experts, we operate the 'component technology expert course' to address issues through self-initiated learning on core equipment components, and the 'process & equipment expert course' to resolve equipment-related challenges and chronic process quality issues in order to assist our employees in developing unsurpassed expertise in their field. Our Technology Training Center will independently produce online video content to provide a virtual learning platform and continue to introduce new training courses required to build next-generation technology competitiveness.

Retiree Support System and Program

Our Career Consulting Center (CCC) has been up and running since 2007 to fully support our employees in leading a successful after-retirement life. The Center provides outplacement services to help our employees to prepare for their life after retirement, and such services consist of individual assessments, life/career design, outplacement training, career consulting and job matching support.

Our outplacement services enable employees to identify their own occupational values, vocational aptitudes, competences and other resources with the help of standardized assessment/analysis tools. We use the insights gained as such to support them with practical training

required to pursue new career paths across diverse areas, including business, startup, farming, and higher education. Employees are also provided with career consulting to set their individual outplacement goals and to develop and implement strategies to reach these goals through counseling and mentoring as well as 'job matching' service that connects applicants with high-quality positions through the far-reaching network owned by the Center. In so doing, the Center ensures continuity in serving the need of potential retirees.

Our Career Consulting Center informs employees of outplacement services available for those nearing their retirement through its online bulletin board and handouts as specified in the Elderly Employment Act. Gaining knowledge on outplacement services in advance, eligible employees are able to receive more detailed guidance through counseling when necessary and use such services as they wish.

Outplacement Support Services

Life/career design

Perform highly reliable analyses on occupational values, preferences, and job competences to use the results for training and consulting

Career consulting

Provide counseling, coaching and mentoring to help set and attain individual outplacement goals

Outplacement support training

Explore diverse career alternatives, including moving to another company or starting one's own business, depending on individual assessment outcomes, competences, and preferences

Job matching

Match applicants' needs with businesses and educational institutions in need of talent in a customized manner

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Better

communication

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Organizational Culture

Change Agents operating across the company 299 employees

Creating an Advanced Organizational Culture

Building a top-tier organizational culture

Samsung SDI aims to create an organizational culture that aligns all our employees towards a shared future through communication and collaboration. To this end, corporate culture leaders are appointed at the department level each year to serve as Change Agents (CA) to play a leading role in improving and innovating our organizational culture. In 2021, a total of 299 CAs were appointed: these CAs are working to build a top-tier organizational culture under the five goals of fair appraisal, team member development, open communication, improved work efficiency, and better collaboration.

5 Organizational Culture Goals and Activities to Create a Top-tier Organizational Culture

award those who successfully resolve project challenges



• Expand interactions among relevant departments to create a culture of cross-departmental collaboration

• Operate a collaboration project process to engage relevant departments to select their collaboration projects and to

Communication with management

To boost internal communication that has been disrupted amid COVID-19, we have engaged in regular discussions and live broadcasts to support communication between top management and employees. Such communication activities serve to share our corporate policies and vision and address the grievances or questions raised by employees. Notably, the CEO communication meeting held in December 2021 following the appointment of our new CEO provided us with an opportunity to underscore the importance of recruiting and nurturing talented individuals to attain our corporate goal and an innovative corporate culture driven by communication and collaboration.

'Leaders Channel', a monthly meeting of department heads, also serves to share information on our corporate affairs and institutional operation, and department heads directly communicate what was discussed to their team members.



CEO communication meeting held in Q1 2022

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The impact of unsound governance may extend beyond a company's financial performance to its non-financial performance. As such, financial authorities across the world are mandating the disclosure of governance reports to help create transparent corporate governance. Pension funds and other institutional investors also demand that management and the board of directors proactively perform their role in ESG management and oversight as a prerequisite for establishing sustainability management.

Samsung SDI has separated the CEO and Board Chair roles and created the Sustainability Management Committee under the Board to reinforce the independence of its Board of Directors and extend the role assumed by the Board for sustainability management. We also establish a compliance framework and provide relevant training to integrate ethics and compliance into the fabric of our corporate culture.

KPI

Area	Achievement	Unit	2019	2020	2021
Advanced	Ratio of independent directors	%	57.1	57.1	57.1
BOD	Average attendance in BOD meetings	%	93.9	93.5	93.7
	Employees who completed ethics & compliance training	No. of persons	9,697	12,063	12,598
Ethics &	Disciplinary actions taken for corruption identified through audits	No. of persons		12	0
Compliance	Partners whose contract was terminated in relation to corruption	No. of companies	0	0	0
	Compliance review activities	No. of cases	17	22	26

Scope of the Index: Korea

1. Infinite Safety

2. Move to Net-Zero

3. Partnership with Value-Chain Partners and Community

4. Accountability in Value-Chain

5. Credibility in Corporate Governance

6. Transparency in Stakeholder Engagement

Advanced BOD

Our Approach and Management Plan

The Board of Directors (BOD) is mandated to deliberate and decide on the matters stipulated by applicable regulations and the Articles of Incorporation, the matters delegated by the general shareholder meeting, and major issues related to the Company's basic management policy and business execution.

Members of the BOD1)

Executive Director



Name	Young Hyun Jun	Gender	Male
First appointment	Mar. 24, 2017	Expertise	Overall management
Career	Chair of the BOD		
Role within the BOD	Chair of the BOD Member of the Management Committee and the Independe Director Candidates Recommendation Committee		e and the Independent



Name	Yoonho Choi	Gender	Male
First appointment	Mar. 17, 2022	Expertise	General management
Career	CEO and President, Samsung SDI		
Role within the BOD	Chair of the Management Committee Member of the Independent Director Candidates Recommendation Committee		



Name	Jong Sung Kim	Gender	Male
First appointment	Mar. 17, 2021	Expertise	Overall management
Career	Executive Vice President, Business Management Office, Samsung SDI		
Role within the BOD	Head of the Sustainability Management Office Member of the Management Committee, the Independent Director Candidates Recommendation Committee, and the Compensation Committee		of the Management mendation Committee,

1) Board members as of Mar. 17, 2022

- * New appointment: Yoon Ho Choi was appointed as an executive director at the 52nd General Shareholder Meeting held on Mar. 17, 2022
- * Directors assuming multiple positions: Jong Sung Kim, an executive director, serves as a non-executive director at Samsung Display, Oh Kyong Kwon, an independent director, serves as an independent director at the Yumin Cultural Foundation, and Won Wook Choi, an independent director, serves as an independent director at LIG Nex1.
- * Average BOD tenure: 2.3 years as of Jun. 30, 2022
- Samsung SDI Corporate Governance Report (https://www.samsungsdi.co.kr/ir/disclosure.html)

To improve the accountability of directors and the flexibility of BOD operations, the Chair of the BOD is appointed among directors – both executive and independent directors - through the decision made by the BOD.

Independent Director



Name	Oh Kyong Kwon	Gender	Male	
First appointment	Mar. 18, 2020	Expertise	Electrical and electronics industry	
Career	Professor of Electronic Engine	Professor of Electronic Engineering, Hanyang University		
Role within the BOD	Chair of the Related Party Transactions Committee Member of the Audit Committee, the Independent Director Candidates Recommendation Committee, the Compensation Committee, and the Sustainability Management Committee			



Name	Duk Hyun Kim	Gender	Female
First appointment	Mar. 18, 2020	Expertise	Law and human rights
Career	Attorney, Jin-Sung (law firm)		
Role within the BOD	Chair of the Sustainability Management Committee Member of the Audit Committee, the Related Party Transactions Committee, and the Independent Director Candidates Recommendation Committee		



Name	Tae Ju Park	Gender	Male
First appointment	Mar. 18, 2020	Expertise	Labor policy and labor relations
Career	Senior researcher, Korea University Institute for Research on Labor and Employments		
Role within the BOD	Chair of the Compensation Committee Member of the Audit Committee, the Related Party Transactions Committee, the Independent Director Candidates Recommendation Committee, and the Sustainability Management Committee		



Name	Won Wook Choi	Gender	Male
First appointment	Mar. 18, 2020	Expertise	Accounting and tax
Career	Professor at School of Business, Yonsei University		
Role within the BOD	Chair of the Audit Committee Member of the Related Party Transactions Committee, the Independent Director Candidates Recommendation Committee, and the Sustainability Management Committee		

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Advanced BOD

BOD attendance (average)

93.7%

Appointment of the BOD

Establishing the independence and transparency of the BOD

We have established a director appointment process to ensure the independence of the Board of Directors (BOD). The BOD and the Independent Director Candidates Recommendation Committee select qualified director candidates following their review on these candidates for any potential disqualifications as set forth in applicable regulations (Clause 3, Article 382 and Clause 8, Article 542 of the Commercial Act), who are then appointed through the approval granted at the general shareholder meeting. Independent directors constitute a majority of the BOD (four independent directors). To prevent any possible conflict of interest and ensure that the BOD remains independent of senior management and controlling shareholders, our directors are limited in entering into transactions with the Company in conformity with Article 398 of the Commercial Act. Furthermore, Article 10 of the Regulations for the Operation of the BOD stipulates that directors who have special interest in specific agenda items can't exercise their voting rights.

Improving the diversity of the BOD

As we are keenly aware of the importance of a diverse Board of Directors, we do not pose any limitations in appointing directors on the grounds of gender, race, religion, ethnicity, nationality or cultural backgrounds, and this is specified in our sustainability reports and corporate governance reports. We will continue with our efforts to improve the diversity of our BOD to support its objective and effective decision-making and oversight.

Reinforcing the expertise of the BOD

To enable professional deliberations on the agenda items proposed to the BOD and its subcommittees, our independent directors are appointed for their extensive knowledge and experience in business administration, economy and the electronics and battery industries in general as well as their qualifications set forth in applicable regulations or the Articles of Incorporation.

We provide independent directors with information on agenda items prior to BOD and subcommittee meetings so that they can sufficiently review such information and faithfully fulfill their management and oversight roles in so doing. To assist independent directors in better understanding our business, we regularly share our quarterly business status and outlook, and provide training at their request or when the need arises. In 2021, all independent directors received training to take stock of BOD operations and our business activities.

Training Provided to Independent Directors

Date of Training	Training Topic
May 20, 2021	 Introduction to Samsung SDI's Cheonan worksite Health and safety plans Understanding ESG management Tour around our small-sized Li-ion/automotive & ESS battery production lines
Dec. 29, 2021	Samsung's CSR implementation plan

Operation of the BOD

BOD meetings are categorized into regular meetings and ad-hoc meetings hosted when the need arises. BOD agenda items are decided by a majority of the directors present and voting for, given the quorum is reached (a majority of the total number of directors). In 2021, seven regular meetings and two ad-hoc meetings were held to deliberate and decide on a total of 36 agenda items. In particular, the introduction of an electronic voting system was discussed through regular meetings.

Attendance in BOD Meetings Held in 2021 (%)

Meeting	Executive Director	Independent Director	Total
1 st regular meeting	33.3	100	71.4
2 nd regular meeting	33.3	100	71.4
3 rd regular meeting	100	100	100
4 th regular meeting	100	100	100
5 th regular meeting	100	100	100
6 th regular meeting	100	100	100
1st ad-hoc meeting	100	100	100
7 th regular meeting	100	100	100
2 nd ad-hoc meeting	100	100	100
Average attendance	85.2	100	93.7

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Advanced BOD

BOD subcommittees

For the efficient operation of the BOD, we have six subcommittees established under the BOD that are segmented into their own expertise areas and delegated by the BOD to fulfill a portion of its functions. The Audit Committee, the Related Party Transactions Committee, and the Sustainability Management Committee are exclusively composed of independent directors, and a majority of the Independent Director Candidates Recommendation Committee and the Compensation Committee consist of independent directors.

BOD Subcommittees

(as of Jan. 2022)

		· · · · · · · · · · · · · · · · · · ·
Committee	Composition	Role
Management Committee	3 executive directors	Perform work in accordance with the Articles of Incorporation and BOD regulations and decisions Deliberate and decide on matters delegated by the BOD
Audit Committee	4 independent directors	Conduct accounting and work audits
Related Party Transactions Committee	4 independent directors	Ensure transparency in related party transactions and compliance with fair trade regulations
Independent Director Candidates Recommendation Committee	3 executive directors and 4 independent directors	Nominate independent director candidates
Compensation Committee	1 executive director and 2 independent directors	Deliberate on the remuneration limits imposed on registered directors Deliberate on other matters delegated by the BOD
Sustainability Management Committee	4 independent directors	Deliberate and decide on strategies, policies and major activities related to sustainability management Deliberate on shareholder return policies in advance

BOD Performance Appraisal and Remuneration

Independent director performance appraisal

Our independent directors receive regular performance appraisals each year for their activity. Such appraisals are conducted fairly in accordance with the set internal criteria which include both quantitative and qualitative indicators, and appraisal results are reflected in deciding their reappointment.

Independent Director Performance Appraisal System



BOD meeting attendance, number of deliberations made on agenda items, activities at the associated subcommittees



Expertise and understanding of Samsung SDI's business

BOD remuneration

The Compensation Committee deliberates on the appropriateness of limits on director remuneration, and the limit is determined at the general shareholder meeting pursuant to Article 388 of the Commercial Act. Remuneration for respective directors is paid within the approved boundary in consideration of the work assumed and the outcome of fulfilling their given mandates. Remuneration for executive directors consists of position-specific base salary and performance-based bonus.

Performance-based bonus is calculated in consideration of financial performance indicators (sales, net income, and stock prices) and non-quantitative indicators related to environmental and social performance (safety, labor relations, insolvency, corruption, security, and compliance). Remuneration for independent directors consists of base pay, welfare benefits, and diverse expenses paid to perform their work as independent directors. While remuneration for independent directors is not aligned with their performance appraisal results to ensure the independence of their decision-making, full consideration is given to the level of compensation paid by industry peers as well as risk, responsibility and time involved in performing their work to provide reasonable compensation.

Breakdown of BOD Remuneration in 20211)

Category	Unit	2021
Net payments made	KRW million	6,285
Total remuneration for executive directors	KRW million	5,926
Total remuneration for independent directors	KRW million	359
Average remuneration per executive director	KRW million	1,916
Average remuneration per independent director	KRW million	90

 Four independent directors are members of the Audit Committee, and the above data on the number of directors and their total remuneration include those independent directors and members of the Audit Committee who resigned during the fiscal year of 2021.

Ethics & Compliance

Our Approach and Management Plan

Samsung SDI operates a systemic compliance program in line with Samsung's management principle that values regulatory and ethical compliance. Our compliance program spans a wide range of areas, including cartel, related party transactions, subcontracting, trade secrets, and anti-corruption. Following the process of 'risk monitoring and prevention – training and review – improvement and follow-up management', we aim to preemptively respond to the rapidly-shifting business landscape to prevent and minimize the risk of regulatory non-compliance.

Compliance Program Operational Process



Ethical and compliance management system

Dedicated compliance organization

The Compliance Team under the direct leadership of the CEO serves as our dedicated compliance organization. The Compliance Team is headed by the Compliance Officer appointed by the BOD as stipulated in the Commercial Act. Compliance implementation units were created at the department level, and compliance chief managers in department head positions were appointed to support the establishment and dissemination of a compliance culture. The compliance chief officers assume ownership for compliance management within their own department and encourage

members to abide by compliance systems and guidelines and participate in compliance trainings, reviews and other relevant activities. In 2022, a new working-level Team Compliance Manager (TCM) program will be operated to expand self-initiated, field-driven compliance management.

Compliance Control Regulations

We operate the Compliance Control Regulations to promote fair and transparent business practices in conformity with the Commercial Act and to ensure the wholesome growth of Samsung SDI and earn trust from customers. These Regulations govern the operation of the compliance control system, authorities and obligations of the Compliance Officer, and employees' compliance obligations and compliance control activities.

Compliance system operation

We operate a compliance system to enable employees to easily obtain compliance-related information and raise their own compliance awareness in so doing. Our employees may use this system to refer to our compliance regulations and guidelines including the Compliance Control Regulations and access latest domestic and international media articles related to compliance issues. The system makes it easy for employees to register work-related inquiries and whistleblowing reports and receive necessary assistance. In 2021, all guidelines managed by the Compliance Team were amended to elevate employees' understanding of compliance and its application to their day-to-day work. To properly operate the technical data request system, we conducted relevant trainings and reviews to alert employees to the risk of regulatory non-compliance in relation to technical data.

Samsung Compliance Committee

Purpose and membership

The Samsung Compliance Committee (the 'Committee' hereinafter) was launched on February 5, 2020 to bolster compliance oversight and control at Samsung's seven major affiliates ¹⁾.

The Committee is guaranteed its independence and autonomy as an independent organization created outside of Samsung SDI. The Committee consists of six outside members including its chair and one internal member, and outside members were appointed for their expert knowledge and experience in such compliance oversight areas as law, accounting, economy, and administration.

1) Samsung SDI, Samsung Electronics, Samsung Electro-Mechanics, Samsung SDS, Samsung C&T, Samsung Life Insurance, Samsung Fire & Marine Insurance

Major activities

The Committee meets with compliance officers from participating affiliates each month, and convenes ad-hoc meetings when necessary. The Committee is notified of agenda items concerning external sponsorships and related party transactions made by affiliates to present its review opinions, and receives reports on obligatory non-compliance on the part of affiliates through separate whistleblowing channels (post, e-mail, and third-parties). Operating its own website, the Committee discloses the details of meetings held and its official statements. The Committee hosts discussion meetings with senior management from affiliates, provides compliance training to high-level executives from these affiliates, and invites compliance experts for debates among others. Samsung SDI will engage in the Committee's systems and activities to establish its own advanced compliance oversight system and programs.

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Ethics & Compliance

Ethics and Compliance Management Activities

Compliance framework

Samsung SDI operates a range of compliance programs to prevent the risk of regulatory non-compliance that may occur in the course of business conduct. We implement a 24/7 system to report contacts made with industry peers to prevent cartel from occurring, and evaluate our executives under the compliance index program to motivate them to improve their own compliance competence and advance our compliance control system. In 2022, our priority will be to fully support overseas corporations to establish their compliance framework and bolster their activities.

Review and monitoring

We conduct compliance reviews and monitoring to prevent the risk of regulatory non-compliance. Each year, departments at high risk of regulatory non-compliance are periodically reviewed for their compliance with applicable laws, regulations and contractual obligations, and review outcomes are used in conducting future trainings and reviews. Non-routine reviews are also made on risks that warrant preemptive prevention in consideration of internal/external legal issues that concern trade secrets and Fair Transactions in Subcontracting Act / Act on The Promotion of Mutually Beneficial Cooperation Between Large Enterprises and Small and Medium Enterprises. For areas where risk management is required as part of daily work routines, compliance reviews and consensus-building are made a mandatory component of the working-level decision-making process to prevent regulatory non-compliance from ever occurring.

Respective compliance implementation units, under the leadership of compliance chief managers, perform theme-specific self-reviews to take self-initiated corrective measures for risks identified, and best practices are rewarded.

Counseling and whistleblowing channels

Our compliance whistleblowing mechanism enables us to recognize and prevent regulatory non-compliance and risk factors associated with Samsung SDI. Whistleblowing reports can be submitted through wide-ranging internal/external channels, including our compliance system, our corporate website, e-mail, phone, and fax, and all such reports are handled in a confidential manner to protect the anonymity of whistleblowers. In 2022, we plan to reorganize our website and compliance system to make our whistleblowing mechanism more accessible.

Bolstering Ethics and Compliance Capabilities

Ethics and compliance management training

We operate a range of training programs to effectively implement compliance management and prevent the risk of regulatory non-compliance. Online compliance training is provided to all employees, and trendy broadcast concepts are employed in developing content to make our training more engaging and maximize learning outcomes. In addition, compliance chief managers receive training to encourage department-level self-directed activities and bolster their compliance leadership.

In providing special training on related party transactions, cartel, and trade secrets, we reflected regulatory trends, internal/external violation cases, and guidelines associated with major risks. We also provide compliance training to employees at key partners to help them strengthen their compliance management capabilities.

Expanding communication on ethics and compliance

Samsung SDI's CEO regularly states the Company's commitment to compliance both internally and externally, and executives also communicate compliance-related messages to their department members to raise compliance awareness at all levels.

Compliance chief managers at respective departments encourage their members to abide by compliance systems and guidelines and attend compliance training to fully engage employees in compliance activities. The Compliance Team regularly provides employees with compliance information to help them review the risk of regulatory non-compliance by themselves. Besides, quarterly 'SDI Compliance Letters' are sent to independent directors to share reports made by major media outlets on compliance issues and regulatory enactments and amendments. In 2021, we produced and distributed card news promoting the Compliance Team and outlining major guidelines. An idea suggestion event is also held to collect diverse compliance-related ideas from employees and reflect actionable ones into our business operations.

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Ethics & Compliance

Information Security

Samsung SDI has established an information security system governing its organization, facilities, and technology to safeguard its critical assets and key information.

As our technology portfolio includes automotive battery technology that is considered as national core technology, we are operating an industrial technology leakage prevention and management system to abide by the Act on Prevention of Divulgence and Protection of Industrial Technology. We also engage in regular reviews and improvements to minimize the risk of information security.

Information security policy

Our information security policy consists of basic principles and their implementation guidelines for the Company and employees to follow to bolster our competitive edge. We also operate a separate index to measure our security performance in the field. The scope of this policy extends to tangible/intangible information assets owned, held or generated by the Company, and the policy applies all outsiders who visit Samsung SDI including contract-based partner employees as well as our own employees.

We keep our information security policy up-to-date each year in reflection of applicable laws in Korea and overseas and security measures associated with new information technology and new security threats, and the amendments made are posted on our in-house online bulletin board.

Information security management organization

We appoint the Chief Information Security Officer (CISO) in accordance with the Act on Promotion of Information and Communications Network Utilization and Information Protection to be responsible for the security of our information communications system and the protection of our critical information assets. Our critical information assets that fall into the category of national core technology are subject to even more rigorous management by appointing the National Core Industrial Technology Security Officer.

Our information security organization at the Headquarters, in conjunction with the information security managers appointed at domestic and overseas worksites, operates the Information Security Working Group to handle all matters related to the Company's information security through close coordination.

Information security management system

We operate digital CCTVs and an access control management system to protect our employees and facilities across all our worksites and prevent unauthorized third-party access. All our worksites are made accessible only to authorized employees, and visitors are required to make access requests prior to their visit to gain permission for entry in accordance with our Visiting Arrangement System. In tandem with this, our 24/7 exit inspection system ensures that our corporate assets and critical information are not taken out of our worksites without authorization. All processes related to worksite access are contracted out to outsourcing partners. Wide-ranging IT systems are under operation to block external intrusion and detect such threats early on, to

block unauthorized outgoing transmission, and to make data accessible only through company PCs through encryption to safeguard our critical information assets.

Information security training

To elevate employees' awareness on information security, we provide all employees with information security training each year and make them sign the information security pledge. In response to the increasing number of attempts to steal critical information through the use of malicious codes, we are conducting monthly simulation-based malicious code e-mail tests to keep our employees vigilant against such threats. We also leverage wide-ranging channels, including in-house broadcasts and campaigns, to raise employees' interest in information security.

Professional training is conducted each year for information security personnel to bolster our information security capabilities and respond to the increasingly sophisticated security threats. Our 'security report reward program' encourages employees to stay alert and submit reports on security breaches to prevent security-related incidents.



Ethics & Compliance

Data Privacy

We abide by the Personal Information Protection Act to ensure that personal data of our employees, customers and visitors is not lost, stolen, leaked, falsified, fabricated or damaged. To keep personal data secure, we take technical and managerial protection measures as well as safety measures as notified by the Personal Information Protection Commission.

Data privacy policy

Samsung SDI has established the personal data processing guidelines which governs the items of personal data collected, the purpose of data processing, the duration of use, and safeguards among others for employees, customers and visitors. Pursuant to Article 29 (Duty of Safeguards) of the Personal information Protection Act, we have also developed the internal management plan to protect and manage personal data. In addition, 'image data processing device operation and management guidelines' contain provisions on matters related to the Company's image data processing devices and image data. The 'Personal Information Protection Working Group' reviews regulatory amendments on data privacy and changes in personal data processing and reflects them in our data privacy policy.

Data privacy management organization

Samsung SDI appointed the lead of the Smart IT Team as the Chief Privacy Officer (CPO) to manage systems containing personal data in a professional manner. We also created the 'Personal Information Protection Working Group' which consists of the Legal & IP Team, the Data Security Group, and the Compliance Team to play a leading role in data privacy.

In addition, review is underway to establish and operate the 'Privacy Office' under the Legal & IP Team in the second half of 2022 as a new dedicated data privacy management organization with strengthened legal expertise.

Data privacy management system

Our Chief Privacy Officer performs monthly reviews on the account of employees handling personal data, the time and location of access, the subject of data handled, and the details of tasks done to manage the work performed by these employees. When employees handling personal data download personal data, this is thoroughly verified, including justifications for such downloads. Furthermore, the implementation of our internal management plan governing access rights management, access log storage and review, and encryption measures is subject to annual reviews.

The Personal Information Protection Working Group checks any change in the items of personal data collected by the Company and the entities to which such personal data is provided. Such changes are reflected each year in gaining consent to collect and use personal data. As to customers' personal data, we operate a process to verify consent given on the collection and use of personal data prior to registering the personal data of our customers to prevent any unauthorized collection of data without prior consent.

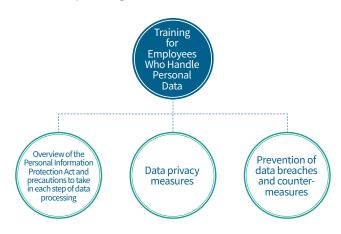
For visitors, our Visiting Arrangement System applies a prior consent process for those who make visit applications to abide by the Personal Information Protection Act.

Data privacy training

Our Chief Privacy Officer provides training at least once a year to those who handle personal data at Samsung SDI as well as employees who handle personal data at partners who have signed outsourcing contracts with us to process personal data.

Training topics are chosen each year in consideration of relevant conditions, and 388 individuals (291 Samsung SDI employees who handle personal data and 97 employees from outsourcing companies) received such training in 2021.

Data Privacy Training Content in 2021



75

1. Infinite Safety 2. Move to Net-Zero 3. Partnership with Value-Chain Partners and Community

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Advancing sustainability management requires communication with wide-ranging stakeholders as well as shareholders.

Communication is critical as it is the enabler for Samsung SDI to deliver even greater value to stakeholders and to collect stakeholder feedback to take a second look at where we are in our sustainability journey.

We define customers, partners, governments, industry associations/universities/ research institutes, communities & civic organizations, employees and shareholders & investors as our major stakeholder groups, and approach to each of these groups in a customized manner. We are also active on a range of social network channels, including our official blog, YouTube, and Facebook, to communicate our business activities, which may sound technical and dry due to the inherent characteristics of the industry, in a more engaging and easy-to-understand manner for stakeholders.

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Transparent Disclosure and Proactive Communication

Our Approach and Management Plan

We operate communication channels that reflect the characteristics of each stakeholder group to collect and reflect their varying opinions to strengthen our communication and collaboration with internal/external stakeholders.

Stakeholder		Communications in 2021		Ways to Increase Value
0.0	Customers	Customer visits QBR(Quarterly Business Review) meetings	QTR(Quarterly Technical Review) meetings Website	Bolster our product safety and quality management system from the viewpoint of customers Swiftly provide information across wide-ranging communication channels
	Partners • Operation of the purchasing portal system • SSP(Samsung SDI Partner's Association) • Exchange meetings with partners • CEO and executives' visits to partners			
	Governments	Participation in government-led projects Operation of joint cooperation programs		Participate in governmental policies and abide by laws Faithfully pay taxes Transparently disclose information
2	/LINIVarsities '		R&D (open innovation) Operation of joint cooperation programs	Support R&D Expand industry-academia cooperation
(**)	Communities & civic organizations	Operation of community councils CSR activities	Sisterhood ties	Engage employees in CSR programs Operate CSR programs in the areas of environment and education
	Employees	• Operation of the Works Council • Operation of the Counseling Center • Management briefings • Change Agent • Soll Talk • Newsletters		Implement workplace safety management activities Create an advanced corporate culture Support employees with capacity building Operate welfare & benefits programs
	Shareholders V.		General shareholder meetings IR conferences and year-round meetings Disclosures	Establish sound governance Disclose information on management status through general shareholder meetings and others

2. Move to Net-Zero

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Transparent Disclosure and Proactive Communication

Key Communication Channels

A wide array of communication channels is made available 24/7 to promptly communicate the news and intriguing stories that Samsung SDI has to offer and continuously identify and reflect stakeholder needs. In addition to content that manifests Samsung SDI's unique characteristics, these channels also serve to share overall industry trends that may interest stakeholders and information highly useful in their daily lives.

Official blog

This channel serves to efficiently deliver practical information across different subcategories. Along with stories about Samsung SDI, its products and employees, information that meets practical daily needs is provided for wide-ranging stakeholders.



Official YouTube channel

This highly interactive channel serves to communicate our business activities and product features in a more easy-to-understand and intriguing manner. Through the voice of our own employees, viewers are given a chance to indirectly experience our Company and the work performed by employees, allowing us to reach out even closer to Millennial and Generation Z job seekers and employees.







D ... I



Battery Lab

Official Facebook page

This provides an overview of the different channels used by Samsung SDI to communicate with stakeholders. This channel is distinguished for its timely delivery of corporate information including our business and latest news.





Job Description



SDI Wiki



Wow! SDI!



Materiality Assessment

Financial Performance

Sustainability Performance

GRI Standards Index

SASB Index

TCFD Index

UN SDGs

GHG Emissions Verification Statement

Independent Assurance Statement

Materiality Assessment

Issue Identification & Materiality Analysis

Samsung SDI keeps its pool of sustainability issues up-to-date on an annual basis to reflect the sustainability issues of varying international standards and initiatives, emerging social trends, and changing business agendas in Korea and abroad in its sustainability reports. In 2021, we created a pool of 23 issues through the process described below, and analyzed and selected material issues based on business impact and social concern.

Step 1. Analyze the environment

Internal Environment

- Key CEO messages for 2021 (New Year's message, inauguration speech, etc.)
- · SDI news Internal news in 2021
- Sustainability management strategy, Environmental Management 2.0 Strategy
- Executive interviews

External Environment

- · Media analysis Media articles published in relation to Samsung SDI in 2021
- Industry analysis Sustainability management issues reported by industry peers and major customers
- International standards and initiatives—GRI Standards, ISO 26000, UNGC, UN SDGs, SASB, DJSI, MSCI, KCGS
- External stakeholder surveys Joined by sustainability management experts (Apr. 2022)

Step 2. Identify a pool of issues

Samsung SDI's pool of sustainability issues for 2021

Governance 3 issues ----- Labor and human rights 6 issues ----

Environment 6 issues ----- Society

6 issues is

23 issues

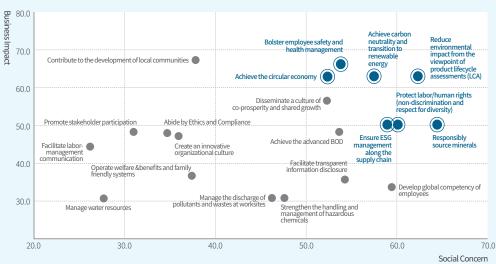
Step 3. Perform the materiality analysis

Business Impact

Business impact and internal strategic priorities

Social Concern
Social trends and level of external concerns

Materiality Matrix



Reporting of Material Issues

Rank	Material Issue	Reporting Topic	Page	GRI Standards Disclosure
1	Reinforce product safety and quality management	1. Infinite Safety > Product safety	22-28p	416-1, 2
2	Reduce environmental impact from the viewpoint of product lifecycle assessments (LCA)	2. Move to Net-zero > Action for Climate Crisis	42p	Non-GRI
3	Achieve carbon neutrality and transition to renewable energy	2. Move to Net-zero > Action for Climate Crisis	35-41p	305-1~5
4	Bolster employee safety and health management	1. Infinite Safety > People Safety	29-34p	403-1~9
5	Achieve the circular economy	2. Move to Net-zero > Circular Economy and Environmental Impact Management	43-44p	301-2
6	Ensure responsible mineral sourcing	4. Accountability in Value Chain > Supply Chain Management	59-61p	308-1~2, 414-1~2
7	Protect labor/human rights (non-discrimination and respect for diversity)	4. Accountability in Value Chain > Labor/Human Rights	62-64p	412-1~2
8	Ensure ESG management along the supply chain	4. Accountability in Value Chain > Supply Chain Management	56-58p	Non-GRI

UN SDGs

52nd as of Dec. 31, 2021 51st as of Dec. 31, 2020 50th as of Dec. 31, 2019

(unit: KRW)

Financial Performance

Consolidated Statement of Financial Position

End of 52nd End of 51st End of 50th Item Assets Total current assets 7,444,907,068,203 5,657,405,165,394 5,181,414,896,890 Cash and cash equivalents 2,325,692,348,376 1,545,974,321,801 1,156,295,420,684 Trade and other receivables, net 2,195,425,598,789 1,870,381,153,317 2,015,345,598,328 2,487,316,318,701 1,810,785,260,639 1,707,920,528,827 Inventories, net Other investments 164,541,358,730 167,037,269,633 135,761,635,931 258,708,109,360 256,395,938,005 154,545,416,286 Other assets Current derivative assets 13,223,334,247 6,831,221,999 11,546,296,834 18,388,285,928,733 15,876,827,101,435 14,670,681,551,114 Total non-current assets Long-term trade and other receivables, net 13,538,047,881 25,279,489,150 27,812,097,927 Investments in equity-accounted investees 7,885,424,300,376 7,143,396,948,925 6,763,177,128,524 Property, plant and equipment, net 7,635,995,590,121 6,128,099,170,818 5,426,843,174,367 Intangible assets, net 798,911,068,282 793,573,297,061 831,370,661,521 Investment property 150,410,177,327 150,502,139,591 153,656,745,607 Deferred tax assets 140,864,868,927 96,846,429,192 85,799,169,237 Other non-current investments, including 1,572,410,115,693 1,358,684,147,489 1,262,913,960,187 derivatives Other non-current assets 105,884,740,957 106,629,882,558 113,253,135,231 Non-current derivative assets 84,847,019,169 73,815,596,651 5,855,478,513 Total assets 25,833,192,996,936 21,534,232,266,829 19,852,096,448,004 Liabilities Total current liabilities 6,461,285,795,016 4,983,633,140,961 3,741,522,650,216 Trade and other payables 3,269,446,524,533 1,809,091,871,927 1,434,987,949,747 Income taxes payable 126,201,165,219 44,391,708,778 72,873,576,031 Advance received 211,277,273,149 353,726,970,697 60,860,323,805

Item	End of 52 nd	End of 51st	End of 50 th
Unearned revenue	39,131,549,681	17,761,781,525	5,513,614,118
Short-term borrowings	2,510,216,802,997	2,427,504,179,850	1,766,474,985,603
Derivative liabilities	2,330,249,501	28,783,093,680	0
Provisions	302,682,229,936	302,373,534,504	400,812,200,912
Total non-current liabilities	4,175,207,887,065	3,191,672,237,752	3,450,228,602,652
Trade and other payables	265,947,483,830	210,040,906,245	239,328,868,322
Long-term advance received	35,429,209,729	1,344,199,495	2,863,948,796
Long-term unearned revenue	0		2,395,580,692
Long-term borrowings	2,107,760,803,273	1,484,319,604,943	1,801,994,890,105
Employee benefit liabilities, net	9,358,262,362	38,705,231,267	61,489,160,231
Derivative liabilities	10,016,686,557		2,420,075,456
Provisions	93,311,709,876	79,823,289,635	99,138,643,473
Deferred tax liabilities	1,653,383,731,438	1,377,439,006,167	1,240,597,435,577
Total liabilities	10,636,493,682,081	8,175,305,378,713	7,191,751,252,868
Total shareholders' equity			
Equity attributable to owners of the Parent Company	14,704,264,131,372	12,977,616,019,092	12,324,936,720,467
Capital stock	356,712,130,000	356,712,130,000	356,712,130,000
Capital surplus	5,001,974,693,202	5,001,974,693,202	5,001,974,693,202
Other capital	-345,131,583,767	-345,131,583,767	-345,131,583,767
Accumulated other comprehensive income	1,174,235,557,799	545,959,019,790	404,513,003,532
Retained earnings	8,516,473,334,138	7,418,101,759,867	6,906,868,477,500
Non-controlling interests	492,435,183,483	381,310,869,024	335,408,474,669
Total stockholders' equity	15,196,699,314,855	13,358,926,888,116	12,660,345,195,136
Total liabilities and equity	25,833,192,996,936	21,534,232,266,829	19,852,096,448,004

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Item	End of 52 nd	End of 51st	End of 50 th
Revenue	13,553,220,248,796	11,294,770,446,035	10,097,426,164,132
Cost of sales	10,475,602,069,114	8,914,217,432,960	7,882,255,450,606
Gross profit	3,077,618,179,682	2,380,553,013,075	2,215,170,713,526
Selling, general and administrative expenses	2,010,042,579,185	1,709,217,654,651	1,752,994,251,257
Operating income	1,067,575,600,497	671,335,358,424	462,176,462,269
Otherincome	51,960,888,011	50,205,002,985	82,720,339,943
Other expenses	93,328,475,158	147,740,368,241	89,624,717,352
Financial income	547,619,989,802	528,826,123,713	314,411,076,884
Financial cost	440,534,600,273	591,925,690,538	383,670,661,559
Share of profit of equity accounted investees	530,041,919,350	292,710,207,317	178,629,731,183
Profit before income taxes	1,663,335,322,229	803,410,633,660	564,642,231,368
Income tax expenses	412,933,761,988	172,444,336,134	162,275,801,799
Profit for the year	1,250,401,560,241	630,966,297,526	402,366,429,569
Other comprehensive income	629,464,562,852	136,609,851,168	138,715,909,426
Items that will never be reclassified to profit or loss	232,418,639,469	59,405,681,279	36,230,016,544
Remeasurements of defined benefit liability	-5,968,133,542	4,557,253,690	5,897,603,445
Unrealized net changes in fair value of FVOCI financial assets	312,538,060,698	73,814,357,496	41,532,379,368
Related tax	-74,151,287,687	-18,965,929,907	-11,199,966,269
Items that are or may be reclassified to profit or loss	397,045,923,383	77,204,169,889	102,485,892,882
Change in equity of equity-method accounted investees	191,618,539,908	60,009,573,086	21,850,440,243
Change in gain on translation of foreign operations	238,564,516,062	-26,482,304,334	60,421,135,318
Effective portion of unrealized changes in fair values of cash flow hedges	17,423,534,765	77,530,704,627	28,819,436,259
Related tax	-50,560,667,352	-33,853,803,490	-8,605,118,938

52nd from Jan. 1, 2021 to Dec. 31, 2021 51st from Jan. 1, 2020 to Dec. 31, 2020 50th from Jan. 1, 2019 to Dec. 31, 2019 (unit: KRW)

Item	End of 52 nd	End of 51st	End of 50 th
Total comprehensive income	1,879,866,123,093	767,576,148,694	541,082,338,995
Profit attributable to:			
Owners of the Parent Company	1,169,801,394,611	574,723,493,870	356,548,860,592
Non-controlling interests	80,600,165,630	56,242,803,656	45,817,568,977
Total comprehensive income attributable to:			
Owners of the Parent Company	1,793,592,722,080	719,623,908,425	493,820,676,756
Non-controlling interests	86,273,401,013	47,952,240,269	47,261,662,239
Earnings per share			
Ordinary share – Basic earnings per share	17,492	8,593	5,331
Preferred share – Basic earnings per share	17,542	8,643	5,381

Sales by Business Division

(unit: KRW billion)

Item	End of 52 nd	End of 51st	End of 50 th
Energy solution	10,947	8,729	7,719
Electronic materials	2,606	2,566	2,378
Total	13,553	11,295	10,097

Economic Value Generated and Distributed

(unit: KRW billion)

Category	Stakeholder	Item	Amount
Economic Value Generated	Customers	Sales	13,553
	Partners	Purchase, Shared growth support	9,057
Economic Value	Employees	Wage, Retirement benefits, Welfare and benefits expenditures, Training expenditures	1,988
Distributed	Shareholders and Investors	Dividend, Interest	124
	Governments	Corporate taxes paid	413
	Communities	CSR expenditures	9

Economic Performance

Production

Business Division		Unit	2019	2020	2021
	Small-sized battery	Million cells	1,505	1,537	1,877
Energy solution	Automotive battery	Million cells	49.3	77.1	105.2
	ESS	Million cells	8.6	14.8	20.3
Electronic Materials	Polarizing film	1,000 m ²	91,055	96,356	98,802

Taxes Paid by Country and Continent

Category	Unit	2019	2020	2021
Korea	KRW	16,712,913,854	10,770,144,804	117,804,568,306
Japan	KRW	419,806,405	270,427,271	310,057,934
Americas and Europe	KRW	25,575,647,189	37,120,086,061	66,167,763,563
China and Southeast Asia	KRW	18,667,713,476	37,964,819,171	64,448,381,528
Latin America	KRW	30,445,256	0	0
Hong Kong	KRW	1,866,373,510	1,431,640,895	1,195,988,694

Samsung SDI complies with tax laws in countries where it operates and faithfully fulfills its tax filing and payment obligations. We assess tax risks from multiple aspects, and review our global worksites and respective partners to prevent tax-related risks. To respond to regulations intended to prevent tax avoidance and tax evasion, we constantly monitor the guidelines adopted by tax authorities as well as domestic/international tax laws, and reflect monitoring outcomes in our tax policy.

Contributions Other Spendings¹⁾

Category	Unit	2021
Lobbying, interest representation or similar	KRW million	0
Local, regional or national political campaigns/ organizations / candidates	KRW million	0
Trade associations or tax-exempt groups (e.g., think tanks) ²⁾	KRW million	795

- 1) Samsung SDI does not make political donations accordance with Article 31 of the Political Fund Act.
- 2) 3 largest contributions in 2021
- Korea Chamber of Commerce and Industry(KRW 173 million)
- Korea Battery Industry Association(KRW 225 million)
- Korea Display Research Association (KRW 45million)

Infinite Safety – Product Safety

Development of Qualify Workforce

Category	Unit	2019	2020	2021
Quality management training hours ¹⁾	No. of hours	739	42	117

1) In 2020, no training other than legally-mandatory training was provided due to COVID-19.

Customer Satisfaction Score¹⁾

Business Division	Category	Unit	2019	2020	2021
	Customer satisfaction score		85.7	85.1	91.9
Small-sized Li-ion Battery	Companies surveyed	No. of companies	21	15	22
1	Customers surveyed	No. of persons	21	15	22
	Customer satisfaction score	Point	82.8	81.2	81.0
Automotive & ESS Battery	Companies surveyed	No. of companies	5	5	4
,	Customers surveyed	No. of persons	5	5	4

1) Electronic Materials Business, amid the COVID-19 pandemic, did not conduct customer satisfaction surveys in 2021.

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Infinite Safety – People Safety

Occupational Injury

Materiality Assessment

Category		Unit	2019	2020	2021
Employees	Injuries	No. of cases	10	4	61)
	Accident rate (accidents) (No. of injured employees/No. of employees X 100)		0.038	0.014	0.021
	- Domestic	%	0.055	0.028	0.037
	- Overseas	%	0.025	0.006	0.011
	Illness rate		0	0	0
	Fatalities	No. of persons	0	0	1
	Injuries	No. of cases	3	1	1
In-house partners	Accident rate (accidents) (No. of injured employees/No. of employees X 100)	%	0.051	0.019	0.035
	Fatalities	No. of persons	0	0	0

¹⁾ Accidents in grade D or higher that involved Samsung SDI employees (4 cases in Korea, 2 case overseas)

Detailed Occupational Injury Data in 2021

Category		Unit	Domestic	Overseas	Total
	Injury frequency rate	(No. of injuries/No. of annual work hours ¹⁾) X1,000,000	0.154	0.046	0.087
Employees	Loss rate	(No. of lost work days/No. of annual work hours) X1,000,000	12.931	174.061	113.545
Employees	Injury rate (accidents + illnesses) (No. of injured employees / No. of employees X 100)	%	0.037	0.011	0.021
	Injury frequency rate	(No. of injuries/No. of annual work hours) X1,000,000	0.259	0	0.145
In-house	Loss rate	(No. of lost work days/No. of annual work hours) X1,000,000	65.339	0	22.117
partners	Injury rate (accidents + illnesses) (No. of injured employees / No. of employees X 100)	%	0.125	0	0.052
Employees	Injury frequency rate	(No. of injuries/No. of annual work hours) X1,000,000	0.167	0.056	0.096
+ in-house	Loss rate	(No. of lost work days/No. of annual work hours) X1,000,000	19.687	142.594	98.387
partners	Injury rate (accidents + illnesses)	%	0.048	0.013	0.026

¹⁾ Annual work hours = 8 hours X 300 days X No. of employees

EHS (Environment, Health & Safety) Reviews and Audit

UN SDGs

	Category		Unit	2019	2020	2021
	EHS meetings supervised by the CEO		No. of meetings	6	6	5
	Improvement tasks identified through EHS audits	Domestic	No. of cases	660	475	2421)
		Overseas	No. of cases	259	160	72

GHG Emissions Verification Statement

Safety Job Qualification Training

Category	Unit	2019	2020	2021
Completion of safety job qualification training	%	100	99.9	100
Employees to be trained ¹⁾	No. of persons	1,225	1,942	2,002
Employees who completed training	No. of persons	1,225	1,940 ²⁾	2,002

¹⁾ Full-time and contract employees are included

Acquisition of National Health & Safety Engineer Qualifications

Category	Unit	2019	2020	2021
Employees with industrial engineer and above qualifications ¹⁾	%	60	51	60
Employees with master engineer and above qualifications ²⁾	%	32	23	24

¹⁾ Qualifications recognized within the Safety and Environment Group (industrial safety engineers, industrial hygiene management engineers, firefighting equipment engineers + masters and technicians)

¹⁾ Due to COVID-19, the audit was scaled down.

²⁾ In 2020, two employees did not take the performance test.

²⁾ Qualifications recognized within the Safety and Environment Group (masters and technicians)

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Move to Net-Zero – Action for Climate Crisis

GHG Emissions

Category		Unit	2019	2020	2021
Total emissions (the sum of direct/indirect emissions)		tCO ₂ e	1,275,165	1,399,528	1,573,530
	Direct emissions	tCO₂e	162,873	183,925	225,594
Direct/indirect	Indirect emissions	tCO ₂ e	1,112,292	1,215,603	1,347,936
emissions	Direct/indirect emissions intensity	tCO₂e/KRW 100 million	12.6	12.4	11.6
	Employees' business travel	tCO₂e	5,529	1,673	2,193
	Product transport	tCO ₂ e	574	568	621
Other emissions	Fuel energy	tCO ₂ e	-	-	223,150
	Waste	tCO ₂ e	-	-	9,977
Duragion	Domestic	tCO ₂ e	536,928	561,197	587,846
By region	Overseas	tCO₂e	738,237	838,331	985,684
	Small-sized battery	tCO ₂ e	667,370	763,831	868,223
By product	Automotive & ESS battery	tCO ₂ e	371,585	393,962	454,820
	Electronic materials	tCO₂e	190,291	195,817	184,720
	R&D and others	tCO ₂ e	45,919	45,918	65,767

Energy Consumption

Category	Unit	2019	2020	2021
Company-wide consumption	TJ	21,297	23,661	27,464
- Domestic consumption	TJ	11,145	11,601	12,186
- Overseas consumption	TJ	10,152	12,060	15,278
Company-wide consumption intensity	TJ/KRW 100 million	0.21	0.21	0.20

Move to Net-Zero – Circular Economy

Waste Generation and Disposal

		11.2	2010	2022	2001
Category		Unit	2019	2020	2021
Total generatio	n	Ton	123,174	143,373	175,143
- Domestic gen	eration	Ton	56,417	71,097	74,151
- Overseas gen	eration	Ton	66,756	72,276	100,992
Company-wide generation intensity		Ton/KRW 100 million	1.22	1.27	1.29
Designated waste generated		Ton	56,443	64,050	86,627
	Recycling rate	%	94	96	96
Domestic	Landfill rate	%	0.6	0.5	0.2
0	Recycling rate	%	89.4	77.3	89.7
Overseas	Landfill rate	%	5.7	6.3	4.4
	Incineration	Ton	6,416	14,316	8,797
Waste	Landfill	Ton	4,120	4,859	4,567
disposal	Recycling	Ton	112,624	124,183	161,767
	Others (neutralization, etc.)	Ton	14	15	11

Move to Net-Zero – Environmental Impact Management

Water Withdrawal

Category	Unit	2019	2020	2021
Company-wide withdrawal	Kiloton	7,640	7,966	8,715
- Domestic withdrawal	Kiloton	3,669	3,900	4,019
- Overseas withdrawal	Kiloton	3,971	4,066	4,696
Company-wide withdrawal intensity	Kiloton/KRW 100 million	0.08	0.07	0.06

Effluent Discharge

Category	Unit	2019	2020	2021
Company-wide discharge	Kiloton	3,329	3,454	3,349
- Domestic discharge	Kiloton	2,122	2,299	2,038
- Overseas discharge	Kiloton	1,207	1,155	1,311
Company-wide discharge intensity	Kiloton/KRW 100 million	0.03	0.03	0.02

Pollutant Generation

Category		Unit	2019	2020	2021
	BOD	kg/KRW 100 million	0.20	0.11	0.20
Water pollutant discharge intensity	COD	kg/KRW 100 million	0.94	0.88	0.85
,	SS	kg/KRW 100 million	0.45	0.41	0.32
	NOx	kg/KRW 100 million	0.38	0.62	0.43
Air pollutant emissions intensity	SOx	kg/KRW 100 million	0.10	0.03	0.01
errissions intensity	Dust	kg/KRW 100 million	0.29	0.56	0.34

Partnership with Value-Chain Partners and Community – Value-Chain Partnership

Purchases Made along the Supply Chain

Category	Unit	2019	2020	2021
Total purchases made	KRW 100 million	61,926	73,455	90,568
- Raw/subsidiary material purchases made	KRW 100 million	53,967	60,793	75,157
- Equipment purchases made	KRW 100 million	5,482	9,971	13,065
- MRO purchases made ¹⁾	KRW 100 million	2,477	2,691	2,346
Ratio of local purchases made by partners (based on battery business)	%	35	35	50

¹⁾ MRO (Maintenance, Repair & Operation) purchases include the purchase of packaging materials.

Shared Growth Support and Performance

Category		Unit	2019	2020	2021
Financial	Direct support (credit assistance for molding fees, etc.)	KRW 100 million	144	135	158
support	Contributions to the win-win fund ¹⁾	KRW 100 million	450	450	650
	Special support (training, etc.) ¹⁾	KRW 100 million	2	2	2
	On the job training (partners)	No. of persons	821	851	1,151
	On-the-job training (partners)	No. of companies	111	89	96
Direct/indirect	Online training (partners)	No. of persons	0	35	29
management		No. of companies	0	5	48
support	Recruitment support ²⁾	No. of persons	70	52	73
		No. of companies	7	3	3
	Innovation guidance	No. of companies	8	6	6
Performance in technology support	Original trade secret certification system	No. of cases	74	52	75
and protection	Technology escrow system	No. of cases	10	8	3
Performance in new	Buyer meetings hosted	No. of cases	11	7	6
market penetration	Product exhibitions operated for partners	No. of cases	1	0	0

¹⁾ For first-, second-, and third-tier partners

Fair Trade Agreement

Category	Unit	2019	2020	2021
Samsung SDI – first-tier partners	No. of companies	109	110	111
First-tier partners – second-tier partners	No. of cases	120	129	136
Second-tier partners – third-tier partners	No. of cases	42	40	45

²⁾ Support for creating jobs for youth (aged 15 and older and 30 and under)

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Partnership with Value-Chain Partners and Community - Togetherness with Community

Employees' Participation in CSR Programs

Category	Unit	2019	2020	2021
Participation in CSR programs	%	97.8	99.1	93.6
Volunteer hours per employee in Korea ¹⁾	No. of hours/person	13.0	8.7	8.5

¹⁾ For one day each year, 8 hours are set as the target volunteer hour to encourage volunteering.

Major CSR Achievements

Category		Unit	2019	2020	2021
Green Planet	Beneficiaries	No. of persons	10,626	716	3,572
Environment School ¹⁾	Beneficiaries (cumulative)	No. of persons	36,836	37,552	41,124
Green Planet Dreaming School ²⁾	Beneficiaries	No. of persons	3,354	0	401
	Beneficiaries (cumulative)	No. of persons	3,751	3,751	4,152
Green Planet	Beneficiaries	No. of persons	4,298	0	2,414
Future Science School ²⁾	Beneficiaries (cumulative)	No. of persons	4,298	4,298	6,712
Blue Elephant ³⁾	Beneficiaries	No. of persons	0	93,862	259,339
	Beneficiaries (cumulative)	No. of persons	0	93,862	353,201

¹⁾ Green Planet Environment School was undertaken on the virtual online platform in 2020.

CSR Expenditures

Category	Unit	2019	2020	2021
Management expenses ¹⁾	KRW 100 million	22	17	13
Cash expenses ²⁾	KRW 100 million	40	51	74
Time expenses ³⁾	KRW 100 million	48	35	47

¹⁾ Directly-operated programs

Accountability in Value-Chain - SCM Risk Management

S-Partner Certification

Category	Unit	2019	2020	2021
Domestic	No. of companies	70	29	33
Overseas	No. of companies	20	26	421)
Total	No. of companies	90	55	75
Partners who failed to meet the certification criteria	No. of companies	0	0	0

^{1) 37} partners were certified with document evaluations due to COVID-19.

Third-party Audit for Cobalt Smelters & Refiners

Category	Unit	2019	2020	2021
Smelters & refiners reported	No. of companies	26	24	23
Smelters & refiners who are RMI-conformant or participating in third-party audit programs	No. of companies	17	21	22

²⁾ In 2020, training was not provided due to COVID-19.

³⁾ Data corresponds to the combined performance of five affiliates in line with change in data collection criteria.

²⁾ Donations made (Samsung year-end love your neighbor funds, etc.)

³⁾ Data for 2019 and 2020 was restated due to errors in the calculation of days worked.

Accountability in Value-Chain – Labor/Human Rights

Employee Data

Category			Unit	2019	2020	2021
Total			No. of persons	26,813	27,984	28,913
	Male		No. of persons	20,364	21,194	21,923
By gender	Female		No. of persons	6,449	6,790	6,990
	Korea		No. of persons	10,833	10,705	10,859
		Subtotal	No. of persons	12,121	12,058	12,108
	Δsia	China	No. of persons	6,687	6,782	7,213
	(excluding Korea)	Malaysia	No. of persons	2,821	2,684	2,362
		Vietnam	No. of persons	2,580	2,561	2,500
		Others	No. of persons	33	31	33
	Europe		No. of persons	3,632	4,959	5,572
Americas			No. of persons	227	262	374
	Under 30		No. of persons	12,636	12,284	12,134
By age	30~49		No. of persons	12,794	14,065	14,943
	50 and older		No. of persons	1,383	1,635	1,836
Bv	Full-time		No. of persons	23,347	24,392	25,051
employment	Contract		No. of persons	1,871	1,454	1,316
type	Dispatched ¹⁾		No. of persons	1,595	2,138	2,546

¹⁾ Domestic dispatched employees mainly assume positions of executive secretaries and interpreters, and overseas dispatched employees are responsible for manufacturing and packaging inspection among others.

Recruitment

Category		Unit	2019	2020	2021
Recruitment		No. of persons	6,792	5,512	6,271
By gender	Male	No. of persons	5,413	4,144	4,864
	Female	No. of persons	1,379	1,368	1,407
Duragion	Domestic	No. of persons	502	367	494
By region	Overseas	No. of persons	6,290	5,145	5,777

Turnover1)

Category		Unit	2019	2020	2021
Turnover		%	18.1	11.3	13.8
- Domestic to		%	1.6	1.8	2.9
- Overseas tu		%	29.6	17.7	19.7
D I	Male	%	17.4	10.8	13.6
By gender	Female	%	20.2	12.9	14.3
	Asia	%	30.0	16.9	13.1
By region	Europe	%	27.6	21.4	15.9
	Americas	%	26.6	15.0	18.5
	Under 30	%	31.3	16.9	21.6
By age	30~49	%	8.0	7.9	8.2
	50 and older	%	5.6	5.3	10.9

¹⁾ Turnover data is calculated by dividing the annual number of resignees by the annual average number of employees.

Employee Grievance Handling (domestic)

Category	Unit	2019	2020	2021
Grievances submitted	No. of cases	1,083	1,193	1,245
Grievance handling rate	%	100	100	100

Diversity and Social Equality

Category		Unit	2019	2020	2021	
Employees with disabilities		No. of persons	169	172	178	
	Leaders a	t overseas worksites ¹⁾	No. of persons	205	241	271
Local recruitment	Locally-hi	red leaders	No. of persons	113	117	158
. co. a.c c c	Locally-hi	red leaders	%	55.1	48.5	58.3
		Development	%	19.7	20.1	20.7
		Manufacturing	%	24.1	25.7	37.1
	By job category	Quality & EHS	%	36.5	36.5	38.9
		Sales & marketing	%	25.2	25.5	25.4
		Otherjobs	%	19.8	18.0	14.9
		Korea	%	13.4	13.6	14.1
Female employees	By	Asia (excluding Korea)	%	34.8	34.7	34.8
1	région	Europe	%	18.2	20.7	19.4
		Americas	%	24.2	24.8	27.8
		Rank-and-file employees	%	26.7	26.9	26.7
	By position	Managers (senior professionals and higher positions)	%	10.5	11.2	12.0
	p-0.0011	Executives (unregistered executive and higher positions)	%	5.2	6.7	8.6

¹⁾ Leader positions include group/team leaders and other leaders assuming such official positions.

Training

Category	Unit	2019	2020	2021
Total training expenditures	KRW 100 million	107	75	87
Accumulated No. of trainees	No. of persons	58,145 ²⁾	50,628	55,621
Training hours per employee ¹⁾	No. of hours/person	101	90	91
Training expenses per employee ¹⁾	KRW/person	1,120,602	765,132	876,066
Sales and marketing training expenses	KRW million	8	9	11

¹⁾ Based in Korea

Organizational Culture

Category	Unit	2019	2020	2021
Samsung Culture Index (SCI) assessment scores	Point	71.4	72.6	71.9
Change Agents selected	No. of persons	272	283	299

Welfare and Benefits

Category		Unit	2019	2020	2021
Welfare and benefits expenditures		KRW million	332,563	366,873	421,096
Parental Return-to-work ratio ¹⁾ leave Return-to-work and retention	Return-to-work ratio ¹⁾	%	99.4	100.0	95.5
	Return-to-work and retention ratio ²⁾	%	99.1	100.0	99.5

¹⁾ Ratio of employees who returned to work in the concerned year after taking parental leave the previous year.

Remuneration

Category	Unit	2019	2020	2021
Wage	KRW million	1,062,900	1,184,894	1,463,694
Retirement benefits	KRW million	74,780	84,213	102,604
Ratio of base pay by gender	Male:female	1:1	1:1	1:1

²⁾ Data on the number of trainees for 2019 was restated due to errors in data collection

²⁾ Ratio of employees who worked 12 months and longer among those who returned to work after taking parental leave the previous year.

Credibility in Corporate Governance – Advanced BOD

Composition of the BOD

Category		Unit	2019	2020	2021
Members of the	Executive Director	No. of persons	3	3	3
BOD	Independent Director	No. of persons	4	4	4
	e registered executives	No. of persons	1	1	1

Operation of the BOD

Category		Unit	2019	2020	2021
	Total	%	93.9	93.5	93.7
Average BOD Attendance	Executive Director	%	90.5	87.9	85.2
recordance	Independent Director	%	96.4	92.7	100
Average BOD tenure	Total	No. of years	4.4	1.6	2.31)

¹⁾ As of Jun. 30, 2022

Credibility in Corporate Governance – Ethics & Compliance

Ethics and Compliance Training

Category		Unit	2019	2020	2021
Compung CDI	Anti-corruption (in Korea, cumulative)	No. of persons	1,020	1011)	2331)
Samsung SDI	Ethics and compliance (in Korea, cumulative)	No. of persons	9,697	12,063	12,598
Supply chain	Ethics and compliance	No. of companies	80	50	40

¹⁾ In 2020 and 2021, the number of trainees declined as the scope of training was minimized to introductory courses for new recruits with/without previous work experience amid the COVID-19 pandemic.

Worksite Corruption Risk Assessment

Category	Unit	2019	2020	2021
Total worksites	No. of worksites	30	27	27
Worksites identified as at risk (number)	No. of worksites	2	1	0
Worksites identified as at risk (rate)	%	7	4	0

Corruption Audits and Resulting Disciplinary Measures Taken

Category	Unit	2019	2020	2021
Disciplinary measure taken as a result of corruption audits (domestic)	No. of persons	9	12	0
Business partners whose contract was terminated in relation to corruption	No. of companies	0	0	0

Compliance Audit

Category	Unit	2019	2020	2021
Compliance audits performed	No. of cases	17	22	26

Information Security Training

Category	Unit	2019	2020	2021
Information security training	No. of persons	7,041	7,639	8,786
Data privacy training provided to employees handling personal data	No. of persons	370	388	388

GRI Standards Index

Topic	Disclosure		Pages	Note
GRI 102: Gener	al Disclosu	ıre		
	102-1	Name of the organization	5p	
	102-2	Activities, brands, products, and services	6-9p	
	102-3	Location of headquarters	5p	
	102-4	Location of operations	5p	
	102-5	Ownership and legal form	5p	
	102-6	Markets served	5p	
Organization	102-7	Scale of the organization	5p, 82p, 87p	
Profile	102-8	Information on employees and other workers	87p	
	102-9	Supply chain	14p, 48-51p, 56-61p	
	102-10	Significant changes to the organization and its supply chain	20p, 48p, 56p	
	102-11	Precautionary Principle or approach	35-36p	
	102-12	External initiatives	60p, 95-96p	
	102-13	Membership of associations	82p	
Strategy	102-14	Statement from senior decision-maker	4p	
Strategy	102-15	Key impacts, risks, and opportunities	6-9p, 19-20p	
Ethics and	102-16	Values, principles, standards, and norms of behavior	15-16p, 62p, 71p	
Integrity	102-17	Mechanisms for advice and concerns about ethics	71-72p	
	102-18	Governance structure	68p	
	102-22	Composition of the highest governance body and its committees	70p	
	102-23	Chair of the highest governance body	68p	
	102-24	Nominating and selecting the highest governance body	69p	
Governance	102-26	Role of highest governance body in setting purpose, values, and strategy	17p, 19p, 37p, 68p	
Governance	102-27	Collective knowledge of highest governance body	69p	
	102-28	Evaluating the highest governance body's performance	70p	
	102-30	Effectiveness of risk management processes	19-20p	
	102-32	Highest governance body's role in sustainability reporting	17p, 37p	
	102-35	Remuneration policies	70p	
	102-36	Process for determining remuneration	70p	

Topic	Disclosu	re	Pages	Note
GRI 102: Genera	al Disclosu	ıre		
	102-40	List of stakeholder groups	76p	
	102-41	Collective bargaining agreements	62-63p	
Stakeholder Engagement	102-42	Identifying and selecting stakeholders	79p	
Engagement	102-43	Approach to stakeholder engagement	79p	
	102-44	Key topics and concerns raised	79p	
	102-45	Entities included in the consolidated financial statements	-	3-4p of the Annual Report
	102-46	Defining report content and topic boundaries	79p	
	102-47	List of material topics	79p	
	102-48	Restatements of information	-	Annotations were made when deemed necessary
Reporting Practice	102-50	Reporting period	2р	
Tractice	102-51	Date of most recent report	2р	
	102-52	Reporting cycle	2р	
	102-53	Contact point for questions regarding the report	2р	
	102-54	Claims of reporting in accordance with the GRI Standards	2р	
	102-55	GRI content index	90-92p	
	102-56	External assurance	97-98p	
GRI 103: Manag	gement Ap	proach		
Management Approach	103-1	Explanation of the material topic and its Boundary	22p, 35p, 48p, 56p, 67p, 75p	
	103-2	The management approach and its components	23p, 29p, 36p, 43p, 49p, 52p, 57p, 62p, 68p, 71p, 76p	
	103-3	Evaluation of the management approach	6-10p	

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GRI Standards Index

Economic Performance(GRI 200)

Topic	Disclosu	ıre	Pages	Note
	201-1	Direct economic value generated and distributed	81p	
GRI 201: Economic Performance	201-2	Financial implications and other risks and opportunities due to climate change	37-39p	
	201-3	Defined benefit plan obligations and other retirement plans	88p	
GRI 202: Market Presence	202-2	Proportion of senior management hired from the local community	88p	
GRI 203: Indirect	203-1	Infrastructure investments and services supported	85-86p	
Economic Impacts	203-2	Significant indirect economic impacts	50-51p	
GRI 204: Procurement Practices	204-1	Proportion of spending on local suppliers	85p	
	205-1	Operations assessed for risks related to corruption	89p	
GRI 205: Anti-Corruption	205-2	Communication and training about anti-corruption policies and procedures	71-72p	
	205-3	Confirmed incidents of corruption and actions taken	-	No such case
GRI 206: Anti- Competitive Behavior	206-1	Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	-	No such case
CDI 207. Toy	207-1	Approach to tax	82p	
GRI 207: Tax	207-4	Country-by-country reporting	82p	

Environmental Performance(GRI 300)

Topic	Disclosu	ıre	Pages	Note
GRI 301: Materials	301-2	Recycled input materials used	43-44p, 47p	
	302-1	Energy consumption within the organization	41p, 84p	
GRI 302: Energy	302-3	Energy intensity	40p	
	302-4	Reduction of energy consumption	41p, 84p	
	303-1	Interactions with water as a shared resource	47p	
GRI 303:	303-2	Management of water discharge-related impacts	47p	
Water and Effluents	303-3	Water withdrawal	47p, 85p	
	303-4	Water discharge	47p, 85p	
	305-1	Direct (Scope 1) GHG emissions	84p	
	305-2	Energy indirect (Scope 2) GHG emissions	84p	
CDI 205	305-3	Other indirect (Scope 3) GHG emissions	84p	
GRI 305: Emissions	305-4	GHG emissions intensity	35p, 84p	
	305-5	Reduction of GHG emissions	40p	
	305-7	Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	46p, 85p	
	306-1	Waste generation and significant waste-related impacts	47p	
	306-2	Management of significant waste-related impacts	47p	
GRI 306: Waste	306-3	Waste generated	47p, 84p	
	306-4	Waste diverted from disposal	47p, 84p	
	306-5	Waste directed to disposal	47p, 84p	
GRI 307: Environmental Compliance	307-1	Non-compliance with environmental laws and regulations	-	No such case
GRI 308: Supplier	308-1	New suppliers that were screened using environmental criteria	58p	
Environmental	308-2	Negative environmental impacts in the supply chain and actions taken	58p	

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GRI Standards Index

Social Performance(GRI 400)

Topic	Disclosu	re	Pages	Note
	401-1	New employee hires and employee turnover	87p	
GRI 401: Employment	401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	63-64p	
	401-3	Parental leave	63p, 88p	
	403-1	Occupational health and safety management system	29-33p	
	403-2	Hazard identification, risk assessment, and incident investigation	29-33p	
GRI 403: Occupational	403-5	Worker training on occupational health and safety	30p	
Health and Safety	403-6	Promotion of worker health	34p	
	403-9	Work-related injuries	83p	
	403-10	Work-related ill health	34p, 83p	
GRI 404:	404-1	Average hours of training per year per employee	88p	
Training and Education	404-2	Programs for upgrading employee skills and transition assistance programs	65p	
GRI 405: Diversity and	405-1	Diversity of governance bodies and employees	68-69p, 89p	
Equal Opportunity	405-2	Ratio of basic salary and remuneration of women to men	88p	
GRI 406: Non- discrimination	406-1	Incidents of discrimination and corrective actions taken	-	No such case
GRI 408 : Child Labor	408-1	Operations and suppliers at significant risk for incidents of child labor	-	No such case
GRI 409 : Forced or Compulsory Labor	409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labor	-	No such case

Topic	Disclosu	ure	Pages	Note
GRI 412:	412-1	Operations that have been subject to human rights reviews or impact assessments	62p	
Human Rights and Assessment	412-2	Employee training on human rights policies or procedures	63p	
GRI 413: Local Communities	413-1	Operations with local community engagement, impact assessments, and development programs	52-55p	
CDI 414 Consultan	414-1	New suppliers that were screened using social criteria	58p	
GRI 414: Supplier Social Assessment	414-2	Negative social impacts in the supply chain and actions taken	58p	
GRI 415: Public Policy	415-1	Political contributions	-	No political donations were made in accordance with Article 31 of the Political Fund Act
GRI 416: Customer	416-1	Assessment of the health and safety impacts of product and service categories	22-28p	
Health and Safety	416-2	Incidents of non-compliance concerning the health and safety impacts of products and services	-	No such case
GRI 417: Marketing	417-2	Incidents of non-compliance concerning product and service information and labeling	-	No such case
and Labeling	417-3	Incidents of non-compliance concerning marketing communications	-	No such case
GRI 418: Customer Privacy	418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	-	No such case
GRI 419: Socioeconomic Compliance	419-1	Non-compliance with laws and regulations in the social and economic area ¹⁾	-	p. 288 of the Annual Report

¹⁾ The Korea Fair Trade Commission imposed certain fines on Samsung SDI for inter alia noncompliance with the Fair Trade Act in two cases, but Samsung SDI filed administrative litigations in each of such cases.

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SASB Index

SASB Sustainability Disclosure - Hardware Industry & Fuel cells and Industrial Batteries

Accounting Metrics

Topic	Code	Accounting Metric	Pages (Reference)
Product Security	TC-HW-230a.1	Description of approach to identifying and addressing data security risks in products	73p
Employee Diversity & Inclusion	TC-HW-330a.1	Percentage of gender and racial/ethnic group representation for (1) management, (2) technical staff, and (3) all other employees	87p
Product Lifecycle Management	TC-HW-410a.1	Percentage of products by revenue that contain IEC 62474 declarable substances	Samsung SDI complies with global regulations such as EU RoHS and REACH as well as national laws. In addition, all raw materials and components that go into our products are subject to rigorous pre-inspections and follow-up management.
Management	TC-HW-410a.4	Weight of end-of-life products and e-waste recovered, percentage recycled	N/A *Please refer to pp.43-44 for Samsung SDI's efforts regarding recycling and reuse.
Supply Chain	TC-HW-430a.1	Percentage of Tier 1 supplier facilities audited in the RBA Validated Audit Process (VAP) or equivalent, by (a) all facilities and (b) high-risk facilities	58p
Management	TC-HW-430a.2	Tier 1 suppliers' (1) non-conformance rate with the RBA Validated Audit Process (VAP) or equivalent, and (2) associated corrective action rate for (a) priority non-conformances and (b) other non-conformances	58p
Energy Management	RR-FC-130a.1	(1) Total energy consumed, (2) percentage grid electricity, (3) percentage renewable	36p, 84p
Workforce	RR-FC-320a.1	(1) Total recordable incident rate (TRIR) and (2) fatality rate	83p
Health & Safety	RR-FC-320a.2	Description of efforts to assess, monitor, and reduce exposure of workforce to human health hazards	29p, 33p, 34p
Product End-of life Management	RR-FC-410b.3	Description of approach to manage use, reclamation, and disposal of hazardous materials	33p
Materials Sourcing	TC-HW-440a.1 RR-FC-440a.1	Description of the management of risks associated with the use of critical materials	59-61p

Activity Metric

Code	Accounting Metric	Pages (Reference)
TC-HW-000.A	Number of units produced by product category	82p
TC-HW-000.B	Area of manufacturing facilities	5р
TC-HW-000.C	Percentage of production from owned facilities	12-13p of the 2021 Annual report
RR-FC-000.A	Number of units sold	21,827,077 ¹⁾
RR-FC-000.B	Total storage capacity of batteries sold(MWh)	45,585MWh

¹⁾ The sum of small-sized batteries, automotive batteries, and ESS batteries based on the number of cells.

SAMSUNG SDI Sustainability	Report 2021	OVERVIEW	SU	JSTAINABILITY M.	ANAGEMENT	S	SUSTAINABILITY MAIN THEMES	APPENDIX	94	
Materiality Assessment	Financial Performance	Sustainahility Performance	GRI Standards Index	SASR Index	TCFD Index	LIN SDGs	GHG Emissions Verification Statement	Independent Assurance Statemer	nt.	

TCFD Index

TCFD Index

Category	TCFD Recommendation	Pages (Reference)
Governance	a) Describe the board's oversight of climate-related risks and opportunities	37p
	b) Describe management's role in assessing and managing climate-related risks and opportunities	37p
	a) Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term	37-39p
Strategy	b) Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning	37-39p
	c) Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario.	N/A
	a) Describe the organization's processes for identifying and assessing climate-related risks	38p
Risk Management	b) Describe the organization's processes for managing climate-related risks	38p
	c) Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management	38p
	a) Disclose the metrics used by the organization to assess climate related risks and opportunities in line with its strategy and risk management process	36p, 40p
Metrics and Targets	b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks	84p
	c) Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets described by the organization to manage climate-related risks and opportunities and performance against targets described by the organization to manage climate-related risks and opportunities and performance against targets described by the organization to manage climate-related risks and opportunities and performance against targets described by the organization to manage climate-related risks and opportunities and performance against targets described by the organization to manage climate-related risks and opportunities opportunities and opportunities opportunities and opportunities opportuni	36p, 40p, 84p

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UN SDGs

Samsung SDI engages in a wide spectrum of activities centered around its sustainability management strategies and material issues to contribute to the attainment of the UN Sustainable Development goals.

UN SDGs		Samsung SDI's Contribution	Pages (Reference)
3 GOOD HEALTH AND WELL-BEING	Good Health and Well-being	 Bolster the dedicated EHS organization and operate an integrated company-wide EHS system Establish a regulated/harmful substances management system and improve the work environment through process surveys Support employees' regular health check-ups, work environment surveys, health training, and illness prevention Create the company-wide COVID-19 Task Force and systemize response activities to help protect employees from infections 	29-34p
4 QUALITY EDUCATION	Quality Education	 Expand industry-academia cooperation to establish a pool of future battery professionals Operate educational programs for teenagers, including Green Planet Environment School, Green Planet Dreaming School and Green Planet Future Science School 	12p 52-54p
5 CENCER EQUALITY	Gender Equality	 Set diversity metrics for female workforce and focus on the management of such metrics Operate a parental leave program and monitor any disadvantages given to employees who take parental leave Encourage organizational-level discussions on diversity to minimize conflicts among different genders, nationalities and generations 	62-63p 88p
6 CLEAN WATER AND SANTATION	Clean Water and Sanitation	 Install a remote water quality monitoring system to constantly manage the discharge of pollutants at thresholds more stringent that legal ones Install monitoring sensors at chemical storage facilities and stormwater outlets to prevent the discharge of water pollutants as well as devices to block and recover pollutants along the stormwater passages Improve the organic/inorganic effluent storage, transport and treatment facilities at battery production locations 	46-47p
7 AFFORMALIE AND CLEAN ENERGY	Affordable and Clean Energy	 Join a domestic green pricing pilot project and an RE100 certificate trading system pilot project Expand the global adoption of renewable energy at all levels beginning with the Hungary corporation embracing renewable energy in 2021 Implement global company-wide energy saving tasks and provide local staff with energy technology skill-up training 	7p 36p 40p
8 DECENT WORK AND ECONOMIC GROWTH	Decent Work and Economic Growth	 Contribute to the expansion of the green industry through supplying small-sized batteries, automotive and ESS batteries and electronic materials Operate win-win cooperation consulting (management advisory) to help partners improve their management efficiency Arrange financial support programs – shared growth funds, joint project guarantees, etc. – to boost the operational stability of partners Support partners to establish operation/automation systems through smart factory operations 	6-9p 48-51p
9 NOUSTRY INVOICTION AND INFRASTRUCTURE	Industry, Innovation and Infrastructure	 Contribute to nurturing outstanding industrial workforce through industry-academia cooperation with third-party institutions and domestic/overseas prestigious universities Reach 6.5% in R&D investments against 2021 sales Ensure security in the domestic technology area including automotive battery-related national core technology through information security management system development and patent management 	11-12p 73-74p

Materiality Assessment Financial Performance Sustainability Performance GRI Standards Index SASB Index TCFD Index UN SDGs GHG Emissions Verification Statement Independent Assurance Statement

UN SDGs

Samsung SDI engages in a wide spectrum of activities centered around its sustainability management strategies and material issues to contribute to the attainment of the UN Sustainable Development goals.

UN SDGs		Samsung SDI's Contribution	Pages (Reference)
10 REDUCED INEQUALITIES	Reduced Inequalities	• Implement blind recruitment by eliminating all personal information – academic level, gender, nationality, religion, etc. – from applications in the hiring process • Give precedence to socially-underprivileged groups, including men of national merit and people with disabilities	62p
11 SUSTAINABLE CITIES AND COMMUNITIES	Sustainable Cities and Communities	• Contribute to reducing waste discharge by developing a system to recycle end-of-life batteries and scraps generated from the manufacturing process • Operate appropriate pollution prevention devices for each of the emitting facilities installed at worksites to manage air pollutants and mitigate impact on the nearby community • Create School Forests to reduce particulate matter levels at elementary schools located in the vicinity of worksites	43-44p 46-47p 54p
12 RESPONSIBLE CONSUMPTION AND PRODUCTION	Responsible Consumption and Production	• Establish an integrated EHS system to manage and perform real-time monitoring on workplace safety, environment, health, chemicals and disaster prevention • Perform extended Life Cycle Assessments (LCA) from manufacturing to disposal to analyze environmental impact and reduce loads throughout the entire process • Ensure supply chain traceability for all major minerals and use minerals verified through third-party audits or certified by competent bodies	30-33p 42p 60-61p
13 CLIMATE	Climate Action	 Set the goal of 'achieving carbon neutrality and 100% transition to renewable energy by 2050' to systematically reduce environmental impact Establish an end-of-life battery recovery and recycling/reuse process to minimize the environmental footprint of products Operate Green Planet Environment School as an environmental educational program for children and teens to help them learn the importance of environmental protection and proper energy use 	36p, 40p 43-44p 52p
16 PEACE JUSTICE AND STRONG INSTITUTIONS	Peace, Justice and Strong Institutions	 Operate the S-Partner Certification Program to verify and improve human rights/compliance risks at domestic and overseas worksites Reorganize the Compliance Team and operate systemic compliance programs to disseminate a culture of compliance across the board 	57-58p 71-72p
17 PARTIMERSHIPS FOR THE GOALS	Partnerships for the Goals	 Join global initiatives for responsible minerals sourcing Establish and operate a range of communication channels with major stakeholder groups, including customers, partners, governments, industry associations/universities/research institutes, communities/civic organizations, employees, and shareholder/investors 	60p 75-77p

GHG Emissions Verification **Statement**

Domestic worksites



GHG Verification Statement

Samsung SDI CO.,LTD.

✓ Verification Scope

KSA Certification, Ltd.("KSA") has conducted reasonable GHG emissions verification based on 2021 domestic Samsung SDI GHG report which includes Scope1 and Scope2 emissions.

✓ Verification Criteria

- · GHG&Energy Target Scheme, Korea ETS guideline provided by Ministry of Environment, Republic of Korea
- · KS Q ISO 14064-1,2,3 : 2019
- · 2006 IPCC Guidelines for National Greenhouse Gas Inventories

✓ Verification Conclusion

Since all nonconformities have been corrected and no additional significant errors have been found, the verification team presents an appropriate opinion on the greenhouse gas emissions and energy consumption claimed by Samsung SDI.

• 2021 Emissions

No	Business site	2021 GHG Emissions (ton CO2_eq)			
73.500		Scope1	Scope2	Total	
1	Giheung HQ and R&D	6,089	21,856	27,944	
2	Suwon Future Technology Campus	182	37,569	37,750	
3	Cheonan Plant	38,099	194,957	233,055	
4	Ulsan Plant	19,416	165,441	184,856	
5	Cheongju Plant	25,071	24,749	49,819	
6	Gumi Plant	6,365	44,637	51,001	
7	Uiwang Plant	0	3,349	3,348	
8	Rental Building(Samsung Electronics Seocho Office)	14	60	73	
	Total	95,234	492,618	587,846	

^{*} Decimal point is not considered when calculating the emission of each workplace,

May 30, 2022



KOREAN STANDARDS ASSOCIATION

Overseas worksites and other indirect emissions



GHG Verification Statement

Samsung SDI CO.,LTD.

✓ Verification Scope

KSA Certification, Ltd.("KSA") has conducted GHG emissions verification in 2021 from Samsung SDI's overseas business sites(8 locations) and other indirect emissions(Business travel, Upstream transportation and distribution(domestic), Fuel and energy-related activities, Waste generated in operations).

○ Verification Criteria

- · GHG&Energy Target Scheme, Korea ETS guideline provided by Ministry of Environment, Republic of Korea
- · ISO 14064-1,2,3 : 2019
- · 2006 IPCC Guidelines for National Greenhouse Gas Inventories

○ Verification Limitation

As the verification team conducted a sampling-based document review and interview on the activity data, there may be errors, omissions, and misrepresentations that were not discovered.

✓ Verification Opinion

Since all nonconformities have been corrected and no additional significant errors have been found, the verification team presents an appropriate opinion on the greenhouse gas emissions and energy consumption claimed by Samsung SDI.

2021 GHG Emissions

No	Business site & Scope3 category	2021 GHG Emissions (ton CO2_eq)			
		Scope1	Scope2	Scope3	Total
1	Tianjin, China(TSDI)	61,856	414,453	-	476,310
2	Xi'an, China(SAPB)	11,021	111,695	-	122,716
3	Wuxi, China(SDIW)	2,395	78,156	-	80,551
4	Vietnam(SDIV)	218	8,231	-	8,449
5	Malaysia(SDIEM)	15,940	134,468	-	150,408
6	Austria(SDIBS)	13	645	-	658
7	USA(SDIABS)	2	2,220	-	2,222
8	Hungary(SDIHU)	38,920	105,447	-	144,367
9	Business travel	-	-	2,193	2,193
10	Upstream transportation and distribution(domestic)	-	-	621	621
11	Fuel and energy-related activities (not included in Scope1 and 2)	-	-	223,150	223,150
12	Waste generated in operations	-	3	9,977	9,977
Total		130,365	855,315	235,941	1,221,622

^{*} Decimal point is not considered when calculating the emission of each workplace.

May 30, 2022



KOREAN STANDARDS ASSOCIATION

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SUSTAINABILITY MANAGEMENT

Independent Assurance Statement

To readers of SAMSUNG SDI Sustainability Report 2021

Introduction

Korea Management Registrar (KMR) was commissioned by SAMSUNG SDI to conduct an independent assurance of its Sustainability Report 2021 (the "Report"). The data and its presentation in the Report is the sole responsibility of the management of SAMSUNG SDI. KMR's responsibility is to perform an assurance engagement as agreed upon in our agreement with SAMSUNG SDI and issue an assurance statement.

Scope and Standards

SAMSUNG SDI 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 the Core Options of the GRI standards was included in the scope of the assurance. We have reviewed the topicspecific disclosures of standards which were identified in the materiality assessment process.

- GRI Sustainability Reporting Standards
- Universal standards
- Topic specific standards
- Management approach of Topic Specific Standards
- GRI 201: Economic Performance
- GRI 301: Materials
- GRI 305: Emissions
- GRI 308: Supplier Environmental Assessment
- GRI 414: Supplier Social Assessment
- GRI 416: Customer Health and Safety

As for the reporting boundary, the engagement excludes the data and information of SAMSUNG SDI'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 SAMSUNG SDI 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 SAMSUNG SDI 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 applied the Core Option of the GRI Standards. Nothing comes to our attention to suggest that the Report was not prepared in accordance with the AA1000AP (2018) principles.

Inclusivity

SAMSUNG SDI 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

SAMSUNG SDI 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

SAMSUNG SDI 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 SAMSUNG SDI's actions.

Impact

SAMSUNG SDI 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 SAMSUNG SDI and did not provide any services to SAMSUNG SDI that could compromise the independence of our work.

June 2022 Seoul, Korea







CEO E. J Havay

