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Discover Healthier Screen Time



www.healthierscreentime.com

Stop frying your eyes.

Most computer and phone screens emit light that over long periods of screen time can permanently damage eyes. E Ink's paper-like screens are different.



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About this Report

The World Economic Forum releases the "<u>Global Risks Report</u>" annually, identifying the uncertain events or conditions that pose significant risks to countries or industries worldwide. In the 2024 report, five environmental risks are listed among the top ten global risks for the next decade. Notably, "Extreme Weather Events" has risen to the number one position, alongside "Critical Changes to Earth Systems" and "Biodiversity Loss and Ecosystem Collapse" as the top three most severe long-term global risks. The risks posed by nature and climate change have become impossible to ignore. In light of the uncertainties of nature and climate change and the global energy transition, E Ink Holdings Inc. (hereafter referred to as E Ink) has integrated economic development, environmental protection, and sustainable development policies into its response strategies. The Company actively implements energy-saving, carbon-reduction, and water-saving projects, identifies and mitigates risks related to nature and climate change, develops energy-efficient products and services, and strengthens resilience against natural and climate-related risks while fostering a culture of environmental sustainability.

E Ink identifies nature and climate-related risks and opportunities based on the frameworks of the Taskforce on Nature-related Financial Disclosures (TNFD) and the Task Force on Climate-related Financial Disclosures (TCFD). The company deepens its understanding of the impacts brought by nature and climate change through risk and opportunity assessment tools. Relevant departments analyze risks and opportunities based on various factors, including policies and regulations, international initiatives and trends, technological development, market shifts, reputational risks, and short-, medium-, and long-term physical risks. Scenario analysis is introduced to set effective management measures and develop adaptation and mitigation strategies. With the support and participation of senior management, E Ink aims to enhance its resilience in addressing nature and climate change.

Editing Principles

This report references the frameworks of the Taskforce on Nature-Related Financial Disclosures (TNFD) and the Taskforce on Climate-Related Financial Disclosures (TCFD) to disclose information related to nature and climate risks and opportunities. It also utilizes the LEAP (Locate, Evaluate, Assess, and Prepare) approach as analytical methodology for identification.

Reporting Scope and Period

The report covers the operations and production of E Ink and the Company's subsidiaries, which include the Taiwan (Hsinchu, Linkou, Zhongli), China (Yangzhou), and the US (Billerica, Fremont, and South Hadley), with 100% coverage. Sales offices in other regions, including Tokyo, Japan; Seoul, South Korea; Shenzhen, China; and Eindhoven, Netherlands, do not have significant impacts on the Company's nature and climate aspects. Any additional information from other regions will be specifically noted in the report.

This report discloses E Ink's corporate management strategies, risk and opportunity identification, as well as related goals and action plans concerning nature and climate for the year 2023 (from January 1 to December 31, 2023).

Reporting Information Compilation Process

This report is E Ink's first Nature and Climate Report. The information presented in this report is collected by respective departments and reviewed by department heads, then submitted to the E Ink Corporate Sustainability Committee for data consolidation, compilation, and internal auditing. Upon completion, the report undergoes final review and approval by the Chairman before publishing.

Sustainability Contacts

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CEO's Message

ESG sustainability has become a major global trend promoted by governments, organizations, and companies. Over a decade ago, E Ink began the journey from practicing CSR to fully integrating ESG into its operations, focusing on environmental, social, and corporate governance aspects. Through years of learning and improvement, the Company is honored to be continuously listed as a member of the Dow Jones Sustainability World Index (DJSI-World) and the Dow Jones Sustainability Emerging Markets Index (DJSI-Emerging Markets). In 2023, the Company achieved significant results in the corporate sustainability domain.

With green ePaper technology and products, E Ink is dedicated to sustainable development across all aspects, including product design, green production, supply chain management, corporate governance, enterprise care, and social inclusion. This unwavering mission guides the Company, and despite a constantly changing engagement, E Ink remain steadfast in implementing sustainable practices step by step.

Embracing the Sustainable Trend, Pioneering the Future

In addition to monitoring the impact of external environmental, social, and economic factors on its operations, E lnk, adhering to the principle of Double Materiality, also emphasizes the interaction between its operations and the external environment, as well as the enhancement of positive externalities.

E Ink adopted the Task Force on Climate-related Financial Disclosures (TCFD) framework in 2019 to proactively assess and address climate-related risks and opportunities. This approach has enabled the Company to identify potential financial implications and strategic advantages. In 2021, E Ink further demonstrated its commitment by becoming a TCFD Supporter.

To broaden its focus to include natural and environmental aspects, E Ink not only began conducting preliminary disclosures in 2022 based on the pilot version of the Taskforce on Nature-related Financial Disclosures (TNFD) framework but also joined as a TNFD Early Adopter in 2023. Furthermore, E Ink completed its first Nature and Climate Report in 2024.

Prioritizing Climate, Minimizing Impact

With the global average temperature in 2023 reaching 1.45° C above pre-industrial levels, marking the warmest year on record, the environmental changes caused by climate change are intensifying

the challenges of business operations. This has further reinforced E Ink's commitment to its "Climate First" philosophy, driving the company to make even greater efforts to mitigate the environmental impact of climate change.

E Ink is dedicated to delivering high-energy-efficiency, low-carbon ePaper products. According to the FTSE Russell Green Revenues 2.0 Data Model, 99% of the Company's product sales are classified as Green Revenue. E Ink is also continuously working to reduce the carbon footprint of its products; for instance, the carbon footprint of the 6.8-inch ePaper module was reduced by 29% in 2023 compared to the previous year.

E Ink has committed to achieving 100% renewable energy use by 2030, reducing Scope 1 and Scope 2 greenhouse gas emissions by 80% compared to 2021, and reaching net-zero carbon emissions across Scopes 1, 2, and 3 by 2040. The Science Based Targets initiative (SBTi), a leading international initiative on climate change, has not only approved these targets but also recognized E Ink's net-zero goal as the most ambitious one validated through the SBTi process to date.

Through relentless efforts in setting and achieving climate goals, E Ink is actively addressing the critical challenge of climate change. By the end of 2023, E Ink had already achieved 36% renewable energy use globally, surpassing its original target of 30% by 2024. Scope 1 and Scope 2 greenhouse gas emissions were reduced by 31% compared to the 2021 baseline, significantly exceeding the SBTi target. Additionally, E Ink doubled its energy productivity in 2022 compared to the baseline year, achieving the EP100 Energy Productivity Commitment's goal of doubling energy productivity by 2040 well ahead of schedule.

Innovative Technology, Lower Emissions

Low-carbon ePaper can be utilized in smart cities, smart retail stores, and personal digital reading devices, creating sustainable digital products. Based on the 64, 000 digital bus stops in Taiwan, comparing the carbon emissions of ePaper Bus Stop and TFT-LCD Bus Stop over five years, ePaper Bus Stop generate zero carbon emissions as they can be powered by solar energy systems, whereas TFT-LCD Bus Stop generate 200,000 metric tons of carbon emissions.

In global retail stores, a comparison of the power consumption of 30 million 10-inch ePaper tags versus TFT-LCD tags and the associated carbon emissions over the past five years reveals that ePaper tags can reduce carbon emissions by 12, 000 times. When compared to the paper consumption of traditional paper tags, ePaper tags can reduce carbon emissions by 60,000 times.

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Considering 130 million eReaders used worldwide, if each eReader downloading 10 books per year, a comparison of the carbon emissions of eReaders and TFT-LCD tablets over the past five years shows that ePaper used in eReaders can reduce carbon emissions by 50 times compared to the power consumption of TFT-LCD tablets.

Grounded in Nature, Honoring Biodiversity

The 1987 publication of the United Nations' "Brundtland Report" established the foundational concept of sustainable development: "meeting the needs of the present without compromising the ability of future generations to meet their own needs." Establishing sustainable development policies is in the common interest of all nations, and safeguarding the natural environment upon which humanity depends is as crucial as addressing the severe challenges of climate change.

E Ink places great importance on the preservation of the natural environment and proactive action. The Company has established a Biodiversity and Non-Deforestation Commitment, collaborating with value chain and ecosystem partners to maintain and enhance the integrity of the biosphere. E Ink participates in the Business for Nature, advocating for government policies that support environmental action, and has joined the Science Based Targets Network (SBTN) to begin setting nature-related targets. The Company is also a member of the Taiwan Nature Positive Initiative (TNPI), engaging in discussions and actions on biodiversity conservation. Additionally, E Ink sponsors the Taiwan Environmental Information Association, providing substantial support for environmental trust operations and habitat restoration. Internally, E Ink organizes the "Environmental Protection Festivals" to promote nature conservation and encourage environmental volunteerism.

In terms of core products, E Ink's ePaper technology, which displays images using ambient light without emitting its own light, has become the first globally recognized by the International Dark-Sky Association as a light pollution-free display technology. This feature ensures that digital information displays do not disrupt communities or ecosystems, thus supporting biodiversity. Through its sustainable actions in product design, green manufacturing, green supply chain management, and environmental stewardship, E Ink is driving efforts to create a positive impact on the natural environment.

Steadfast Sustainability, Advancing Forward

E Ink firmly believes that integrity, transparency, and a robust management framework are essential foundations for the sustainable development of the Company. E Ink has established a governance and management mechanism centered around four core elements – governance, strategy, risk management, and metrics and targets – to address critical sustainability issues such as nature and climate change. This approach enables the company to not only manage risks but also seize opportunities while responding to the needs of investors and stakeholders. Within this sustainable management framework, E Ink is steadily advancing towards its short-, medium-, and long-term goals, contributing to the sustainable development of the environment, society, and economy.



Johnson Lee, CEO





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1-1 Foundation - Establishing a Comprehensive Governance Mechanism and Team Management

Organizational Structure

The Board of Directors formulates strategies and sets annual targets for addressing nature and climate change, oversees the implementation of these strategies and targets, and evaluates the performance of nature and climate-related initiatives, linking these performances to executive compensation. The Corporate Sustainability Committee, chaired by the CEO, is responsible for driving execution and reports to the Board twice a year. Governance and risk management related to nature and climate change are primarily driven by the Green Production sub-committee of the Corporate Sustainability Committee, which continuously assesses and manages the impact of nature and climate change on operations. This sub-committee also coordinates meetings with various departments to discuss annual action plans and promote sustainable development. Additionally, nature and climate-related material risks and opportunities are integrated into the company's risk management mechanism, enabling the Risk Management sub-committee of the Corporate Sustainability Committee to conduct comprehensive corporate risk management.



E Ink 2023 NATURE AND Committee		mittee	Convener / Team Leader	Governance Responsibilities	Reporting Frequency	
About this report			Board of Directors	Chairman	The Board of Directors of E lnk is the highest governing body for risk management, regularly approving management strategies for nature and climate-related risks and opportunities while overseeing the effectiveness of the overall risk management mechanism.	Twice a year
Contents CEO's Message	Board L	evel	Sustainability Development Committee	Chairman	Reviews nature and climate-related risk policies and procedures, approves risk tolerance levels and risk control priorities, makes decisions on material nature and climate-related issues, and allocates resources to ensure effective risk response.	Twice a year
01 Natural and Climate – Vision and Milestones 1-1 Foundation - Establishing a Comprehensive Governance Mechanism and Team Management 1-2 Accumulation - E Ink's Key			Remuneration Committee	Independent Director	According to the Senior Executive Remuneration Policy, the remuneration and bonuses of senior executives are evaluated and implemented based on "guaranteed compensation" and "variable compensation." The evaluation metrics for variable compensation are linked to the achievement of sustainability and risk management targets and goals ^{Note} .	Once a year
Milestones in Nature and Climate 02 Management and Response Strategies for Risks and Opportunities			Corporate Sustainability Committee	CEO	Acts as a cross-departmental communication platform for vertical integration and horizontal coordination, reviewing the corresponding strategies and long-term goals of sub-committees, coordinating, and allocating resources, and tracking execution performance to ensure that sustainability strategies are fully implemented in the Company's daily operations.	Reports to the Sustainability Development Committee twice a year; reports to the Remuneration Committee and the Board of Directors once a year.
03 Risk, Opportunity, Targets, and Actions Appendix	Operatie	onal ent Level	Risk Management Sub-committee	CFO	The Risk Management sub-committee responsible for the Company's risk management executes its duties by following risk management policies and procedures. It proactively maintains the risk management mechanism related to nature and climate change, defines risk control priorities, and assists in and supervises the execution of risk management activities across various departments.	Reports on implementation progress to the Corporate Sustainability Committee at least once a year.
			Green Production Sub-committee	Operation Center Vice Presidents	The Green Production sub-committee implements and manages actions related to nature and climate change risks and opportunities. Responsibilities include identifying and evaluating these risks and opportunities, analyzing strategic and financial impacts, formulating management guidelines based on significant nature and climate-related risk items, setting objectives and indicators, and reviewing execution status and future plans.	Reports on implementation progress to the Corporate Sustainability Committee at least twice a year.

Note: For detailed information on the Senior Executive Remuneration Policy, please refer to Chapter 2, Corporate Governance, in the 2023 Corporate Sustainability Report.



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Governance and Management Practices

E Ink adheres to its "Biodiversity and Non-Deforestation Commitment," "Safety, Health, Environment, and Energy Management Policy," and "Risk Management Policy and Procedures" to establish effective governance policies and management systems for nature and climate change. By aligning these policies and commitments with E Ink's sustainability vision, strategy, and management core, the company actively promotes initiatives such as native species conservation, climate change mitigation, greenhouse gas reduction, waste and wastewater management. These efforts aim to minimize the environmental impact of human activities and stabilize the development of natural ecosystems.

Moreover, E Ink's core product-ePaper-offers both environmental and visual benefits. As AI and IoT continue to thrive, various sectors are integrating smart devices to enhance management and operational efficiency. However, the increased use of AIoT devices also leads to higher overall energy consumption. For example, when national parks introduce electronic displays to enhance visitor communication experiences, conventional light-emitting displays, such as Thin Film Transistor Liquid Crystal Displays (TFT-LCD) and Organic Light-Emitting Diode (OLED) displays, emit artificial light that can disrupt the natural state of wildlife habitats, potentially causing harm to these environments. In contrast, ePaper, featuring sustainability, offers energy efficiency, low power consumption, and does not emit light, providing both environmental and visual benefits. To further enhance the sustainability of ePaper, E Ink has introduced a "Sustainable Product Management Policy," aiming to maximize the energy-saving and carbon-reducing benefits of ePaper technology and products from design to manufacturing.

Building on its governance of nature and climate change, E Ink aligns the management of these issues with its sustainable management^{Note} framework, encompassing four sustainability foundations, six sustainable actions, and nine sustainability topics, setting specific goals and actions related to nature and climate change.

E Ink will continue to integrate its core ePaper business with biodiversity projects, advancing the smart management of natural environments while preserving the original characteristics of natural habitats and species.

Note: For more information about E Ink's sustainable management, please refer to 2023 Corporate Sustainability Report.



E Ink 2023 NATURE AND CLIMATE REPORT

In 2023, E Ink reported 7 proposals to the Board Level Functional Committees-the Sustainability Development Committee-and 7 proposals to the Board of Directors. All reported proposals were processed in accordance with the procedures. The reported proposals are listed in the table below:

	Categories	Sustainability Actions	Sustainable Topics	Summary of Key Reporting items
About this report Contents CEO's Message	Green Production	 Transformation Path to Net Zero Environmental Impact Mitigation 	 Climate Change Mitigation and Adaption * Energy and Greenhouse Gas Management * Water Resource Management Resource Management and Circular Economy 	 Report on the Greenhouse Gas Inventory and Verification Plan for E Ink and its subsidiary Report on "Safety, Health, Environment, and Energy Management Policy" (Including Environmental Safety and Health, Climate Change, Water Resources, Waste, and Energy Management Policies) Reports twice on sustainability-related goals, KPIs, and result by the Green Production Sub-committee Risk Management- Sustainable Products
01 Natural and Climate – Vision and Milestones 1-1 Foundation - Establishing a Comprehensive Governance Mechanism and Team Management 1-2 Accumulation - E Ink's Key Milestones in Nature and Climate 02 Management and Response Strategies for Risks and Opportunities	Sustainable Products	 Product Realization and Technology Innovation Expansion of Low Carbon Products 	 Product Research, Development and Innovation * Market Expansions * Business Partnership Management 	 Reports twice on sustainability-related goals, KPIs, and result by the Sustainable Products Sub-committee Risk Management- Sustainable Products
	면 []] 다 (-) 고 8 Sustainable Supply Chain	 Developing a Green and Low- Carbon Supply Chain 	Sustainable Supply Chain Management *	 Reports on sustainability-related goals, KPIs, and result by the Sustainable Supply Chain Sub-committee Risk Management- Supply Chain
Appendix	Social Engagement	 Caring for Ecological Restoration and Friendly Environments 	Environmental Conservation	 Reports on sustainability-related goals, KPIs, and result by the Social Engagement Sub-committee Reports on stakeholders, areas of concern, and the results of communication and responses
	Jociai Liigagement			

Note 1: The above is an excerpt of related to nature and climate change to the Board of Directors in 2023. For a comprehensive list of the key decisions made by the Board of Directors in 2023, please refer to the "Operation of the Board of Director Meetings" in the 2023 Annual Report.

Note 2: *Indicates a Material Topics of sustainability management. For details, please refer to 2023 E Ink Corporate Sustainability Report.



1-2 Accumulation - E Ink's Key Milestones in Nature and Climate

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Since 2017, E Ink has gradually engaged in the management of nature and climate change issues. By 2023, the company has actively participated in both international and domestic initiatives, collaborating with multidisciplinary experts from industry, government, academia, and research institutions to promote relevant measures and regulations. In addition to working with various stakeholders to protect natural ecosystems and mitigate the impact of climate change on the environment, E Ink has been recognized with 12 international and domestic awards and certifications, acknowledging its efforts in the governance and management of nature and climate change.

Nature and Climate Accomplishments

Initiative and Advocacy



SCIENCE BASED TARGETS NETWORK GLOBAL COMMONS ALLIANCE

Science Based Targets Network (SBTN) Corporate Engagement Program.



BUSINESS **FOR NATURE**

> **RACE TO ZERO Campaigns** E Ink has committed to achieving net zero carbon emissions before 2040

Business For Nature

the loss of nature by 2030.

Science Based Targets initiative (SBTi)

Setting carbon reduction targets and achieving

net-zero carbon emissions in a scenario where

A global alliance of influential organizations and

forward-thinking businesses, pooling efforts

to advocate for ambitious policies and urging

governments to take action to halt and reverse

global temperature rise is limited to 1.5° C.



OCE TO ZERO

Low Carbon Initiatives by the European Chamber of Commerce Taiwan





PLEDG=

Taskforce on Nature-related Financial **Disclosures (TNFD) Early Adopter** Adopt the TNFD framework to manage

and disclose nature-related risks and

E Ink has joined the EP100 (Energy

launched by the Climate Group.

electronics industry in Taiwan.

Initiative to achieve net zero carbon

The world's first display manufacturer to

The Climate Pledge

join this initiative.

emissions before 2040.

Productivity) climate action initiative

opportunities.

EP100



Task Force On Climate-Related Financial Disclosure (TCFD) Supporter Initiative for voluntary Climate-

Related Financial Disclosures.

RE100

The Global Renewable Energy initiative has committed to achieving 100% use of green energy before 2050. E Ink has committed to achieving 100% use of renewable energy (RE100) by 2030.

Temperature Rising Index for Pathways

In cooperation with industry and academia, CommonWealth Magazine has launched Taiwan's first carbon disclosure platform. E Ink is a collaborative partner committed to carbon reduction targets





performance.

The United Nations Global Compact, UNGC

Since 2018, the US sites have joined the

Taiwan Nature Positive Initiative Jointly respond to global nature goals







RIPS

溫度計

The first company to join the initiative in

RE100



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Certification, Evaluation and Awards Recognitions

Member of **Dow Jones** Sustainability Indices

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Member of Dow Jones Sustainability Indices, 2023 · DJSI-World · DJSI-Emerging Markets





MSCI ESG Rating

Δ



Green Revenue 99.9%

At the annual RE 100 Leadership Awards hosted by the international renewable energy initiative RE100, E Ink was honored with the Best Newcomer award. This award recognizes new members of RE 100 who have made significant strides in reducing carbon emissions, whether through increasing the use of renewable energy within their operations or collaborating with suppliers to lower their carbon footprint and implement sustainable strategies.

2023 Carbon Disclosure Project (CDP) A- Leadership of Climate Change DISCLOSER **B** Management of Water Security 2023



2023 Carbon Disclosure Project (CDP) Supplier Engagement Leader



Winner Best newcomer

The Taiwan and Yangzhou sites have obtained ISO 50001 Energy Management System certification.

ISO 5001



E Ink collaborated with the Harvard School of Public Health on a peerreviewed study to examine the effects of display screens on human retinal cells. The research revealed:

- The light spectrum emitted by backlit or front-lit displays is a primary cause of stress on retinal cells.
- Retinal cells stressed by blue light produce reactive oxygen species (ROS), which accumulate during prolonged viewing, leading to photo-oxidative retinal damage.
- ePaper devices equipped with E Ink ComfortGaze™ front light exert three times less stress on retinal cells compared to LCD devices.
- The color temperature setting affects the stress level on retinal cells, and adjusting the color of an LCD to day or night mode is less effective than using a lighting solution designed for eye safety.
- ePaper devices without front light do not emit blue light, thus avoiding retinal cellstimulation.



E Ink's ePaper technology has been awarded the Dark Sky certification by the International Dark-Sky Association (IDA), making it the first display technology globally to receive this recognition. E Ink's ePaper features a reflective display that utilizes ambient light to show images on the screen, without emitting light. When viewed at night, the ePaper display can be illuminated with a small LED light strip, eliminating the need for excessive stray light that could disrupt communities or the environment, thereby conserving energy.

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Nature and Climate Action Timeline

2007

2020

2021

The Hsinchu sites achieved ISO 14001 certification.

• The Yangzhou sites achieved ISO 14001 certification.

- The Hsinchu and Yangzhou sites completed the 2006 greenhouse gas inventory in accordance with ISO 14064-1 and obtained external verification statements.
- The Hsinchu and Yangzhou sites completed the 2007 greenhouse gas inventory and external verification in accordance with ISO 14064-1, including a retrospective inventory of greenhouse gas emissions from 2005, and obtained external verification statements.
- Participated in the Bureau of Energy's Green Power Program for three years and received the Green Power Award.
- Among the first companies to purchase Renewable Energy Certificates (T-REC).
- The Linkou sites completed its first greenhouse gas inventory for 2015 following ISO 14064-1 and obtained an external verification statement.
- Introduced an internal carbon pricing mechanism.
- Disclosed climate-related financial information according to the Task Force on Climaterelated Financial Disclosures (TCFD) framework.

• Established the E Ink Renewable Energy Project Team.

- Among the first participants in Power Purchase Agreements (PPA).
- Planned a 2024 net-zero carbon reduction pathway.

• Established the Board Level Functional Committee "Sustainability Development Committee."

2022

2023

- Committed to setting science-based reduction targets (SBT) with a short-term goal for 2030 and a net-zero carbon emission target for 2040.
- Became the first display company to join RE 100, committing to using 100% renewable energy by 2030.
- Became the first electronics company in Taiwan to join EP100, committing to implement ISO 50001 energy management systems across all global manufacturing sites by 2030 and to double energy productivity compared to the 2018 baseline by 2040.
- Submitted the CDP Climate Change Questionnaire for the first time and received a B management rating.
- Completed identification, analysis, assessment, and implementation of climate-related risk and opportunity mitigation measures following the TCFD framework.
- Supported the "Business for Nature" initiative, advocating for government action to halt and reverse nature loss by 2030.
- Integrated and revised the Safety, Health, Environment, and Energy(SHEE) Management Policy, as well as the SHEE Management System Promotion Committee members and sub-committees, to enhance management and execution efficiency.
- Surpassed the 10% renewable energy (RE 10) target ahead of schedule, achieving a milestone of 21% renewable energy usage (RE21).
- Released the "Biodiversity and Non-Deforestation Commitment".
- Short-term, long-term, and net-zero carbon emission targets validated by the Science Based Targets initiative (SBTi) and recognized by SBTi as the most ambitious targets among those currently validated.
- Joined the "Corporate Engagement Program" of the Science Based Targets for Nature (SBTN).
- Participated in the "Taiwan Nature Positive Initiative (TNPI)Note," a nature and biodiversity advocacy platform.
- Managed and disclosed nature-related risks and opportunities based on the 0. 4 Beta Release version of the Taskforce on Nature-related Financial Disclosures (TNFD), and was listed among TNFD Early Adopters.
- Signed a Memorandum of Understanding with the Taiwan Environmental Information Association (TEIA) to actively support environmental trust operations and habitat restoration, contributing to ecological restoration and promoting environmental friendliness.
- Organized the "Environmental Protection Festival " series of activities, encouraging employees to engage in environmental protection actions and raising awareness and influence on natural environment conservation.
- Achieved 36% renewable energy usage (RE36) across global sites.

Note: TNPI was initiated by the Business Council for Sustainable Development Taiwna in 2022, inviting industries to take more proactive actions on nature and biodiversity conservation and to cultivate relevant professional talent, thereby enhancing corporate risk resilience and transparency in opportunity management.





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E Ink Collaborates with the Taiwan Environmental Information Association to Protect the Earth

The Taiwan Environmental Information Association (TEIA), established in 2001, is the official representative for "Earth Day" in Taiwan, authorized by the Earth Day Network. Beyond operating environmental media and promoting environmental education, TEIA is actively involved in advocating for and managing environmental trusts. A notable example is their management of Taiwan's first environmental trust, the Nature Valley in Qionglin Township, Hsinchu County, which they took over in June 2014. In January 2022, TEIA was entrusted with the management of the Alibang Ecological Farm in Shimen District, New Taipei City with the specific goal of rehabilitating the Taipei Grass Frog, Hylarana taipehensis, a rare and valuable wildlife species in Taiwan.

い TEIA 台灣環境資訊協會 Taiwan Environmental Information Association

During its collaboration with TEIA, E Ink organized a habitat scouting to gain a deep understanding of TEIA's work in habitat protection. This includes ecological restoration, maintaining the natural landscape and facilities, and ensuring the quality and safety of recreational areas, all of which require substantial manpower and capital. Recognizing the significant human and financial resources required for these activities, E Ink donated NTD 600,000 to TEIA in 2023. This donation aims to ensure the continued protection, transparent management, and public engagement at the environmental trust sites, including the Alibang Ecological Farm, while also supporting TEIA's daily operations.

The Alibang Ecological Farm is dedicated to conserving freshwater wetlands and low-altitude secondary forests, with a focus on restoring the habitat of the Taipei tree frog, a protected species. The origins of Alibang Ecological Farm trace back to the late 1990s when Mr. De-Chang Wang initiated the "Saving Nature" project. Since 2022, TEIA has been entrusted by Mr. De-Chang Wang to assemble a team to manage the farm. In addition to continuing the original management philosophy, the team has been working on practical measures and regulations to transform Alibang into an environmental trust site, preserving its original natural forests and wetlands.





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02 Management and Response Strategies for Risks and Opportunities



E Ink identifies nature and climate-related risks and opportunities based on the TNFD and TCFD frameworks, emerging climate change regulations, industry assessments, and cross-departmental communications. These material risks and opportunities are integrated into the company's centralized enterprise risk management mechanism. The Green Production sub-committee coordinates the planning of adaptation and mitigation responses. Every six months, the Green Production sub-committee reviews the financial and non-financial impacts of material risks of nature and climate and reports the management status to the Corporate Sustainability Committee annually. The scope of managing nature and climate-related risks and opportunities includes not only own operations but also adjacent areas to own operations, upstream and downstream activities.

Risk Identification

Corporate Risk Management

- The Green Production sub-committee reviews the financial impacts of material risk items of nature and climate every six months and reports the management status to the Corporate Sustainability Committee annually.
- The Risk Management sub-committee compiles significant status of risk management, risk assessments, and response measures, and reports to the Corporate Sustainability Committee.
- The Corporate Sustainability Committee presents a comprehensive report on nature and climate-related risks to the Sustainability Development Committee.



Risks and Opportunities Identification for Nature and Climate

- Convene a cross-departmental team responsible for disclosing nature and climate-related financial information.
- Identify short, medium, and long-term nature and climate-related risks and opportunities based on the TNFD and TCFD frameworks.
- Analyzing risk value based on the impact and likelihood in the value chain, create a nature and climate-related risk and opportunity matrix, and prioritize accordingly.
- Risks and opportunities with a risk value ≥9 are classified as material nature and climate-related risks and opportunities.
- Material nature and climate-related risks and opportunities are integrated into the company's overall risk management mechanism and prioritized for subsequent management.

 The Green Production sub-committee develops control and mitigation management plans for material risk items, reviews implementation status, and ensures continuous improvement. Note: Impact levels, including various degrees of financial and operational disruption to the Company, are classified into five categories: very low, low, medium, high, and very high. The likelihood over the next few years is also divided into five levels.

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2-1 Identification – Material Topics of Natural and Climate

Natural Biodiversity Risk Assessment Organizational Business Activities and Biodiversity Sensitivity

E Ink adopts the recommendations of the TNFD and conducts biodiversity risk assessments based on the Location, Evaluation, Assess, and Preparation (LEAP) analysis. To thoroughly understand the interaction between its overall business activities and biodiversity-sensitive areas, E Ink analyzes its six locations of global operational sites, including the Hsinchu and Linkou sites in Taiwan, the Billerica, South Hadley, and Fremont sites in the US, and the Yangzhou site in China, along with the locations of 67 significant suppliers in relation to ecosystem protection zones. To ensure the accuracy of the research, multiple databases are utilized for analysis. This analysis employs international and Taiwanese biodiversity databases, including the IUCN World Database on Protected Areas and the Biodiversity Database from Taiwan Forestry Bureau, to perform an overlay analysis of biodiversity-sensitive location with locations of global operational sites and significant suppliers.

Based on the analysis results, E Ink's six global operational sites and 67 significant suppliers, covering 89 locations in total, are not located in biodiversity-sensitive areas. Therefore, E Ink's operations do not directly impact the biodiversity of these areas. However, three operational sites (Billerica and Fermont sites in the US, and Linkou site in Taiwan) and 27 significant suppliers are situated within 2 kilometers of national wetlands or Category IV wildlife protection areas.

Therefore, E Ink will carefully manage operational sites near biodiversitysensitive areas and collaborate with suppliers to enhance monitoring, develop nature conservation plans, and provide training and guidance to ensure that the Company's business activities align with principles of natural sustainability. Furthermore, as the ePaper industry continues to grow steadily, E Ink is expanding its operational manufacturing bases. When selecting new sites, E Ink will not only comply with environmental conservation and pollution prevention regulations in each country and conduct environmental assessments but also consider LEED green building standards in the construction of new sites and office buildings. This approach aims to minimize the negative impact on natural ecosystems and fulfill E Ink's commitment to ecological conservation.

Within 500 meters of a sensitive area

None

Within 1 kilometer of a sensitive area

• Linkou sites is located near a national-level wetland

Within 2 kilometers of a sensitive area

Billerica and Fremont sites are near IV-Habitat Species
 Management Area

Not in a sensitive area

• Hsinchu, Yangzhou, and South Hadley sites

Within 500 meters of a sensitive area

 10 significant suppliers (12 sites) are located near a national-level important wetland

Within 1 kilometer of a sensitive area

• 1 significant supplier (2 sites) is located near a wildlife conservation area

Within/Outside 2 kilometers of a sensitive area

- 13 significant suppliers (13 sites) are located within 2 kilometers of a national-level wetland
- 27 significant suppliers (29 sites) are located outside 2 kilometers of an IV-wildlife conservation area

Not in a sensitive area

• 16 significant suppliers (62 sites)



Operational Sites

Eink

Operational

Sites



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About IUCN Protected Area Categories System

According to the International Union for Conservation of Nature (IUCN) Protected Area Categories System, protected areas can be classified into six categories based on these primary management objectives:

- Ia Strict Nature Reserve: Areas established for scientific research, primarily used for scientific studies and environmental monitoring. These areas typically consist of ecosystems that have not been disturbed by human activities.
- **Ib Wilderness Area:** Established to preserve the original state of the wilderness, these areas protect large expanses of untouched natural environments. They maintain their natural condition by restricting human activities, making them suitable for conserving extensive natural landscapes and ecosystems.
- II National Park: Established to conserve ecosystems and provide recreational opportunities, these areas protect large natural landscapes. They support ecosystem preservation while allowing for tourism, education, and research activities, along with moderate recreational use.
- **III Natural Monument:** Established to preserve specific natural features, these areas protect unique natural landscapes or landmarks, such as mountains, caves, and waterfalls, that possess distinctive natural or cultural value.
- IV Habitat/Species Management Area: These areas are established to achieve conservation objectives through active management. They protect specific habitats or species, often requiring proactive management measures to maintain or restore ecosystems.
- V Protected Landscape/Seascape: Established to conserve landscapes and seascapes with significant natural and cultural value, these areas allow for recreational activities. They protect scenic areas and seascapes while permitting traditional land use practices and sustainable resource utilization.
- VI Managed Resource Protected Area: Established to ensure the sustainable use of natural ecosystems, these areas combine the protection of natural resources with their sustainable utilization. They support the livelihoods and traditional cultures of local communities while conserving biodiversity.

Based on the analysis results of the LEAP approach, E Ink and its significant suppliers do not have any operational sites in highly ecologically sensitive areas such as Strict Nature Reserves, Wilderness Areas, National Parks, and Natural Monuments. Additionally, the proximity to national wetlands and habitat/species management areas has not negatively impacted these protected habitat/species management areas.



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Ecosystem Services Related Material Dependencies and Impacts Identification

E Ink has further utilized the WWF Biodiversity Risk Filter to identify the material dependency and impacts on ecosystem services at its six global operational sites and within the electronics industry. This assessment tool encompasses 8 categories and 33 indicators. The 8 categories include: Provisioning Services, Regulating & Supporting Services - Enabling, Regulating Services - Mitigating , Cultural Services, Pressures on Biodiversity, Environmental Factors, Socioeconomic Factors, and Additional Reputational Factors. According to the identify results, E Ink encounters 8 material dependencies and impacts, which are derived from the Company's dependency on Tropical Cyclones, Extreme Heat, Wildfire Hazard, Air Condition, Water Scarcity, and Landslides, as well as 2 material impact drivers including Pollution and Labor/ Human Rights.

Identification of Nature-Related Risks

Reputational

Factors

Sites of International Interest

Risk Preparation

2

2

1.5

2

1.5

2

1.5

2

1.5

1.5

1.5

1.5

1.5

1.5

WWF Biodiversity Risk Filter Levels										
www.blodiversity.hisk friter Levels										
1.0 - 1.8	1.8 - 2.6	2.6 - 3.4	3.4 - 4.2	4.2 - 5.0						
Very Low	Low	Medium	High	Very High						

CEO's Message		Analysi Natural Capita	is of the Importance of I in the Corporate Value Chain	Electronic Industry	Hsinchu	Linkou	Yang- zhou	Billerica	Fremont	South Hadley		Analysi Natural Capita	s of the Importance of I in the Corporate Value Chain	Electronic Industry	Hsinchu	Linkou	Yang- zhou	Billerica	Fremont	South Hadley
			Water Scarcity	4	2.9	2.9	2.65	3.1	3.3	2.9			Land, Freshwater and Sea Use Change	1	1.5	1.5	2.5	1.75	1.75	2
		Provisioning	Forest Productivity and Distance to Markets	0	0	0	0	0	0	0		Pressures on	Tree Cover Loss	1	2	2	2	1.5	2.5	1.5
Vision and Milestones		Services	Limited Wild Flora & Fauna Availability	0	0	0	0	0	0	0		Biodiversity	Invasives	0	0	0	0	0	0	0
02 Management and			Limited Marine Fish Availability	0	0	0	0	0	0	0			Pollution	5	4	4	4.62	3.38	3.5	3.62
Response Strategies for			Soil Condition	0	0	0	0	0	0	0			Protected and Conserved Areas	3	3.5	3.5	2	2.5	3	2.5
Risks and Opportunities			Water Condition	2	2.5	2.5	3	2	2.5	1.5	_		Key Biodiversity Areas	2	3	3	2	1.5	2	1.5
2-1 Identification – Material		Supporting	Air Condition	2	2.5	2.5	3.5	1.5	1.5	2	npac	Environmental Factors	Other important delineated areas	2	2.5	2.5	2.5	1.5	2.5	1.5
Climate		Scivices	Ecosystem condition	0	0	0	0	0	0	0	ts		Ecosystem Condition	2	2.25	2.25	1.75	2.12	2	1.88
2-2 Analysis – Natural and Climate Scenario Analysis	D		Pollination	0	0	0	0	0	0	0			Range Rarity	1	3	3	1.5	1.5	3	1.5
03 Risk, Opportunity,	epenc		Landslides	4	4.5	4.5	3	3	4.5	3			Indigenous Peoples (IPs); Local Communities (LCs) Lands and Territories	3	0	0	0	0	0	0
Targets, and Actions	lecie		Wildfire Hazard	3	2.5	2.5	3.5	3	3.5	3		Socioeconomic	Resource Scarcity: Food - Water – Air	1	2.5	2.5	2.5	1.6	1.8	1.5
Appendix	S	Regulating	Plant/Forest/Aquatic Pests and Diseases	0	0	0	0	0	0	0		Factors	Labor and Human Rights	2	3.5	3.5	3.5	3.25	3.25	3.25
		Services	Herbicide Resistance	0	0	0	0	0	0	0			Financial Inequality	2	2.5	2.5	2.5	2.5	2.5	2.5
			Extreme Heat	3	2.5	2.5	4	3	2.5	3						-	-		-	
			Tropical Cyclones	4	4.5	4.5	4.5	4	3	4										
		Cultural Services	Tourism Attractiveness	0	0	0	0	0	0	0										
			Additional Reputational Factors	1	3	3	3	3	3	3										
		Additional	Political Situation	2	2.88	2.88	2.88	2	2	2										

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The Five Drivers of Natural Changes from TNFD



Note: E Ink integrates natural and climate change issues into its corporate sustainability governance and management. Consequently, the stakeholder classification system is aligned with the corporate sustainability report. For further details on the significance of stakeholders to E Ink and the effectiveness of stakeholder engagement, please refer to the 2023 Corporate Sustainability Report



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Climate Change Risk and Opportunity Assessment

E Ink conducts risk and opportunity assessments based on the TCFD framework, industry-specific climate-related risk and opportunity results, and cross-departmental communication. This involves identifying and evaluating short, medium, and long-term risks and opportunities, as well as potential financial impacts across the Company's value chain (including upstream suppliers, own operations, and downstream customers). Additionally, significant climate-related risks and opportunities are analyzed for their impact on the Company's business, strategy, and financial planning.

E Ink identifies potential risks and opportunities by considering various categories, including policy and regulation (both current and emerging), technology, legal, market, and reputation under transition risks; acute and chronic categories under physical risks; and resource use efficiency, energy sources, market, and resilience under opportunities. In 2023, E lnk identified 15 transition risks, 5 physical risks, and 9 opportunities, totaling 29 climate change factors

Subsequently, the responsible units and the TCFD taskforce team assess the Risk Value (R) for each potential risk and opportunity. A threshold of R > 9 is used for screening, resulting in the identification of 9 material climate-related risks and opportunities. These are then addressed with subsequent climate-related management strategies.

High (R≧9)	 Transition to low-carbon manufacturing technology and processes Competitiveness of low-carbon products Increasing severity of extreme weather events Enhancing capacity for developing low-carbon products Promoting low-carbon green production Exploring new applications market for ePaper products 	Rising costs of raw materials (including electricity)	Carbon fee levy	
Risk And Opportunity Value	 Litigation risk Litigation risk Industry stigmatizatio Net-zero emissions trends Renewable energy usage requirements Increasing insurance costs Increasing the proportion of renewable energy usage 	Operations impact by drought	 Environmental management requirements by customers Changes in consumer behavior Domestic and international government/ institutional sustainability ratings 	 Opportunities Physical Risks Transition Risks
Low	 Continual rise in sustainability transition costs Increased overall financing costs Increased stakeholder concerns or negative feedback Using low-carbon alternative fuels 	 Extreme weather impacts on supply chain delivery schedule Enhancing physical infrastructure protection to improve organizational resilience Participate in carbon trading market 	 Decreased company stock value Rising sea levels Purchase climate insurance 	



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Nature Scenario Analysis

E Ink has identified six material natural-climate related risks associated with services provided by natural ecosystems, including water scarcity, air condition, landslides, wildfire hazard, extreme heat, and tropical cyclones, which defined "Natural Ecosystem Services" as a driving forces of transition risk. Additionally, an analysis of the optoelectronics industry's development, operational management, and related sustainability issues has uncovered potential impacts and risks affecting both the financial and non-financial aspects of business operations. As a result, "Trend of Regulatory Requirements" has been defined as a driving forces of physical risk. Following the recommendations of the TNFD framework, E Ink has set 2030 as the timeframe for scenario analysis, constructing four distinct natural scenarios. The company conducted thorough analyses of each scenario to assess their impacts on business activities, potential risks and opportunities, financial implications, risk and opportunity management strategies, and the stakeholders involved.

Description of TNFD Natural Scenario Setting



Trend of Regulatory Requirements

- More stringent ecological standards, such as greenhouse gas emission standards, energy efficiency standards, and biodiversity audit standards.
- The "30 x 30" consensus, which aims to protect 30% of the world's terrestrial and marine natural resources by 2030.
- Increased proportion of green spaces in urban areas.
- Stricter regulations for consumer electronics, including requirements for products to meet low energy consumption standards, increased battery recycling rates, and significantly expanded eco-design regulations for products.

Natural Ecosystem Services											
Driving Indicators	Water Scarcity	Air Condition	Landslides	Wildfire Hazard	Extreme Heat	Tropical Cyclones					
Assessment Indicators	Number of days with water scarcity/ restrictions	Number/ percentage of days with unhealthy air condition levels	Impact area of potential landslide-prone streams	Frequency of wildfire hazards	Number of days per year with extreme heat (36° c)	Number/ intensity of tropical cyclones per year					

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Scenario: Ahead of the Game

Scenario Descriptions		Specific Scenario	Impact on Business Activities		
Stricter Rregulatory Requirements	 More stringe standards. The "30 x 30" Increased pro Stricter regul battery recycl 	nt ecological standards, including greenhouse gas emission standards, energy efficiency standards, and biodiversity audit consensus, which aims to protect 30% of the world's terrestrial and marine natural resources by 2030. portion of green spaces in urban areas. ations for consumer electronics, including requirements for products to meet low energy consumption standards, increased ing rates, and significantly expanded eco-design regulations for products.	Market expectations and regulations for businesses are becoming increasingly stringent, aimed at stabilizing natural ecosystems to provide a reliable resource base for the Compar Under increasingly strict economic, social, and environmental regulations, E Ink is transforming its business model to achieve		
Recovery of natural Ecosystem Services	Water Scarcity	The Company's operational locations do not face water scarcity.	sustainable development. The overall market environment v adopt more policies, measures, and actions, including invest		
	Air Condition	The air condition in the Company's operational locations meets the World Health Organization's Air Quality Guidelines with an annual average PM2.5 concentration below 5µg/m ³ .	efficiency, recycling and reusing resources, and conducting ecological assessments of operational sites. These changes wi		
	Landslides	None of the Company's operational sites are located within area affected by potential landslides.	also impact the entire supply chain, requiring E Ink to ensure i suppliers comply with the corresponding regulatory standards		
	Wildfire Hazard	The Company's operations are not impacted by wildfire hazard.	This transition helps mitigate the risks associated with natural disasters and extreme weather events, supporting E Ink in achieving sustainable and stable operations. The continuity of		
	Extreme Heat	The Company's operational locations do not experience any days with temperatures exceeding 36° C annually.	operations and production processes will be less affected by natural climatic factors, thereby enhancing the overall stability		
	Tropical Cyclones	The frequency and intensity of tropical cyclones in the Company's operational locations remain stable.	of the business.		

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		Potential Einancial Impact		Stake	holders
Opportunity,	Risks /Opportunities	(+Positive / –Negative)	Management Approaches	Internal	External
ix	 Transitional Risks: Manufacture process must comply with regulations concerning economic, social, and environmental aspects. Suppliers may fail to meet regulatory requirements, leading to supply chain instability. Opportunities: Stricter regulations provide an advantage for green or low-carbon products. 	 Increasing procurement costs due to replacing manufacturing equipment to comply with regulations. Procuring sustainable raw materials has led to increased operating costs. Improving energy efficiency to reduce operational costs. Low-carbon products have a competitive advantage, leading to stable revenue growth. 	 Implement supply chain risk management through evaluation and audit systems to reduce potential environmental or social impacts from suppliers. Encourage suppliers to establish carbon reduction targets and utilize renewable energy to collectively minimize environmental impact. Develop a "Substitute Material Platform" to mitigate the risks associated with single-source suppliers and ensure raw material supply stability. Increase the proportion of in-house manufactured components or materials to enhance the local procurement rate. Gradually introduce environmental management systems at all sites to improve energy efficiency in production and operations, and strengthen water resource management to increase the recycling rate of process water. Plan process improvements by optimizing production inputs and raw material management to reduce excess capacity and material waste, thereby enhancing production flexibility. Establish a 4R (Reduce, Reuse, Recycle, Recovery) waste management plan to minimize resource usage and reduce waste generation and landfill disposal. 	Employees	Suppliers/ Contractors, Subcontracto

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Scenario: Go Fast or Go Home

Scenario Descriptions		Specific Scenario	Impact on Business Activities		
Stricter Regulatory Requirements	 More stringe standards. The "30 x 30" Increased pro Stricter regul battery recyc 	nt ecological standards, including greenhouse gas emission standards, energy efficiency standards, and biodiversity audit consensus, which aims to protect 30% of the world's terrestrial and marine natural resources by 2030. portion of green spaces in urban areas. ations for consumer electronics, including requirements for products to meet low energy consumption standards, increased ling rates, and significantly expanded eco-design regulations for products.	Facing continuous degradation and deterioration of natural ecosystem services and rapidly changing regulatory environments, stakeholders are increasingly pressuring companies regarding their impact on the natural environment. This presents escalating challenges for businesses.		
	Water Scarcity	The maximum number of consecutive days without rainfall per year in the Company's operational locations has increased by 1.8-5.5%.	to understand the risks faced by its global operational sites due to the degradation and deterioration of natural ecosystem		
	Air Condition	In the Company's operational locations, air condition PM2.5 levels exceed more than seven times the World Health Organization's Air Quality Guidelines annual average of $5\mu g/m^3$.	services. According to the scientific highlights of the IPCC Sixtl Assessment Report on climate change and the updated Taiwa Climate Change Assessment Report. Taiwan may experience a		
Natural Ecosystem	Landslides	The Company's operational sites are located within areas affected by potential debris flow streams.	increase of 1.8-5.5% in the number of consecutive days without rainfall during the medieval period. An increase in consecutive		
Degradation/ Deterioration	Wildfire Hazard	The incidence of wildfire hazard in the vicinity of the Company's operations has increased by 14%.	dry days or a decrease in the number of tropical cyclones cou result in insufficient rainfall, affecting available water resourc		
	Extreme Heat	In the Company's operational locations, the number of days with temperatures exceeding 36° C has increased by 6.8-8.5 days annually.	In response, E Ink is actively and rapidly implementing multiple measures, such as improving manufacturing efficiency, recycling and reusing materials, and conducting ecological assessments		
	Tropical Cyclones	In the Company's operational locations, the number of tropical cyclones has decreased by 15%, while the proportion of intense tropical cyclones has increased by 100%.	of operational sites, to help mitigate the negative impacts on the natural environment.		

	Picks (Opportunities	Potential Financial Impact	Monogoment Approaches	Stakeholders		
;у,	Risks /Opportunities	(+Positive / –Negative)		Internal	External	
ons	 Transition Risks: Adapting to rapidly changing regulations and complying with new regulatory environments. Physical Risks: Unstable water supply leading to production interruptions. Frequent climate events (extreme heat and wildfire hazard) causing operational disruptions. Opportunities: Actions such as improving manufacturing efficiency, recycling, and reusing materials enhance corporate competitiveness. 	 Increasing operational costs by investing time, manpower, and resources to adapt to new regulatory environments Additional investments in water resource management and water-saving technologies, leading to increased expenditure. Increasing operational costs due to rising insurance premiums, including fire insurance and cargo transportation insurance. Enhancing resource use efficiency to reduce operational costs. 	 Response to climate change by setting net-zero carbon reduction targets, actively participating in domestic and international initiative, and adopting the TCFD framework to identify climate-related risks and opportunities, financial impacts, and assess the effects of climate change (including extreme weather events) on the supply chain and manufacturing processes, while establishing emergency plans. Establish an environmental management system to enhance resource efficiency in production and operations, strengthen water resource management to increase the recycling rate of process water. Enhance personnel training on resource management to improve knowledge and skills related to energy conservation, carbon reduction, water conservation, and waste reduction. 	Employees	Government Agencies/Industry Associations, Suppliers/ Contractors/ Subcontractors	

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Scenario: Sand in the Gears

ecological protection.

Scenario Descriptions		Specific Scenario					on Business Act	tivities	
Regulations Become more Lenient	 Lack of clear r assessment st Absence of m Lenient penal 	natural ec candards. andatory ties and le	ological protection standards, including greenhouse ga reporting requirements for nature-related issues. egal liabilities for natural environment violations.	s emission standards, energy efficiency standards, and biol	ogical	Environmental regulations currently lack explicit provisions for the protection of the natural environment. This reduces compliance costs and pressures for companies, enhances th autonomy in resource utilization, and potentially increases economic benefits.			
	Water Scarcity	The ma 1.8-5.5	ximum number of consecutive days without rainfall per %.	r year in the Company's operational locations has increased	by	However, the intensification of natural economic of the second se	hange may lead to the es, resulting in unstable ent extreme weather		
	Air Condition	In the C Organiz	company's operational locations, air condition PM2.5 levation's Air Quality Guidelines annual average of $5\mu g/m^2$	events. Upon assessment, the potential risks in operational areas include damage to facilities and equipment, which may overheat and cease functioning, thereby increasing downtime					
Natural Ecosystem Services	Landslides	The Co	npany's operational sites are located within areas affec	ted by potential debris flow streams.		and maintenance costs. In temperatures may adverse delays in deliveries due to	and maintenance costs. In the era of global trade, high temperatures may adversely affect the supply chain, causing delays in deliveries due to weather conditions or leading to the		
Degradation/ Deterioration Extreme Heat Hazard Hazard In the Cor annually.		The inc	idence of wildfire hazard in the vicinity of the Company	deterioration or damage of certain products due to heat. In the face of increasingly lenient regulations, the degradation of natural ecosystem services poses challenges such as unstable natural resource supply and frequent extreme weather events. Without comprehensive societal planning, businesses are compelled to address ecological issues independently, often					
		In the C annuall	Company's operational locations, the number of days with temperatures exceeding 36° C has increased by 6.8-8.5 days ly.						
	Tropical Cyclones	In the C tropical	ompany's operational locations, the number of tropical cyclones has increased by 100%.	l cyclones has decreased by 15%, while the proportion of in	itense	prioritizing short-term cha solutions.	illenges over lo	ong-term fundamental	
Risks /	'Opportunities		Potential Financial Impact (+Positive / –Negative)	Management Appr	roaches		Sta Internal	keholders External	
 ¹hysical Risks: Unstable sup can result in disruptions. Frequent clin extreme high wildfire hazar operational d ransition Risks: The absence plans for eco it challenging sustainable d Dpportunities Lenient regul opportunities innovate and Green produce 	ply of water resou significant product temperatures and rd, can lead to sub lisruptions. of comprehensive logical protection of companies to evelopment. ations provide mo of or companies to develop new products cts have a competi	rces tion d sstantial e societal makes achieve re fucts. tive	 In the absence of an overall ecological protection plan, companies are forced to face environmental issues on their own, resulting in increased operating costs. The occurrence of extreme weather events disrupts the normal supply of goods, leading to operational interruptions. Enhancing employee health care leads to increased operating costs. Reducing the cost of environmental compliance for products. Increasing revenue by focusing on green products. 	 Establish and adhere to nature and climate-related within the company's own operations and in coll ecosystem partners, to jointly maintain and prom ecological system. Environmental impact mitigation by implementing system, optimizing energy use efficiency; strengther improving process water recycling rates. Response to climate change by setting net-zero caparticipating in domestic and international initiativ adopting the TCFD framework to identify climate-financial impacts. Evaluate the effects of climate change by setting process. Natural environment protection education, in col external stakeholders, promotes awareness of restoration to reduce the impact on the natural environment 	policie laborati note the an enve arbon re- e orgar related ange, in duction llaborati enviro	s and commitments, both ion with value chain and e integrity of the natural vironmental management resource management by eduction targets, actively nizations and actions, and risks, opportunities, and ncluding extreme weather , and establish emergency tion with employees and nmental protection and nt.	Employees	Suppliers/ Contractors/ Subcontractors, Customers, Community (Community/Media, NGOs/Educational Institutions)	

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Scenario: Back of the List

Descriptions			Specific Scenario	Impact o	on Business Act	ivities			
Regulations Become more Lenient	 Lack of clear massessment state Absence of massessment penalt 	tural eco ndards. ndatory es and le	ological protection standards, including greenhouse gas reporting requirements for nature-related issues. agal liabilities for natural environment violations.	s emission standards, energy efficiency standards, and biological					
	Water Scarcity	The Cor	npany's operational location do not face water scarcity.	the World Health Organization's Air Quality Guidelines with an	 The absence of clear regulations for the protection of the natural environment reduces corporate compliance costs and pressures, enhancing the company's autonomy in resource us and notentially increasing economic benefits 				
	Air Condition	annual	average PM2.5 concentration below 5µg/m ³ .	the world realth organization's Air Quality Guidelines with an	The stability of natural ec	osystems provid	systems provides a stable foundation		
Recovery of Natural	Landslides	None of	f the Company's operational sites are located within are	ly. The low risk of natural disasters ents aids in achieving sustainable and ing that production processes, supply					
Ecosystem Services	Wildfire Hazard	The Cor	npany's operations are not impacted by wildfire hazard	chains, and transportation factors, thus enhancing or	chains, and transportation are not disrupted by natural climatic actors, thus enhancing overall business stability.				
	Extreme Heat	The Cor	npany's operational location do not experience any day	rs with temperatures exceeding 36° C annually.					
	Tropical Cyclones	The free	quency and intensity of tropical cyclones in the Compan	ny's operational location remain stable.					
Picke									
	(Opportunition		Potential Financial Impact	Management Annroachag		Stal	keholders		
	/Opportunities		Potential Financial Impact (+Positive / –Negative)	Management Approaches		Stal Internal	keholders External		

Climate Scenario Analysis

E Ink 2023 NATURE AND CLIMATE REPORT According to E Ink's climate change risk and opportunity analysis, five risk factors and four opportunity factors have been identified as annual material climate-related risks and opportunities. The five risk factors include the transition to low-carbon manufacturing technology and processes, carbon fee levies, the increasing severity of extreme weather events (such as typhoons, floods, and landslides), the competitiveness of low-carbon products, and rising costs of raw materials (including electricity). The four opportunity factors include exploring new market applications for ePaper products, increasing market demand for environmentally friendly products, promoting low-carbon green production, and enhancing capacity for developing low-carbon products. By incorporating corresponding risk and opportunity scenarios, the company assesses the potential financial impacts of these factors and subsequently develops management strategies and measures to mitigate potential risks.

	Ris	sk Factors	Risk Description	Range of Impact	Potential Financial Impact (+Positive / –Negative)	Derived Opportunities	Management Approaches
About this report Contents CEO's Message	Market	Rising costs of raw materials, including electricity	The global efforts to curb the development of the fossil fuel industry have led to rising costs of raw materials (including electricity) and freight. Additionally, as temperatures increase, electricity consumption also rises.	Upstream/ Operations	 Increased electricity costs raise operating expenses. Increased raw material costs raise operating expenses. Improved energy efficiency reduces operating expenses. 	Promote low-carbon green production	 Planning net-zero carbon emissions pathway. Actively improving the operational efficiency of manufacturing equipment, with an estimated investment of NTD 24 million over the next three years. This is expected to reduce 939 metric tons of CO₂e emissions annually and save NTD 10.07 million in electricity costs each year. Enhancing the operational efficiency of facility equipment with an investment
01 Natural and Climate – Vision and Milestones 02 Management and Response Strategies for Risks and Opportunities 2-1 Identification – Material Topics of Natural and Climate 2-2 Analysis – Natural and Climate Scenario Analysis 03 Risk, Opportunity, Targets, and Actions	Policy and Legal	Carbon fee levy	According to the Climate Change Response Act, Taiwan is expected to impose a carbon fee on companies emitting more than 25,000 tons of CO_2 per year as early as 2024. Both companies and their supply chains will be subject to regulation. Additionally, with the global consensus on achieving net-zero carbon emissions by 2050, companies may face substantial carbon costs in the future.	Upstream/ Operations	 Carbon levy increases operating costs. Purchasing energy-efficient equipment increases capital expenditures Reducing carbon emissions lowers operating costs. 	-	 of NTD 8 million to replace the cooling towers. This is expected to reduce 247 metric tons of CO₂e emissions annually and save NTD 2.65 million in electricity costs each year. Implementing ISO 50001 energy management systems at all sites to monitor and reduce electricity consumption. This is expected to decrease electricity usage by 1,500 megawatt-hours and save NTD 7.95 million in electricity costs. Investing NTD 10 million to promote water-saving measures within the facility, achieving an annual water-saving effect of 15,579 metric tons and reducing water costs by NTD 190,000. An additional investment of NTD 10 million for the new office building to achieve LEED Gold certification for green buildings. Compared to standard buildings, this green building is expected to reduce carbon emissions by 3,719 metric tons of CO₂e annually and save NTD 39.9 million in electricity costs. Actively purchasing renewable energy procurement in 2040. Continuously monitoring domestic and international carbon trading, with plans to invest over NTD 10 million annually in purchasing carbon credits starting from 2030.
repetition	Acute	Increasing severity of extreme weather events (such as typhoons, floods, and landslides)	Extreme weather events causing sudden disasters could result in damage to facility equipment and buildings, prevent employees from reporting to work, and lead to operational disruptions.	Upstream/ Operations/ Downstream	 Disruptions in the value chain leading to operational interruptions 	-	 Conducting regular equipment inspections and enhancing equipment stability. Managing climate risks within the supply chain. Restructuring the supply chain to shorten lead times.
	Technology		Customers have increasingly focused on the energy-saving and carbon-reducing benefits of products. As a result, the company must allocate additional funds toward technology research and development, equipment upgrades, and identifying suitable suppliers.		 Increasing capital expenditures due to the procurement of software and hardware. Rising R&D expenses lead to higher operating costs. Growing revenue driven by the demand for low-carbon products. 	 Enhancing capacity for low- carbon product development. Expanding ePaper products into new market 	 Collaborating with industry, government, and academia to develop more energy-efficient products, with an estimated investment of NTD 12 million. Increasing R&D expense annually for product development and integrating ESG principles into product design to sustain the company's market competitiveness. Adopting ISO 14067 product carbon footprint standards to assess energy
	Market	Competitiveness of low-carbon products	The market, driven by sustainability trends, is witnessing increased customer demand for changes in product specifications. Failure to meet these demands may result in missed market opportunities, potentially leading to a decline in order volumes.	Operations/ Downstream	 A decrease in orders leads to a reduction in accounts receivable. Meeting customer needs results in increased revenue. 	 applications. Growing market demand for environmentally friendly products. 	 consumption hotspots throughout the product lifecycle, providing a foundation for future product optimization. Investing NTD 1 million to implement UL 2799 landfill waste stream verification. Continuously increasing the proportion of R&D personnel among employees.

E Ink 2023 NATURE AND		Opportunity Factors	Opportunity Description	Potential Financial Impact (+Positive / –Negative)
CLIMATE REPORT	Resource Utilization Efficiency	Promoting low-carbon green production	Reducing energy consumption and operational costs through equipment upgrades, implementation of energy management systems, promotion of resource recycling and reuse, automation of production, and adoption of green building standards for new facilities.	 Improving energy efficiency to reduce operational costs. Reducing carbon emissions to lower operational costs.
About this report Contents CEO's Message	Products and Services	Enhancing capacity for developing low-carbon products	Collaborating with the value chain to develop energy-efficient and low-carbon products, enhancing product competitiveness.	Demand for Low Carbon Products Increases Revenue.
01 Natural and Climate – Vision and Milestones	Market	Expanding ePaper products into new market applications	In response to the trends of low-carbon energy savings and climate change, ePaper displays with low power consumption and energy-saving benefits can replace certain self-luminous displays, such as Thin Film Transistor Liquid Crystal Displays (TFT-LCD) and Organic Light-Emitting Diode (OLED) displays. This substitution can expand the business market and increase revenue.	Demand for Low Carbon Products Increases Revenue.
02 Management and Response Strategies for Risks and Opportunities	Market	Increasing market demand for environmentally friendly products	As international companies increasingly set net-zero emission targets, E Ink's products may become a priority choice for these enterprises in the future.	Meeting customer needs increases revenue.
2-1 Identification – Material Topics of Natural and Climate	E Ink uses scenari	ios related to transition and physical	risks to evaluate their impact on its value chain and assess specific financial implications. These scenarios include E In	k's 2040 net-zero carbon commitment, the

E Ink uses scenarios related to transition and physical risks to evaluate their impact on its value chain and assess specific financial implications. These scenarios include E Ink's 2040 net-zero carbon commitment, the International Energy Agency's (IEA) Net Zero Emissions by 2050 Scenario (NZE) and Stated Policies Scenario (STEPS), as well as the Intergovernmental Panel on Climate Change's (IPCC) <u>SSP1-1.9</u> and <u>SSP5-8.5</u> scenarios.

03 Risk, Opportunity, Targets, and Actions

2-2 Analysis – Natural and Climate Scenario Analysis

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Physical Risk Assessment: Disruption of Daily Operations, Supply Chain Interruptions

Research conducted by the Taiwan Climate Change Projection Information and Adaptation Knowledge Platform (TCCIP) under the Ministry of Science and Technology of the Executive Yuan indicates that while the frequency of typhoon formation may decrease in the future, the intensity of rainfall associated with each typhoon is expected to increase. This pattern of intensified rainfall could significantly heighten the risk posed by typhoons to operations, potentially resulting in facility flooding, power outages, and possible casualties. Furthermore, transportation may be disrupted due to road collapses and landslides, complicating the delivery of raw materials and components. This could lead to supply chain interruptions both upstream and downstream, and may necessitate operational shutdowns.

E Ink has conducted a physical risk assessment to analysis potential operational disruptions caused by extreme climate events related to climate change. Using the latest Coupled Model Intercomparison Project Phase 6 (CMIP 6) model data provided by the National Science and Technology Center for Disaster Reduction (NCDR), flood and <u>landslide risks</u> in Taiwan were assessed under global warming scenarios of 1.5 ° C and 4 ° C. By overlaying <u>hazard-vulnerability maps</u> for floods and landslides with the locations of E Ink' s upstream suppliers, operational sites (including potential new office buildings and factories), and downstream customers in Taiwan, the risk levels of flooding and landslides were estimated, with levels ranging from one to five, where level five represents high risk. Value chain suppliers located in high-risk areas were then identified to plan subsequent risk mitigation measures.

Based on the analysis results, E Ink assessed flood risks in the value chain under the worst-case climate scenario of a 4° C temperature increase to facilitate early planning of response measures. The analysis targeted three operational sites in Taiwan (including the future planned Guanyin Factory), locations of 49 significant upstream suppliers, and 37 downstream customer. Among these, the percentages of operational sites, suppliers, and customers categorized as high-risk (Level 5) are 0%, 38.8%, and 43.2%, respectively. In contrast, for landslide risk analysis, only 2. 7% of customers are located in high-risk landslide areas.

To mitigate the potential risk of supply chain disruptions due to extreme rainfall and flooding, E Ink reviews the flood response plans of suppliers and customers in high-risk areas. The Company has established contingency plans through its "Business Continuity Management Measures," such as managing product delivery flexibility and setting up emergency response teams to assist suppliers and customers in addressing issues, thereby reducing possible supply chain risks. Additionally, to address the possibility of operational disruptions caused by flooding, E Ink has developed disaster response plans for events with a high impact on operations, such as typhoons and chemical spills. The Company has also planned to install Uninterruptible Power Supply (UPS) systems on critical production equipment and standardized emergency response procedures, supported by regular employee training. Furthermore, E Ink collaborates with external consultants to assess the impact of extreme weather on daily operations, particularly for the locations of new office building construction projects, aiming to reduce the risk of operational interruptions caused by disasters.

Scenario Description

Temperatur rise	re Scenario	Descriptions
1.5° C	SSP1-1.9	The most optimistic scenario. The world can effectively reduce greenhouse gas emissions, moving towards a sustainable emission trajectory. By achieving net- zero carbon emissions by mid-century or the end of the century, the global temperature rise can be limited to within 1.5° C or 2° C, thereby fulfilling the goals of the Paris Agreement.
4° C	SSP5-8.5	In the worst-case scenario. The failure of global climate policies and greenhouse gas reduction efforts could result in the world experiencing an average temperature rise of 4° C by the end of the 21st century.

Proportion of high-risk disaster items in the value chain in Taiwan

Site	Temperature rise relative to pre-	Proportion (%)			
(Number of sites)	the century	Flood	Landslide disaster		
$\Gamma \ln k(2)$	1.5° C	0	0		
E IIIK (3)	4° C	0	0		
Significant	1.5° C	38.8	0		
suppliers (49)	4° C	38.8	0		
Customore (27)	1.5° C	43.2	2.7		
customers (37)	4° C	37.8	0		

Physical Climate Risk Adaptation

In addition to analyzing flood risks in the value chain in Taiwan, E Ink conducts flood potential analyses for its manufacturing sites (including existing and new operations) and associated access roads. This involves reviewing drainage and flood control infrastructure and developing emergency response procedures to enhance resilience and reduce climate risk impacts, ensuring continuous operations management. E Ink has also formulated four measures to mitigate flood risks, aiming to achieve the goal of zero operational disruptions due to flooding in its global manufacturing sites by 2025.

(1) Assessment of rainwater recycling and floodwater etention facilities	(2) Installation of flood gates and barriers	(3) Review of the pumping contingency plan	(4) New site selection plan
Reduce surface runoff and water accumulation from heavy rainfall.	Prevent direct flooding into the underground spaces of the plant.	Ensure smooth drainage in case of flooding.	Select location of low flooding potential and elevate base heights.



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Transition Risk Assessment: Domestic and International Carbon Reduction Trends

As countries around the world work towards achieving the 2050 net-zero carbon emissions target, many have begun developing carbon trading markets. Under the temperature control goals of the Paris Agreement, global carbon prices will need to rise. According to the International Energy Agency's (IEA) 2023 Energy Report, under the IEA NZE 2050 scenario, it is assumed that all regions will implement carbon pricing, with carbon prices in developed economies expected to reach \$250 per ton by 2050. Taiwan also officially announced its 2050 net-zero carbon emissions target in 2022, with plans to start imposing a carbon fee on major emitters with annual emissions exceeding 25,000 tons as early as 2024. The initial carbon fee is estimated to be above USD 10 per ton, with gradual increases expected in the future, posing a significant carbon challenge for companies.

E Ink has already begun assessing the potential financial impacts of its carbon reduction actions, such as green electricity procurement, carbon pricing, equipment upgrades, and energy-saving initiatives across its global operations, under scenarios like its 2040 net-zero carbon commitment, IEA NZE 2050, and IEA STEPS. The assessments focus on the years 2025, 2030, and 2040. Based on scenario simulation results, the potential financial impact of climate-related risks on E Ink's revenue is estimated to range from 0.2% to 2.4%.

To mitigate the potential impact of high carbon prices in the future, E Ink is continuously planning to use low-energy-consumption equipment and develop carbon reduction projects to effectively reduce electricity and energy consumption in its manufacturing processes. In terms of energy use, the company will continue purchasing green electricity and consider expanding the installation of solar panels at its sites to increase the proportion of renewable energy used. This approach aims to reduce carbon emissions while also minimizing environmental impact.

01 Natural and Climate – Vision and Milestones	Rising Temperature	Scenario	Calculation			
02 Management and Response Strategies for		E Ink 2040 Net Zero	Achieving RE100 by 2030. Reducing Scope 1 and 2 emissions by 80% by 2030 compared to 2021. Reducing Scope 2 emissions by 25% by 2020 compared to 2021.	Financial Impact of Carbon Reduc	ction Initiatives (Percent	age of Revenue)
Risks and Opportunities		Commitment	Achieving net zero carbon emissions by 2040.	E Ink 2040 Net Zero Carbon	IEA NZE 2050	IEA STEPS
 2-1 Identification – Material Topics of Natural and Climate 2-2 Analysis – Natural and Climate Scenario Analysis 	2-1 Identification – Material Topics of Natural and Climate 2-2 Analysis – Natural and Climate Scenario Analysis		The global energy sectors are on track to achieve net zero carbon emissions by 2050, with developed economies expected to reach this goal sooner than other countries. The carbon price is NTD 2,682-6,109 per metric ton of CO ₂ e.		2.4% 1.5% 0.9%	0.8%
03 Risk, Opportunity, Targets, and Actions			An assessment of emission pathways covering existing climate change measures and specific	0.2% 0.2% 0.2%		0.070
Appendix 2.5°		IEA STEPS	realization. The carbon price is NTD 834-5,215 per metric ton of CO_2e .	2025	2030	2040

Note 1: The International Energy Agency (IEA) is cited for estimating the emissions of each region or country in the STEPS and NZE 2050 scenarios.

Note 2: The NZE 2050 and STEPS scenarios from the IEA World Energy Outlook (WEO) 2023 report are used, with their estimated carbon prices applied to the NZE scenarios for global operation centers. For the STEPS scenario, mainland China uses the STEPS scenario from the WEO report, while Taiwan and the US use the Announced Pledges Scenario (APS) from the WEO report due to the absence of announced carbon prices for these regions.

In addition, to accelerate the Company's low-carbon transition, E Ink adopted an internal carbon pricing (ICP) starting price of NTD 280 per metric ton CO ₂e in 2019, based on the "Carbon Pricing Options for Taiwan" report published by the Grantham Research Institute on Climate Change and the Environment at the London School of Economics and Political Science. This price was set according to Taiwan's policies, regulations, and industry characteristics.

Starting in 2023, E Ink increased the ICP in Taiwan to NTD 600 per metric ton CO₂e, referencing the international carbon trading market and estimated costs of renewable energy procurement. The Company plans to adjust this price regularly to support future low-carbon investments, enhance energy efficiency, and raise employees' awareness of carbon management.





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03 Risk, Opportunity, Targets, and Actions





3-1 Targets- Vision for Nature and Climate Targets

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Based on the risk and opportunity analysis results following the TNFD and TCFD frameworks, E Ink has established targets and actions related to nature and climate change. These align with the six sustainability policies, 18 sustainability actions, and 54 sustainability indicators under the Company's sustainability management Note1. In addition to the existing sustainability indicators, E Ink has formulated new corresponding policies, themes, indicators, management actions, and targets related to nature and climate change based on the risk and opportunity analysis results. This approach ensures the effective management of nature and climate issues.

Management of nature and climate change issues is based on four sustainability policies: "Innovation for Low-Carbon Sustainable Products", " Low-Carbon and Energy Saving Operations and Manufacturing", "Sustainable and Value-Added Supply Chain" and "Local Engagement Aligned with Core Business" corresponding to seven sustainability actions, including "Product Realization & Technology Innovation", "Expansion of Low Carbon Products", "Response to climate change", "Transformation to Net Zero", "Environmental Impact Mitigation", "Building for Low Carbon Supply Chain", and "Caring for Ecological Restoratio", ten sustainability themes, and twenty-one sustainability indicators. Targets for 2025 and 2030 are set according to the TNFD and TCFD frameworks. For detailed information, please see the table below:

Note 1: For detailed information on E Ink's sustainability management, please refer to the 2023 Corporate Sustainability Report.

	Sustainability	Sustainability	Sustainability Tonics	Sustainability KBle		Targ	get
	Policy	Actions	Sustainability Topics		Management approaches and performances	2025	2030
Natural and Climate – Vision and Milestones		Product	Product Research, Development and Innovation	Development Resource	Proportion of R&D Expense to Revenue	10-15%	10-15%
Management and		Technology	Market Expansions	New Product and Technology	Proportion of New Product Developed in Past 3 Years to Revenue	18%	26%
Risks and Opportunities		innovation -	Business Partnership Management	Industry-Government- Academia Collaboration	Promoting Industry-Government-Academia Collaboration	1 collaboration project annually	1 collaboration project annually
Risk, Opportunity,				– Sustainable Products –	Proportion of Recycled Raw Materials Used in Light Guides/ Touch Panels for Specified ePaper Modules (% by weight)	5%	10%
Targets, and Actions			Green and Sustainable		Sustainable Product Development- Number of New Project Developed Annually	1-2	2-3
and Climate Targets					Upgrading Existing Products for Sustainability- Number of New Product Upgraded Annually	1-2	2-3
3-2 Implementation – Nature and Climate Action Plans	Product Sustainability - Innovation for Low-Carbon	Expansion of Low	Product Development		Optimization of Product Packaging Materials- Reduction of Packaging Tray Usage	10% (compared to 2023)	10% (compared to 2025)
and Performance		ability - ion for rbon able		Green Revenue	△ Proportion of FTSE Russell Green Revenue to Revenue	>99%	>99%
pendix				Ecosystem	Value Chain of Ecosystem- Accumulated Number of Partners Annually	150	200
	Sustainable Products		Climate Change Mitigation and Adaption	Risks and Opportunities	Management of Climate Related Risks and Opportunities	Completing the identification, analysis, assessment, and mitigation of climate- related risks and opportunities	Reviewing financial impact of climate- related risks and opportunities
				Greenhouse Gas (GHG)	Absolute target of GHG emission	Scope 1 and scope 2 emissions: 55,000 tons CO ₂ e	Scope 1 and scope 2 emissions: 4,000 tons CO_2e
				Emissions	△ GHG Emission Intensity (Scope 1 and 2)	20% reduction compared to the baseline year	70% reduction compared to the baseline year
		Transformation Path to Net Zero	Energy and Greenhouse Gas Management	Energy and Electricity	△ Energy Productivity	USD 10 thousand/MWh	 USD 10.5 thousand/MWh Implement of ISO 50001 energy management system verification to Global operation sites
				Renewable Energy	Renewable Energy Consumption Percentage	40%	100%
			Water Resource	Mater Deserves	Water Recycle Rate in Production	35%	50%
		Environmental	Management	Water Resource –	Water Use Intensity	20% reduction compared to the baseline year	30% reduction compared to the baseline year
		Impact Mitigation —	Resource Management and Circular Economy	Waste	General Waste Recycling Rate	55%	60%

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	Sustainability	Sustainability				Target	get
E Ink 2023 NATURE AND	Policy	Actions			Management approaches and performances	2025	2030
CLIMATE REPORT				Local Procurement	Ratio of Local Procurement Amount	>95%	>96%
				Low-Carbon Energy	△ Number of Suppliers Using Renewable Energy	Increased by 2 compared to 2024	Increased by 5 compared to 2025
					△ ESG Questionnaires	Replied ratio of significant suppliers: 100%	Replied ratio of significant and bill of material (BOM) suppliers: 100%
About this report Contents		Developing a		-	Risk Assessment Supply Chain	Evaluation ratio of significant suppliers: 100%	Evaluation ratio of first tier suppliers: 100%
CEO's Message	Sustainable and Value-Added Supply Chain	Green and Low- Carbon Supply	Sustainable Supply Chain Management		Compliance with the Conflict Minerals Statement	Complete 10% of significant suppliers annually	Complete 10% of bill of material (BOM) suppliers annually
		Chain			On-site Supplier Audit	Audit ratio of significant suppliers: 100%	
01 Natural and Climate –					Training completion ratio of procurement and quality assurance personnel		quality assurance personnel: 100%
Vision and Milestones				Sustainable Procurement	Sustainable Procurement Training	Training completion ratio of suppliers: 100%	
02 Management and Response Strategies for Bicks and Opportunities				Resilience Strategy	Diversified Sourcing Solutions for Raw Materials	Ratio of materials supplied by a second source	e among our significant suppliers reaches 60%
03 Risk, Opportunity, Targets, and Actions	Local Engagement Aligned with Core Business Creating	t Caring for Ecological		Environmental		Promote 2 biodiversity collaboration	Promote 3 biodiversity collaboration
 3-1 Targets- Vision for Nature and Climate Targets 3-2 Implementation – Nature and Climate Action Plans 	a Healthy and Safe Workplace for Employees	Restoration and Friendly Environments	Biodiversity	Conservation	Promoting Environmental Conservation	projects.	projects.

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and Performance

Note 1: The baseline year is 2021.

Note 2 : \triangle Represents that the indicator is linked to senior executive compensation.

Note 3 : 🖲 Represents that E Ink follows the GRI 3 and Double Materiality analysis principles to identify Material topics. For details, please refer to E Ink's 2023 Corporate Sustainability Report - Chapter 1: Sustainability Management.



3-2 Implementation – Nature and Climate Action Plans and Performance

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In 2023, E Ink adopted the TNFD and TCFD frameworks to identify nature and climate related risks and opportunities. This integration enhances E Ink's existing sustainability policies, encompassing four key pillars, including "Product Sustainability-Innovation for Low-Carbon Sustainable Products", "Green Production- Low-Carbon and Energy Saving Operations and Manufacturing", "Sustainable Supply Chain- Sustainable and Value-Added Supply Chain", and "Social Engagement-Local Engagement Aligned to Core Business". This comprehensive approach strengthens the management of natural and climate change issues, ensuring more effective implementation of related actions.

Innovation for Low-Carbon Sustainable Products

E Ink's core ePaper technology and products, leveraging bistable and reflective display principles, provide an environmentally and visually friendly display interface. To promote sustainable products. E Ink centers its sustainable product management on "Product Sustainability - Innovation for Low-Carbon Sustainable Products." E Ink established the "Sustainable Product Management Policy" through two major strategies, "Research and Development Innovation" and "Green Products," leveraging its competitiveness in sustainability and low carbon.



Green Products

usage, disposal, and recycling.

By focusing on "Lean Design and Material Reduction,"

"Recycling," and "Green Certification," E Ink enhances

"Energy Conservation and Carbon Reduction,"

the low-carbon sustainability of ePaper products

throughout the processes of raw material selection,

production and manufacturing, distribution and sales,

The 2023 performance can be summarized as follows Note

Sustainability KPIs	Performance
New Product and Technology	 E Ink developed over 130 new technologies and product applications, focusing on three types of color ePaper technologies, ePaper films, ePaper modules, and related application technologies. With 51% of the 2023 revenue coming from products developed within the past three years, highlighting the significant and crucial contribution of new products to revenue.
Industry- Government- Academia Collaboration	 Embracing an open innovation mindset, E Ink has collaborated with various industries, government agencies, universities, and institutes to promote 12 interdisciplinary cooperation projects. These initiatives focus on the development of ePaper-related technologies, such as ePaper application products, driver ICs, and flexible backplanes. This accelerates the innovation and development of ePaper technology and application products, providing customers with superior ePaper technology and solutions.
Development Resource	 In 2023, E Ink invested approximately NTD3.65 billion in research and development, accounting for 13% of revenue. E Ink continues to dedicate itself to the research and development of ePaper technology and related products. In addition to advancing black-and-white ePaper modules, color ePaper films (Front Plane Laminate, FPL), and ePaper driving waveforms (Waveform) technology, the company also focuses on developing related technologies such as ePaper timing controller integrated circuits (TCON IC), wireless power supply, and touch handwriting.
Stainable Products	• E Ink focuses on innovation and adheres to the three dimensions of "Lean Design & Material Reduction", " Energy Conservation & Carbon Reduction" and "Recycling". By integrating the product life cycle concept with the Eco- design Assessment method, E Ink has established its green sustainable product inspection standards- 4R, including Reuse, Repair, Recycle, and Regenerate. Over 20 products and technologies have been designed, continually improving the energy efficiency of products, reducing the carbon footprint in processes such as manufacturing, packaging, and shipping, and substantially minimizing environmental impact.
Green Revenue	 The 99.9% of E Ink's revenue in 2022 is categorized as green revenues, indicating a positive environmental impact. In addition to the environmental benefits offered by ePaper products, the technology also exhibits better energy efficiency and lower power consumption compared to conventional LCD displays.
Ecosystem	• As of December 2023, the alliance has reached 173 members, marking a new milestone in the ePaper industry. Centered on green, low-carbon ePaper, the alliance demonstrates the cohesion and unity of industry ecosystem companies, aligning with the strategic needs of digital economy development and driving industry growth.

With the brand vision "We Make Surface Smart and Green", E Ink utilizing the environmentally and visually friendly display features of ePaper, it is suitable for various Internet of Things (IoT) display applications, including retail, transportation, hospitals, logistics, and home life.

Note : For detailed information, please refer to <u>E Ink's 2023 Corporate Sustainability Report - Chapter</u> <u>3: Sustainable Products</u>.

Research and Development Innovation

In the process of transforming new technology research and development into commercial products, E Ink focuses on intellectual property and product risk management, the expansion of diverse ePaper product applications, the active operation and expansion of the ePaper ecosystem, and cross-disciplinary collaboration with industry, government, universities, and institutes. This approach deepens internal R&D innovation and stimulates sustainable technology and product design momentum through external interdisciplinary cooperation.

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Low-Carbon and Energy Saving Operations and Manufacturing

The environmental impact of climate change is intensifying, and the Paris Agreement's goal of keeping global temperatures well below 2 degrees Celsius, while striving to limit the increase to 1.5 degrees Celsius, poses a significant challenge and responsibility for all of humanity. As a leader in green display products, E Ink is actively developing low-carbon, energy-efficient ePaper products and applications. Additionally, the company is implementing energy-saving, water-conserving, and waste-reducing measures in production to fully promote a low-carbon operating model.

E Ink, guided by its sustainability policy of " Low-Carbon and Energy Saving Operations and Manufacturing and its " E Ink Policy on Safety, Health, Environment, and Energy Management " (SHEE policy), has established three major sustainability actions: " Response to Climate Change," " Transformation Path to Net Zero," and " Environmental Impact Mitigation." These actions encompass strategies, management objectives, and quantifiable performance indicators related to environmental protection, climate change, water resources, waste management, and energy consumption.

To further realize the vision of green production and environmental sustainability, E Ink has committed to achieving 100% renewable energy use (RE100) by 2030 and reaching net-zero carbon emissions by 2040. E Ink achieved the 2024 goal of 30% renewable energy usage (RE30) globally by December 2023. Notably, the Company's sites in the US, China, Japan, and South Korea continue to maintain 100% renewable energy usage (RE100). In addition, the Yangzhou site in China has surpassed 50% renewable energy usage, while the renewable energy usage rate at the Taiwan site has doubled from the previous year to 8% (RE8).

In addition, E Ink has set carbon reduction pathways and targets that have been reviewed and validated by the Science Based Targets initiative (SBTi), an authoritative international climate change organization. The SBTi has recognized E Ink's near-term, long-term, and net-zero greenhouse gas reduction targets as among the most ambitious verified through their process. Moreover, E Ink received the Best Newcomer award at the annual RE 100 Leadership Awards by the international renewable energy organization RE 100. This award recognizes new RE 100 members that have significantly reduced their carbon emissions by increasing their use of renewable energy or collaborating with suppliers to reduce their carbon footprint and implement sustainability strategies.

In September 2022, E Ink joined the EP 100 initiative, committing to implementing the ISO 50001 energy management system across all global sites by 2030. The Company has also set a target to double energy productivity by 2040 compared to 2018 levels. To achieve this goal, E Ink continues

to promote energy-saving and carbon reduction measures, including upgrading outdated equipment, optimizing equipment parameters, and improving manufacturing processes to effectively reduce energy consumption.

These efforts resulted in a significant reduction of 2,289 MWh, equivalent to a reduction of 1,277 metric tons of carbon emissions in global sites electricity consumption. E Ink will continue its efforts to demonstrate its achievements in the ePaper industry transformation and energy efficiency.

The 2023 performance can be summarized as follows Note:

Sustainability KPIs	Performance
Risks and Opportunities	 Beginning in 2022, E Ink has been continuously analyzing the financial impacts of climate-related risks and opportunities based on the TCFD framework, and dynamically adjusting its climate change management strategies based on the analysis results.
Greenhouse Gases	 Reduced greenhouse gas emissions by 27% compared to 2021 Decreased greenhouse gas emission intensity by 47% compared to 2021
Renewable Energy	Utilized 36% renewable energy globally (RE36)
Water Resources	Reduced water intensity by 32% compared to 2021
Wastes	 General Waste Recycling Rate reaching 56% Converted 282 tons of waste plastic into solid recovered fuel
Note: For details, please r	efer to E Ink 2023 Corporate Sustainability Report - Chapter 4: Green Production.

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Sustainable and Value-Added Supply Chain

E Ink, the global leader in the ePaper industry, collaborates with raw material suppliers, component manufacturers, product assemblers, transportation providers, andvarious service providers. To establish a sustainable and resilient supply chain, E Ink is committed to ensuring that workers throughout its supply chain are treated fairly, have the freedom to choose their employment, and work in safe environments. The Company also demands that business operations be conducted ethically and with a strong sense of environmental responsibility. E Ink implements the "Supplier Code of Conduct" and the "E Ink Conflict Minerals Policy." These policies ensure that the supply chain adheres to standards of business conduct, human rights, occupational safety, environmental protection, management systems, and ethics. Furthermore, E Ink manage our supply chain through evaluations and audits, mitigating the risk of supplier disruptions.

E Ink collaborates with its supply chain partners with the goal of "Sustainable and Value-Added Supply Chain." Sustainability is integrated into their procurement policies, and E Ink maintain regular communication with supply chain partners through periodic supplier conferences and related meetings, working together to achieve sustainable goals. Furthermore, E Ink aims to work with its suppliers to achieve the goals of using 100% renewable energy (RE 100) by 2030 and reaching net-zero emissions by 2040, thus realizing a vision of shared sustainability.

The 2023 performance can be summarized as follows^{Note1}

Sustainability KPIs	Performance
Local	 The proportion of local suppliers and procurement value in both Taiwan and the US
Procurement	exceeds 90%.
Low-Carbon	 Regarding target setting for significant suppliers, 44 have committed to the RE100
Energy	target, while 48 have set a net-zero carbon emissions target.
Sustainable	 The Packaging Materials Recycling Project and Low-Carbon Logistics Management
Collaboration	initiatives successfully reduced carbon emissions by 77 metric tons of CO ₂ e.
Risk of Supply Chain	• 100% of the audited suppliers passed the audit assessment
Sustainable Collaboration	 100% of internal personnel and significant suppliers completed sustainable procurement training
Resilience	 Ratio of materials supplied by a second source among our significant suppliers reaches
Strategy	90%

Note 1: For details, please refer to E Ink 2023 Corporate Sustainability Report - Chapter 5: Sustainable Supply Chain.

Caring for Ecological Restoration and Friendly Environments

Excessive economic development has caused ecological and environmental pollution, posing extreme climate disruption and threats to biodiversity, which endanger the survival of humans and other species. Environmental protection is an indispensable part of achieving sustainable development goals. Sustainable operations depend on land-based facilities and assets, while employees need a safe living environment, and ecosystems indirectly and directly provide raw materials for various productions. Thus, a company's sustainable operations are closely linked with environmental stability and biodiversity.

E Ink aims to raise public awareness and concern for ecological conservation while promoting the sustainable development of global biodiversity through environmental education on ecological protection and biodiversity. By participating in strategies that balance environmental ecology, biodiversity, and forest conservation, and by formulating the "Biodiversity and Non-Deforestation Commitment," E Ink ensures that its global operations, manufacturing, R&D, and business locations are not situated in ecological conservation areas, thus preventing any disruption to habitats, and minimizing natural resource consumption. E Ink encourages suppliers to use environmentally friendly and recyclable materials and collaborates with upstream value chain partners to protect the environment, starting with reducing natural damage. The short-term goal is to achieve No Net Loss (NNL), with a long-term goal of realizing Net Positive Impact (NPI) by 2030.

By joining international advocacy organizations, E Ink actively promotes the protection of natural ecosystems and habitats for wildlife and plants. This initiative extends environmental conservation concepts to employees, shareholders, and significant suppliers, enhancing stakeholder awareness about environmental and ecological protection. Through these efforts, E Ink supports biodiversity maintenance, forest conservation, and ecological protection through practical actions.

The 2023 performance can be summarized as follows^{Note2}

Sustainability KPIs	Performance
Environmental Conservation	 E Ink signed a Memorandum of Understanding with the Taiwan Environmental Information Association (TEIA) to preserve the habitats at Nature Valley and Alibang Ecological Farm. This collaboration supports the TEIA in its conservation efforts for the Taipei Grass Frog, Hylarana taipehensis, a Class II protected species. Sign the Non-Deforestation Commitment and sponsor the Dark Sky Association forum to contribute to environmental sustainability. E Ink launched the "Environmental Protection Festival" with the objective of achieving the goals of "restoring the ecological environment and promoting a friendly environment." This initiative centered around three core aspects: knowledge sharing, participation promotion, and everyday culture. The festival featured 16 activities, including ecological environment lectures, volunteer services, and green living practices, with over 200 participants. By engaging both internal and external stakeholders, E Ink expanded its influence on environmental protection.

Note 2: For details, please refer to E Ink's 2023 Corporate Sustainability Report - Chapter 7: Social Engagement.



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E Ink volunteers are safeguarding the land, preserving natural habitats, and protecting the habitats of native Taiwanese species

The Nature Valley Environmental Trust Base in Qionglin is the first environmental trust in Taiwan, established in 2011. Located in Qionglin Township, Hsinchu, Nature Valley was formerly an abandoned orchard and tea plantation. In June 2014, TEIA took over the site with the goals of protecting and fostering low-altitude forests, promoting local ecological conservation efforts, safeguarding surrounding native habitats, and creating a community environmental learning center. The initiative aims to establish a model of harmonious coexistence between humans and nature, protecting local forests and native species.

In 2023, 37 volunteers from E lnk acted for habitat conservation at the Nature Valley Environmental Trust Education Base. The volunteers anticipated in various seasonal activities in May, September, and December, focusing on bamboo thinning and the removal of the invasive species Mikania micrantha.

- Bamboo Thinning: Controlled the growth area and density of Makino bamboo, ensuring space for the growth of native plants under and around the bamboo groves.
- Mikania micrantha Removal: An invasive species from South America that has spread across Taiwan, requiring manual removal and root cutting to prevent it from strangling trees and proliferating.





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Appendix

Appendix I: Nature and Climate Analysis Methods

Nature Identification Process and Methodology

E Ink conducts analysis of natural dependencies and impacts by following the LEAP approach recommended by the Taskforce on Nature-related Financial Disclosures (TNFD).

		Locate	Evaluate	Assess	Prepare
Analysis process		• Identify E Ink's priority locations of business and nature interface: 6 global sites and 67 significant suppliers.	 Overlay (Map) Analysis (Spatial Analysis): Conduct biodiversity sensitivity analysis using the IUCN World Database on Protected Areas and the Taiwan Forestry Bureau Biodiversity Database. Identify biodiversity risks from industry economic activities: Analyze using the WWF Biodiversity Risk Filter and the UNEP's "Exploring Natural Capital Opportunities, Risks, and Exposure" tool. 	• Referencing TNFD's Guidance on Scenario Analysis v1.0, E Ink conducted scenario analysis for four potential 2030 scenarios. The company simulated the impacts of business activities under each scenario and identified potential risks, opportunities, and financial implications.	 Based on the analysis results and the identified potential risks and opportunities, E lnk developed corporate response strategies, which are disclosed in this report.
	E Ink operational sites	v	ν	ν	v
Value chain boundaries covered	Upstream-significant suppliers	v	ν	v	-
	Downstream- shipping locations/customer operational sites	-	-	-	-

Climate Identification Process and Methodology

Identification	• Based on the TCFD framework, industry assessments, existing and emerging climate change regulations, relevant climate change risks and opportunities for E Ink were identified and screened.
Analysis	• A cross-departmental analysis was conducted to assess the impact and frequency of risk and opportunity factors on the value chain. The risk levels were calculated, and a climate-related risk and opportunity matrix was created and prioritized accordingly.
Assessment	• Risks and opportunities with a risk value of 9 or higher are classified as material climate-related risk and opportunity factors. These factors will be integrated into the company's overall risk management system, enabling comprehensive risk management to enhance E Ink's climate change adaptation capabilities and mitigate potential impacts.



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Appendix II: Environmental Data

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Item	Unit	2020	2021	2022	2023
Greenhouse gas emissions ^{Note}					
Scope 1	Metric tons CO ₂ e	2,942.7	3,459.5	3,569.0	3,677.3
Scope 2 (Market-based)	Metric tons CO ₂ e	40,593.5	42,536.5	36,334.6	30,071.6
Scope 3	Metric tons CO ₂ e	-	207,283.9	86,435.6	72,232.7
Greenhouse gas emissions intensity	Metric tons CO ₂ e/Million NTD	2.8	2.3	1.3	1.2
Energy usage					
Renewable energy	Gigajoules(GJ)	395.8	600.9	62,069.8	108,998.0
Non-renewable energy	Gigajoules(GJ)	310,748.8	325,511.7	303,848.9	261,755.5
Total energy	Gigajoules(GJ)	311,144.6	326,112.6	365,918.7	370,753.5
Renewable energy usage	-	-	-	RE20	RE36
Energy productivity	Thousand USD/MWh	6.0	7.8	9.9	8.5
Water usage and discharge					
Water withdrawal	Million Liter	495.8	503.2	477.9	473.2
Water discharge	Million Liter	355.6	352.8	334.2	318.7
Water Consumption	Million Liter	140.2	150.4	143.7	154.5
Water use intensity	m ³ /Million NTD	32.3	25.6	15.7	17.4
Waste generation and disposal					
Waste generation quantity	Metric tons	1,251.5	1,670.4	2,981.0	2,530.0
General waste recycling rate	%	27	38	38	56

Note: Data for Scope 1 and Scope 2 have been verified by a third party; for Scope 3, only certain categories have been third-party verified.



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Appendix III: TNFD and TCFD Disclosures

TNFD Disclosures

	Disclosure aspects	Disclosure content	Corresponding sections
e – nes	Governance	Describe the Board's oversight of nature-related risks and dependencies, impacts, risks and opportunities.	1.1 Foundation - Establishing a Comprehensive Governance Mechanism and Team Management
		Describe management's role in assessing and managing nature-related dependencies, impacts, risks, and opportunities.	1.1 Foundation - Establishing a Comprehensive Governance Mechanism and Team Management
		Describe the organization's approach to assessing and addressing nature-related dependencies, impacts, risks, and opportunities, including its human rights policies, engagement activities, and the oversight role of the Board and management, with particular attention to Indigenous peoples, local communities, affected parties, and other stakeholders.	1.1 Foundation - Establishing a Comprehensive Governance Mechanism and Team Management
es for		Describe the short-, medium-, and long-term nature-related dependencies, impacts, risks, and opportunities identified by the organization.	2.1 Identification – Material Topics of Natural and Climate
nities	Stratogy	Describe the impact of nature-related dependencies, impacts, risks, and opportunities on the organization' s business model, value chain, strategy, and financial planning, as well as any associated transition plans or analyses.	3.2 Implementation – Nature and Climate Action Plans and Performance
ıs	Strategy –	Describe the resilience of the organization's strategy to nature-related risks and opportunities, considering different scenarios.	2.2 Analysis – Natural and Climate Scenario Analysis
	_	Describe the locations of the organization's assets and/or activities in direct operations, as well as the priority areas upstream and downstream.	2.1 Identification – Material Topics of Natural and Climate
-	Disk and laws at	 (i) Describe the process by which the organization identifies, assesses, and prioritizes nature-related dependencies, impacts, risks, and opportunities in its direct operations. (ii) Describe the process by which the organization identifies, assesses, and prioritizes nature-related dependencies, impacts, risks, and opportunities in its upstream and downstream value chain. 	Appendix I: Nature and Climate Analysis Methods
	Management –	Describe the organization's management process for nature-related dependencies, impacts, risks, and opportunities.	02 Management and Response Strategies for Risks and Opportunities
		Describe how the processes for identifying, assessing, prioritizing, and overseeing nature-related risks are integrated into the organization' s overall risk management process.	02 Management and Response Strategies for Risks and Opportunities
	Metrics and Targets	Disclose the metrics used by the organization to assess and manage nature-related risks and opportunities based on its strategy and risk management processes.	3.1 Targets- Vision for Nature and Climate Targets
		Disclose the metrics used by the organization to assess and manage its dependencies and impacts on nature.	3.1 Targets- Vision for Nature and Climate Targets
		Describe the targets of organization uses to manage nature-related dependencies, impacts, risks, and opportunities, along with its performance against these targets.	3.1 Targets- Vision for Nature and Climate Targets



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Disclosure aspects	Disclosure content	Corresponding sections
Courses	Describe the Board's oversight of climate-related risks and opportunities.	Foundation - Establishing a Comprehensive Governance Mechanism and Team Management
Governance -	Describe management's role in assessing and managing climate-related risks and opportunities.	Foundation - Establishing a Comprehensive Governance Mechanism and Team Management
	Describe the short-, medium-, and long-term climate-related risks and opportunities identified by the organization.	2.1 Identification – Material Topics of Natural and Climate
Strategy	Describe the impact of climate-related risks and opportunities on the organization's business, strategy, and financial planning.	 2.2 Analysis – Natural and Climate Scenario Analysis 3.2 Implementation – Nature and Climate Action Plans and Performance
	Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2° C or lower scenario.	2.2 Analysis – Natural and Climate Scenario Analysis
	Describe the organization's process for identifying and assessing climate-related risks.	02 Management and Response Strategies for Risks and Opportunities Appendix I: Nature and Climate Analysis Methods
Management	Describe the organization's process for managing climate-related risks.	02 Management and Response Strategies for Risks and Opportunities
Metrics and Targets	Describe how the processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management system.	02 Management and Response Strategies for Risks and Opportunities
	Disclose the metrics and target used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management processes.	2.2 Analysis – Natural and Climate Scenario Analysis
	Disclose Scope 1, Scope 2, and Scope 3 greenhouse gas emissions and the associated risks.	Appendix II: Environmental Data
	Describe the targets the organization uses to manage climate-related risks and opportunities, as well as its performance in achieving those targets.	3.1 Targets- Vision for Nature and Climate Targets

