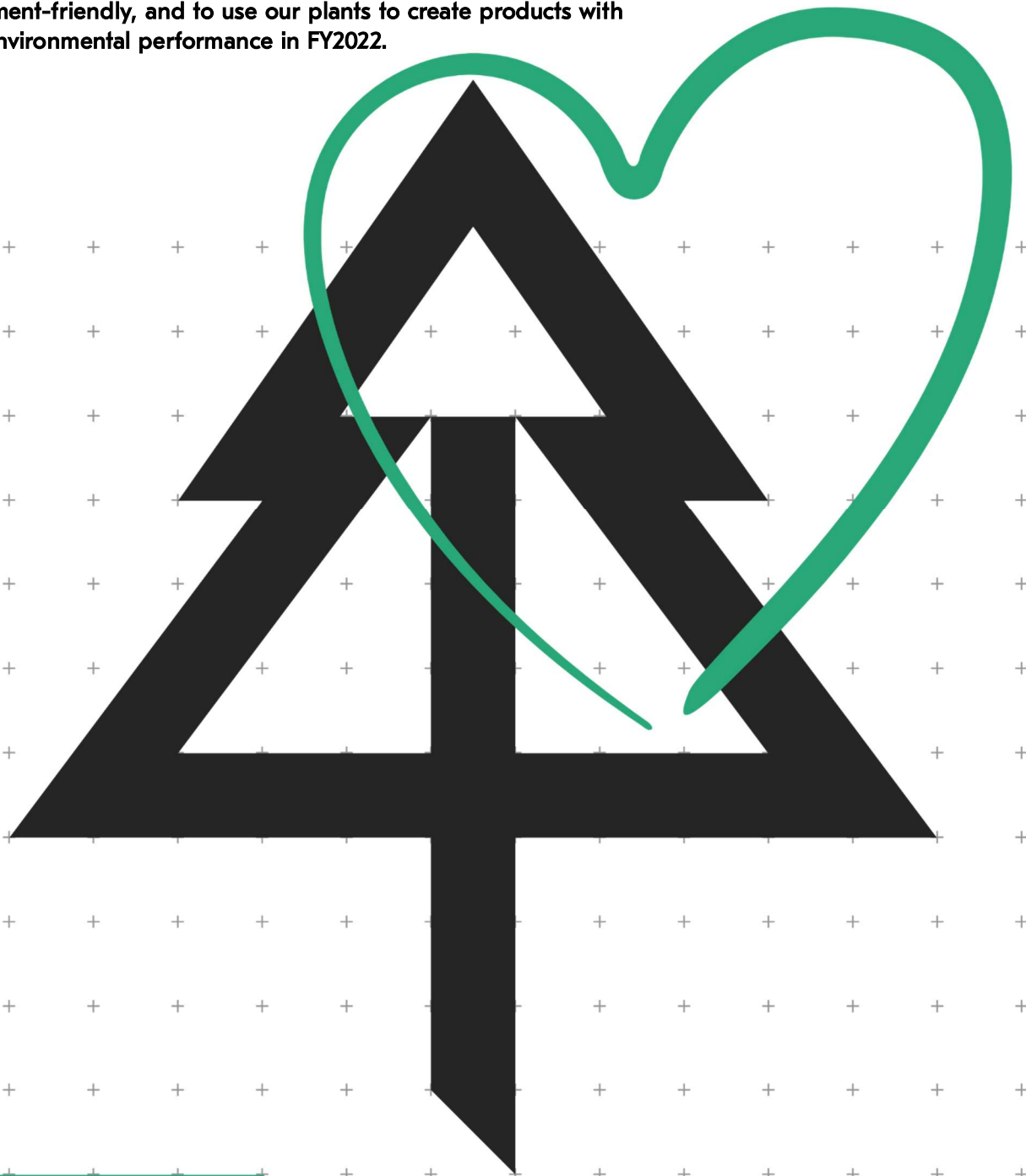


CSR Summary Report 2022

This CSR Summary Report 2022 outlines the most important aspects of our CSR activities as well as presents our efforts to make our products more environment-friendly, and to use our plants to create products with outstanding environmental performance in FY2022.



Top Commitment

Contributing to the advancement and development of humankind and society through practice of the Kyocera Philosophy



President
Hironori Ando

Correct Application of the Concept, "Do What is Right as a Human Being"

At the heart of Kyocera-Group management is the corporate philosophy known as the Kyocera Philosophy, which emphasizes the importance of a fair business based on ethical, moral and social standards that people should uphold throughout life. Ultimately, it comes down to one criterion for making decisions: "What is the right thing to do as a human being?"

To practice our corporate philosophy, the Kyocera-Group developed a unique management control method known as the Amoeba Management System. With this system in place, we promote a management method in which all employees can participate. Furthermore, we believe in a highly transparent corporate activity with timely disclosure of information to customers, suppliers, employees, and all other stakeholders.

For Kyocera Document Solutions, CSR is tantamount to the practice of the Kyocera Philosophy - the heart of Kyocera Group management. We believe that the practice of the Kyocera Philosophy builds mutual trust with stakeholders, and contributes to sustainable growth for Kyocera Document Solutions, as well as the overall development of society. We will continue to engage in corporate management through the practice of the Kyocera Philosophy.

We will contribute to the advancement and development of humankind and society through practice of the Kyocera Philosophy.

Contributions to Society through Business Activities

Modern society faces various global challenges which includes economic globalization, an increase in energy demand, climate change, and the exhaustion of natural resources. In order to take on these challenges, Kyocera Document Solutions has developed multifunctional products and printers that are long life with less waste for more than 20 years, and provided as environmentally-friendly products. By realizing the optimization of the running costs during the use of the products as well as by minimizing the waste from consumable parts, we strive to provide customers with continuous economic benefits, and highly satisfied products.

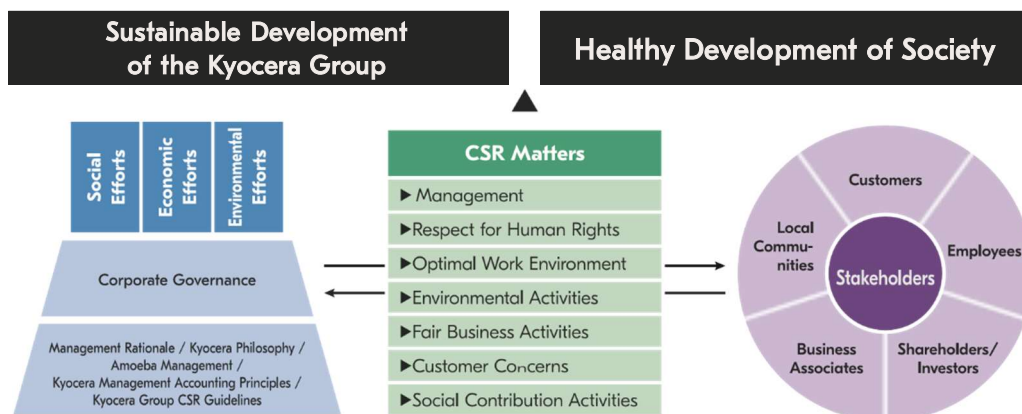
Handling of Global CSR Issues

As a member of Kyocera-Group, we believe that it is essential to place our Management Philosophy of "To coexist harmoniously with our society, our global community, and nature (Harmonious Coexistence)." As the core of all of our business activities and conducting locally rooted business activities while ensuring compliance with international norms and standards, respecting diversity including local customs and cultures, and environmental harmony in order to resolve the global social issues.

In order to realize it, Kyocera-Group has taken part as an active member of the UN Global Compact, the basic rules on human rights, labor, environment and prevention of corruption, and ensure not only highly transparent management and fair corporate activities as our code of conduct for business activities based on "Kyocera-Group CSR Guidelines", but also unite our employees and local community in building relationships of mutual trust and contributing to the robust development of society.

CSR at KYOCERA Document Solution

As member of Kyocera Group, under the management rationale, "To provide opportunities for the material and intellectual growth of all our employees, and through our joint efforts, contribute to the advancement of society and humankind", we conduct business based on the Kyocera Philosophy. The principle of Kyocera Philosophy is "Do the right thing as a human being" which is the basis of its decision-making criterion. The Kyocera Philosophy is also the basis for our CSR activities. We endeavor to contribute to the healthy development of society as well as to work on the solution of CSR issues, build mutual trust with stakeholders and achieve Kyocera Group's continuous development through the practice of the Kyocera Philosophy.



Participation in International Initiatives

We have joined the following international initiatives and promoted sustainable activities.

UNGC (United Nations Global Compact)

UNGC presents the 10 universal principles in the areas of human rights, labor, environment and anti-corruption and requires companies all over the world to support and practice. Kyocera Group has taken part in UNGC since September 2011.



RBA (Responsible Business Alliance)

We have joined the RBA since December 2021. RBA consists of approximately 190 companies including the world's electronics manufacturers and the leading suppliers, and aims at an improvement of sustainability in the area of environment, safety, ethics, and management systems in global supply chains.



RMI (Responsible Minerals Initiative)

We have joined the RMI since August 2021. RMI leads the initiatives on responsible mineral procurement and over 400 companies or organizations from more than 10 industries all over the world have taken part in it.



Kyocera Group CSR Guidelines

Introduction

Since its foundation, Kyocera has declared that it will “provide opportunities for the material and intellectual growth of all our employees, and through our joint efforts, contribute to the advancement of society and humankind” as its management rationale and has managed its business based on the Kyocera Philosophy – the core of management in the Kyocera Group. By practicing the Kyocera Philosophy on a daily basis, we will contribute to the sound development of society as well as build mutual trust with stakeholders, and continuously develop the Kyocera Group.

We therefore established the Kyocera Group CSR Guidelines, our standards of corporate conduct, and will act towards the creation of a sustainable society.

These guidelines apply to Kyocera Corporation and Kyocera Group companies, as well as all executive officers and employees.

1. Basic duties

We shall observe laws, regulations and corporate rules, have unshakable moral values based on the Kyocera Philosophy and perform corporate activities globally, making decisions based on the criterion of “What is the right thing to do as a human being?”

2. Human Rights Initiatives and labor

2-1 We shall always be aware of changes in work environments and the characteristics and culture of each country to build up a personnel system that can respond appropriately.

2-2 We shall respect the Human Rights Initiatives of employees and not treat them severely or inhumanely, including abuse or any type of harassment.

2-3 We shall promote the creation of attractive, rewarding work environments by attempting to share opinions and information with employees.

2-4 We shall respect the right of freedom of association based on the laws, regulations and labor practices of each country.

2-5 We shall not allow forced labor or child labor.

2-6 We shall not engage in unfair and discriminatory treatment.

3. Health and safety

We shall observe laws and regulations related to health and safety, fire control, and undertake health and safety measures more actively and continuously including through the implementation of risk assessment and emergency preparedness to provide work environments that are accident and disaster-free, where employees can work in safety and free from anxiety.

4. Environmental conservation

We shall regard the Kyocera Group Environmental Safety Policy as our guideline in order to achieve our environmental protection activities to be achieved. We shall perform improvement activities more actively and continuously to contribute to global environmental protection by working in a comprehensive fashion on environmental measures such as environmental preservation, energy conservation, climate change prevention, resource conservation, global environmental product development and biodiversity conservation. At the same time, we shall communicate those efforts widely to society.

5. Fair trade and ethics

- 5-1 We shall compete fairly, transparently and freely, and carry out fair trade.
- 5-2 We shall arrange and manage a clear import and export management system in accordance with related laws and regulations in Japan and overseas.
- 5-3 When procuring materials, we shall conform to laws and regulations, do business faithfully, justly and fairly without abusing any dominant bargaining position, and work to build up partnerships based on mutual trust.
- 5-4 We shall request business partners to understand and cooperate with our CSR activities.
- 5-5 We shall create, protect and utilize intellectual property rights, respect the intellectual property rights of others, and prevent any violation of their rights.
- 5-6 We shall neither offer nor receive inappropriate profits in relationships with stakeholders.
- 5-7 We shall maintain sound and normal relationships with political organizations and the authorities, and shall never offer bribes or illegal political contributions.
- 5-8 We shall steadfastly maintain an attitude of confrontation with antisocial forces and reject any unjust claim.
- 5-9 We shall carry out activities to prevent wrongdoing and also arrange systems to detect and respond to it immediately.
- 5-10 We shall not purchase any materials or products including conflict minerals or metals derived from them that create a source of funds for armed groups causing Human Rights Initiatives violations.

6. Quality and product safety

We shall regard the Kyocera Quality Policy and Kyocera Product Safety Policy as our guidelines to be achieved.

7. Information disclosure

We shall always foster communication with society through appropriate information disclosure and active PR and IR activities; and aim at being a fair, highly transparent and open business enterprise.

- 7-1 We shall strive to disclose information to stakeholders including stockholders and investors quickly, appropriately and fairly; and promote understanding of our management and business activities.
- 7-2 We shall foster fair stock transactions and strive to prevent insider trading such as the buying and selling of stocks based on undisclosed internal information.

8. Information security

We shall be aware that personal information and confidential information are important and strive to prevent information leakages while maintaining and promoting information security.

- 8-1 We shall be aware that personal information is important information that constitutes privacy, and strive to protect it thoroughly.
- 8-2 We shall properly manage and protect confidential information received from customers or third parties, and confidential information of companies obtained in the conduct of business, and prevent any leakage or misuse.

9. Business Continuity Plan (BCP)

We shall formulate a BCP and aim for quick recovery and operation even if concerns over supply arise due to disaster, etc.

10. Social contribution

Based on the awareness that a business enterprise is a member of society, we shall do our duty at all times as a corporate citizen to support the development of local communities and society, and carry out various social contribution activities, not just business.

- 10-1 We shall actively interact with local people and support sports to contribute to the development of local communities.
- 10-2 We shall strive to do our duty as a member of society through various activities that contribute to society such as education, research, culture, the arts, international exchange and cooperation, and environmental protection activities.

CSR Activity Highlights in FY2022

1. "Winner of the 2021 Japan Packaging Contest - Electrical and Electronic Equipment Packaging Category"

Our company's A4 printer product packaging has been awarded the "Electrical and Electronic Equipment Packaging Category" prize at the "2021 Japan Packaging Contest" organized by the Japan Packaging Technology Association, a public interest corporation. This contest is the largest packaging competition in Japan, and this marks our 15th consecutive award over three years. The packaging design that won this time utilizes pulp molds made from recycled paper, instead of expanded polystyrene, in order to address the issue of plastic reduction. Pulp molds as cushioning materials have a challenge in that once they are damaged by impact, they do not easily return to their original state, unlike expanded polystyrene. To overcome this issue, we increased the surface area of contact between the product and the cushioning material and designed the packaging to disperse impact. For the scenario of drops from the bottom surface, which is expected to have the highest frequency, the packaging is engineered to withstand the shocks of handling, ensuring that the product remains undamaged even when dropped from a height of 1.5 meters. Furthermore, the newly developed pulp molds have comparable interference characteristics to expanded polystyrene, allowing us to achieve compact packaging that maintains a cushioning distance of 3cm between the outer box and the product, similar to when using expanded polystyrene. This contributes to the efficiency of product transportation. This development effort, which aligns with the concept of "reducing plastic," was recognized and honored with this prestigious award for addressing criteria such as resource conservation and environmental concerns.



Cut Model of Packaging Using Pulp Molds

2. "Received Sustainability Award "

Kyocera Document Solutions Germany has been honored with the "German Award for Sustainability Projects" in recognition of its sustainability strategy. This award is presented by the German Institute for Service Quality, the news channel ntv, and the DUP magazine, with the support of former Federal Minister of Economics Brigitte Zypries. The "German Award for Sustainability Projects" aims to raise awareness of best practices in sustainability among companies in various fields and is judged by a panel of experts based on ecological criteria, evaluating CSR projects of companies and organizations. Efficiency in raw materials, recycling, environmental protection, as well as social goals such as education, health, and employment are among the aspects considered for evaluation. Kyocera Document Solutions Germany received high praise and secured the top position in the sustainability strategy category. The panel of judges stated in their statement, "Kyocera Document Solutions Germany is an industry pioneer in CSR and their environmental protection initiatives, involving partners as well, have a significant impact."



Comment from Daniela Matysiak, CSR Manager at Kyocera Document Solutions Germany

"For our company, environmental protection has played a crucial role over the years. As part of the 'Print Green' project, we offer toners and copiers in an environmentally conscious manner. This commitment led us to become a climate-neutral company since 2020, achieved by investing in three internationally recognized environmental protection projects that have received the gold standard. Furthermore, we have a cooperative partnership with Deutsche Umwelthilfe (German Environmental Aid) and have been participating in nature conservation projects for approximately 35 years as part of the 'Living Rivers' project. Our sustainability strategy is closely intertwined with our business strategy, and we consistently drive it forward. We are delighted that expert judges have recognized these efforts and honored us with the first-place award."

3. "Recipient of the APCO Award 2021"

Kyocera Document Solutions Australia has been honored with the Electronics Category Award from the Australian Packaging Covenant Organization (APCO). Having previously received the APCO Awards in 2018 and 2020, this marks our third consecutive recognition. APCO is a non-profit organization leading the development of a circular economy for packaging in Australia. The annual APCO Awards ceremony celebrates organizations at the forefront of sustainable packaging design and innovation.



Award commemorative trophy

4. Received a Letter of Appreciation from the Osaka Prefectural United Fund

Kyocera Document Solutions Headquarters and the Hirakata Plant have been awarded Letters of Appreciation at the "2021 Osaka Prefecture Social Welfare Convention" by the Osaka Prefectural United Fund for their longstanding collaboration in joint fundraising activities. Donations through the Osaka Prefectural United Fund contribute to the well-being of the local community by supporting welfare facilities and individuals in need.

Our company has been actively participating in joint fundraising activities since 2001, and our sustained dedication to the advancement and development of private civil welfare initiatives has been recognized and honored through this commendation.



Presentation of Letter of Appreciation at the Osaka Prefecture Social Welfare Convention

5. Donation of Christmas Presents to Children

Kyocera Document Solutions America has been participating in the charitable program "Toys for Tots" since 2005, which involves giving toys as Christmas presents to underprivileged children. This year as well, toys donated by employees were contributed to the cause.

In Kyocera Document Solutions Germany, Christmas presents donated by employees were given to the non-profit organization (Initiative Schmetterling Neuss e.V.) that supports families with sick children. These gifts will be distributed to children through the organization. This marks the fourth year of participation in this support activity.



Germany



United States

6. Food Donations to Food Banks

Kyocera Document Solutions Canada collected food support from employees and provided approximately 250 pounds (about 114 kg) of food to a local food bank. Similar activities are also being carried out in various regions.



Food donations from Canadian employees

7. Participation in "Business Clean Up Day"

Kyocera Document Solutions Australia has been participating consistently since 2003 in the volunteer cleanup initiative known as "Business Clean Up Day," which takes place nationwide annually. This activity is organized by Clean Up Australia, founded by the passionate yachtsman Ian Kiernan. The initiative traces its origins back over 30 years when he, along with a few friends, initiated a cleanup of Sydney Harbour, which has since evolved into a nationwide cleanup effort across Australia.



Cleanup Activity at Meadowbank Park

8. Support for Activities of the Osaka City Children's Welfare Facility Federation

Kyocera Document Solutions Headquarters provides support for the activities of the Osaka City Children's Welfare Facility Federation, including dispatching volunteers to various sports events, creating booklets for art exhibitions, and serving as instructors for workshops organized by the federation aimed at students transitioning into society after graduating from junior high and high school.



Training Workshop Lectures



Guidance along the Route at Relay Races and Road Races



Award Presentation at Futsal Tournaments

9. Implementation of Biodiversity Conservation Activities at the Yodogawa Wetlands

Kyocera Document Solutions Headquarters and the Hirakata Plant participate in the natural restoration activities of the Yodogawa Wetlands, which is the habitat of the nationally designated natural monument Itasenpara, located along the Yodo River in Osaka Prefecture.



Protection of Native Fish through Seine Netting



Extermination of Invasive Plants



Itasenpara (Japanese giant salamander)

ECOSYS Concept

Since the release of our first ECOSYS printer, the ECOSYS FS-1500, in 1992, we have continued product development based on the ECOSYS concept, in which environmental impact is minimized by maximally extending the life of printer parts and thereby reducing part and supply waste (Ecology), and economic advantages are provided to the customer (Economy).



ECOSYS Concept






The first ECOSYS printer, Ecosys FS-1500

Products Certified for Environmental Labels in FY 2022

Environmental labels help customers easily identify environmentally friendly products. We are committed to making environmentally friendly products and is actively working to acquire environmental label certification. In FY 2022, the products presented in the table to the right were certified or registered for environmental labels.

-: Not sold in countries where the label is used
*: Certified in the previous fiscal year



Product Name		Environmental Label		
		 Eco Mark (Japan)	 EPEAT (USA)	 Blue Angel (Germany)
MFPs	TASKalfa 2554ci	*	○(Gold)	*
	TASKalfa 3554ci	*	○(Gold)	*
	TASKalfa 4054ci	○	○(Gold)	○
	TASKalfa 5054ci	○	○(Gold)	○
	TASKalfa 6054ci	○	○(Gold)	○
	TASKalfa 7054ci	○	○(Gold)	○
	TASKalfa 4004i	-	○(Gold)	-
	TASKalfa 5004i	○	○(Gold)	○
	TASKalfa 6004i	○	○(Gold)	○
	TASKalfa 7004i	○	○(Gold)	○
	TASKalfa 4054ci W	○	-	-
	TASKalfa 5054ci W	○	-	-
	TASKalfa 6054ci W	○	-	-
	TASKalfa 7054ci W	○	-	-
	TASKalfa 5004i W	○	-	-
	TASKalfa 6004i W	○	-	-
	TASKalfa 7004i W	○	-	-

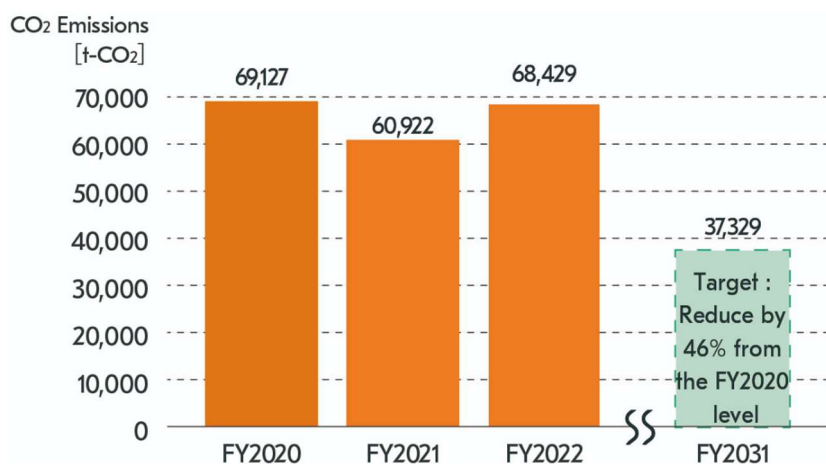
Environmental Protection Activities

"Respect the Divine and Love People" is the Kyocera Group's corporate motto, and you can see it at work in everything we do. All of our corporate activities rest on the three pillars of coexistence ("Living Together"): coexisting harmoniously with our society, our global community, and nature. Committed to environmental management, the Kyocera Group as a whole aims for sustainable corporate development with the aim of integrating the goals of a healthy environment and economy. We use an environmental management system to achieve environmental management that is in line with the Kyocera Group Environmental Safety Policy.

Initiatives and Achievements for FY2022

1. FY2022 CO₂ Emissions in Scope 1 and Scope 2*¹ by Region

	CO ₂ Emissions for Scope 1 and 2 [t-CO ₂]
Production sites in Japan	22,198
Production sites outside Japan	29,436
Non-production sites in Japan	2,915
Non-production sites outside Japan	13,880
Group Total	68,429



*1 Scope 1: Direct emission associated with fuel consumption and production processes.

Scope 2: Indirect emission associated with consumption of power or heat purchased from outside.

2. FY 2022 Power Consumption, Industrial Waste Generations, and Water Use by Region

	Power Consumption [MWh]	Industrial Waste Generations [t]	Water Use [m ³]
Production sites in Japan	54,771	592	142,981
Production sites outside Japan	48,967	1,583	517,033
Non-production sites in Japan	4,918	106	21,574
Non-production sites outside Japan	11,148	1,033	374,275
Group Total	119,804	3,314	1,055,863

3. Environmental Conservation Achievements

Category	FY 2022 Targets	Scope*2	FY 2022 Results
Energy use	Make energy use below 29,198 [kL]	#1	28,786 [kL]
Greenhouse gas emissions	Make emissions below 22,212 [t-CO ₂]	#1	24,221 [t-CO ₂]
Industrial waste generation	Make waste generation below 985 [t]	#2	867 [t]
Water use	Make water use below 562,948 [m ³]	#2	660,014 [m ³]
Minimization of negative impacts on the environment	Implement 8 measures to reduce the use of plastic	#1	Implementing 14 measures including the recycling and reusing waste plastic, reducing packing material and providing training within the company

*2 Scope:

#1 Head Office, Hirakata plant, Tamaki plant, the Osaka Head Office of Kyocera Document Solutions Japan, China plant and Vietnam Plant

#2 Hirakata plant, Tamaki plant, China plant and Vietnam Plant

ISO 14001 Integrated Certification Site's Environmental Goals for the FY 2023

Category	FY 2023 Targets	Scope*3
Greenhouse gas emissions	Make CO ₂ emissions (Scope1,2) below 53,045 [t-CO ₂]	#1
Industrial waste generation	Make industrial waste generation below 808 [t]	#1
Water use	Make water use below 652,397 [m ³]	#1
Continue to "zero emissions (the waste recycling rate: 99.5% or higher)"		#2
Implement measures to reduce plastic usage		#3

*3 Scope:

#1 Hirakata plant, Tamaki plant, China plant and Vietnam Plant

#2 Head Office, Hirakata plant, Tamaki plant, the Osaka Head Office of Kyocera Document Solutions Japan

#3 Head Office, Hirakata plant, Tamaki plant, the Osaka Headquarters of Kyocera Document Solutions Japan, China plant and Vietnam Plant

Long Term Environmental Goals* 4

Based on the goals of the Paris Agreement, which established an international framework for addressing global warming, a long-term environmental target for reducing CO₂ emissions (at the 1.5°C level) was set in 2018. In FY 2022, this long-term target was revised as follows:

- GHG emissions (Scope 1,2*1) Emission reduction target (1.5°C standard) : 46% reduction before FY 2031 (compared to FY 2020)
- GHG emissions (Scope 1,2,3*5) Emission reduction target (1.5°C standard) : 46% reduction before FY 2031 (compared to FY 2020)
- Introduction of renewable energy : 20 times increase before FY 2031 (compared to FY 2014)
- Carbon neutral before FY2051

*4 The scope of the target includes greenhouse gas emissions from electricity use as well as natural gas use.

*5 Scope 3: Indirect emission other than Scope 1 or 2 (Including procurement of raw materials, transport, use and disposal of products, as well as employee commuting and business trips)

Tamaki Plant

704-19, Aza Matabe Nojino, Tamaki-cho, Watarai-gun, Mie, Japan

Business Operations: Manufacturing of color and monochrome toner

Total Site Area: 101,511m²

Total Floor Space of Buildings: 36,552m²

Number of Employees: 240 (as of March 31, 2022)

Power Consumption: 40,082MWh (FY 2022)

Water use: 112,326m³ (FY 2022)



The Tamaki Plant is located in the Mie Prefecture town of Tamaki, just west of the Ise Grand Shrine. We mainly produce toner, covering everything from development to production of toner cartridges, which are consumables for MFPs (multifunctional products) and printers. We have placed a special focus on CSR activities with the aim of achieving the sustainable growth and development of these vital operations. Nestled amid nature's abundance, the plant is adjacent to towns as well as farmland. That's why we place a priority on environmental conservation, coexistence with local communities, and workplace safety. As part of our environmental e-orts, we apply our own standards that are stricter than legal requirements to manage industrial wastewater, dust, and other pollutants generated by our plant. Tamaki encompasses wetlands that have been confirmed to be a habitat for rare species of animals and plants. We are helping to develop a biotope there that can be used for studying rare animal species and environmental education. In an e-ort to build bridges with local communities, we not only conduct our own cleanup activities in the area near the plant but also participate in local cleanup events. As part of our youth development initiatives we provide learning opportunities that include environmental classes at local elementary schools and work experience programs for junior high school students. In order to ensure a safe workplace, we make continuous improvements to our ISO 45001-certified occupational health and safety management system. On top of that we have the Perfect 5S, an in-house standard that makes sure the 5Ss (i.e., sort, set, shine, standardize, and sustain) are in perfect order, to make our workplace completely safe and accident-free. Through these e-orts, we continuously work toward achieving our own sustainable development goals, and report on our activities to local communities, suppliers, and local government agencies at regular CSR briefing sessions.

Won Gold Award as an Outstanding Safe Driving Facility

We have been awarded the Gold Award as an outstanding safe driving facility by the Automotive Safety Driving Center. Given the limited public transportation options around our plant, automobiles are essential not only for commuting but also for daily life. As such, we have made concerted efforts to promote safe driving not only in our operations but also in our employees' daily lives. To ensure that accidents and traffic incidents are avoided, we have established a Traffic Safety Enhancement Month during which we provide traffic safety guidance, share accident details within the plant, and raise awareness among our staff. This comprehensive approach throughout the entire facility has been dedicated to prioritizing safe driving practices. We will continue to strive for safe driving to prevent traffic accidents and incidents from occurring.



Director of the Mie Branch of the Safety Driving Center (left) and Plant Manager Nishimura

* Gold Award Criteria: Eligible

- Facility: 20 employees or more
- (Number of employees with traffic violations / Total number of employees) x 100: Less than 2%
- (Number of employees involved in traffic accidents / Total number of employees) x 100: Less than 0.5%

Participation in Biotope Restoration Activities

We have entered into an agreement with the local environmental conservation group "Sugashi Arita Sataoki Environmental Conservation Association" in Tamaki Town to collaborate on the preservation and restoration of local land and mountains. Since 2020, we have been actively engaged in the biotope restoration activities conducted by the aforementioned group as part of our environmental conservation efforts. Additionally, we are providing support for observation events aimed at educating children about nature and its intricacies.



Biotope Observation Event

Environmental Classes for Kids' ISO 14000 Program

Mie Prefecture is promoting the Kids' ISO 14000 Program (Primary Level) for elementary school students in order to raise environmental awareness through energy conservation activities at home. Designed to provide hands-on environmental learning opportunities, the program is implemented under the prefecture's basic environmental plan. We have been supporting this program and conducting environmental classes at elementary schools in Tamaki since 2005.



Remote environmental outreach class

Cleanup Activity at Tamaru Castle Ruins

We team up with the labor union to participate in cleanup events at the Tamaru Castle Ruins organized by Tamaki Town every spring and fall. Designed to get everyone in the community involved in preserving and nurturing Tamaki Town's historical and cultural heritage, the event brings local organizations and companies together to work on mowing the grounds and cleaning up the site.



Participants cleaning up the site

Tamaki Plant: Environmental Data (FY 2022)

Environmental Performance

Category	Unit	FY2021	FY2022
Energy use	kL/year (crude oil equivalent)	8,757	10,005
CO ₂ emissions	t-CO ₂ /year	16,112	17,178
Water usage	m ³ /year	87,683	112,326
Industrial waste emissions	t/year	469	543
Discharge volume (wastewater treatment facility)	m ³ /year	33,493	45,778

Water quality related to discharge

Category	Unit	Regulatory threshold	Measured value
Hydrogen ion concentration (pH)	-	More than 5.0 and less than 9.0	7.0
Biochemical oxygen demand (BOD)	mg/L	Less than 600	0.8
Suspended solids (SS)	mg/L	Less than 600	1.9
Content of n-hexane extractables	mg/L	Less than 5	Less than 1

Noise-related

	Unit	Regulatory threshold	Measured value
Morning (6 am~8 am)	dB	Less than 55	48.0
Afternoon (8 am~7 pm)		Less than 60	51.6
Late afternoon (7 pm~10 pm)		Less than 55	53.0
Night (10 pm~6 am the following day)		Less than 50	47.8

Vibration-related

Time division	Unit	Regulatory threshold	Measured value
All days	dB	Less than 60	Less than 30

Hirakata Plant

1-38-12, Tsudakita-machi, Hirakata-shi, Osaka, Japan

Business Operations: Manufacturing of MFPs (multifunctional products) and printers, toner, and ink; storage and shipping of products and parts

Total Site Area: 46,017m²

Total Floor Space of Buildings: 58,978m²

Number of Employees: 247 (as of March 31, 2022)

Power Consumption: 14,689MWh (FY 2022)

Water use: 30,655m³ (FY 2022)



The Hirakata Plant is now in its 58th year of operation. While the plant is conveniently located within close proximity to the three cities of Osaka, Kyoto, and Nara, its immediate surroundings are blessed with nature's abundance. That includes the Hotani River and Yamada Pond, which is famous for bird watching, as well as the Hotani area, which is listed among the top 1000 Monitoring Sites*¹ and Top 100 Villages of Japan.*² In order to protect this rich natural environment, we carefully control the quality of air and wastewater released from the plant, conserve energy, reduce and reuse waste, and regularly clean up nearby roads and riverbeds. We also promote the 5Ss via our occupational health and safety management system to ensure that there are no accidents or disasters while improving the welfare of our employees so that they can rest knowing the place where they work is safe and sound. We owe it to our neighbors in the local community who have supported us over the years and helped us come this far. We will continue to work on activities that fulfill our corporate social responsibility.

*1 Priority rural survey areas designated by the Ministry of the Environment

*2 Selected by the Asahi Shimbun and the Forest Culture Association

Conducting Career Lecture

In Hirakata City, Osaka Prefecture, where our plant is located, we are implementing a program titled "Career Education" aimed at junior high school students. The program aims to create opportunities for students to think about professions and working. For 1st-year students, we offer career lectures, for 2nd-year students, workplace experiential learning, and for 3rd-year students, we offer guidance for future paths. As part of this initiative, our plant received a request for a career lecture, and we conducted a remote lecture for 1st-year students from Nagao Junior High School. After the lecture, we received numerous questions from the students, and appreciate their high level of awareness.



Remote Lecture Held

Adopt-a-Road & River Program

We have been participating in Adopt-a-Road & River, a cleanup program organized by Osaka Prefecture, since 2004. We clean the sidewalk leading from the nearest train station to the plant's main gate once a month under the Adopt-a-Road program and clean the walkway along the left bank of the Hotani River that runs beside the plant once every three months under the Adopt-a-River program.



Adopt-a-River



Adopt-a-Road

Supporting Cookie Sales at Vocational Facilities

Nearby vocational facilities are supporting individuals with disabilities to work as members of society and achieve independence by making and selling cookies, allowing them to work happily alongside their peers. In order to support this initiative, we conduct monthly cookie sales at the plant.



Cookie Sales at the plant

Participation in "Uchi-mizu Large-scale Operation"

In response to the call from the Hirakata City Global Warming Prevention Council, to address the summer heat, as part of the efforts, our plant participated in the city-wide "Uchi-mizu Large-scale Operation," conducted collectively for the local administration, businesses, and individuals in Hirakata City. We carried out the watering of roads within the plant premises as a measure.



Uchi-mizu Large-scale Operation

Hirakata Plant: Environmental Data (FY 2022)

Environmental Performance

Category	Unit	FY2021	FY2022
Energy use	kL/year (crude oil equivalent)	3,162	3,874
CO ₂ emissions	t-CO ₂ /year	4,526	5,019
Water use	m ³ /year	28,665	30,655
Industrial waste generation	t/year	50	49
Wastewater discharge (water treatment facility)	m ³ /year	15,111	15,615

Wastewater Quality

Category	Unit	Regulatory threshold	Measured value
Hydrogen ion concentration (pH)	-	Within the 5.8 to 8.6 range	7.5
Biochemical oxygen demand (BOD)	mg/L	Less than or equal to 35	3.7
Suspended solids (SS)	mg/L	Less than or equal to 70	2.8
Normal-hexane extracts	mg/L	Less than or equal to 4	1.0

Exhaust Air

Category	Unit	Facility	Regulatory threshold	Measured value
Dust and soot	g/Nm ³	AR-I gas absorption type water cooler/heater	Less than or equal to 0.05	0.011
NOx*	ppm	AR-I gas absorption type water cooler/heater	Less than or equal to 150	34

* NOx: Nitrogen oxides

Noise

Time division	Unit	Regulatory threshold	Measured value
Morning (6 am~8 am)	dB	Less than or equal to 50	36.1
Afternoon (8 am~6 pm)		Less than or equal to 55	48.2
Late afternoon (6 pm~9 pm)		Less than or equal to 50	44.6
Night (9 pm~6 am the following day)		Less than or equal to 45	42.3

Vibration

Time division	Unit	Regulatory threshold	Measured value
Afternoon (6 am~9 pm)	dB	Less than 60	39
Night (9 pm~6 am the following day)		Less than 55	33

China Plant

3 Fang Zheng East Road, Shilong Town, Dongguan City, Guangdong Province, People's Republic of China

Business Operations: Manufacturing of MFPs (multifunctional products), printers, toner, and photoreceptor drums

Total Site Area: 136,969m²

Total Floor Space of Buildings: 231,792m²

Number of Employees: 7,140 (as of March 31, 2022)

Power Consumption: 38,424MWh (FY 2022)

Water use: 419,723m³ (FY 2022)



Ever since we began producing MFPs (multifunctional products) and printers in 2001, the China Plant has been doing its best to make quality products that are trusted and chosen by customers while making conscious efforts to improve its operations, all with the aim of achieving the Kyocera Group's objective to make Kyocera the No. 1 company that is looked up to by people around the world. All of us at the China Plant work every day with the Kyocera Group's management rationale in mind, that is, "to provide opportunities for the material and intellectual growth of all our employees, and through our joint efforts, contribute to the advancement of society and humankind," which we believe will lead to creating a sustainable world. We also believe that promoting prosperity in our entire supply chain is a must in order to realize this management rationale, so we are working together with our suppliers to address human rights, environmental conservation, occupational safety and health, and compliance throughout our operations. As a member of the Kyocera Group, we not only comply with domestic laws and regulations but also with international standards, such as the United Nations Universal Declaration of Human Rights and the ILO (International Labor Organization) Declaration on Fundamental Principles and Rights at Work. As part of our environmental initiatives, we are replacing conventional equipment with the latest energy efficient models to save energy. Aiming to minimize our environmental footprint, we also set more demanding targets for limiting effluent and exhaust air released from our plant than required by local standards to keep water and air cleaner. When it comes to reducing waste, each and every employee makes a conscious effort to reuse and recycle with the aim of making our operations waste-free throughout the plant. On top of that, wastewater from the production process is treated and reused to replenish the water supplied to the plant's production facilities.

Kyocera Classes

We have been providing Kyocera Classes at vocational schools across China since September 2012 with the aim of introducing students to Kyocera technologies and know-how. Classes are currently being taught at six schools to approximately 1,100 students.



Kyocera Classes

Implementing Eco Actions

Over the course of four months, from June to September, we have been carrying out various environmental conservation activities under the banner of "Eco Action." With the slogan "Let's all participate in energy-saving and waste reduction, and together build a green production company," we conducted environmental inspections led by the CEO and also engaged in the removal of invasive plants and cleaning activities at nearby parks.



Slogan posted in the plant



Removal of Invasive Plants

VOC*1 Emission Reduction

We have installed VOC treatment equipment in workshops where organic solvents are used. This has resulted in an annual reduction of approximately 300 kg in VOC emissions. Additionally, we have implemented an online monitoring system to continuously monitor factors such as VOC generation concentrations. As a result, in FY 2022, we were able to reduce atmospheric VOC emissions by approximately 90% compared to the previous year. These efforts have led our plant to receive an "A" rank evaluation*2 in the VOC grade assessment system of the Dongguan Ecology and Environment Bureau.



Newly Installed VOC Water Treatment System



Newly installed VOC collection equipment

*1 Volatile Organic Compounds: Volatile organic compounds

*2 Given to companies that meet conditions such as a VOC removal rate of 90% or higher and an exhaust gas collection velocity of 0.3 [m³/second] or higher, as part of the Dongguan Ecology and Environment Bureau's VOC grade assessment system.

Operation of In-House Daycare Facility

As part of our efforts to create a more employee-friendly environment for those with children, we collaborate with the labor union to operate an in-house daycare facility called "Doraku-en," where employees' children are cared for. Additionally, during the summer vacation period, we have established the "Kyocera Summer Class" to temporarily look after children. In FY 2022, this service was utilized by 53 children of our employees.



Children at Doraku-en

China Plant: Environmental Data (FY 2022)

Environmental Performance

Category	Unit	FY2021	FY2022
Energy use	kL/year (crude oil equivalent)	10,648	10,618
CO ₂ emissions	t-CO ₂ /year	21,916	24,433
Water use	m ³ /year	362,337	419,723
Industrial waste generation	t/year	428	385
Wastewater discharge (water treatment facility)	m ³ /year	13,038	15,535

Wastewater Quality

Category	Unit	Regulatory threshold	Measured value
Hydrogen ion concentration (pH)	-	Within the 6.0 to 9.0 range	7.68
Biochemical oxygen demand (BOD)	mg/L	Less than or equal to 20	1.75
Suspended solids (SS)	mg/L	Less than or equal to 60	7.75

Exhaust Air

Category	Unit	Regulatory threshold	Measured value
Dust and soot	mg/m ³	Less than or equal to 20	1.73
NO _x *1	mg/m ³	Less than or equal to 150	83.33
VOCs	mg/m ³	Less than or equal to 80	1.89
NMHC*2	mg/m ³	Less than or equal to 100	2.26

*1. Nitrogen oxides

*2. Non-methane hydrocarbons

Vietnam Plant

Land Lots No. 56A, 56B, 56C, VSIP Hai Phong Township, Industrial and Service Park, Dinh Vu-Cat Hai Economic Zone, An Lu commune, Thuy Nguyen District, Hai Phong City, Vietnam

Business Operations: Manufacturing of MFPs (multifunctional products), printers, and toner containers; research and development
Total Site Area: 200,466m²
Total Floor Space of Buildings: 226,777m²
Number of Employees: 6,066 (as of March 31, 2022)
Power Consumption: 10,543MWh (FY 2022)
Water use: 97,310m³ (FY 2022)



Launched on October 1, 2012, the Vietnam Plant is Kyocera Document Solutions' second plant to start production outside Japan, following the China Plant. In order to achieve Kyocera's management rationale, "to provide opportunities for the material and intellectual growth of all our employees, and through our joint efforts, to contribute to the advancement of society and humankind," we are diligently working to make our plant the best in Vietnam. We not only serve as a production site but also have a research and development division. Providing a work environment where talented Vietnamese people can utilize their skills enables us to contribute to Vietnam's regional development.

Received the "20th Golden Dragon Award"

We have been honored with the "20th Golden Dragon Award" organized by Vietnam Economic Times. Vietnam Economic Times is a widely-read business magazine, and each year, the magazine evaluates and recognizes the top 60 foreign-invested companies in Vietnam based on performance, investment and contributions to Vietnam, environmental efforts, and other criteria.



Award Ceremony

Scholarships to Students at Vietnam Maritime University

Helping to sow the seeds that will give rise to the next working generation in Vietnam, we award scholarships to students at Vietnam Maritime University in Hai Phong. Since the start of the scholarship program in 2013, scholarships have been awarded to 36 students.



Students who received the scholarship

Year-end Mutual Aid Fundraising Activity

Donation to a school for the deaf Before the Vietnamese Lunar New Year (or Tet), we called on our employees to donate money to charity. The money raised, plus contributions from the plant and labor union, was used to buy daily necessities and school supplies, which were donated to an orphanage and a school for the deaf in the area.



Donation to a children's foster care facility



Donation to a school for the deaf



Donation to a school for the blind

Promotion of Biodiversity Activities

As part of our efforts to promote biodiversity, we cultivate the indigenous Vietnamese vegetable species "Rau ngót" (leafy greens) on our premises. The harvested vegetables were provided to employees during lunchtime.



Garden on the plant premises



Harvested Vietnamese leafy greens

Vietnam Plant: Environmental Data (FY 2022)

Environmental Performance

Category	Unit	FY2021	FY2022
Energy use	kL/year (crude oil equivalent)	2,557	2,812
CO ₂ emissions	t-CO ₂ /year	3,737	5,003
Water use	m ³ /year	90,286	97,310
Industrial waste generation	t/year	782	1,198
Wastewater discharge (water treatment facility)	m ³ /year	87,941	83,463

Wastewater Quality

Category	Unit	Regulatory threshold	Measured value
Hydrogen ion concentration index (pH)	-	Within the 6.0 to 9.0 range	7.1
Biochemical oxygen demand (BOD)	mg/L	Less than or equal to 50	22.6
Total suspended solids (TSS)	mg/L	Less than or equal to 100	23.8

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Information in this report is correct as of end of October 2022.

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