

Hello, everyone.

My name is Masahiro Tokuchi, and I am with the Sustainability Group of the Corporate Planning Division. Now, I will now explain about Konica Minolta's environmental management.



As climate change and other global environmental issues become more apparent and serious, we are witnessing a major societal shift toward the creation of a decarbonized, recycling-oriented, nature-symbiotic society.

Changes in society affect us, of course, but they also have a strong impact on our customers' supply chains.

For example, major automotive and electrical and electronics companies have set goals to achieve carbon neutrality in their supply chains and products, deepening engagement with supply chain partners. As such, we recognize that a great opportunity lies ahead if we can help these customers solve their environmental challenges throughout their supply chains.



We have a variety of assets as a result of our efforts to reduce the environmental impact in the Company. As shown in the lower left of this slide, we are enhancing direct engagement on the factory floor, thoroughly measuring and visualizing, or improving and transforming our processes. And above all, we deeply recognize the challenges as our own efforts to strike a balance between environmental value and business value.

Based on these core activities, we will first change our value chain through co-creation with suppliers and customers, and then through further cocreation with customers and society at large, we will make an environmental contribution that we could never have made alone by transforming industrial value chains and even social systems, leading to business growth for the Company.

This is our basic approach to environmental management.



We are developing this concept as our vision and goal.

The chart above the horizontal axis of the year shows the CO_2 emissions over the life cycle of Konica Minolta products, i.e., our targets, including those in Scopes 1, 2, and the main Scope 3, for which we consider ourselves responsible.

We regard this as a goal that primarily responds to societal demands.

Since as early as 2009, we have set our long-term vision for 2050, taking early steps to visualize and reduce Scope 1, 2, and 3 emissions.

We achieved a 58% reduction by fiscal 2022. In simple terms, this is all because of the results of a 3.5% reduction per year, which we have been doing for the past 17 years.

By 2050, we will further accelerate our efforts to achieve net-zero emissions.

In addition, the chart below the horizontal axis of the year represents CO_2 reduction contribution through working with communities and customers.

We are aware that this goal represents an opportunity for the Company.

By 2025, we will generate a reduction contribution that exceeds the product life-cycle CO_2 emissions for which we are responsible, as shown in the chart above, that is a reduction contribution of 800,000 tons.

We have set a conceptual target of Carbon Minus, which means that our existence will enable society at large to reduce CO_2 emissions by more than our own CO_2 emissions.

To achieve Carbon Minus, we aim to make further reductions in the strengthening areas, especially in the industry business.

Besides our decarbonization vision, as shown in the Appendix, we have also set out a target for resource recycling under the same concept. Today, let me continue to focus on climate change.

	Chemical plant sites	Ż.	Assembly sites
Energy conservation	3% reduction annua	lly	2% reduction annually
Ratio of renewable energy to purchased electricity	20% to 100% o	lepenc	ling on site characteristics
Reduction of waste discharge	20/		
(resource reduction)	۷%	reduct	cion annually
(resource reduction) ertification achievement by all The standards are revised every Me continuously implemented.	global production site	es riod to	o raise the bar. The activities are

Now, let's move on to specific activities for Scopes 1 and 2 among Scopes 1, 2, and 3, as shown in the top part of the chart I mentioned earlier.

Since the management integration, we have continued the Green Factory activities, in which all of the global production factories set high-level targets for energy conservation and resource reduction.

We set higher targets for each Medium-term Business Plan period. We maintain a system in which each site works toward these targets and is certified for achieving them. Through such ongoing activities, we have worked to raise the level of our efforts and ensure that the activities are firmly established.



In the activities, our basic approach is to make sure to directly engage on the factory floor, thoroughly conduct measurement and visualization, and drive process improvement and transformation, which serves as the origin and core of the Company.

These efforts have resulted not only in a reduction in environmental impact and cost, but also in the acquisition of sales opportunities and the development of human capital, such as on-site oriented approach, visualization, and process innovation.

Once again, this is the origin and core of the Company.



As shown here, the Green Factory activities achieved a reduction of 118,000 tons of CO_2 emissions during production by saving energy and 3.38 billion yen in costs, as a result of reducing both environmental impact and costs.

In the current Medium-term Business Plan, these activities are ongoing at all sites, with the goal of cutting CO_2 emissions by 40,000 tons and costs by about 800 million yen.

In addition to saving energy, we have continued to achieve 100% renewable energy at our factories. At the end of fiscal 2022, all final production sites for MFPs have achieved 100% renewable energy. All Konica Minolta MFPs are being manufactured in final production factories that use 100% renewable energy.



To achieve net zero, we will also strive not only to convert to renewable energy, but also to steadily advance energy conservation.

The energy consumption per unit of sales improved by 39% by fiscal 2022. Our continued efforts will lead to a 50% reduction by 2030, or more than doubling our energy efficiency. Then we will convert the remaining energy to renewable energy sources that are best suited to each site and region. Our goal is to achieve 50% renewable energy by 2030 and 100% by 2050, and net zero by 2050.



Since 2013, we have worked to expand the experience and know-how we have gained from our Scope 1 and 2 efforts to suppliers.

In order to encourage our suppliers to achieve the same level of goals as our ongoing Green Factory activities, and to ensure that these activities are firmly established, we are implementing a scheme in which we will work with suppliers for three years.

In expanding our expertise, we now have a system in place that can collaborate with about 10 suppliers in a year through the in-house development and operation of a system that automates energy saving diagnostics.

To date, 21,000 tons of CO_2 emissions and 660 million yen in monetary costs have been reduced through collaboration with about 50 suppliers.

In recent years, CO_2 reduction in the supply chain has increasingly become an issue, and through our many years of experience and conversion to DX, we have taken early steps to work with suppliers, aiming to further advance these efforts.



In addition, the process reform and improvement activities implemented at customer sites will contribute to Scope 4 reductions.

This is the digital printing system that is currently deployed in the professional print business. The amount of CO_2 emissions, from the manufacturing and distribution of products, as well as from the energy consumed by customers when using products, increases by 13 tons per unit. We take it as our responsibility to reduce this 13-ton amount.

Meanwhile, by improving the processes, 500 tons of reduction can be achieved at customers' sites. This means that our reduction contribution can be about 40 times the increase from products. By steadily accumulating such reduction contributions and creating value for customers, we will increase the amount of reduction contributions, aiming to achieve Carbon Minus.



By leveraging our imaging IoT technology to visualize methane gas leaks in the oil and gas industry, customers can then take steps to prevent leaks, thereby curbing methane gas emissions, which have a high global warming potential of up to 25 times that of CO_2 emissions.

Targeting the North American market, which accounts for an estimated 20% of global methane emissions from the oil and gas industry and is highly regulated to prevent leaks, the application of our technology has the potential to reduce methane emissions by 60,000 tons, according to our estimate. We will continue these efforts in the current Medium-term Business Plan.



To address the emergence of a decarbonized, recycling-oriented society, we harness related technologies for plastic recycling.

High purification technology, which extensively eliminates foreign substances, and material-properties upgrading technology, which dramatically improves strength and flame resistance, have been applied primarily to our MFPs and other products. As a result, these technologies have reduced resources by about 5,000 tons and the CO_2 equivalent by about 7,000 tons in fiscal 2022. The next step for us is to deploy these technologies on a broader scale, not only to the Company but also to our customers and communities, in order to make the 7,000 tons a larger impact, or to accumulate the amount that contributes to Scope 4 reductions.



On another recycling-related topic, we also have a sensing technology called "Hyperspectral Imaging." This technology enables us to identify chemical substances in a non-destructive manner. Black resin is considered to be very difficult to identify in the recycling of plastics. By applying the technology, we can ensure accurate sorting even for black resins. In fact, experiments conducted at a home appliance recycling plant have confirmed that black resin can be properly identified.

Through the integration and evolution of the recycling technologies mentioned earlier and these advanced sorting and visualization technologies, we have the potential to significantly change the social system toward a decarbonized and recycling-oriented society. We hope to develop our contributions to the next step, and to grow the seeds for the future business.



Besides contributions through our business, we have also built and operate an environmental digital platform to create value through co-creation among different industries.

The platform was launched in 2020 with 15 companies, and as of the end of October, 86 companies from a variety of industries have joined the platform. For more information on participating companies, please see the Appendix.

We currently operate the program with a focus on utilizing information necessary for environmental management. Among the results we have received from participating companies are that they were able to comply with requirements of the Task Force on Climate Change-related Financial Disclosure without the need for consultation, that they were able to introduce internal carbon pricing, and that they have made progress in introducing renewable energy overseas.

Moving forward, we intend to advance this platform to one that increases value by integrating resources of many companies, not just those of a single company, such as environmental technology and solutions to various issues, as well as the utilization of information.



This is the final topic. In September of this year, the framework for the Task Force on Nature-related Financial Disclosures was formally announced.

We have also started to identify natural capital risks and opportunities. We are aware that among natural capital, water risks can bring opportunities for the Company.

India, Turkey, and Italy, as well as other countries, which are major markets for our inkjet textile printers (machines that color fabrics), are facing very high water stress, as indicated by the red color on the map, according to the analysis.

In response, we are now developing an original wastewater-less digital printing technology. We hope to bring this technology to market as soon as possible, as it can be applied to the societal demands expected in the future in regions prone to high water stress.



By fiscal 2025 of the current Medium-term Business Plan, we aim to increase the ratio of revenue from products that contribute to the environmental impact reduction to more than 70%.

Specifically, we will focus on the CO_2 reduction contribution of the strengthening businesses, especially in the industry business.

As I mentioned on the opening slides, we will solve the environmental challenges in various aspects faced by each industry and customer, primarily through Konica Minolta's range of technologies and solutions. Doing so will lead to the growth of our business.

Thank you for your attention.









150 Glossary YEARS KONICA MINOLTA Scope 1 Greenhouse gases emitted directly by companies and organizations through combustion of fuels, in-house power generation, etc. • Greenhouse gases that are indirectly emitted through the use of electricity, heat, and steam supplied by entities other than companies and their organizations. Scope 3 Greenhouse gases other than Scopes 1 and 2 that are emitted indirectly through the supply chain associated with the companies' activities Scope 4 (Reduction contribution) • Greenhouse gases that are not covered by Scopes 1, 2, or 3 and that are reduced by customers or their supply chain through the companies' own solutions or activities. Green Factory Activities Konica Minolta's original efforts to promote energy conservation, effective use of resources, and introduction of renewable energy at its • own factories. **Green Products** Products that meet the standards established by Konica Minolta's own Green Products Certification System, have high environmental performance, or contribute to solving environmental issues for customers and others. • Carbon Minus Status in which Scope 4 exceeds the company's lifecycle CO_2 emissions (Scopes 1, 2, and 3). • Net zero Status in which greenhouse gas emissions are substantially zero. Upgrade recycling Recycling that enhances the value of materials used in the market by adding functions such as higher strength and flame retardancy. HSI (Hyperspectral imaging) A method for dividing a wide range of wave lengths into a large number in taking images. This technology enables sorting of plastics which cannot be distinguished by human eyes and RGB cameras. • • Environmental Digital Platform • An ecosystem of environmental management operated by Konica Minolta. The platform aims to reduce the environmental impact of the industries and society as a whole by utilizing each other's outstanding environmental technologies and know-how among companies in various industries. © KONICA MINOLTA 20