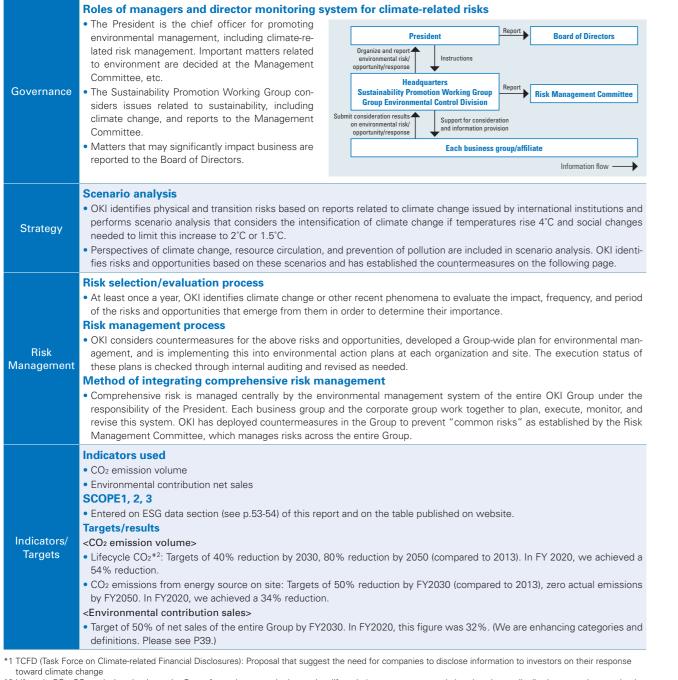
CONSIDERATION FOR THE ENVIRONMENT

The OKI Group considers its mission to be responding to increasingly severe climate change and resolving social issues in order to pass on a better global environment to the next generation. Therefore, we consider environment-related business risks and opportunities from the medium- to long-term perspective to promote environmental management. The OKI Group is taking efforts to mitigate environmental impact, such as reducing CO₂ emissions during the production process, as well as provide products and services that contribute to the resolution of environmental issues.

Information Disclosed According to the Task Force on Climate-related Financial Disclosures (TCFD*1)

OKI announced its support for the TCFD in May 2019 from a perspective of a positive economic and environmental cycle. Along with systemically managing climate-related risks, opportunities, and countermeasures for them, OKI aims to enhance information disclosure about these efforts.



2 Lifecycle CO₂: CO₂ emissions by the entire Group for each process in the product lifecycle (procurement → workplace location → distribution → product use by the customer → disposal of end-of-life product)

*Product use by customer = expected years of customer use x annual consumed power x number of units sold x emission units

•Strategy Based on Scenario Analysis

As societal changes to limit the increase in temperatures below 2°C progress, there will be changes in laws for decarbonization, technological progress, and market needs. We expect that there will be rising demand for OKI's decarbonization solutions. If temperatures rise 3 to 4°C, there will be

	Scer	ario Analysis		
Category	Expected Phenomena	Risk/ Opportunity	Impact on Future Finances	Strategy/Initiatives
2°C climate change scenario (transitional	Need for decarbonization increases further and spreads	Risk	 Loss of sales opportunities due to not meeting energy-saving standards on hardware products and customer demands Response to customer demands for renewable energy usage in the manufacturing process Higher costs stemming from strengthening decarbonization at business sites 	 Product: Energy-saving for hardware Set development targets that anticipate stronger regulatio Strengthen R&D Site: Promote through effective combination of CO₂ emissi reduction initiatives Improve production equipment efficiency; improve efficiency and reform production processes Introduction of ZEB (Zero Energy Building) at factories Implementation of renewable energies
risks) Referencing IEA sustainable development scenario (SDS) and IPCC's RCP2.6		Opportunity	 Expansion of demand for decarbonization/energy-saving solutions Expansion of needs of technologies that support the spread of renewable energy Expansion of demand for hardware products that operate on renewable energy 	 Product: Expansion and creation of environmentally friendl products Visualize and seek out environmental contribution net sale Creation of decarbonization/energy-saving solutions that utilize loT and Al E.g. Transportation, construction/infrastructure, finance/ logistics, maritime, business communications, building energy management Support to improve efficiency of customer operations throu operations outsourcing E.g. ATM full outsourcing services Expansion of hardware products that operate on renewable energy E.g. Zero Energy Gateway Strengthening of R&D (Al weight reduction, etc.)
4°C climate change scenario (physical risks) Referencing RCP8.5	 Abnormal weather becomes more frequent and intensifies (increased typhoons/flooding, extreme heat and cold, increased lightning) 	Risk	 Sites/suppliers: Loss of business assets due to disasters at factories and suppliers/ suspension of operations/ severance of supply chain Site: Equipment breaks due to higher temperatures 	 Site: Strengthen climate change BCP/BCM Install water stop boards; lift height of equipment Devices to stop manufacturing equipment during lightning storms Redundant air conditioning units for inspection devices Suppliers: Strengthen procurement BCP Strengthen surveys of climate change risks for suppliers
		Opportunity	 Product: Expansion of demand for advanced disaster prevention/ mitigation solutions (disaster prevention field, maritime field) 	 Product: Strengthen business deployment through disaste information systems, etc.
Prevention of pollution through chemicals	 Expansion and complication of laws and regulations for substances 	Risk	 Product: Standards violations for chemicals contained in products Site: Emissions standards violations due to deterioration of facility 	 Product: Strengthen sharing of operations across the entir Group Site: Review inspection/exchange standards
		Opportunity	 Product: Expansion of demand for efficiency improvement in chemical substance management (manufacturing field) 	 Product: Deployment of survey systems and analysis servi for chemicals in products
Resource circulation	 Strengthening of laws and regulations for oceanic plastics and microplastics 	Risk	 Site: Inflation of waste product disposal costs; refusal to accept from waste disposal companies Product: Risks of resource deprivation; risks of materials supply shortage 	 Site: Waste reduction Reuse of plastic packaging Reduction of percentage of disposed items through improvefficiency in extracting metal materials Product: Recovery and reuse of parts from used products utilizing the wide area certification system for industrial waste
		Opportunity	 Product: Expansion of demand for resource-saving products and recycling services 	 Product: Reduce burden on customers by recovering used products utilizing the wide area certification system for industrial waste

increased physical risks from intense disasters due to the impact of climate change. It is possible that severe impact will hit the supply chain, including OKI's own sites. Needs are also expected to rise for disaster information systems that serve to prevent severe damage.

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• Expansion of Environmentally Contributing Products

OKI began tallying net sales in fiscal year 2019 and is continuing to take efforts to formulate definitions and categories in order to expand environmentally friendly products, including those that address climate change. The net sales of environmentally contributing products in fiscal year 2020 was ¥127.3 billion according to the tallying of categories in the chart below. This represents 32% of the net sales of the entire Group. In addition to products focused on IT solutions that support operational efficiency improvements, OKI is also contributing to decarbonization by utilizing our strength in "Mono-koto-zukuri," which combines Mono-zukuri and Koto-zukuri to provide support that improves efficiency of customer operations through outsourcing operations of hardware products.

Environmental Themes		Examples of Environmentally-focused Initiatives	Examples of Products/Solutions
Mitigation of climate change		 CO2 reduction of products Reduce power consumption of products, reduce power/ energy consumption across entire system (less than past products) Comply with the International ENERGY STAR Program 	Business telephones, PBX, Zero Energy Gateway, 920MHz band wireless multi-hop, ATMs, cash handling equipment, printers
(decarbonization)	CO2 reduction/ energy-saving	 Solutions that contribute to CO2 reduction Mitigation of traffic congestion Reduction of traffic and required space of people and objects Reduction of network data communications volume Support the implementation of energy-saving systems Work outsourcing services 	SaaS ITS services, ETC toll systems, VICS systems, store digital transformation solutions, IoT solutions linked production equipment, multi-carrier audio IoT gateway, 920MHz band wireless multi-hop, ATM full outsourcing services
Adaptation to climate change 11 Assemblications Reconstructions 13 Assemblications	Response to severe damage	 Mitigate damage during disasters Establish infrastructure to prevent flooding of rivers from heavy rains, flooding of sewage systems (internal water flooding), and inundation damage Strengthening warning and evacuation system (infrastructure equipment monitoring) 	Disaster information systems, river monitoring systems, fire prevention systems, disaster prevention administrative radio systems for municipalities, VoIP notification broadcast systems, crisis management water gauges, Zero Energy Gateway
		• Monitor and measure the status of social infrastructure equipment to repair before malfunctions occur	Transportable boat multi-beam depth finder, optical fiber sensor system
	Resource-saving	 Reducing size, weight, and number of parts (less than previous products) Circular economy related (Products as a Service, reuse of modules and parts, common use of products) 	Business telephones, PBX, Zero Energy Gateway, multi-carrier audio IoT gateway, ATMs, cash handling equipment, printers
Resource circulation		 Circular economy related (systems that support resource-saving during customer use, resource circulation, and lengthening of equipment life span) Determine the life span of consumable products so that products can be used longer without being discarded (circular economy) 	loT solutions linked production equipment, maintenance inspection loT, Al wave analysis software for equipment maintenance
	Simplification of recycling	 Design considering separation, disassembly, and disposal 	Business telephones, ATMs, cash handling equipment, printers
	Conducting recovery/ recycling	Recovery system for used products and consumables	Business telephones, ATMs, cash handling equipment, printers
12 DESCRIPTION AND PRODUCTION	Lengthening life span/ upgrades	 Design that lengthens the life span of products Can upgrade version by downloads Commonality in housing units and parts 	Business telephones, PBX, AI edge computer, ATMs, cash handling equipment, printers, tunnel emergency systems, video monitoring systems
Prevention of pollution	Regulation of	 Comply with regulations for chemicals in products Manage chemicals based on management standards 	Business telephones, ATMs, cash handling equipment, printers
Image: Substration Image: Substration with the substration withe substration with the substration withe substration	harmful substances	Environmental pollution prevention/mitigation system	Databases for the management of chemicals in products and component information

Please see "OKI Eco Products" and "OKI Eco Solutions" on our website for details about environmentally friendly products. https://www.oki.com/en/eco/product/ecoprod.html

https://www.oki.com/en/eco/product/ecosolu.html

•R&D for an Environment that "Looks toward the Future"

The OKI Group is conducting R&D that is strongly aware of contributions to the environment, starting with the initiatives on the chart below. Of the themes addressed in the R&D department, there are ten technological themes that directly contribute to the environment, such as power-saving and

Themes	Direct/Indirect	
"Deep learning" weight reduction technology	Direct	Technology that contributes to networks. Improve power effici
All silicon photonic integrated module technology	Direct	By installing signal processing semiconductor manufacturing p technology and sensing techno with high functionality, low end
Next-generation access technology for 5G/IoT	Direct	Technology that significantly re power-saving and reduces size
Zero-energy IoT technology	Direct	Power-saving IoT technology th natural energy supply and close such as monitoring of structure through highly-efficient energy
Delivery route optimization technology	Indirect	Technology that shrinks travel of optimizing delivery routes in log

•Acquired "ZEB" Certification, First in Japan, as a Large-Scale Production Facility

In order to mitigate the issue of climate change, which is growing acceleratingly worse, the reduction of CO₂ is a pressing issue. Each site of the OKI Group is taking efforts to reduce CO₂ by both improving the efficiency of business activities and CO₂ management.

As one such initiative, OKI broke ground on a new factory in Honjo City, Saitama Prefecture in May 2021. Since OKI established a manufacturing factory for telephones in Honjo in 1962, it has been used for manufacturing related to ICT business and EMS business in the same district for many years as one of the core factories. In December 2020, OKI established a local 5G experimentation and testing station in Honjo district to conduct testing for energy-saving and automation with AI in manufacturing sites, and had developed an environment for performing Manufacturing DX*1. OKI aims to build a flexible smart factory in this district that could continue to meet the demands of changing customer needs and evolving technology.

This new factory is part of the efforts to "strengthen Monozukuri infrastructure" as included in the Medium-Term Business Plan 2022. Approximately ¥6.0 billion is expected to be invested in this project. The new factory is part of initiatives to realize decarbonized society. In August 2021, the factory acquired "ZEB" certification^{*2}, the first in Japan as a large-scale production facility. In addition to reducing environmental impact, OKI



Conceptual image of new factory

resource-saving in ICT equipment like servers, as well as 35 technological themes that indirectly contribute to reducing environmental impact through the use of digital technology. OKI is also conducting activities to search for new business opportunities that address environmental issues.

Outline

power-saving through improved calculation efficiency of deep neutral ciency in advanced Al processing with a massive number of edges

g circuits that process optical signals as is on silicon boards using a process, this contributes to power-saving on optical communications ology that uses photo-electronic integration technology optical fiber and lasers nergy consumption, and ultra compact size

educes optical lines between base stations and housing stations, improves e of equipment at housing stations, and improves efficiency of space usage

that does not require communications/power lines through the combination of se-distance wireless technology contributes to disaster prevention/mitigation, res in mountains and monitoring of embankment slopes and check dams, y charge/discharge technology and multi-hop communications between sensors

distance of deliveries and reduces \mbox{CO}_2 emitted from delivery vehicles by ogistics

- is also considering the safety of workers and harmony with local regions, such as the use of local materials (Chichibu-sugi lumber). The construction of the factory is selected for the 2020 Sustainable Building Leading Project (Wooden Leading Type)*³ by the Ministry of Land, Infrastructure, Transport and Tourism as a building resilient to earthquakes that utilizes a vibration-resistant structure and cross-laminated timber. New wings are planned to begin full operation in May 2022.
- *1 Manufacturing DX: OKI's solutions concept that aims to realize smart factories. It is comprised of three transformations: "site transformation," which visualizes manufacturing sites, "IT/operations transformation," which links sites and management in an advanced and bi-directional manner, and "management transformation," which supports various management decisions related to factors such as environmental changes, laws and regulations, and small guantity production of added value items.
- *2 "ZEB" certification: Net zero energy buildings are buildings that aim to consume zero net primary energy through energy-saving technology, such as sensors and highly heat-insulated structures, as well as energy-producing technology through renewable energy, all while realizing a pleasant indoor environment. Buildings are classified by the following four categories based on their energy reduction percentages (energy consumed by production equipment and OA equipment are excluded from ZEB calculation).

"ZEB": 100% or higher; Nearly ZEB: 75% or higher; ZEB Ready: 50% or higher; ZEB Oriented: 40% or 30% or higher

*3 Sustainable Building Leading Project (Wooden Leading Type): Japanese government selects and supports the building costs of leading building projects that contribute to raising awareness about cutting edge technologies. "Wooden Leading Type" is for examples of leading wooden buildings that use a significant amount of wood materials that are part of renewable and circulative resources. The aim is to contribute to the realization of low-carbon societies and spread of leading design and construction technology in structural, fire prevention, and production system factors.

Please see "Environmental Conservation" on our website for details about initiatives and data.

https://www.oki.com/en/eco/