

# Konica Minolta Environmental Management

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# Takenori Takahashi,

Group executive, General Manager, Corporate Sustainability Operations

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Basic Policy of Medium-term Sustainability Strategy 2022





Basic policy Realize solutions to social and environmental issues by innovation (DX)

(1) Define new five material issues (important issues) and resolve social issues by DX

 (2) GX Green Transformation:
 Driving drastic CO<sub>2</sub> emissions reduction with DX, to achieve "Carbon Minus" status by 2030 instead of 2050

# **GX** Green Transformation





# Policy of Environmental Management in the Konica Minolta Style



#### **Management vision**

- A global company that is vital to society, bringing vision to reality
- A robust and innovative company, continually evolving and contributing to the sustainable growth of society and individuals

#### Environment

- Earning recognition as a company vital to the world by contributing to environmental development
- Leveraging environmental initiatives to grow the company
- Sharing the joy of caring for the environment with all stakeholders

Environmental value Solve environmental issues



**Business value** Direct contribution to sales and profit (cost reduction)



# Establishment of long-term environmental vision looking ahead to 2050

# Eco Vision 2050

- Reduce CO<sub>2</sub> emissions throughout the product lifecycle by 80% by 2050, compared to fiscal 2005 levels.
- ② Promote recycling and effective use of Earth's limited resources.
- ③ Work to promote restoration and preservation of biodiversity.







### Carbon minus:

CO<sub>2</sub> emissions from Konica Minolta business activities < Effect of CO<sub>2</sub> reduction by customers, suppliers, and society



# **Approach to Carbon Minus**





# Sustainable Green Products: Activities Continued from the past





# bizhub C360i/C300i/C250i

- Printing plate not required (waste reduction)
- Reduce printing process man-hours, raise
- Efficient resource utilization

### **AeroDR** fine

- Lightweight
- Reduced X-ray exposure



### **TAC film**

 Thin film for increasing viewing angle

### CM-26dG

 Contribute to increased customer productivity and yield

### Infinium Σ Low power consumption

### **Business value (sales)**



### Environmental value (CO<sub>2</sub> reduction, effective resource utilization)



15.0

2018

14.8

2019

(Thousand tons)

10.9

2017

20

15

10

5

0

#### Effective Resource Utilization

(Thousand tons) 20



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(FY)

# Sustainable Solution Certification System: Evolution Toward 2022



# Change from "products" to "solutions"

### Example of certification



AccurioPress C14000 (SS plus) Printing process labor time per day reduced by 75% relative to competition

Contribute to creation of time for work

Certification system

Improving fulfillment in work and corporate dynamism



Certification standards

Products and solutions that provide environmental and social value as defined in medium-term sustainability plans are certified in the following three levels:

	Certification level	Certification standards			
Sustainable Solution Prime (SS prime)	Sustainable Solution Prime (SS prime)	<ul> <li>Solutions to social issues that conventional products cannot realize</li> <li>Technology only Konica Minolta can provide</li> <li>Business contribution</li> </ul>			
Sustainable Solution Plus (SS plus)	Sustainable Solution Plus (SS plus)	<ul> <li>Solutions that show ways of contributing to resolution of social issues at the top level or for the first time in the industry by comparison with comparable segments in competing companies</li> </ul>			
Sustainable Solution (SS)	Sustainable Solution (SS)	<ul> <li>Solutions that show ways of contributing to resolution of social issues at a level equivalent to the industry top (within top 30%) by comparison with comparable segments in competing companies</li> <li>Where not comparable, solutions that can be expected to contribute 1% or more of long-term vision defined in Sustainability Plan 2030</li> </ul>			

# Green Factory: Activities Continued from the past

2005

2019

(FY)

2005

2019





Green Factory Certification System

(FY)

Sustainable Factory Certification System: Evolution Toward 2022 and Achievement Criteria

- CO<sub>2</sub> emission from production decrease by 18 thousand tons in 2022 (7% decrease relative to 2019)
- Each production site and high-burden site implements reduction activities matched to its role



- \* Sustainable Factory guidelines
   (1) VOC reduction
   (2) Guidelines for Biodiversity Preservation (water, soil, marine plastics, chemicals)
   (3) CSR procurement
   (4) Renewable energy plans, etc.
- \* For sites that fall below 1% share of total waste generated and energy used in Konica Minolta production, the target value is to be an annual rate of 1%.



## Green Supplier Activities: Activities Continued from the past



- Provide suppliers with environmental experience and know-how
- Simultaneously realize reductions of environmental burden and costs



# DX Green Supplier Activities: Evolution Toward 2022









resources

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# Green Marketing Activities: 2019 Results









### FY2014-2019 results

### Number of contracts: 429

- Number of MFPs sold: 2,530 units
- Production printing machines: 5 units
- Solution cases, etc.: 149 cases



# **Environmental Trends and Issues**



### External changes

- Heightening societal demand regarding environmental issues
  - Concerns about warming (Paris Agreement, SBT, TCFD)
  - Progress to 100% renewable energy (RE100)
  - CO2 measures in supply chain and demands for renewable energy
- Countries moving to strengthen their laws and regulations
  - EU trend toward climate-neutral legislation
  - EU circular economy action legislation
- Expanding ESG investment
  - Achieve balance between business value and social value advocated by CSV
- Demands regarding SDGs
  - Resolution of environmental issues and business growth through innovation

### Issues for companies

### • Thorny issues for companies

• They want to raise the level of environmental activity.

• Meanwhile, environmental issues keep increasing.



Issue (1) Maximizing operational efficiency to deal with heightening demand regarding the environment
 Issue (2) Creating innovation that leads to growth of business supporting SDGs

# **Environmental Digital Platform**





### Environmental Digital Platform Participating Companies (Total 33 companies as of December 2021)



	Manufacturing industry				Non-manufacturing industry								
	Electric Appliances/ Machinery	Transportati on equipment	Foods	Chemicals / pharmaceuticals / Textiles and Apparels / Rubber Products	Iron and steel/ Metals Products	Glass and Ceramics Products	Information and Communication	Electric Power and Gas	Transportation	Retail Trade/ Wholesale Trade	General consulting	Environmental services	Other
line	Azbil Konica Minolta Panasonic 1 other company	Denso Toyota Boshoku	Kagome		ҮКК ар		1 company				Mitsubishi UFJ Research and Consulting	Carbon Free Consulting blue dot green Yachiyo Engineering	
December	Kito NSK Fujitsu General 2 other companies		Nichirei	Aica Kogyo Otsuka Pharmaceutical Factory Daicel Lion 1 other company		Nichias 1 other company		Osaka Gas Kansai Electric Power	1 company	Sangetsu		Ecologica Waara	1 comp any

# Reduce Energy and CO<sub>2</sub> by Improving Customer's Processes



		Environmental and social value*	Econor value	nic					
Medium-term plans									
Business	Providing value	KPI	2020	2021	2022				
Business A	Energy and CO <sub>2</sub> reduced in customer production processes	Carbon minus contribution	560 thousand tons	580 thousand tons	640 thousand tons				
		Solution sales	Finaliz Ł	Finalize in medium-term business plan					
Business B	GHG leak prevention by monitoring of chemical plant, gas plant and pipelines	Carbon minus contribution	18 thousand tons	35 thousand tons	71 thousand tons				
		Solution sales	Finaliz	Finalize in medium-term business plan					
Business C	Reducing losses in customer processes by process technology making use of materials	Carbon minus contribution	—	29 tons	47 tons				
		Solution sales	Finaliz	Finalize in medium-term business plan					
Business D	Globally coordinating and providing services to customers by means of DX-based ecosystem	Carbon minus contribution	_	5 thousand tons	40 thousand tons				
		Solution sales	Finaliz Ł	Finalize in medium-term business plan					

### Logic for converting into social value

(Number of solution adoption cases)  $\times$  (Greenhouse gas curbed per case)

<Applicable solution>

Product

(Number of solution adoption cases)  $\times$  (Greenhouse gas curbed per case)

<Applicable solution>

Product

(Number of solution adoption cases)  $\times$  (Greenhouse gas curbed per case)

<Applicable solution>

Product

(Number of sites adopting energy-saving solutions)  $\times$  (Reduction per site)

<Applicable solutions>

• Energy-saving solutions

### Material Issues 4) Addressing Climate Change

# Energy and CO<sub>2</sub> Reduction by Konica Minolta Sites, Suppliers, and Konica Minolta Products and Services





